ERCO

Program

Lighting controls Indoor area Outdoor area

2010/11 edition

















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Indoor

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Quintessence round 405



with LED:

430 Downlights

449 Washlights452 Double washlights456 Lens wallwashers

460 Directional luminaires



for low-voltage halogen lamps: 471 Double-focus downlights 472 Downlights

484 Washlights486 Double washlights

488 Lens wallwashers 490 Focal lens wallwashers

492 Directional luminaires



for high-pressure discharge lamps: **504** Double-focus downlights **504** Downlights

530 Washlights
535 Double washlights
540 Lens wallwashers
545 Focal lens wallwashers
550 Directional luminaires



for compact fluorescent lamps:

567 Downlights

572 Washlights

574 Double washlights

578 Wallwashers



Quintessence square



with LED:

587 Downlights 606 Lens wallwashers

607 Directional luminaires



for low-voltage halogen lamps: **616** Double-focus downlights **617** Downlights

629 Lens wallwashers629 Directional luminaires



for high-pressure discharge lamps:

640 Double-focus downlights 640 Downlights

666 Lens wallwashers

668 Focal lens wallwashers670 Directional luminaires



for compact fluorescent lamps:

684 Downlights 689 Wallwashers

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for PAR lamps: 697 Downlights 698 Lens wallwashers 699 Directional luminaires



for high-pressure discharge lamps: **705** Double-focus downlights



for compact fluorescent lamps: 709 Downlights 714 Washlights 716 Wallwashers



Compact HIT 721



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Compact 100 **738**



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Panarc 780



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Lightcast 1003



with LED: 1006 Downlights 1007 Lens wallwashers 1008 Directional luminaires



for low-voltage halogen lamps: 1012 Downlights 1013 Directional luminaires



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for high-pressure discharge lamps: 1021 Downlights 1022 Directional luminaires



for compact fluorescent lamps: **1025** Downlights

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Resource-friendly catalogue

production
This catalogue was printed in accordance with the criteria of the FSC (Forest Stewardship Council) and the PEFC (Pan European Forest Council). The symbols indicate international certifications whose specifications ensure that goods are sourced solely from forests managed ecologically, socially responsibly and sustainably. This excludes any

illegal deforestation. Independent monitors guarantee seamless product documentation from the forest to the final printed medium. In comparison to conventional processes, the innovative use of combined heat and power generation has resulted in 52% less CO₂ emissions in the printing of this catalogue.



"tune the light" – this guiding principle expresses our continuous quest for optimum solutions for architectural lighting, in terms of producing, guiding and controlling light and enhanc-ing the options for efficient visual comfort and scenographic design. Innovation is the key to raising this optimum to ever-higher levels. We see the process of innovation as the transformation of technology into culture. This mindset ensures that – even with such ambitious developments as the Quintessence product range containing over 1200 new recessed luminaires and recessed spotlights - we never loose sight of the objective. The objective is to offer users lighting tools that satisfy all the technical and economical demands of real-life applications while simultaneously opening up the whole fascination and magic of the "immaterial material" of light.









Quintessence recessed luminaires and recessed spotlights

Featuring over 1200 new articles, the new product range can meet all the tasks required of ceiling-inte-grated lighting. With an empha-sis in the area of wallwashers and

LEDs, Quintessence is consistent in the application of the principles of effi-cient visual comfort.

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Logotec surface-mounted and recessed spotlights

Logotec is a range of particularly economical, cleanly styled spotlights uncompromis-ingly designed in terms of lighting technology and housing quality.

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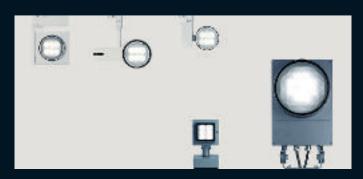


functions for energy saving is new to the Program.

Page 34



Focus of inno-vation: LED In many of the product ranges for indoor and outdoor areas, lighting tools are now available with LEDs – the light source of the future.





Lighting requires energy. Everyone who is involved in lighting - the manufacturer, the designer, the user - should use the limited resources responsibly. Against the backdrop of rising energy costs, architectural lighting has improved enormously over recent years and has already achieved a significant level of efficiency. Efficient visual comfort as promoted by ERCO means steadily improving both the energy efficiency and the light quality – through innovative technical and design-oriented approaches.

Efficiency through visual comfort

Human perception ultimately determines whether lighting is efficient. Irrespective of any technical measure of efficiency, if light produces glare, it will impair vision and diminish people's comfort, resulting in energy being wasted. The eye is forced to adapt and the pupils contract. The result is that even zones of high illuminance appear relatively dark by comparison with the glare of the light source. Glare-free, comfortable light, by contrast, creates optimum viewing conditions for the human eye. It allows the designer to plan an energy efficient solution using lower illuminance levels and subtle contrasts.

Less can be more

The investment in light quality is beneficial from both an economical and an ecological point of view. A carefully planned and implemented lighting concept using high-quality products effectively is more attractive to the client and user. In the long run, it will produce savings in both operating and maintenance costs. Specialised, professional lighting tools - for example wallwashers for vertical illuminance are highly efficient in achieving a specific lighting effect in a differentiated lighting concept. They invariably replace several non-specific, inexpensive products, which compensates for their higher price. Modern, efficient lamps reduce the connected load of the lighting system and the thermal load. There are additional positive effects, such as the size and operating costs of air conditioning and ventilation systems. Intelligent designs and highquality lighting tools result in lighting solutions that reduce the operating costs while meeting all the aesthetic, functional and ecological requirements.

Using synergies

To optimise efficient visual comfort in lighting concepts, ERCO has cooperated with designers and users to identify five key factors. These factors not only determine ERCO's developmental work, they should always be considered while planning. The factors are mutually reinforcing and result in significant increases in light quality, resource savings and economic efficiency.

5 factors for efficient visual Vertical illuminance





Qualitative lighting design



Effective lighting technology



Intelligent lighting control



Efficient lamps

Efficient visual comfort Vertical illuminance

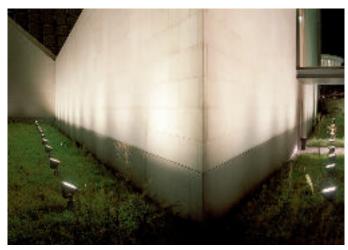
Vertical illuminance is a characteristic feature of well-designed and particularly energy effi-

cient lighting concepts. This is why ERCO offers one of the widest ranges of lighting tools for wallwashing. Vertical illuminance using special wallwashers is far more important to the subjective perception of brightness than the light on horizontal surfaces. This is taken into account in per-

ception-oriented lighting design as an optimal solution that contributes significantly to meeting the requirements of the users of architecture and can help save energy if used in an appropriate lighting concept. So, for example, an impression of brightness in a room can be created more efficiently with a differentiated lighting concept which involves wall-washing than with a uniform level of brightness using horizontal

ambient lighting alone. The average illuminance can be decreased accordingly, reducing the required quantity of luminaires.

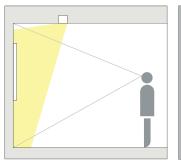




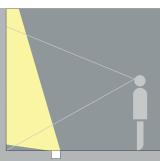
Wallwashing and architecture Light is the fourth dimension of architecture. It is lighting that can enhance the effect of meticulously planned buildings and extend their visual presence in public places well into the night. Vertical lighting in particular can be used to highlight the building as a whole, which increases its spatial effect, enhancing the quality of the environment.



Wallwashing and perception Man perceives spatial dimensions and connections intuitively through vertical surfaces. These constitute the majority of the visual field and provide the information required for perception. This is why the light on space-defining surfaces is a central element of qualitative architectural lighting.



Perception of vertical surfaces Due to the natural orientation of our visual field, the vertical planes of an environment constitute around 80% of our perception which determines our impression of brightness.



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Efficient visual comfort Vertical illuminance

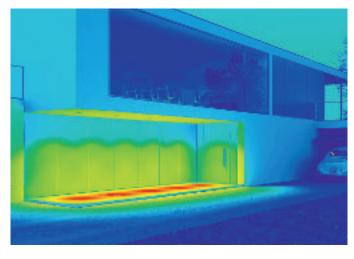
Wallwashing and energyefficiency

Perception-oriented principles of planning and design provide enormous potential for making architectural lighting more effi-cient in terms of energy, investment, maintenance and installation costs. Directing the light specifically onto surfaces relevant to perception while using innovative technology is the key to highquality design and economic light-

ing solutions. The rule that vertical illuminances are more important for the impression of brightness in a room than horizontal illuminances applies outdoors as well as indoors. The subjective impression can be used to achieve a brighter impression without increasing the energy consumption. Alternatively, the same brightness impression can be achieved with lower energy consumption. In either case, the result is an increase in the overall

efficiency of lighting. An illustration of this is the entrance hall, shown here: in one example illuminated using horizontal lighting provided by downlights, in the other using vertical illuminance from wallwashers.





Horizontal lightingThe downlights create illuminances primarily on the floor of the entrance, but also through the overlapping beams on the wall. Seen from a distance, however, the entrance area appears dull and is poorly portrayed in the surroundings.

Equipment used: 5 Lightcast IP65 downlights HIT 35W

Total connected load: approx. 175W

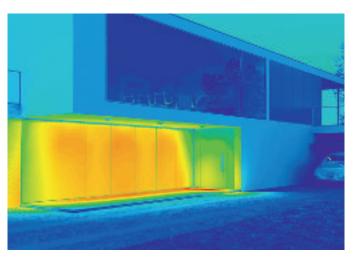


Vertical illuminance

The concept of wallwashing with less luminaires and lower energy consumption produces the impression of a much higher ambience and improved visibility. The light which is reflected off the wall is sufficient to illuminate the floor of the entrance

Equipment used: 3 Paratec wallwashers HIT 35W

Total connected load: approx. 105W Energy savings: 40%



The false colour diagram depicts the uniformity of vertical lighting. The quality of the design depends entirely on the characteristics of the wallwashers, their offset and spacing.

The information required for planning and design are provided in the product documentation for each ERCO wallwasher

Efficient visual comfort Qualitative lighting design

Careful, perception-oriented lighting design uses light specifically to meet the requirements of the user: vertical lighting, for example, provides a subjectively high impression of brightness in a room. The same principle applies to controlled accent lighting which is invariably more effective than blanket high levels of light. Lighting tools which provide good visual com-fort prevent glare and allow the designer to produce an energy efficient solution with lower illuminance levels and subtle contrasts. The variety of efficient and differentiated lighting tools, indeed the entire scope and structure of ERCO's Program, is orientated towards qualitative lighting design.



Ambient luminescence refers to uniform general lighting. This type of lighting (e.g. through downlights around the perimeter of a building or through uniform vertical lighting) enables users and observers to find their bearings and provides them

with a feeling of safety.



Focal glow typifies accent lighting used to emphasise objects, areas and specific zones in a space and to create hierarchies of perception. It is a primary consideration in the illumination of scenery, as well as outdoor and urban spaces which are intended to attract attention.



Play of brilliants is the decorative light, the light that results in amazement; it is light as an aesthetic end in itself. Light effects such as dynamic colour progressions or light patterns with Gobo projections are used to create a visual attraction.

The same can be said of decorative luminaires, objects of light art or neon signs which can provide the play of brilliants in the lighting concept.



Shop window Design 1

Lighting task: to scenically illuminate a product presentation in a shop window and the store logo on the rear wall. This task can, of course, be fulfilled with a number of appropriately focused, narrow-beam spotlights.

Equipment used: Luminaires: ea. 20W HIT 11 x Spherolit reflector, spot 6 x Spherolit reflector, flood

Six luminaires for the logo

Connected load: 340W



Shop window Design 2

Design 2
The differentiated beam characteristics of the individual articles within the ERCO product groups enable the luminaires and the lighting task to be precisely tuned increasing the energy-efficiency. Here one oval flood spotlight is used for the lettering, replacing six spot spotlights.

Equipment used:

Luminaires: ea. 20W HIT 5 x Spherolit reflector, spot 6 x Spherolit reflector, flood 1 x Spherolit reflector, oval flood

Only one luminaire for the logo

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Connected load: 240W Energy saving: 29%

Efficient visual comfort Qualitative lighting design



Display shelves with accent light Design 1

A display shelf is to be illuminated with brilliant, accent light, highlighting it against the dark surroundings. In the first example, this is provided by five adjacent beams from narrow spot spotlights.

Equipment used: Luminaires: ea. 35W HIT

5 x Spherolit reflector narrow spot

Connected load: 175W



Display shelves with accent light Design 2

A comparable effect, which is more attractive ender the beautiful and treative and the single and treative due to the greater uniformity, can be produced with only three spotlights fitted with display lenses. This special lighting technology shapes the beam into a wide oval, while retaining the brilliance for an attractive effect produced on bright materials and surfaces.

Equipment used: Luminaires: ea. 35W HIT 3 x Spherolit reflector spot with display lens

Connected load: 105W Energy saving: 40%



Salesroom

Design 1This task is to illuminate a large salesroom such as a floor within a department store or shopping centre. In the first example, although the lighting uses efficient lighting technology, it is undifferentiated and only quantitatively orientated about the required illuminance on the merchandise. The resulting connected load per unit area is entirely representative of current practice in this field of application.

Equipment used: 102 downlights, HIT 150W

Connected load: 15300W $(34W/m^{2})$

Illuminances:

Merchandise area 1900lx Wall 220lx Walkways 1750lx



Salesroom Design 2

The second example demonstrates how this lighting task can be better solved using a perception orien-tated lighting design that utilises the specific capabilities of differentiated lighting tools. As a result, the connected load can be reduced by around 25%, while simultaneously achieving a significantly more attractive ambi-ance. The uniform wallwashing gives the entire room a bright appearance, while the accent lighting ensures the merchandise receives the highest illuminance in the room.

Equipment used: 52 downlights, HIT 70W 104 directional luminaires, HIT 70W 16 wallwashers, HIT 35W

Connected load: 11480W

 $(25,5W/m^2)$

Illuminances:

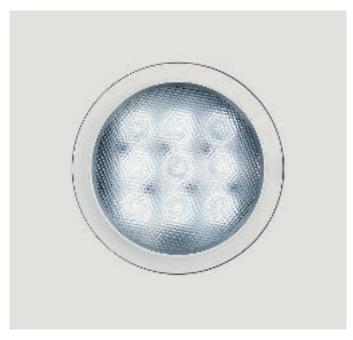
Merchandise area 1700lx Wall 290lx Walkways 600lx

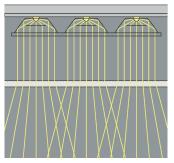
Energy saving: 25%

Efficient visual comfort Effective lighting technology

Efficient, precise optical systems lower the energy requirement

for lighting. A compre-hensive toolbox of lighting equipment ensures optimal and thus efficient light distribution for specific lighting tasks. This extends from the asymmetric wallwasher and various spotlight characteristics to the reflector lens system for illumination of product displays in shops. Innovations such as the ERCO Spherolit reflectors provide both high light output ratios and visual comfort. New light sources such as high-power LEDs with their directed beam require entirely different light guidance systems than conventional lamps, which creates new lighting technology challenges. The result is lighting tools which give the user complete control and include sustainability in the planning.





Optoelectronics Lighting technology is one of ERCO's key competences which include LED light sources. The focus here is on lens systems designed and built by ERCO of high-quality optical plastics. Customised LED modules have a collimating lens,

which focuses the emitted light in a parallel beam. An additional Spherolit lens precisely controls the beam angle to determine the light distribution of the luminaire.







Spherolit reflectors ERCO's patented reflector technology optimally combines visual comfort and efficiency. Due to the different shapes of the computer-calculated spherolites on the reflector surface, the reflector characteristics can be

exactly controlled over a wide range.

Characteristics
Spherolit technology offers the
choice between
a number of different light distributions within
a single product
group: ranging
from narrow spot
and spot to flood
and wide flood,
and also including the washlight
characteristics
oval flood and
wallwash.

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Efficient visual comfort Intelligent lighting control



ERCO's DALI technology makes lighting control energy-efficient, user-friendly and eco-

nomical. Individual light scenes to suit each situation are selected and controlled by the user. This is in combination with automated light management using sensor systems and timer programs which have the potential for enormous energy savings. Typical scenarios here include the use of presence detectors so the light in unused rooms can be dimmed or switched off. Similarly, twilight switches or analogue daylight sensors can be used to recall light scenes to supplement the available daylight. Easy installation, setup and ease of operation contribute to the high level of acceptance of these systems among the users.



In terms of lighting installations with control systems such as Light System DALI, the connected load only indicates the theoretical maximum: the actual consumption will be determined through the use of the programmed scenic dimming.



User-dependent lighting control The lighting is adjusted to suit personal requirements.



Event-driven lighting control The lighting is adjusted to suit the occasion and type of use.



Time-dependent lighting control The lighting is orientated around time progressions and calendar events. Automation allows for energy usage to be optimised.



Daylightdependent lighting control The lighting is adjusted to suit the available daylight using an outdoor photosensor.



Brightnessdependent lighting regulation The illuminance level is kept constant taking account of natural and artificial lighting.



Presencedependent lighting control The lighting is dimmed or switched using a presence detector or motion sensor.



Consumption-dependent lighting control To reduce peak loads, the lighting is dimmed dependent on total energy consumption.



Temperaturedependent lighting control To reduce the thermal input for the benefit of the air-conditioning, the dimming of the lighting is dependent on the temperature.

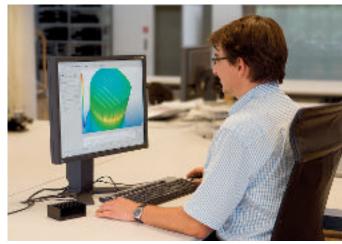
Efficient visual comfort Efficient lamps



ERCO is heavily involved in the development of LED lighting equipment to make

practical use of the many advantages of LEDs in terms of luminous efficacy and functional life. ERCO also continues to extend an exceptionally wide range of products which are designed for use with economical, long-lasting metal halide lamps and compact fluorescent lamps.

Thermally optimised components enable each light source to be used at its optimum operating point - for greater efficiency and longer life.



Assuming optimised light-

ing technology

tuned to suit the light source, this explains

why higher illu-

minances can

be achieved on

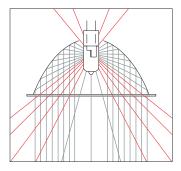
the target surface with LEDs

than with con-

ventional point light sources even though the lumi-

nous flux values

are very similar.



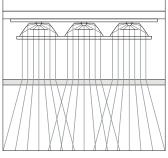
angle <180°. No

losses result due to spill light or

light emitted back

towards the lampholder (shown in red in the illustra-

The introduction of the LED as a light source requires a rethink in many areas of lighting technology. Compared with conventional point light sources which emit light in a solid angle of virtually 360°, LEDs always emit their light in a solid



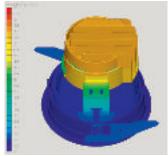
Article	Lamp	Wattage (W)	Luminous flux (Im)	Lamp (Im/W)		Luminaire (Im/W)	Illuminance at 3m (lx)	Illuminance (Ix/W)
75713.000	LED dw	14	1080	77	81.2	63	994	71
75712.000	LED ww	14	870	62	81.2	50	801	57
75601.000	HIT-TC-CE	20	1650	83	65.5	54	1088	54
75653.000	QT12-ax-RE	50	1250	25	47.9	12	785	16
75663.000	QT12-ax-LP	100	2200	22	58.7	13	1745	17



As light sources, LEDs have already achieved a significant level of efficiency and have considerable further development potential. Their extremely long life and optimal dimmability qualify them as the sustainable light source of the future.



Metal halide lamps are sophisticated, longlasting and highly efficient lamps. They are available in many wattages for a wide range of applications.



Heat management
Because all artificial light sources generate excess heat, ERCO's resource-conscious thinking determines that all luminaires are designed to ensure effective dissipation of this heat. The result is that lamps and

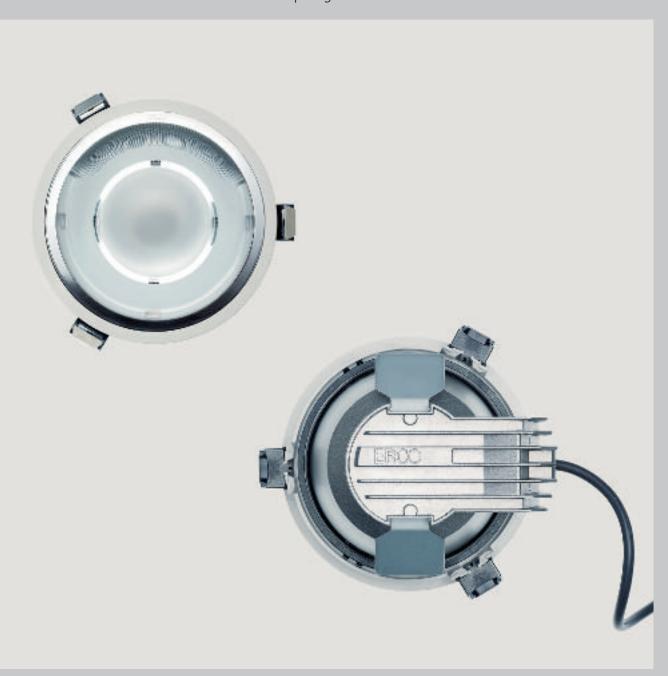




Modern control gear Electronic control gear provides greater comfort than conventional control gear and is more efficient. It is smaller, protects the lamps and is a far more environmentally friendly option. ERCO only uses lead-free soldered

electronic compo-

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More than 1200 new lighting

tools for efficient visual comfort
The philosophers of the ancient world referred to the omnipresent energy of life as the fifth element or "quinta essentia". Today, the term "quintessence" is understood as the synopsis of the essential, the end result. The new Quintessence product range literally forms the quintessence of ERCO's 40 years of experience in ceiling-integrated lighting, yet, at the same time, also looks forward, formulating a future-proof system framework for the further development of recessed luminaires.

The vigorous requirements of the architecture of tomorrow were a primary factor in determining the development of Quintessence, the first recessed luminaire product range to be uncompromisingly designed around the aspect of efficient visual comfort. One focus of this universal product range is on wallwashers for energy-efficient

vertical illuminance, another is on efficient, future-proof light sources - as can be seen by the large number of over 350 articles with LEDs. Versions with DALI interfaces are available throughout the entire range. A vast array of different light characteristics, light sources, design variations and installation variants make Quintessence the optimum lighting tool both for everyday situations and for scenarios involving highly specific applications. The logical structure of the product range ensures that planning and designing with Quintessence and also the installation and maintenance of the luminaires are easier and more logical than ever before.

Double-focus downlights Downlights with wide diffuser, focal diffuser and narrow diffuser

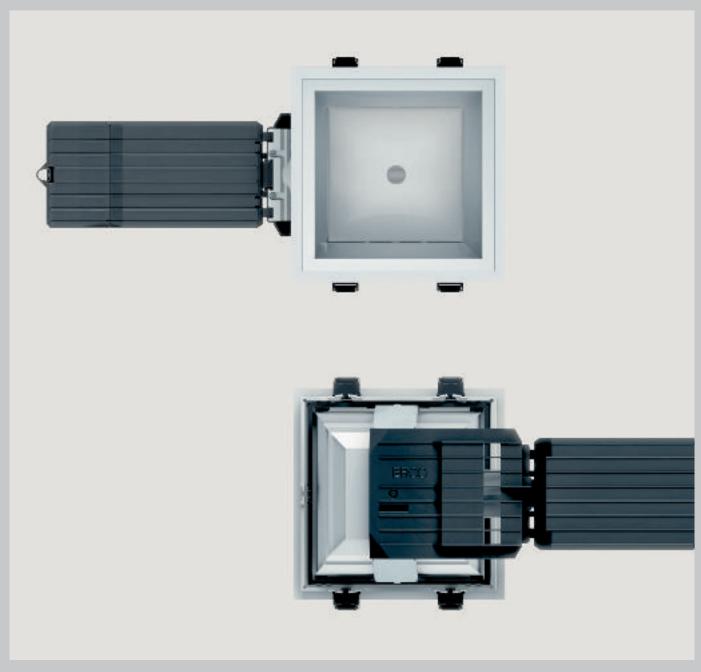


washlights for high-pressure discharge lamps

Quintessence







Quintessence downlights in square format for fluorescent lamps

Lens wallwashers Focal lens wallwashers



Directional luminaires



Recessed spotlights



The Quintessence product range is able to cover all the essential sub-tasks of a lighting concept: from vertical illuminance with washlights and

lens wallwashers, ambient lighting with downlights to highlighting with directional luminaires and recessed spotlights.

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Logotec surface-mounted and recessed spotlights



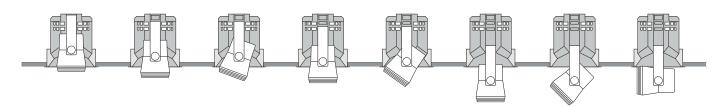
Logotec spotlights

Logotec is a range of exceptionally economical, cleanly styled spotlights, uncompromising in terms of lighting technology and build quality. Using contemporary light sources and the patented ERCO Spherolit reflectors, they provide efficient visual comfort and great flexibility in application, for example, in shops, restaurants or galleries.

Innovative light-ing technology Logotec spotlights have the patented Spherolit reflectors with a variety of characteristics – for efficient visual comfort.







Logotec recessed spotlights

Tilt positions The housings of

Logotec recessed spotlights feature a range of incre-mental settings

for maximum flexibility.

The new Logotec recessed spot-lights feature the same high-quality lighting technology and housing quality as Logotec surface-mounted spotlights. They can be retracted partially or completely into the recessed housings as required. They use the same mounting rings as Quintessence luminaires.



In the Logotec range, many surface-mounted spotlights and recessed spotlights are available as Light Clients, i.e. with DALI-compatible, factory encoded control gear. They are automatically recognised by the Light System DALI (plug and play).



Light System DALI Light Changer+ and Light Keeper



The interaction of control software, hardware and the addressable luminaires in the ERCO Light System DALI has opened up a whole new range of design possibilities for lighting users – for scenographic concepts, more comfort and energy-efficiency. Under the guiding principle of "tune the light", ERCO actively pursues this concept. This involves constantly expanding the range of Light Clients (ERCO's DALI-compatible

luminaires) and continuously improving the actual hardware and software of Light System DALI itself. All of this further develops functionality and enhances userfriendliness.

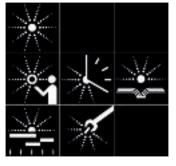
Light Changer+
This wall-mounted input device for Light System DALI has a large, colour touchscreen and a graphic user interface. The new Light Changer+ is extremely user-friendly and offers high functionality.



PC software Light Changer+ Wherever a PC is permanently available, such as at workstations, check-outs or reception desks, it can be used

with the Light Changer+ PC software to operate Light System DALI.

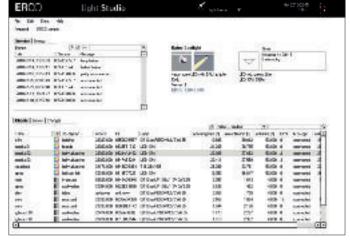
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Light Keeper
The functions in the Light Studio software's new Light Keeper module support the operation of a Light System DALI installation in respect of maintenance and exploiting the savings potentials of both energy consumption and operating costs.

Light Keeper
The Client List
displays the operating time of
each Light Client
and compares it
with the expected
lamp service life.
This simplifies
the planning of
replacement.



Light Keeper
The use of lighting control systems to improve
lighting quality
and reduce the
consumption of
resources is integral to the ERCO
concept of "efficient visual comfort". The special
functions in the
Light Keeper
module enable
the user to exploit
the potential of
intelligent lighting control even
more easily.



Focus of innovation: LEDs for outdoor areas

Lightcast IP65 recessed luminaires with LED

The properties of LEDs such as long life and low energy consumption really come to the fore in applications in the outdoor area. The Lightcast IP65 recessed luminaires are now also available with LED lighting technology; as lens wallwashers, downlights and directional luminaires, all available both in warm white and daylight white.

Page 1002









IP65 Cylinder downlights with LED

The same LED lighting technology advantages used in the Lightcast IP65 recessed luminaires are also available in the IP65 Cylinder downlights. These luminaires are now available as lens wallwashers, downlights and directional luminaires, both available in warm white and daylight white.

Page 1033











Tesis IP68 lens wallwashers with LED

Vertical illuminance is an important factor for efficient visual comfort in outdoor areas. The advantages of LEDs, such as their increased efficiency and negligible maintenance really come into their own here. The new Tesis IP68 lens wallwashers with LED are available in round or square formats, and are now both available in warm white and daylight white.

Page 1050







Focus of innovation: LEDs for outdoor areas

Powercast

Powercast is a universally applicable range of economical lighting tools for outdoor areas. The projectors and floodlights feature current technologies such as LEDs or Spherolit reflectors for efficient visual comfort. Their system design follows a uniformly styled housing. This not only offers symmetrical light distributions for accent lighting, from narrow spot to wide flood, but also has differ-ent flooding light distributions. This makes Powercast a particularly versatile, economical and flexible range of luminaires. Applications include the illumination of facade details, signage or vegetation.



Powercast projectors

Powercast projectors are available for metal halide lamps or low-voltage halogen lamps and with Spherolit reflectors of four different beam angles. When fitted with LEDs, a choice of three different beam angles is offered. These luminous flux through the current generation of LEDs.

Page 850



Powercast floodlights

The floodlights of the Powercast product range produce an asymmetrical light distribution through the use of the special Spherolit reflectors. They are offered for metal halide lamps or low-voltage halogen lamps. The reflector can be rotated through 360° and features a 90° lockable setting.

Page 857

LED-additions in the outdoor

The addition of the LED outdoor luminaires in warm white and daylight white LED technology is now used to offer different colour temperatures for lighting design. In addition to the daylight white version, which has a colour temperature of 5500K, a warm white version of 3200K is also available. This enables the colour of light to be chosen to optimally correspond to the material colour or to other lighting components. The higher luminous efficacy of the daylight white LEDs results in a higher luminous flux than the warm white versions. The range of luminaires offered in both colour temperatures includes models for accent and orientation lighting, as well as grazing lighting for facades. These versions all produce higher luminous flux values thanks to the current generation of LEDs.



Focalflood facade luminaires with LFDs

Page 887



Kubus with LED

Page 927



Grasshopper projectors with LEDs and for low-voltage halogen lamps

23

Page 862

Focus of innovation: LEDs for indoor areas

LED-additions in the indoor area The established Cantax, Emanon and Optec spotlight ranges, which ERCO offers with varychrome spotlights featuring LED technology, have now been expanded by the addition of LED spotlights with daylight white and warm white. These new spotlights utilise the greatly improved properties of the latest generation of white LEDs, both in terms of luminous flux and colour rendition. This means that these professional lighting tools now represent a real alternative to conventional light sources for numerous applications in architectural lighting. These versions all produce higher luminous flux values thanks to the current generation of LEDs.



Cantax with LED

Page 132



Emanon with LED

Page 158



Optec with LED

Page 268

Floodlights with Spherolit reflectors

Spherolit technology is not only ideal at producing rotationally symmetrical light distributions, it is also used to produce Spherolit wallwashers with asymmetric characteristics. ERCO now offers the Spherolit reflector oval flood with an axially symmetrical beam. The new floodlights fitted with these reflectors in the Cantax and Emanon luminaire ranges look the same as the spotlights. They do however produce a wide flooding light distribution with an oval beam and beam angles ranging from approximately 30°-45° to about 90°.



Cantax

Page 141



Emanon

Page 181

Further additions in the indoor area



Compact HIT: Washlights

Double washlights
The new Compact HIT recessed luminaires supplement the horizontal illuminance by adding a vertical lighting, especially for efficient visual comfort. Applications include retail stores and administrative buildings.

Page 725



TFL wallwashers

The well-established TFL wallwashers for uniform and economical vertical illuminance are now also available as DALI-compatible Light Clients. This offers true plug and play connectivity when used in combination with Light System DALI.

Page 784



Food filter

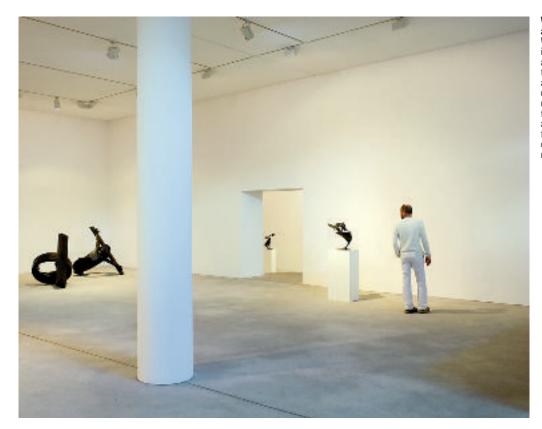
The food filter is part of ERCO's concept for dedicated lighting for specific types of produce in food stores. The filter fits into many existing ERCO spotlights as an accessory and alters the spectral composition so that meat and cold cuts look especially appe-



Light can be used to define and continually reinterpret spaces. Looking at walls and other vertical surfaces, it is clear that these are crucial for the perception of architecture: illuminated walls allow us to perceive the shape and dimensions of a room. When illuminated in perfect uniformity, the wall appears light, almost intangible. Objects such as photos, posters or paintings can be viewed in optimal conditions. Vertical illumination creates a subjective impression of significant brightness in the room and can contribute to energy saving. The lighting equipment used for this type of lighting is called wallwashers. ERCO has developed and perfected these special luminaires for decades. The result is a range of tools for the illumination of vertical surfaces which is as yet unparalleled in terms of its extent and distinction. The different types of wallwasher and their typical applications are presented on the following pages.

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Wallwashing and accent lighting Wide, vertical illumination as background, together with accentuating, directed illumination in the foreground form a classic concept for highlighting objects in the room.

Successful wallwasher illumination can be so subtle that it is hardly perceived as such but rather as a pleasant level of brightness in the room. The diffuse light reflected on the wall contributes to the ambient lighting.





Wallwashing:
play of brilliants
Vertical surfaces
in the room are
transformed by
appropriate lighting equipment to
become screens
used for dynamic
lighting effects.
Plays of colours
or projections
become an attractive eyecatcher.

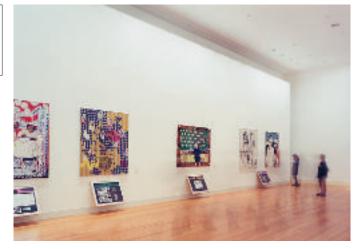
The applications illustrated describe a widespread, uniform wall illumination with different optical systems and a wide range of lamps. To ensure optimal uniformity and high illuminances, the following is recommended:

up to 3.0m 4.0m 1.5m Wall height Offset from wall 1.0m When the wallwashers are arranged in a row, the luminaire spacing should be the same as the offset from the wall. With some luminaires, this can be up to 1.5 times the offset from the wall. In addition, the wall and spacing distances documented in the publications provide information on optimal arrangements and the expected illuminances.

Light Clients Many wallwashers are available as Light Clients, i.e. with DALI-compatible, factory encoded control gear. They are automatically recognised by Light System DALI (plug

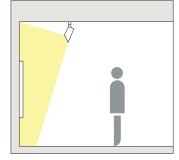
and play).

DALI PLUG+ **PLAY**



Lens wallwashers

The reflector technology used here is suitable for the highest museum quality. Lens wallwashers illuminate walls from the ceiling to the floor. The light is spread in longitudinal direction by special lenses. Reflectors distribute the luminous flux evenly on the wall and shield the lens wallwashers to prevent glare in the room. The wallwashers illustrated are operated on tracks.

























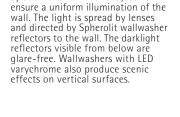








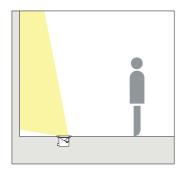




Lens wallwashers Special lens wallwasher systems



These lens wallwashers distinguish themselves by their high visual comfort. Darklight reflectors with a cut-off angle of 40° let the luminaires appear dark. Only the cover glass is visible above the cut-off angle. A wallwasher lens system distributes the luminous flux on the wall to pro-vide an illuminance distribution of the highest level of uniformity.



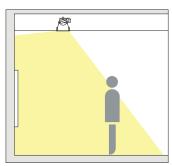


15080



Washlights

As recessed ceiling luminaires, these wallwashers are similar to downlights. A wallwasher segment of the Spherolit reflector distributes the light uniformly on the wall surface, while the remainder performs as a downlight.













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Double washlights

To illuminate hallways and corridors, double washlights are available. In contrast to conventional washlights, they are equipped with two oppositely facing reflector segments featuring Spherolit technology. These segments provide highly uniform illumination for two parallel running walls. In their main direction, the hallways are illuminated using glare-free darklight reflectors.





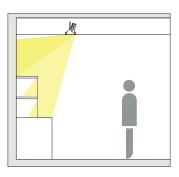






Focal lens wallwashers

Both metal halide lamps and low-voltage halogen lamps are used in lens wallwashers making them ideal for illuminating walls in shops and presentation areas. They produce a focal emphasis in the upper third of the illuminated area, e.g. for the illumination of displays above shelves.





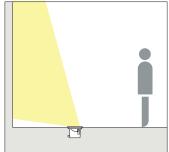






Focal wallwashers

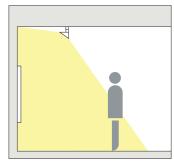
A diffuser and a wallwasher reflector distribute the light of Tesis on a facade in a way that produces a visible focal emphasis at approx. 1/3 of the height. The lens below the safety glass produces a wide beam and distributes the luminous flux uniformly on the cover glass. This means that the luminaire is visible even when viewed from shallow angles.





Wallwashers

Wallwashers in the Optec range are track mounted and provide an ideal, uniform illuminance distribution from ceiling to floor. The area in front of the wall is also illuminated. The range comprises various types of luminaires for almost all lamps.



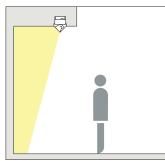






Wallwashers

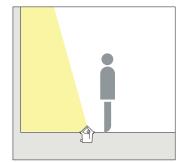
With Paratec wallwashers, part of the luminaire projects from the ceiling. The beam intersects with the wall directly in the upper corner, while the illuminated surface remains practically invisible to the viewer. A special wallwasher reflector provides the highest level of uniformity. These wallwashers combine a high degree of visual comfort with maximum efficiency.





Wallwashers

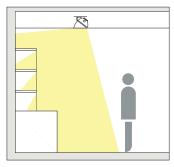
With Tesis wallwashers, part of the luminaire is above the mounting plane. Thus, the luminaire cannot be walked on or rolled over by vehicles. The beam intersects with the wall directly above the mounting plane. The illuminated surface remains practically invisible to the viewer. A special wallwasher reflector and a Softec lens provide the highest level of uniformity.





Wallwashers

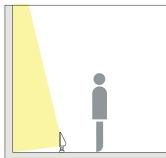
Lightcast wallwashers for compact fluorescent lamps are available especially for wall and shelving illumination in salesrooms. On these wallwashers, the peak intensity is emitted at approx. 30° and produces the vertical illuminances important for the required spatial effect.







Wallwashers
Parscoop wallwashers and floodlights are provided with asymmetrical beam reflectors. These reflectors
are designed so that the light distribution is ideal for uniform facade
lighting. Powercast floodlights with Spherolit reflector, washlight, must be tilted for optimum brightness distribution.

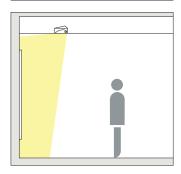








WallwashersThe special reflector technology of TFL wallwashers for fluorescent lamps provides a uniform and even wall illu-mination, especially in museums. TFL wallwashers can also be mounted as a continuous arrangement.



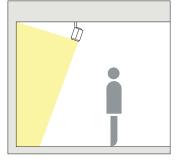


The uniform light distribution from ceiling to floor highlights the wall as a whole and makes the room appear more spacious.



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Spherolit wallwashers
These wallwashers use Spherolit reflectors, wallwash. In these reflectors, the individual spherolites are arranged so as to produce an asymmetrical light distribution. As opposed to lens wallwashers, Spherolit wallwashers can also be positioned in high rooms or closer to the wall. With a focal emphasis on the upper half of the wall, they are ideal for the illumination of vertical surfaces in shops.



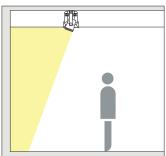






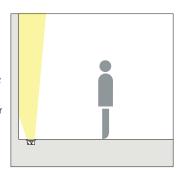


With the Spherolit technology for wallwashing, the spherolites are designed so as to produce an asym-metric light intensity distribution for wallwashing with a focal emphasis on the upper area of the wall. The lighthead of the recessed Logotec spotlight can protrude out of the recessed housing in several positions. Each position results in a dif-ferent range of tilt. The 20° position is ideal for the recessed Spherolit wallwasher.





Grazing light wallwashers
These types of luminaire produce
grazing light and can be positioned at
close distance to the wall. Sculpture
lenses spread the width of the beam
along one plane, while maintaining a
narrow beam light distribution on the other. In the round and square Nadir recessed floor luminaires, the lamps can be tilted and rotated by $+/-5^{\circ}$ for adjustment.

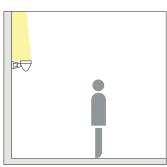






Facade luminaires

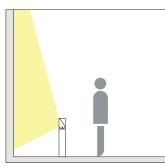
Focalflood facade luminaires are available for high-performance LEDs. The luminaire's lens system has been optimised so that a narrow beam light distribution gives an efficient grazing light on the wall surface. In the other direction, a wide light distribution is produced.





Facade floodlights

Facade floodlights are fitted with asymmetrical reflector-lens systems. They are effectively free of spill light. The light distributions are designed for even wall illumination or surfaces without perceptible edges to the beam.





Lighting control

Lighting control systems link both indoor and outdoor luminaires into intelligent networks. By integrating the lighting hardware and software, they become a significant contributor to efficient visual comfort. Light scenes that suit individual situations, together with automation and sensor technology result in huge potential for increasing the energy efficiency. At the same time, they expand creative freedom in lighting design: scenographic lighting with coloured and dynamic components is made simple, user-friendly and economical. No matter whether for a single room or an entire building – the ERCO product range offers the optimum solutions for lighting control projects of all sizes.

Showroom hairstylist Aldo Coppola, Milan. Architect: Manuela Kovacs, Milan.









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Castillo de Manzanares el Real. Architect: Gines Sanchez Hevia, Madrid.

Lighting control



St. Peter's Church, Stavanger. Architect: Conrad Fredrik von der Lippe (1833–1901); Helge Schjelderup, Stavanger (restoration). Lighting design: Erik Selmer (ELDA), Trondheim.





Museo Superior de Bellas Artes Palacio Ferreyra, Córdoba. Architect: GGMPU Arquitectos, Córdoba. Lighting design: Maestre Iluminación, Córdoba.

Guillaume at Bennelong restaurant, Sydney Opera House, Sydney. Architect: Dale Jones-Evans. Lighting design: Barry Webb Design Pty Ltd., Barry Webb, Matt Tindale.

Lighting controls



Lighting control systems from ERCO are professional control systems for lighting management and scenic dimming. By using such systems, the architecture can be repeatedly reinterpreted along functional, aesthetic and dramaturgical lines. Intelligent lighting management increases the comfort of the building and saves energy. It is equally possible to control light scenes via timer functions as it is to program cyclical sequences. ERCO lighting control systems are particularly suitable for controlling complex, atmospheric scenic lighting installations in architectural settings, e.g. in hotel foyers, lobbies, shops, restaurants, bars or conference rooms. Lighting control systems allow dynamic and user-friendly control of lighting tools with colour mixing function such as ERCO Varychrome luminaires.

Light System DALI



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Light System DALI



The ERCO Light System DALI brings an innovative approach to lighting control: intelligently applied DALI (Digital Addressable Lighting Interface) technology for individually addressable luminaires, combined with the ERCO Light Studio software, form an integrated system for efficient visual comfort and scenographic light. Together with the comprehensive range of DALI-compatible ERCO luminaires for the indoor and outdoor area and the ERCO DALI track, this opens up great potential for increased efficiency, e.g. through control of light scenes to suit the situation and automated light management using sensor systems and timer programs. Even scenographic lighting effects such as coloured light, dynamic progressions, and light sequences can thus be used in architecture more simply and economically than ever before. New standards in terms of ease

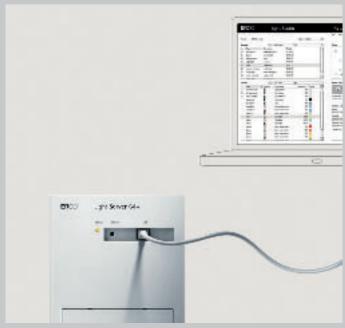
New standards in terms of ease of operation, range of functions and creative control are set by the consistent integration of software and hardware. For example, colour selection for DALI-compatible varychrome luminaires in the ERCO Light Studio are determined clearly and interactively at the click of a mouse. The bus technology and the switch and dimming functions integrated into the control gear make a permanent wiring of individual circuits and the installation of vast dimmer banks in switch cabinets unnecessary. Once a system

is activated, the DALI-compatible ERCO luminaires - known as Light Clients - are automatically recognised by the Light Server due to the factory-set coding of the luminaire's DALI control gear and clearly displayed in the software. DALIcompatible luminaires of other manufacturers can also be integrated into Light System DALI and be controlled just as easily as ERCO Light Clients. A Light Server 64+ for up to 64 DALI addresses enables the Light System to handle many typical lighting control applications, as in multifunctional rooms, shops and shop windows, restaurants, lobbies or company showrooms. Larger installations with over

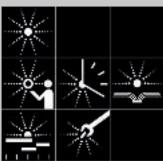
64 addresses can be created by networking up to twelve Light Servers 64+ via the integrated Ethernet interfaces. This makes it possible to manage up to 768 DALI addresses. In order to identify luminaires in complex rooms with limited visual contact, each Light Client has an electronic luminaire ID stored in the control gear and recorded on a sticker, which is placed in a lighting plan on site. The electronic luminaire ID is automatically recognised by the lighting control software. DALI Light System consists of the hardware components Light Server 64+ and Light Changer+ and the software Light Studio. The Light Server 64+ is a DALI controller that stores system and scene data and provides the control functions. Day-to-day operation takes place

via the wall-mounted ERCO Light Changer+ control panel, via pushbuttons or via remote control. To set up light scenes and for more complex operations, designers or users can use the ERCO Light Studio software on a PC connected to the Light Server 64+ or the Light Changer+ via Ethernet. The Light Server 64+ uses the DALI protocol to communicate with the Light Clients, i.e. the connected DALIcompatible luminaires, via a two-core control line. With DALI track accessories, the well-established and reliable ERCO track is ideal for the operation of DALI-compatible ERCO spotlights via Light System DALI. Analogue and digital motion sensors or daylight sensors can be integrated into the system via the inputs on the Light Server 64+. The standardised Ethernet connection allows easy connection of Light System DALI to media controls.

Light System DALI



Software



The Light Studio software is used to set up lighting installations with Light System DALI and to make its complex functions available in a user-friendly format. It consists of five modules: Light Master, Light Book, Light Timer, Light Sequencer and Light Keeper. Light scenes, which may contain coloured effects and dynamic progressions, are created, designed and edited in the Light Master module. The Light Book is used to organise and spatially structure lighting installations. For multifunctional rooms with moveable walls, it is possible to program push-buttons, switches and Light Changers with different functions. The selection of scenes can be automatically timecontrolled with the Light Timer. A sequence of light scenes can be stored in the Light Sequencer. The Light Keeper helps with maintenance, save energy and reduce operating costs. The software also provides functions for constant

light regulation and blind control. An interface for the configuration of Emanon Goborotators or luminaires in 4-channel varychrome technology is integrated in the Light Master. The project data can be printed out for documentation. The software is suitable for the following operating systems: Windows 2000, XP and Vista.

Output devices



The Light Server 64+ controls the ERCO Light Clients. These can be DALI-compatible luminaires and/or DALI-compatible ECGs, dimmers, switching actuators or transformers. The data for the luminaires, light scenes, timer programs and the room management is stored in the Light Server 64+. For configuration with the Light Studio software, the integrated USB interface can be used for connection of a PC or, alternatively, connection can be established by cable or wirelessly via Ethernet and hub. Every single Light Server 64+ can address up to 64 DALI participants. It has an interface enabling it to be networked with additional Light Server 64+ devices. A total of up to 768 DALI addresses can be managed via the integral Ethernet interfaces. A total of 12 inputs - six of them can be used exclusively as digital/switch inputs, the other six optionally as digital/switch inputs or as analogue inputs - can be

used for individual configuration of push-buttons, switches, motion sensors or twilight switches. Ethernet may be used to connect to media technology or link a PC with Light Studio. In the Light Server 64+ with Light Changer+ PC software, the Light System DALI can be operated using the Light Changer+ interface.

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Input devices



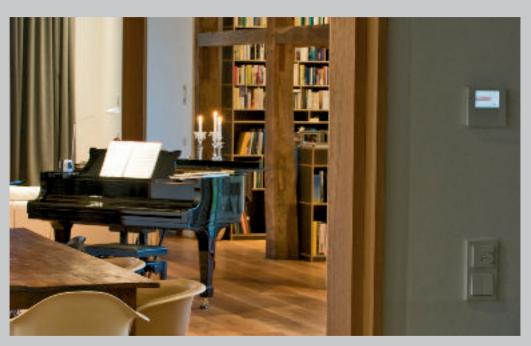
Stored light scenes and timer programs can be recalled by the Light Server via the Light Changer+. The Light Changer+ has a user-friendly touch screen for menu navigation. An ON/OFF push-button is provided to switch all Clients on or off. The cover frame is made of aluminium and can be mounted in the wall or dry-wall partition using the recessed housing. The Light Changer+ has an Ethernet interface for connection to the

Light System network. Alternatively, battery-less remote controls or wall transmitters and a radio control receiver are available for the recall of light scenes.

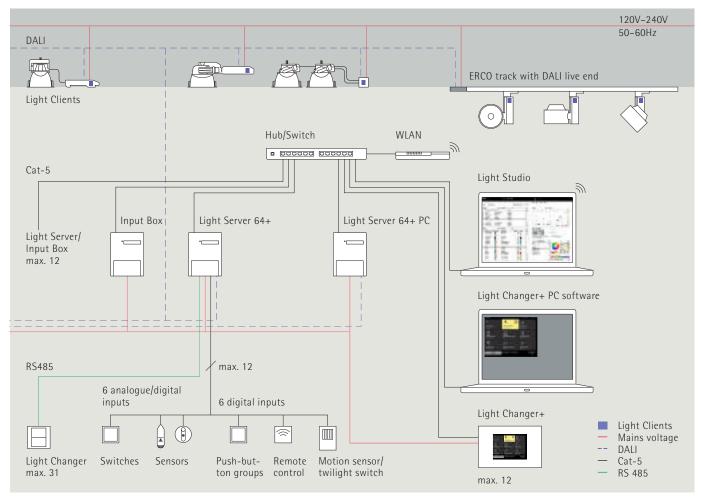
Accessories



The DALI switching actuator, DALI dimmer or DALI transformer allows luminaires, for example those without DALI control gear, to be integrated into the Light System DALI. The outdoor sensor allows scenes to be automatically recalled dependent on the daylight. The indoor sensor is used for automatic constant light regulation, e.g. at workplaces. The input box provides additional digital/switch inputs for the Light System DALI.



Estate in the Münsterland region. Architect: Andreas Heupel, Münster.



System overview

The diagram shows how the components of the Light System DALI can be combined not only with ERCO Light Clients but also with conventional ERCO luminaires, with DALI-compatible luminaires of other manufactures and with peripheral devices such as pushbuttons or sensors. Compared with other lighting control technologies, installation is much simpler. Switching and dimming functions in DALI technology are integral to the luminaire, i.e. in the control gear, with the 2-core control line connecting all participating devices in any topology. The power supply to the luminaires is independent, unchanged and separate to the DALI wiring



The DALI plug and play symbol in the ERCO Program identifies all the Light Clients, i.e. all the DALI-compatible, factory encoded luminaires and control gear.



DALI plug and play

Every Light Client, i.e. every DALI-compatible ERCO luminaire, is supplied by the factory with a unique digital code preprogrammed in its DALI control gear. This luminaire ID contains the product and serial number and is key to the exceptional userfriendly functions available when commissioning, programming and operating Light System DALI. The Light Studio software identifies the type of luminaire as well as other relevant information and functions. Uncoded DALI luminaires from other manufacturers can, of course, also be integrated into Light System DALI and displayed by Light Studio. After manually assigning their attributes, they function in the same way as Light Clients.



Plug and play: Light Clients

The factory encoding in DALI control gear enables the fully automatic recognition and display of ERCO Light Clients. The selection of Light Clients currently available covers wide areas of the ERCO product range - from switchable or dimmable spotlights and downlights to specialised lighting tools such as Goborotators or luminaires with 4-channel varychrome based on RGBW colour mixing technology. With recessed luminaires, a Light Client consists of the luminaire itself plus a correspondingly encoded, separate DALI control gear as a complete package with one article number.



Plug and play: luminaire ID Provided they can be seen, the mounting locations of Light Clients are identified simply by using the "flash" facility in the Light Studio software. However, this is not always the case in large Light System DALI installations. For this reason, every Light Client is now supplied with a separate sticker stating the unique luminaire ID. The luminaire ID allows each Light Client to be individually identified both during commissioning as well as in the lighting control software. The sticker is to be used by the installer in the appropriate position on the drawing of the reflected ceiling plan to show each

Light Client's mounting position.

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ERCO Light Studio
The Light Studio software
is used to set up lighting

installations with Light System DALI and to make its complex functions available in a user-friendly format. It consists of five modules: Light Master, Light Book, Light Timer, Light Sequencer and Light Keeper. The software is suitable for the following operating systems: Windows 2000, XP and Vista.

Light Master

library and a progression library

cially for controlling varychrome

or dynamic progressions espe-

The Light Master module is used primarily to create and manage light scenes. The Light Clients of a lighting system are displayed both graphically and as a list. Their attributes, such as dimmer settings or colour locations, can be set interactively, and there are user-friendly tools such as the colour wheel, a colour



Light BookThe Light Book is used to organise and struc-

ture Light Studio projects. Its main function is to create zones and assign Light Clients or Light Changers to zones. It also defines generic Light Clients for luminaires from other manufacturers or custom-built ERCO luminaires and stores the relevant information in the DALI control gear of the Light Clients.



Light Timer

The Timer module allows light scenes to be recalled

at predefined times. The time and calendar functions provide great flexibility for the automation of scenographic lighting, e.g. to set the light scenes to shop opening times or licensing hours, or to reduce the light levels during the night



Light Sequencer

The Light Sequencer is a tool designed specifically

to define and store sequences of light scenes as timed progressions. Compared with the dynamic progression in the Light Master, the Light Sequencer can be used to create a sequence of scenes without specifying a definite starting time. This facility can then be used for a variety of events having different starting times. The actions and fading times for each scene transition can be set individually.



luminaires.

Light Keeper
The functions in
the new Light
Keeper module
support the
operator of a
Light System

DALI installation in maintenance work and help to save energy and reduce running costs. The running time of each Light Clients is displayed in the Client List against the rated lamp life. This makes it easier to plan rational, advance lamp replacement as preventative maintenance. The error messages in the DALI network, such as a faulty lamp, are logged and displayed. The energy-saving func-

tions are based on projections and on the envisaged connected load of the light scenes.



Efficient visual comfort through intelligent lighting control

The use of lighting control systems for higher light quality and reduced consumption of resources is an important part of the ERCO concept of "Efficient visual comfort". The special functions in the Light Keeper module make it even easier for the user to realise the full potential of intelligent lighting control. For example, the connected load of a light scene can be calculated and displayed, while the software calculates the potential savings in energy and costs if the scene is modified. The "ECOmode" function enables each light scene to be dimmed, at the touch of a button, by a pre-defined per-

centage until the point where the visual impression and visual performance would become noticeably impaired. This function allows the user to reduce energy consumption quickly and easily.





Light Changer+

As a wall-mounted input device for Light System DALI complete with a large colour touch screen and a graphic user interface, the Light Changer+ is extremely user-friendly and offers an extensive range of functions. It is connected to Light System DALI via an Ethernet interface. In addition to the intuitive selection of scenes and sequences, the Light Changer+ also allows for master dimming within the current zone as well as the independent operation of individual Light Clients. The menu level for system settings is protected against unauthorised access by a PIN code.



Master dimming

The master dimming function enables the overall brightness of the selected light scene in the current zone to be regulated. Non-dimmable Light Clients are switched according to previously defined criteria either immediately, not at all or upon reaching a pre-determined dimmer setting.





Client level: colour selection

The Light Server+ also makes the relevant control panels available for the particular attributes of the individual Light Clients. For instance, a colour wheel is available for simplified setting of vary-chrome Light Clients.



Main menu

The main menu gives the user access to the various functions of Light System DALI. In addition to the scene selection, which appears as standard on the touch screen, it is also possible to select sequences as well as blinds and individual luminaires.



displayed with

pictograms from

ERCO's pictogram system available to allocate to the scenes.



System menu

The system menu is protected against unauthorised access by a prompt requesting a PIN number. In this menu, the Light Changer+ displays extensive information on the Light System DALI installation, light scenes can also be modified and saved without requiring a PC with Light Studio software.



Light Changer+ PC software The Light Changer+ PC

Changer+ PC software provides the user interface of a Light Changer+ to operate Light Studio DALI on a PC.



Light Server 64+

The Light Server 64+ is a DALI controller that stores system and scene data, and provides the control functions through the integral ERCO Light Studio software. The compact design gives it great flexibility, which is important when choosing a mounting location. The DALI system can be configured by connecting a PC via USB or Ethernet. The Ethernet interface is also used to network several Light Servers or Light Servers and Input Boxes.





The highly intelligent lighting control systems in the most confined space: a Light System DALI installation

with Light Server 64+ network

Light Server 64+ PC

Wherever a PC is permanently available, whether at workstations, checkouts or reception desks, it can be used with the Light Changer+ PC software to operate Light System DALI. This only requires an Ethernet connection between the Light System DALI and the PC. The software in the Light System DALI network can only run in conjunction with the special Light Server 64+ PC. In appearance, operation and functional scope the Light Changer+ PC software is identical to the interface of the Light Changer+.





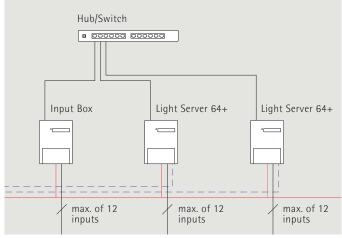
The Light Changer+ PC software can, for instance, be used on a check-

out PC to operate Light System DALI.

Input Box

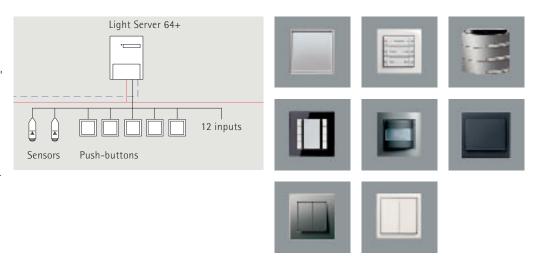
If additional inputs are required for a Light System DALI installation, above and beyond the 12 digital/ switch inputs of the Light Server 64+, the number of inputs can be doubled using the Input Box. Like a Light Server, the Input Box also offers 12 digital/switch inputs, six of which can be configured as analogue inputs. The Input Box and Light Server are connected via the Ethernet. This means that the Input Box can also be used for the decentralised inclusion of switches, push-buttons or sensors. In contrast to the Light Server, the Input Box does not have a DALI output. The total number of Light Servers and Input Boxes in a Light System DALI network is limited





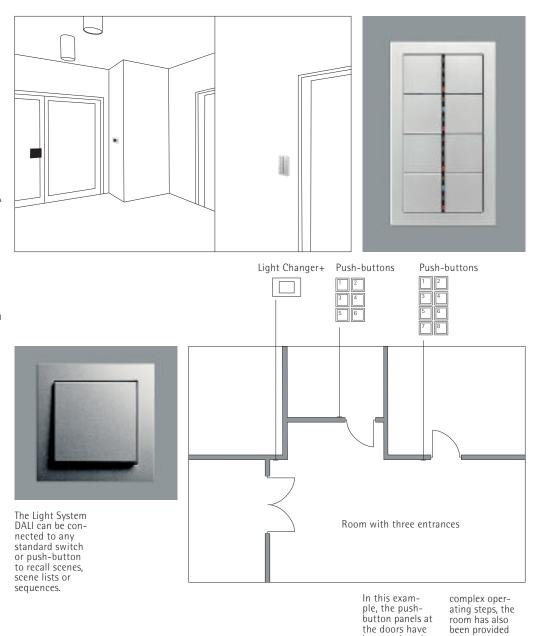
Like the Light Server 64+, the Input Box also features an Ethernet interface.

Digital and analogue inputs The current generation of ERCO Light Servers has a total of 12 inputs - six of them can be used exclusively as digital/switch inputs, the other six optionally as digital/switch inputs or as analogue inputs. This extends the range of scenarios through which Light System DALI can be controlled not only with conventional switches and push-buttons but also with analogue and digital sensors. If a Light Server's 12 inputs are insuffi-cient, the number of inputs can be increased by using the Input Box.



Digital/switch inputs

Up to 12 digital/switch inputs can be assigned different functions, such as the recall of a specific light scene or sequence, a list of light scenes running as a progression on repeated operation, but also master dimming up and down. Each input can be assigned to one or more push-buttons in parallel. The model and the functions to be triggered are specified in the Light Book module of the Light Studio software or, alternatively to the scene selection, via the user-friendly Light Changer. A wide range of other scenarios can be controlled through the Light System DALI. In a room with more than one entrance, for example, each door can have a standard push-button panel recalling the same predefined light scenes. It is possible to continue using the existing switch and push-button installations, while a rocker switch can control the master dimming function. Other applications for digital/switch inputs include the connection of different digital sensors such as motion sensors or twilight switches.



room has also been provided

with a Light

41

Changer+.

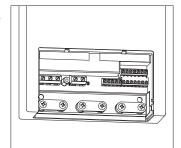
been assigned

predefined light

scenes. For more

Analogue inputs

To connect analogue sensors, six of the twelve digital/switch inputs of the Light Server 64+ can be used as analogue inputs, if required. This facility allows for there to be many ways of automatically controlling and regulating light scenes – especially of value for reduced energy consumption.



Up to six mutually independent analogue devices can be connected to the Light Server 64+. Active or passive analogue devices can be connected.

Daylight-dependent control

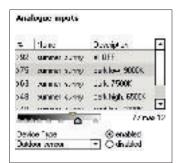
A typical application for the analogue inputs is daylight-dependent lighting control – an outdoor sensor generating an analogue signal responding to the daylight conditions. The sensor can be set up with 12 switching thresholds in Light Studio. Depending on the analogue value measured, the sensor triggers the appropriate scene or sequence when a threshold value is exceeded.



Outdoor sensor



One application for outdoor sensors: daylightdependent control of facade lighting.



Constant light regulation

A further application of analogue inputs is constant light regulation. Here, an indoor sensor measures the illuminance at a pre-defined point in the room. By master dimming the relevant zone, it is held constant despite fluctuating daylight. This allows optimum usage of natural light and greatly reduces the energy used by artificial lighting. The target illuminance is set individually for each light scene in the Light Studio software.



Indoor sensor



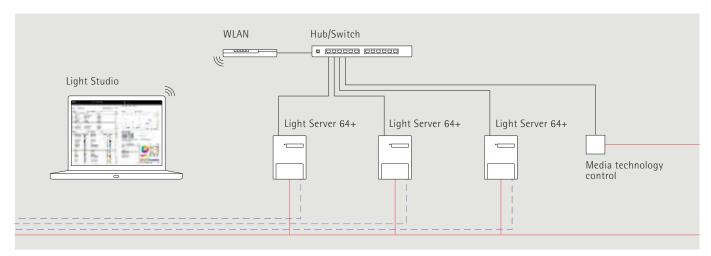
Sensor technology and energy saving regulations

In many parts of the world legislation is being introduced relating to energy saving in buildings. Germany, for instance, has the "EnEV 2009". Provisions already frequently include the use of presence detectors and constant light control with defined reference values. In practice, this requires the installation to include an appropriate lighting control system.

Efficient visual comfort through intelligent lighting control is therefore an obligatory part of the lighting design.

Using daylight, saving energy and power: with the constant light regulation of Light System DALI.



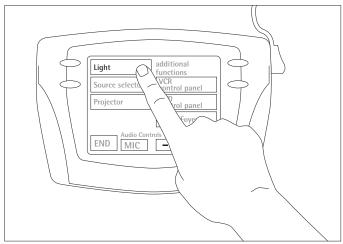


Connection of Light System DALI and PC via network

In addition to USB cables, the PC with the Light Studio software can now also be connected to the Light Server 64+ via Ethernet – either directly by cable with a single Light Server 64+, or via a hub or switch. The PC and hub can also be connected by cable or wirelessly (WLAN). This option provides the flexibility needed, for example, to set up systems that include more than one room: on the wireless notebook PC, the scenes can thus be programmed wherever they are.

Connection of media technology

Ethernet may also be used to connect the Light System DALI with standard controls for media technology. Many functions of Light System DALI can be controlled using a documented programming interface. Media controls from the manufacturer AMX are already compatible with Light Studio.



AMX, a leading manufacturer of media controls, has prepared its products for integration into ERCO's Light System DALI and provides appropriate information.



Light System LON interface

To network Light System DALI together with building management systems based on the LON bus system, the iLON Smart Server gateway made by Echelon can be used in conjunction with an ERCO-specific software for the LON administrator. The gateway is connected to the Light System DALI via the Ethernet. This makes network functions available to the LON, such as the selection of scenes or sequences and the dimming and switching of groups in the Light System DALI.



Software module for blinds and screens

Equipment such as blinds or screens can now both be conveniently and logically controlled from Light System DALI and be integrated in light scenes. Light Studio now features a special software function for blind and screen control, which can be assigned as an attribute to a DALI switching actuator. To control the blinds and screens, a contact locking mechanism for the switching actuator must be provided on site.



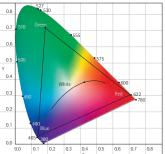


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Attributes 4-channel varychrome

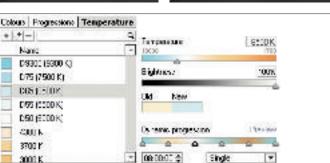
In the Quintessence downlight product range, ERCO presents luminaires with LEDs and now also 4-channel varychrome technology. By combining RGBW colour mixing with white LEDs, these luminaires can optionally produce either white light with variable colour temperature at high luminous flux and good colour rendition or coloured light ranging from differentiated pastel hues to highly saturated colours. Light Studio has a corresponding attribute for controlling these luminaires. This consists either of a colour circle (which will be familiar to users of previous varychrome luminaires) or a slider control to regulate the colour of white along the Planckian locus from cool to warm. The 4-channel varychrome control gear units only require one DALI address despite having four control channels.









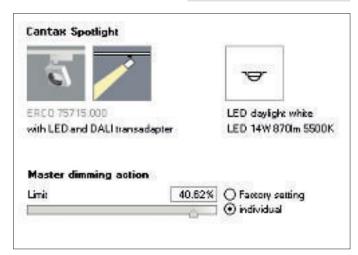


Light Clients with the 4-channel varychrome attribute, such as those from the Quintessence LED downlight product range, allow the colour temperature to be continuously adjusted over a wide range.

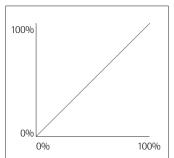


Master dimming action

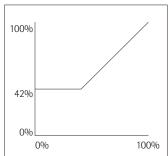
The master dimming function is used to raise or lower the brightness of a zone using push-buttons or the Light Changer+. To deal with special lighting tasks and accommodate differences in the dimming function of the lamps, the master dimming action of each Light Client can now be individually controlled. The Light Book module of the Light Studio software provides the relevant tool. Dimmable Light Clients with LEDs, low-voltage halogen lamps or fluorescent lamps, for example, provide a choice of linear function and operation that prevents the Light Client from falling below a pre-defined limit or switches it off. Switchable Light Clients (DALI switching actuators, HIT luminaires) can be allocated individual switching thresholds.



As an additional feature, each Light Client can, depending on its dimming characteristic, be defined individually in relation to the master dimmer.



During master dimming, a dimmable Light Client normally follows a linear dimming curve.



Dimmable Light Clients can nevertheless also have limits beneath which they should not function when

master dimming

is used.

As a default, the threshold level for switchable DALI Light Clients ranges between 0 and 1%. However, depending

100%

0% 0% 25% 100%

on the light scene requirements, this threshold can be individually set.

Emanon Goborotator

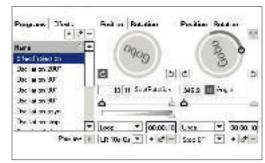
Through the use of independently controllable rotating gobos or fresnel lenses, the projection effects created can be fascinating. The character of these projections can range from slow moving, subtly atmospheric effects to stimulating, highly dynamic focal points. Controlling the direction and speed of rotation is particularly user-friendly with the Light System DALI and its integrated Light Studio software, which provides a tool especially for the operation of the Goborotator.







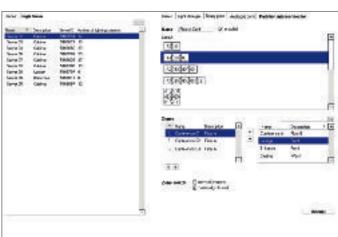
The Light Studio software includes a tool to control all the Goborotator functions via Light System DALI.

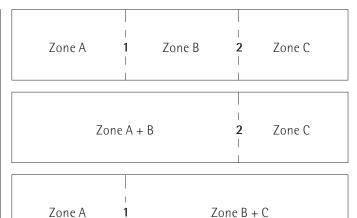


Partition interconnector

Scenic light has become indispensable particularly in multifunctional rooms such as conference rooms and banquet halls. Only a few lighting control systems are suited to rooms which have movable partition walls, in a truly intelligent and user-friendly way: the current generation of the Light Server 64+ and the Light Studio software provide just such a practical solution. The contact switches of up to 4 partition walls in the system signal their states via the digital/switch inputs on the Light Server. The control gear then responds as if it were operated through push-buttons or Light Changers+ in the appropriate area of the room according to instructions previously stored in the Light Studio software to control the combined rooms as zones.





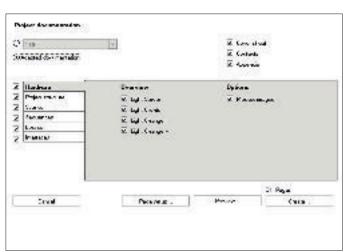


45

As a graphic tool in the Light Book module of the Light Studio software, the layout list serves to facilitate light settings for rooms with movable partition walls.

In Light Studio, attributes and scene lists for potential room configurations are shown as zones and are controlled automatically depending on the status of the partition walls.

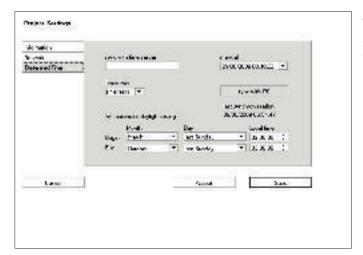
Documenting projectsTo document lighting control projects using Light System DALI, the Light Studio software now makes use of a dialogue which provides a range of adaptability options. The resulting page number of the documentation is automatically identified and displayed. The project documentation can then be printed or, depending on the PC configuration, it can be produced in a digital format (e.g. XPS, .PDF).



The system documentation can be on paper or digital.

Setting the time

For successful operation when using the timer functions of the Light Studio software, it is essential that the system time and date of the Light System DALI are set correctly. The Light Studio has several new functions for this purpose. Thus, for instance, an automatic changeover from winter time to summer time can now be set. Within a Light System DALI installation, the system time can be synchronised from a Light Server or it can even be automatically synchronised with a network clock (Time Server, SNTP) connected via the Ethernet.

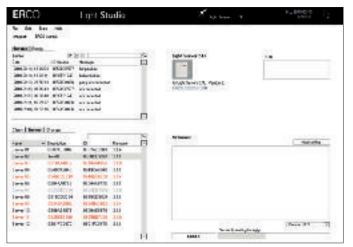


As an option, Light System DĂLI can also take its system time from the network clock.

Firmware update via the network

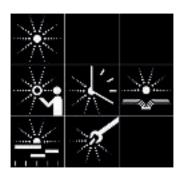
The Light System DALI components Light Server 64+ and Light Changer+ feature extensive, embedded software, known as firmware. To optimise the operating behaviour of these components or to add new functions, new versions of this firmware can be loaded onto the components as required. This is done conveniently and safely from the Light Studio PC software. Suitable, new firmware versions can be downloaded from the Download section of the ERCO Light Scout website:

www.erco.com/download



Firmware updates of Light System DALI components are easy to perform using the Light Studio PC software and the Ethernet.

Software



06652.000 Light Studio for Light System DALI Software for configuring the ERCO Light System DALI.

Light Studio software for PCs with Windows 2000, XP, Vista, for configuration of the ERCO Light System DALI. For designing 1024 light scenes, 64 colour progressions and 1024 timer events. Operation in 6 languages: German, English, French, Italian, Spanish and Dutch

The Light Master, Light Book, Light Timer and Light Sequencer modules help in designing the light scenes and sequences, in the organisation and spatial structuring, and in the recalling of scenes at predefined times. All the necessary data is created, configured and permanently saved us-ing the Windows compatible ERCO Light Studio software (supplied). The Light Master, Light Book, Light Timer, Light Sequencer and Light Keeper mod-ules help in designing the light scenes and sequences, in the organisation and of scenes at predefined times.

- Plug and play: automatic recognition of ERCO Light Clients and automatic

- assignment of RGB colour channels.
- Easy-to-survey display of Light Cli-
- Display of product information.The Light Client symbols can be placed

anywhere on the stage to act as a visual reference.

- Extremely simple colour adjustment through several options including a colour wheel.
- Connection of the PC with ERCO Light Studio to the hub via Ethernet, to use existing network technologies, e.g. WLAN.
- Interface to media technology via Ethernet with Telnet or UDP protocols and for iLON Smart servers for the connection of LON devices to Light System DALI.
- Partition interconnector used to
- connect up to five rooms.

 Intuitive programming of Emanon projector spotlights with Goborotator.
- Individually adjustable minimum settings for master dimming function.

 - Light Keeper (available from 2nd
- quarter 2010) for display of the current energy consumption and recommendation of optimised use, display of oper-ating hours, finding and documenting faulty lamps and control gear.
- Control of 4-channel varychrome lu-

- minaires using a DALI address (available from 3rd quarter 2010)
- Software update function with Light Studio via the network. Function for illuminance stabilisation
- using an indoor sensor.
- Software module for blind control (available from 2nd quarter 2010). Switching actuator and contact lock to
- Switching actuator and contact lock to be ordered separately.

 Synchronisation of the clocks of all Light Servers 64+ connected in a Light System DALI network through an external time server.
- Project documentation as printed hard copy or as PDF via virtual printer.

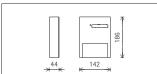
47

Dreipunkt furniture showroom at the Stilwerk mall, Stuttgart. Architect: Bernd Schellenberg (DREIPUNKT International). Lighting design: Stephan Haubner, Wesenlicht, Stuttgart.



Output devices





06660.000

Light Server 64+ for Light System DALI.

Controller to drive up to 64 Light Cli-

Creation of larger Light System DALI installations by networking up to 12 Light Server 64+ devices.

Configuration using the ERCO Light Studio software. Weight 0.51kg

DALI controller for easy connection of up to 64 Light Clients via plug and play with DALI interface.

The networking of a number of Light Servers is carried out using Ethernet, RJ45 connector, Cat5 cabling. Connection of up to 31 Light Changers for recalling light scenes, sequences timer programs and single-circuit oper-

When connecting more than four Light Changers, an additional 24V DC power supply (SELV) is required, e.g. ERCO

Connection of 12 Light Changers+ max. in a Light System DALI network.
The PC with the ERCO Light Studio software is connected to the hub via USB or Ethernet, for using existing network technologies, e.g. WLAN. One USB Amini B cable is included in the package contents.

12 digital/switch inputs, 6 of which also for analogue sensors. Individually configurable functions for up to 12 push-buttons or switches, motion sensors or twilight sensors as well as external sensors to recall scenes, sequences or special functions such as master dimming or staircase lighting (all switches, sensors, etc., to be ordered separately).

All the necessary data is created, configured and permanently saved via the ERCO Light Studio Wnidows soft-ware. The Light Master, Light Book, Light Timer, Light Sequencer and Light Keeper modules help in designing the light scenes and sequences, in the organisation and spatial structur-ing, and in the recalling pf scenes at predefined times.

- Plug and Play: Automatic recognition of ERCO Light Clients and automatic assignment of RGB colour channels.

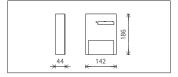
Easy-to-survey display of Light Cli-

Display of product information.
 Symbols of Light Clients can be placed anywhere on the stage as visual orienta-

- Extremely simple colour adjustment through several options including a colour wheel.

- Interface to media technology via Eth-

Controller as article 1006660, Light Server 64+, version 5, but with additional function for the operation of the PC software Light Changer+. The PC software Light Changer+ supplied may be used any number of times within a Light System DALI network.



06670.000

Studio software. Weight 0.51kg

ernet with Telnet or UDP protocols and for iLON Smart server for the connection of LON equipment to Light System DALL

- Partition interconnector used to connect up to five rooms.

- Intuitive programming of Emanon projector spotlights with Goborotators. - Individually adjustable minimum val-

ues for the master dimming function.

- Light Keeper (available from 2nd quarter 2010) for display of the current energy consumption and recommendation of optimised use, display of operating hours, finding and documenting

- Control of 4-channel varychrome luminaires using a DALI address (available from 3rd quarter 2010).

- Software update function with Light Studio via the network.

Function for illuminance stabilisation

using an indoor sensor.

- Software module for blind control (available from 2nd quarter 2010).

Switching actuator and contact lock to

be ordered separately.
- Synchronisation of the clocks of all Light Servers 64+ connected in a Light System DALI network through an external time server.

- Project documentation as printed hard copy or as PDF via virtual printer.

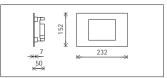
Light Server 64+ for Light Changer+ PC software for Light System DALI. Version

Controller to drive up to 64 Light Cli-

Creation of larger Light System DALI installations by networking up to 12 Light Server 64+ devices. Configuration using the ERCO Light

Manual input devices





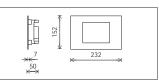
Graphic colour display, 5,7", with touch screen (640x480 Pixel), 24bit colour

For operating a zone in scene mode: recall of scenes, sequences or single-circuit operation, zone changing. For operating several zones in switch mode: ON/OFF scene, single-circuit operation.

06662.000 Silver

06662.000 Silver Light Changer + for Light System DALI Operating device with Ethernet interface. For recall of 1024 light scenes, 256 sequence and for single-circuit operation. For master dimming, switching the timer ON/OFF. For activating the ecomode. For modifying light scenes after entering PIN. Weight 0.78kg





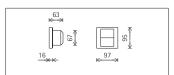
Graphic colour display, 5,7", with touch screen (640x480 Pixel), 24bit colour

recall of scenes, sequences or single-circuit operation, zone changing. For operating several zones in switch mode: ON/OFF scene, single-circuit operation.

06663.000 White

06663.000 White Light Changer + for Light System DALI Operating device with Ethernet interface. For recall of 1024 light scenes, 256 sequence and for single-circuit operation. For master dimming, switching the timer ON/OFF. For activating the ecomode For modificing light scenes ofter mode. For modifying light scenes after entering PIN. Weight 0.78kg





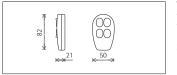
Graphic LC display with touch screen, sensor button ON/OFF. Cavity wall box, plastic.

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06651.000 White Light Changer for Light System DALI Control panel for recalling light scenes and timer programs, single-circuit operation, On/Off and master dimming functions. Weight 0.18kg

Manual input devices

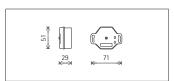




Transmitter for battery free remote control on the interference-free 868MHz frequency. Maintenance-free.
Range of 30m with 2 brick walls. Max. 30 transmitters on one receiver.

06658.0004-channel remote control for Light System DALI
Transmitter with 4 push-buttons for the recall of light scenes.
Weight 0.05kg

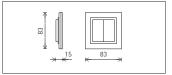




Receiver for remote control.





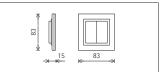


Transmitter for battery free remote control on the interference-free 868MHz frequency. Maintenance-free. Range of 30m with 2 brick walls. Max. 30 transmitters on one receiver. 2 rocker switches. Combi frame. Other combi frames to be ordered separately. www.peha.de.

06665.000 White 4-channel wall transmitter for Light System DALI Transmitter with 4 push-buttons for the recall of light scenes. Weight 0.06kg

Manual input devices

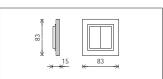




Transmitter for battery free remote control on the interference-free 868MHz frequency. Maintenance-free.
Range of 30m with 2 brick walls. Max. 30 transmitters on one receiver. 2 rocker switches. Combi frame. Other combi frames to be ordered separately. www.peha.de.

06667.000 Silver 4-channel wall transmitter for Light System DALI Transmitter with 4 push-buttons for the recall of light scenes. Weight 0.06kg

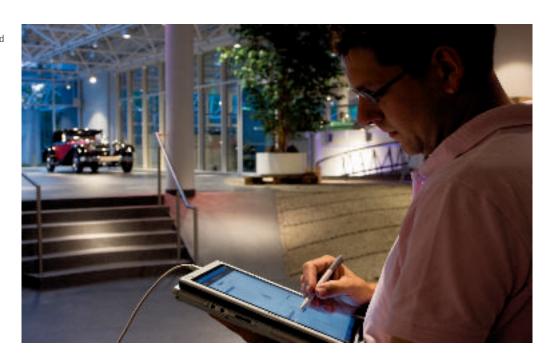




Transmitter for battery free remote control on the interference-free 868MHz frequency. Maintenance-free.
Range of 30m with 2 brick walls. Max. 30 transmitters on one receiver. 2 rocker switches. Combi frame. Other combi frames to be ordered separately. www.peha.de.

06666.000 Graphit 4-channel wall transmitter for Light System DALI Transmitter with 4 push-buttons for the recall of light scenes. Weight 0.06kg

Central-Garage car museum, Bad Homburg.



Electrical accessories





83694.000 DALI control gear Weight 0.56kg for LED 220-240V, 50-60Hz. 700mA, 17W. Max. ambient temperature of

Secondary voltage 2-25V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010





83695.000 DALI control gear Weight 0.65kg for LED 220-240V, 50-60Hz. 700mA, 25W. Max. ambient temperature of

Secondary voltage 3-30V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 3rd quarter 2010



83696.000

Control gear



Weight 0.52kg for LED 220-240V, 50-60Hz. 700mA, 36W, switchable. Max. ambient temper-

Secondary voltage 8-48V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010





83697.000 DALI control gear Weight 0.65kg for LED 220-240V, 50-60Hz. 700mA, 36W. Max. ambient temperature of

Secondary voltage 8-48V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 3rd quarter 2010

















83817.000

DALI transformer EN 61347 Weight 0.18kg 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 90mm



DALI dimmer 1000W Weight 0.18kg for ohmic loads, conventional and electronic transformers. Mounting on DIN rail.

83816,000

DALI switch actuator, double, 16A Weight 0.21kg Two voltage-free contacts for switching ohmic, inductive and capacitive loads

DALI interface with two independent addresses. Mounting on DIN rail.

83814.000

DALI analogue converter 230V \pm 10%,

Weight 0.22kg For connection of luminaires with ECG 1–10V to Light System DALI. Conversion of a DALI signal into a 1-10V signal. Internal relay for inductive loads of

max. 5A. Mounting on DIN rail.















06671.000

Input box for Light System DALI. Version

For implementing larger Light System DALI installations by networking up to 12 jointly controlled articles 06660, 06670 and 06671.

Weight 0.51kg
For expanding Light System DALI net-works by 12 digital/switch inputs, six of which also for analogue sensors. For connecting Light Changers and for up to 12 (to be ordered separately) push-buttons or switches, motion sensors or twilight switches, external sensors for recalling light scenes or in-ternal sensors for constant illuminance, sequences or special functions such as master dimming or staircase lighting

06668.000

Indoor sensor for Light System DALI Active sensor for automatically keeping the illuminance constant on work surfaces and illuminated objects in indoor areas Weight 0.03kg

06661.000

External sensor for Light System DALI Passive sensor to automatically recall scenes or sequences dependent on the brightness outdoors.

Weight 0.05kg

Mechanical accessories



06653.000 Plaster frame for Light System DALI Weight 0.22kg Plaster frame for the installation of Light Changers in cavity walls or for flush installation.



06657.000Housing for Light System DALI
Weight 0.19kg
Recessed housing for the installation of
Light Changer.





06664.000Recessed housing for Light System DALI Recessed housing for the installation of Light Changer+.

Museum Vitenfabrikken (Science Factory), Sandnes. Architect: Askim & Lantto AS, Oslo. Electrical engineering: Cowi AS, Stavanger.



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Light in the indoor area





Honda Car Showroom, Dubai. Architect: GHD, Dubai Office. Lighting design: Visual Terrain, Van Nuys, CA.

Hamburg Airport, food hall. Architect: Stephen Williams Architects, Hamburg. Lighting design: Prof. Peter Andres, Hamburg.

> Showroom hairstylist Aldo Coppola, Milan. Architect: Manuela Kovacs, Milan.

Luminaires designed to enhance architecture are more accurately described as lighting instruments. They result from intense contemplation of the issues which relate to lighting engineering. ERCO's range of indoor luminaires includes an extensive range of lighting tools: spotlights and wallwashers, track and light structures, recessed luminaires and task lights, ceiling washlights and floor washlights. They all share a common guiding design principle of efficient visual comfort.

BMW Welt, Munich. Architect: Coop Himmelb(I)au, Vienna. Lighting design: a-g Licht, Bonn.





Light in the indoor area



D&G shop window, Milan. Architect: Dordoni Archi-tetti, Milan.



Leonardo Glass Cube, Bad Driburg. Architect: 3deluxe, Wiesbaden. Lighting design: Atelier Schiefer, Leverkusen.



Museo Superior de Bellas Artes Palacio Ferreyra, Córdoba. Archi-tect: GGMPU Arquitectos, Córdoba. Lighting design: Maestre Iluminación, Córdoba.



Biblioteca Foral de Bizkaia, Bilbao. Architecture and lighting design: IMB Arquitectos, Bilbao.

Track and light structures



No invention since the incandescent lamp has created such a revolution in lighting design as the track. The track effectively liberates light and luminaires from the constraints of rigid mounting. It forms the basis for variable, flexible lighting design that can be adapted to the changing style and use of a space. A comprehensive range of accessories allows the track to be connected in a linear sequence, or for right-angle shapes to be constructed. Light structures combine the benefits of fixed and movable luminaires. They typically feature a modular design that enables the construction of countless structural variations – ranging from single-dimensional linear arrangements to two-dimensional networked grids – all using standardised basic and connector components. No invention since the incandescent





volution in lighting design as the track. The track effectively liberates light and luminaires from the constraints of rigid mounting and allows lighting designers additional freedom to meet any specific lighting requirement. Luminaires in different shapes and with different photometric characteristics can be installed on track, to suit the specific lighting requirements. If the room interior or function changes, the luminaires can easily be replaced or moved on the track. The classic ERCO track with a crosssection of 33.5 x 34mm is primarily designed for mounting on ceilings or walls, whereas the flanged track is designed for suspended ceilings or flush mounted using a plaster trim profile. Individual track lengths of up to 4 metres can be butted together or formed into rectangular shapes. Flexible connectors are available to create more

cent lamp has created such a re-

In the standard form, the ERCO track is operated in 3-circuit installations. When using the ERCO track in a DALI application, the same conductors are used but are connected differently: only one conductor carries the supply voltage, the other two conductors are used for the control signal. Spotlights fitted with DALI adapters are designed for mechanical and electrical as well as for bus connection. Special DALI accessories ensure that the track can

complex configurations.

be correctly and safely wired. This arrangement ensures the optimum logistics and availability of DALI track systems. It also means that existing track installations can be economically retrofitted with ERCO DALI technology.

EIB European Investment Bank, Luxembourg. Architect: Ingenhoven Architekten, Düsseldorf. Lighting design: Tropp Lighting Design, Weilheim.



The ERCO track is formed of extruded aluminium profile, with white or black powder-coating or silver anodised. A large number of connectors are available. Almost all connectors can be used for electrical power supply. When selecting connectors and live ends, the position of the earth conductor is critical. Earth conductors must be continuous throughout the planned layout. The profile has stamped knock-outs to mount the track to ceilings or walls. The track can also be suspended using pendant tubes or wire ropes.

Track



ERCO 3-circuit track is available in lengths up to 4m. When connected to a three-phase network, each of the three circuits can be loaded to a maximum of 16A. The circuits must be separately protected. In the DALI version, one conductor carries the phase and the two others are used for the information signal. All the connectors for 3-circuit installation or for DALI applications are available for making the electrical connection.

Application
For a flexible power supply to spotlights, floodlights and wallwashers and for accent lighting and wash-

lighting in all professional lighting situations.

Flanged track



ERCO 3-circuit track is available as flanged track in 3m lengths. The profile's flanged sides can be used as a surface on which to place ceiling panels. When connected to a three-phase network, each of the three circuits can be loaded to a maximum of 16A. The circuits must be separately protected. In the DALI version, one conductor carries the phase and the two others are used for the information signal. All the connectors for 3-circuit installation or for DALI applications are available for making the electrical connection.

Application

For a flexible no

For a flexible power supply to spotlights, floodlights and wallwashers and for accent lighting and washlighting in all professional lighting situations.

The earth conductor in ERCO track systems is set in the lower profile edge. When selecting live end, L- and T-connectors, it must be ensured that the continuous line is not interrupted. The position of the earth conductor is established by the orientation of the track system.

Definitions

Live end Earth conductor left: when looking up into the track towards the live end, the earth conductor is on the left. Earth conductor right: when looking up into the track towards the live end, the earth conductor is on the right.

T-connector

Earth conductor left: the earth conductor is on the left when looking across the T towards the leg. Earth conductor right: the earth conductor is on the right when look-ing across the T towards the leg. The earth conductor is always posi-tioned on the outside of the T-bar.



Live end Earth conductor Earth conductor right



L-connector Earth conductor inside



L-connector Earth conductor outside



T-connector Earth conductor



T-connector Earth conductor

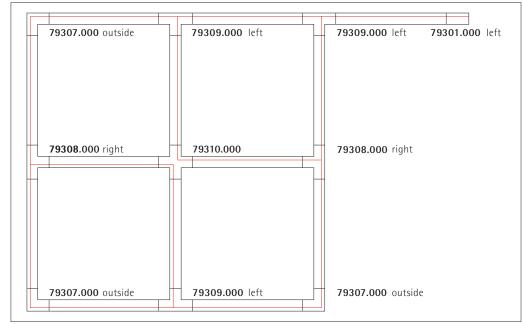


X-connector

To begin with, all track and connectors should be drawn without earth conductor.

Starting from a T-connector, the earth conductor should be drawn as a continuous line.

All connectors shown in this catalogue are marked according to the above definitions of earth conductor left and right.



Mechanical information

Horizontal ceiling mounting: All luminaires that are approved for the ERCO track system can be used.

Horizontal mounting on walls: ERCO 3-circuit adapter and DALI adapter: Only luminaires weighing up to a maximum of 2kg may be used

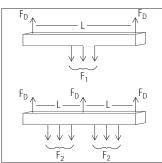
ERCO transadapter and DALI transadapter: Only luminaires weighing up to a maximum of 1kg may be used.

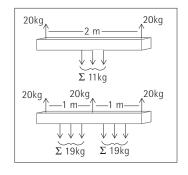
Vertical mounting on walls: The guide groove on the track profile must be facing to the right. ERCO 3-circuit adapter and DALI adapter: The luminaires must not weigh more than 3.5kg. ERCO transadapter and DALI transadapter: The luminaires must not weigh more than 1kg max.

Other mounting positions: If using luminaires mounted at an angle, please contact us for advice. Permissible loading is calculated from the max. permissible profile deflection and the max. permissible mechanical loading of the suspension devices. Load distribution takes both the weight of the system and the equally distributed point loads into consideration.

- (mm) length (mm) deflection due to weight (mm) of profile
- (kg) max. loading of suspen-
- sion device weight of the profile (ka
- F_1 (kg) maximum permissible load for two-point suspension and permissible deflection (L/250) of 4mm per metre
- F₂ (kg) maximum permissible load for series suspension and permissible deflection (L/250) of 4mm per metre length

	CO trac		2000	3000	4000
f.	(mm)	1.1 0.07	1.09	5.50	17.40
С	= 20	ka			
		ху 39	11	3	_
F ₂		19	11	3	
Γ2	(KY)	19	11	J	_





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ERCO track for 3-circuit instal-



ERCO track for DALI installation



same track profile is wired for either conventional 3-circuit, 1-circuit and for DALI installations. Whereas in conventional 3-circuit installations all conductors are connected to the network and are individually protected by 3x16A circuit breakers, in the DALI installation only one circuit (1x16A) is required for

ERCO track is designed for use in a

variety of electrical installations. The

supplying the mains voltage to the Light Client. The two remaining copper conductors are used as DALI data

Circuit 1

Circuit 2

Circuit 3

DA DALI data line

DA DALI data line

Circuit

Neutral conductor Earth conductor

Neutral conductor PE Earth conductor

ERCO flanged track for 3-circuit installation



All connector parts for the electri-

cal connection are available either

for 3-circuit or for DALI installations. The various different applications or connection types are indicated

on the articles themselves. Further-

more, every single piece of track in the DALI installation should be iden-tified as DALI track using the clips

ERCO flanged track for DALI installation





- Circuit 1 Circuit 2
- Circuit 3
- N Neutral conductor PE Earth conductor

DA DALI data line DA DALI data line

1 Circuit
N Neutral conductor
PE Earth conductor



3-circuit adapter



DALI adapter

When installing the 3-circuit adapter, the lever on the left is firstly locked in order to make the mechanical connection in the track, and then one of the three circuits is selected with the rotatable circuit selector switch. When inserting the DALI adapter, the left contact lever first locks it in place and then the necessary contacts in the track are made by turning the DALI switch.

With the 3-circuit adapter the actual usage is predetermined by selecting the circuit, while with the DALI adapter the voltage is perma-nently applied. It is the DALI signal that first triggers an action, e.g. switching on a luminaire.

Spotlights for mains voltage lamps are fitted with 3-circuit adapters; transformers or control gear for fluorescent or high-intensity discharge lamps are frequently built into the transadapters. The various shapes and sizes depend on the dimensions of the internal equipment. Where spotlights with DALI adapters are concerned, the DALI transformers or the DALI control gear are located either in the luminaires themselves or in a DALI transadapter. Every Light Client with DALI adapter or DALI transadapter is specially equipped to protect against over voltage caused by running three circuits on one conductor.



3-circuit adapter



various shapes



Transadapters in and sizes



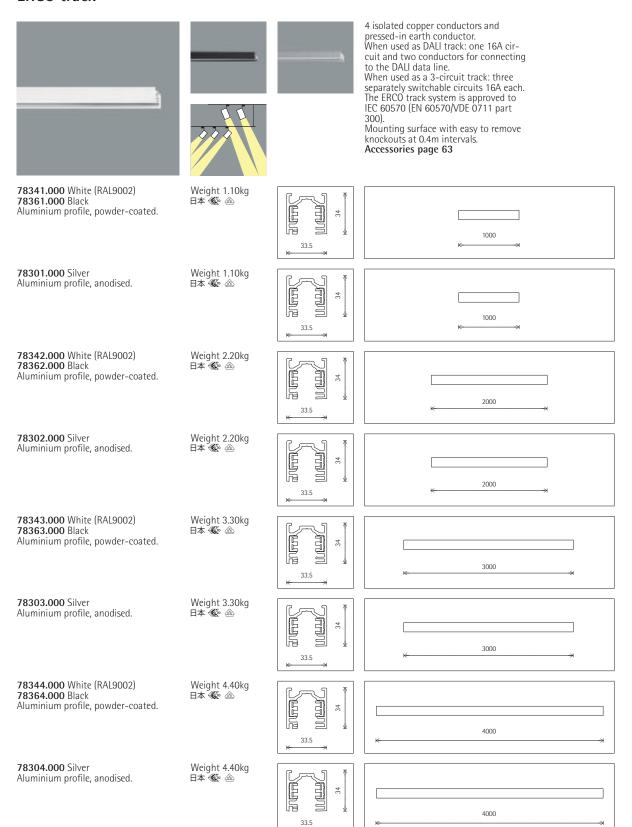
DALI adapter



DALI transadapters in various shapes and sizes

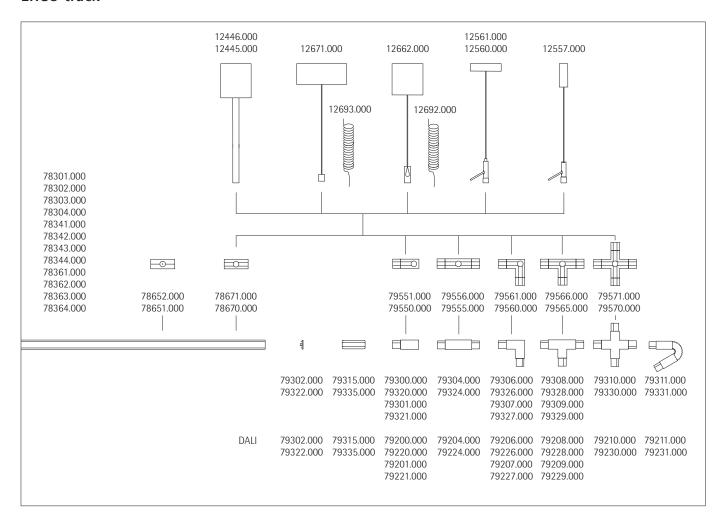


ERCO Program 2010/11



www.erco.com ERCO Program 2010/11

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Vitenfabrikken (Science Factory), Sandnes. Architect: Askim & Lantto AS, Oslo. Electrical design: Cowi AS, Stavanger.

ERCO track DALI installation: connectors















79204.000 White



79200.000 White **79220.000** Black DALI DALI live end Plastic. Earth conductor, right. **1**10 <u>(%)</u>





79224.000 Black DALI coupler Plastic. Feeding possible. Through-wiring.













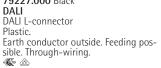
× 80 ×





79206.000 White **79226.000** Black DALI DALI L-connector Plastic. Earth conductor inside. Feeding possible. Through-wiring. **10** A



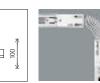




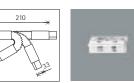
79209.000 White **79229.000** Black DALI T-connector Plastic. Earth conductor, left. Feeding possible. Through-wiring. **1**10 A







79211.000 White **79231.000** Black DALI DALI Multiflex coupler Plastic. Feeding possible. Through-wiring.



Plastic.

日本 🌯 🏝



ERCO track DALI installation: electrical accessories

Ø 112

Ø 130



79047.000 White 79048.000 Black DALI ERCO DALI ad-apter For 250V, 1A pendant luminaire, with strain relief. Plastic. Connection cable 5x0,75mm², L 1500mm.
Requirements placed on DALI control gear: DALI input suitable for mains voltage, max. capacity 750pF. Not suitable for DALI singlet. Weight 0.39kg



79094.000 White **79095.000** Black

DALI Singlet
Recessed mounting/cast into concrete.
For spotlights with ERCO DALI adapter, 250V, 6A. Plastic. Strain relief. Mechanical Load: Wiechanical Load:
Ceiling mounting 8.00kg.
Wall mounting 3.50kg.
Weight 0.32kg



Ø 104

79092.000 White 79093.000 Black

DALI Singlet Surface mounting. For spotlights with ERCO DALI adapter, 250V, 6A. ERCO DALI adapter, 250V, Plastic. Strain relief. Mechanical Load: Ceiling mounting 8.00kg. Wall mounting 3.50kg. Weight 0.13kg



12693.000 White 5x1,5mm² 12691.000 Black 5x1,5mm² Spiral cable L'500/2,500mm.



All Star Lanes Boutique Bowl-ing, Brick Lane, London. Archi-tect: Dan Evans, London.

ERCO track 3-circuit installation: connectors













79300.000 White 79320.000 Black 3-circuit live end Plastic. Earth conductor, right. 日本 🌯 🏝





79304.000 White 79324.000 Black 3-circuit coupler Plastic. Feeding possible. Through-wiring.



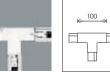












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79306.000 White 79326.000 Black 3-circuit L-connector Plastic. Earth conductor inside. Feeding possible. Through-wiring. 日本 **《** 企

79307.000 White 79327.000 Black 3-circuit L-connector Plastic. Earth conductor outside. Feeding possible. Through-wiring. 日本 🌯 🅸



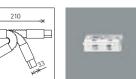
79309.000 White 79329.000 Black 3-circuit T-connector Plastic. Earth conductor, left. Feeding possible. Through-wiring. 日本 **《** 企







79311.000 White 79331.000 Black 3-circuit Multiflex coupler Plastic. Feeding possible. Through-wiring. 日本 **《** 企



79315.000 White 79335.000 Black for flush connection of ERCO track. Plastic. 日本 **愛** 企





ERCO track 3-circuit installation: electrical accessories



79053.000 White 79052.000 Black ERCO 3-circuit adapter With earthed coupler. 250V, 6A. Spiral cable 3x0,75mm². L 700/1400mm.



79023.000 White 79024.000 Black ERCO 3-circuit adapter With earthed socket outlet. 250V, 10A. Plastic. Cover: plastic, black. L 71mm, B 56mm, H 90mm.



79031.000 White 79030.000 Black ERCO 3-circuit adapter Installation kit for 250V, 10A pendant luminaire, with strain relief. Plastic. Connection cable 3 x 0.75mm, L 1500mm. Individual parts to be assembled on-site. Weight 0.15kg 日本



79055.000 White 79054.000 Black ERCO 3-circuit adapter For pendant luminaire, 250V, 10A, with hook and terminal block. Plastic. Load: 10kg. L 71mm, B 32mm, H 33mm.



79037.000 White
79036.000 Black
1-circuit singlet
Recessed mounting/cast into concrete.
For spotlights with ERCO 3-circuit
adapter, 250V, 6A.
Plastic. Strain relief.
Mechanical Load:
Ceiling mounting 8.00kg.
Wall mounting 3.50kg.
Weight 0.32kg
日本 《 🏔



Ø 112

Ø 130





12692.000 White 3x1,5mm² 12693.000 White 5x1,5mm² 12690.000 Black 3x1,5mm² 12691.000 Black 5x1,5mm² Spiral cable L 500/2,500mm.



83816.000
DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching
ohmic, inductive and capacitive loads
max 16A.
DALI interface with two independent
addresses.
Mounting on DIN rail.
Weight 0.21kg



Saatchi Gallery, Duke of York's HQ, London. Architect: Allford Hall Monaghan Morris, London.

ERCO track Mechanical accessories





79551.000 White 79550.000 Black Mounting device for suspension on live end. Metal.



P 50 P 50

79556.000 White 79555.000 Black Mounting device for suspension on coupler with feeding. Metal.



79561.000 White 79560.000 Black Mounting device for suspension on L-connector. Metal.



79566.000 White **79565.000** Black Mounting device for suspension on T-connector. Metal.

P 50 P 50





79571.000 White **79570.000** Black Mounting device for suspension on X-connector. Metal.



78671.000 White 78670.000 Black Mounting device for suspension on track. Metal.



78652.000 White **78651.000** Black Mounting device for subsequent mounting on track.



12440.000 Wire rope Load: 20kg. ø 1.75mm, L 10m.



P 50 17

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16910.000 Turnbuckle with 2 clamps Metal, galvanised. Load: 60kg.



78350.000 Plaster trim profile Aluminium profile, silver anodised. For flush mounting of track in plasterboard B 40mm, H 52mm, L 3000mm. Weight 3.00kg



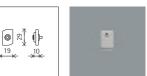
79515.000







78633.000 Mounting toggle for fixing track in plaster trim profiles.



79500.000 Suspension device for track Metal, galvanised.
Subsequent mounting of suspension bridge in ERCO track possible.
Load: 15kg.
L 30mm, H 47mm.





17

67

Hanser+Leiber Opel showrooms, Ulm. Architect: Werkgemeinschaft Weinbrenner Single Arabzadeh, Nürtingen.



ERCO track Mechanical accessories





79503.000Fixing clip
Spring steel, galvanised.
Load: 20kg.
L 33mm.
14mm.



79504.000 Junction With two screws. Aluminium, anodised. Load 30kg. L 50mm, H 26mm. 日本



79530.000Mounting device for M5 screws, with retaining spring. Cast aluminium. Load: 10kg.



79527.000Display hook Plastic/steel.
Load: 10kg.
L 67mm.



79528.000 Mounting device with M4 set screw and two nuts. Plastic/steel. Load: 10kg. L 55mm.



79548.000 White **79547.000** Black Cover profile Plastic. L 10m.



79549.000Cable nippers for shortening the copper conductors in track.



Art Gallery of Ontario, Toronto. Architect: Gehry Partners LLP, Los Angeles. Lighting design: L'Observatoire International, New York.

ERCO track Suspension equipment





12446.000 White 12445.000 Black Pendant tube suspension

Pendant tube: metal, powder-coated. ø 13mm, L 1,040mm. Baldachin: plastic. ø 64mm, H 73mm. Load: 20kg.



12671.000

Wire rope suspension Wire rope: ø 1.50mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 105mm, H 43mm.

Cable entry for 5x1.5mm² plasticcoated cable or spiral cable. Strain relief. Terminal block. Load: 20kg.



12662.000

2500

Wire rope suspension Wire rope: ø 1.50mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 65mm, H 63mm.

Cable entry for 3x1.5mm² plastic-coated cable or spiral cable. Strain relief. Terminal block. Load: 20kg.

€3 500 ±5\$



Wire rope suspension With rapid connector for adjustment levelling.

2500 Ø 1.50

Wire rope: ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, powder-coated. ø 65mm, H 14mm. Load: 20kg.





12557.000

Wire rope suspension With single-point fixing and rapid connector for adjustment levelling. Wire rope: Ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, white powder-coated. ø 18mm, H 49mm. Load 20kg (with heavy load dowel).



ERCO flanged track







Flanges for ceiling panels. 4 isolated copper conductors and pressed-in earth conductor. When used as DALI track: one 16A circuit and two conductors for connecting to the DALI data line. When used as a 3-circuit track: three separately switchable circuits 16A each. The ERCO track system is approved to IEC 60570 (EN 60570/VDE 0711 part

Accessories page 71

78353.000 White (RAL9002) Aluminium profile, powder-coated.







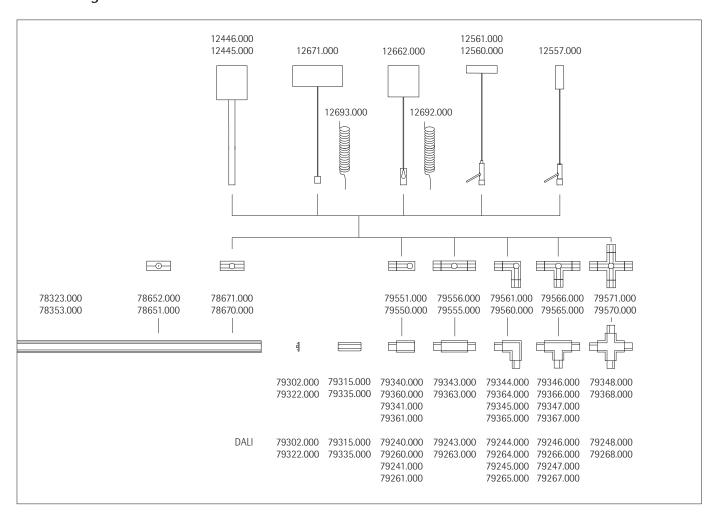
78323.000 Silver Aluminium profile, anodised. Weight 3.60kg



2000	
3000	
	3000

www.erco.com

ERCO flanged track





Fortnum & Mason department store, London. Architect: Jestico & Whiles Architects, London. Lighting design: DPA Lighting inc., Campbell Design, London.

ERCO flanged track DALI installation: connectors





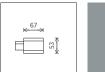
79240.000 White **79260.000** Black DALI live end Plastic.

Earth conductor, right.

110 <u>(A)</u>



79241.000 White **79261.000** Black DALI DALI live end Plastic. Earth conductor, left. **%**10 🕸



79322.000 Black End plate Plastic. 日本 **劉** 企



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79302.000 White





79243.000 White 79263.000 Black DALI coupler Plastic. Through-wiring. Feeding possible.







79245.000 White **79265.000** Black DALI DALI L-connector Plastic. Earth conductor outside. Feeding possible. Through-wiring.



79246.000 White **79266.000** Black DALI DALI T-connector Plastic. Earth conductor, right. Feeding possible. Through-wiring.

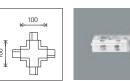


110 A













ERCO Program 2010/11

ERCO flanged track DALI installation: electrical accessories

Ø 112

Ø 130



79047.000 White 79048.000 Black

DALI ERCO DALI adapter For 250V, 1A pendant luminaire, with strain relief. Plastic. Connection cable 5x0,75mm², L 1500mm.
Requirements placed on DALI control gear: DALI input suitable for mains voltage, max. capacity 750pF. Not suitable for DALI singlet. Weight 0.39kg



79094.000 White 79095.000 Black

DALI Singlet
Recessed mounting/cast into concrete.
For spotlights with ERCO DALI adapter, 250V, 6A. Plastic. Strain relief. Mechanical Load: Ceiling mounting 8.00kg. Wall mounting 3.50kg. Weight 0.32kg





79092.000 White 79093.000 Black

DALI Singlet Surface mounting. For spotlights with ERCO DALI adapter, 250V, 6A. Plastic. Strain relief.
Mechanical Load:
Ceiling mounting 8.00kg.
Wall mounting 3.50kg. Weight 0.13kg



12693.000 White 5x1,5mm² 12691.000 Black 5x1,5mm² Spiral cable L'500/2,500mm.



"Abpfiff! Faces of Football" exhibition, Mathias Braschler and Monika Fischer. c/o Berlin at the central post office building, Orani-enburger Straße, Berlin. Architect: Ingo Pott, Berlin.

ERCO flanged track 3-circuit installation: connectors













79340.000 White 79360.000 Black 3-circuit live end Plastic. Earth conductor, right.





79343.000 White 79363.000 Black 3-circuit coupler Plastic. Feeding possible. Through-wiring.





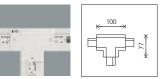
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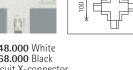
79344.000 White **79364.000** Black 3-circuit L-connector Plastic. Earth conductor inside. Feeding possible. Through-wiring.

79345.000 White 79365.000 Black 3-circuit L-connector Plastic. Earth conductor outside. Feeding possible. Through-wiring.

79346.000 White **79366.000** Black 3-circuit T-connector Plastic. Earth conductor, right. Feeding possible. Through-wiring.

79347.000 White **79367.000** Black 3-circuit T-connector Plastic. Earth conductor, left. Feeding possible. Through-wiring.









79348.000 White 79368.000 Black 3-circuit X-connector Plastic. Feeding possible. Through-wiring.

79315.000 White 79335.000 Black

Matisse Exhibition, K20 Art Gallery of North Rhine-Westphalia, Düsseldorf. Exhibitions architecture: Kühn Malvezzi Architekten, Berlin.



73

ERCO flanged track 3-circuit installation: electrical accessories



79053.000 White 79052.000 Black ERCO 3-circuit adapter With earthed coupler. 250V, 6A. Spiral cable 3x0,75mm². L 700/1400mm.



79023.000 White 79024.000 Black ERCO 3-circuit adapter With earthed socket outlet. 250V, 10A. Plastic. Cover: plastic, black. L 71mm, B 56mm, H 90mm.



79031.000 White 79030.000 Black ERCO 3-circuit adapter Installation kit for 250V, 10A pendant luminaire, with strain relief. Plastic. Connection cable 3 × 0.75mm, L 1500mm. Individual parts to be assembled on-site. Weight 0.15kg 日本



79055.000 White 79054.000 Black ERCO 3-circuit adapter For pendant luminaire, 250V, 10A, with hook and terminal block. Plastic. Load: 10kg. L 71mm, B 32mm, H 33mm.



79037.000 White
79036.000 Black
1-circuit singlet
Recessed mounting/cast into concrete.
For spotlights with ERCO 3-circuit
adapter, 250V, 6A.
Plastic. Strain relief.
Mechanical Load:
Ceiling mounting 8.00kg.
Wall mounting 3.50kg.
Weight 0.32kg
日本 《 🏔



Ø 112

Ø 130

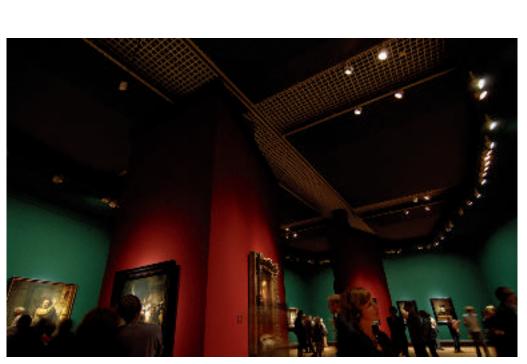




12692.000 White 3x1,5mm² 12693.000 White 5x1,5mm² 12690.000 Black 3x1,5mm² 12691.000 Black 5x1,5mm² Spiral cable L 500/2,500mm.



83816.000
DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A.
DALI interface with two independent addresses.
Mounting on DIN rail.
Weight 0.21kg



Rembrandt Exhibition, Culture Forum of the Berlin State Museums, Berlin. Exhibitions architecture and lighting design: Hansjörg Hartung, Berlin; Berlin State Museums.

ERCO flanged track Mechanical accessories





79551.000 White 79550.000 Black Mounting device for suspension on live end. Metal.



79556.000 White 79555.000 Black Mounting device for suspension on coupler with feeding. Metal.



79561.000 White 79560.000 Black Mounting device for suspension on L-connector. Metal.



79566.000 White **79565.000** Black Mounting device for suspension on T-connector. Metal.

P 50 P 50

H

47

M5



79571.000 White **79570.000** Black

Mounting device



for suspension on X-connector. Metal.



78671.000 White 78670.000 Black Mounting device for suspension on track. Metal.



P 50 P 50

78652.000 White **78651.000** Black Mounting device for subsequent mounting on



12440.000 Wire rope Load: 20kg. ø 1.75mm, L 10m.



P 50 17

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H

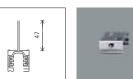
16910.000 Turnbuckle with 2 clamps Metal, galvanised. Load: 60kg.



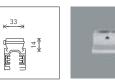
79500.000 Suspension device for track Metal, galvanised. Subsequent mounting of suspension bridge in ERCO track possible.
Load: 15kg.
L 30mm, H 47mm.







79503.000 Fixing clip Spring steel, galvanised. Load: 20kg. L 33mm 14mm.



79504.000 Junction With two screws. Aluminium, anodised. Load 30kg. L 50mm, H 26mm.



79530.000 Mounting device for M5 screws, with retaining spring. Cast aluminium. Load: 10kg.



79527.000 Display hook Plastic/steel. Load: 10kg. I 67mm



79528.000 Mounting device with M4 set screw and two nuts. Plastic/steel. Load: 10kg. L 55mm.



79548.000 White 79547.000 Black Cover profile Plastic. I 10m



79549.000 Cable nippers for shortening the copper conductors in track

ERCO flanged track Suspension equipment





12446.000 White 12445.000 Black Pendant tube suspension

Pendant tube: metal, powder-coated. ø 13mm, L 1,040mm. Baldachin: plastic. ø 64mm, H 73mm. Load: 20kg.



12671.000

Load: 20kg.

Wire rope suspension
Wire rope: ø 1.50mm, L 2,500mm.
Mounting bush: metal.
Canopy: plastic, white, ø 105mm, H 43mm. Cable entry for 5x1.5mm² plasticcoated cable or spiral cable. Strain relief. Terminal block.



2500

12662.000 Wire rope: ø 1.50mm, L 2,500mm.
Mounting bush: metal.
Canopy: plastic, white, ø 65mm, Cable entry for 3x1.5mm² plastic-coated cable or spiral cable. Strain relief. Terminal block. Load: 20kg.

£

±5\$







Ø 1.50

12561.000 White 12560.000 Black

Wire rope suspension
With rapid connector for adjustment levelling.
Wire rope: ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, powder-coated. ø 65mm, H 14mm. Load: 20kg.





12557.000

Wire rope suspension Wire rope suspension
With single-point fixing and rapid
connector for adjustment levelling.
Wire rope: Ø 1.50mm, L 2,500mm.
Ceiling fixture: cast aluminium/metal,
white powder-coated. Ø 18mm,
H 49mm.
Load 20kg (with heavy load dowel).



Galerie de Pury & Luxembourg, Löwenbräu Complex, Zurich. Light-ing design: Neuco AG, Zurich.

Hi-trac track and light structure



The Hi-trac light structure is able to support heavy loads and allows a wide spacing between the suspension points. Hi-trac is a 72mm high aluminium profile section available in two versions: On the one hand, as an ERCO track with an empty upper compartment for cables and, otherwise as an indirect luminaire for T16 fluorescent lamps with ERCO track contained in the lower part. All ERCO spotlights, floodlights and wallwashers with 3-circuit adapters, DALI adapters or transadapters can be used on the track. Luminaires can be fitted as uplights into the upper empty compartment. Hi-tracenables highlighting or washlighting to be combined with indirect lighting. Numerous connectors are available, allowing wall or ceiling mounting and the construction of rightangled structures.

To use the Hi-trac tracks and the Hi-trac light structure for a DALI application, the same conductors are used in the track, but just connected differently: only one conductor carries the circuit current, the other two conductors are used for the control signal. Special DALI accessories ensure that the track is correctly installed. This arrangement ensures the optimum logistics and availability of DALI track systems. It also means that existing track installations can be economically retrofitted with ERCO DALI technology.

Spotlights are fitted with DALI adapters for the mechanical and electrical connection and also for the control signals.

Nasjonalmuseet for kunst, arkitektur og design (Museum of Architecture), Oslo. Architect: Prof. Arch. Sverre Fehn, Oslo.

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Hi-trac track and light structure



The product range consists of profile section lengths of 2m to 4m. The 36mm x 72mm rectangular sectioned aluminium profile is available silver or powder-coated white. The underside is designed as a 3-circuit track and the topside as an empty compartment or as a luminaire. The light structure's connectors are suitable for forming linear and rightangled layouts. Pendant tubes or wire ropes are available as suspension systems.

Track



When connected to a three-phase network, each of the three circuits can be loaded to a maximum of 16A. The tracks can be arranged in linear, L-shaped, U-shaped and rectangular formations by using L-connectors, sometimes also with T-connectors and X-connectors. The mounting options available are suspension systems with pendant tube or wire-rope. In the DALI version, one conductor carries the phase and the two others are used for the control signal. All the connectors for 3-circuit installation or for DALI applications are available for making the electrical connection.

Application

For a fully accessible power supply for spotlights, floodlights, wall-washers accent lighting and washlighting in all professional lighting situations. With minimum suspension points for large spans.

Luminaires



In the Hi-trac, T16 fluorescent lamps up to 54W are used in the upper profile. In the DALI version, one conductor carries the supply and the other two the control signal. The connectors are available to make the electrical connection for 3-circuit installation or for DALI applications..

Application

For indirect general lighting in offices, medical practices and entrance areas, e.g. in public buildings and hotels. Additional highlighting and washlighting using spotlights, floodlights and wallwashers.

Uplights



A double uplight is available for washlighting with the warm white light of two 150W tungsten halogen lamps.

Application

For indirect general lighting in offices, medical practices and entrance areas, e.g. in public buildings and hotels. Additional highlighting and washlighting using spotlights, floodlights and wallwashers.

Hi-trac track and light structures

In addition to the classic ERCO track, the Hi-trac range of track and light structures is also available for DALI installations. This means that both the trackmounted spotlights as well as the light structure luminaires can be incorporated in a Light System
DALI installation and can be individually controlled using the Light Studio software. Instead of introducing an additional, incompatible track section, the proven 5-conductor track from the light structures is used in a new way in a DALI installation. Whereas in conventional 3-circuit installations, all conductors are connected to the network and are individually protected, the DALI installation only uses one circuit to supply the Light Clients with mains voltage. The two remaining copper conductors are used as DĂLI data lines. The special DALI accessories for the electrical live end or connection are labelled accordingly.





Hi-trac track and light structure for 3-circuit installation 1 Circuit 1
2 Circuit 2
3 Circuit 3
N Neutral conductor
PE Earth conductor



Hi-trac track and light structure for DALI installation DA DALI data line
DA DALI data line
1 Circuit
N Neutral conductor
PE Earth conductor

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Hi-trac track and light structures are 72mm high aluminium sections. They are available in two versions: as a track with an empty upper compartment or as a track with an indirect T16 fluorescent lamp.

ERCO Hi-trac track







Panel profile: aluminium, powder-

coated.
Upper part: empty compartment, for fixing of uplights, through-wiring or cover profile.
Lower part: track. 4 isolated copper conductors and impressed parts and interested control and the conductors.

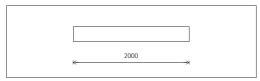
ductors and impressed earth conductor. When used as DALI track: one 16A circuit and two conductors for connecting to the DALI data line.

When used as a 3-circuit track: three separately switchable circuits 16A each. The ERCO track system is approved to IEC 60570 (EN 60570/VDE 0711 part 300).

13400.000 White (RAL9002) 13440.000 Silver





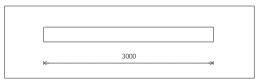


Accessories page 83

13401.000 White (RAL9002) 13441.000 Silver

Weight 6.00kg





13402.000 White (RAL9002) **13442.000** Silver

Weight 8.00kg







Bern Art Museum. Interior design: Ulrich Zickler, Stuttgart. Lighting design: Institut für Tageslichttechnik, Stuttgart.



vital pharmacy, Vienna. Archi-tecture/lighting designers: bpw ar-chitektur, Vienna.

Hi-trac Luminaire indirect lighting for fluorescent lamps







Panel profile: aluminium, powdercoated.

Upper part: insert for T16 fluorescent

lamp.
3-pole terminal block. Covered electronic control gear. Fluorescent lamp operation with one track circuit. Lower part: track. 4 isolated copper conductors and impressed earth conductor. When used as DALI track: one 16A circuit and two conductors for connecting to the DALI data line. Use DALI electrical feeding 13491.000, 13492.000. When used as a 3-circuit track: three separately switchable circuits 16A

each. Use electrical feeding 12553.000,

12552.000. The ERCO track system is approved to IEC 60570 (EN 60570/VDE 0711 part

Accessories page 83









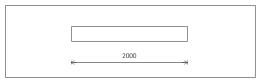


DLOR 0.00 ULOR 0.59

13404.000 White (RAL9002) ECG 13409.000 Silver ECG T16 54W G5 4450lm

Weight 5.00kg LMF F **₹**10 <u>6</u>2 <u>€</u>2 <u>6</u>0









LOR	0.59
DLOR	0.00
ULOR	0.59

Connected lo	oad	
13403.000	P:	30 W
13408.000	P:	30 W
13404.000	P:	58 W
13409 000	P٠	58 W

Connected load per 100lx 3.78 W/m² 3.78 W/m² 13403.000 13408.000 13404.000 4.27 W/m² 13409.000 4.27 W/m² Number of luminaires per 100lx 12.61 1/100m² 12.61 1/100m² 13403.000 13408.000 13404.000 7.37 1/100m² 13409.000 7.37 1/100m²

81

Igreja da Santis-sima Trindade, pilgrimage church, Fatima. Archi-tect: Alexandros Tombazis, Athens. Lighting design: Bartenbach Lichtlabor, Innsbruck; Fernando Silva OHM-E, Porto.



Hi-trac Luminaire indirect lighting for fluorescent lamps



13413.000 White (RAL9002) ECG DALI **13418.000** Silver ECG DALI T16 28W G5 2600lm T16 54W G5 4450lm





DALI PLUG+ PLAY

% @ @



Weight 5.00kg LMF F

Panel profile: aluminium, powdercoated.

Upper part: insert for T16 fluorescent lamp. 5-pole terminal block. Covered elec-

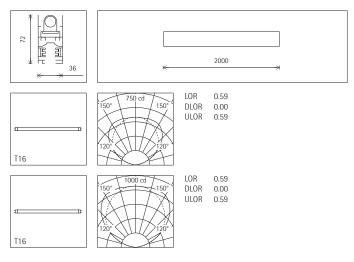
tronic control gear, with plug and play connectivity. Fluorescent lamp operation with one track circuit.

Lower part: track. 4 isolated copper conductors and embedded earth conductor. When using as DALI track: one 16A circuit and two conductors for connecting to the DALI data line. Use DALI electrical feeding 13491.000, 13492.000. When using as 3-circuit track: three

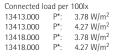
separately switchable circuits of 16A each. Use electrical feeding 12553.000, 12552.000.

The ERCO track system is approved to IEC 60570 (EN 60570/VDE 0711 part

Accessories page 83



Connected	load	
13413.000	P:	30 W
13413.000	P:	58 W
13418.000	P:	30 W
13418.000	P:	58 W



Number of luminaires per 100lx 12.61 1/100m² 13413.000 n*: n*: 7.37 1/100m² 13413.000 13418.000 12.61 1/100m² 13418.000 7.37 1/100m²

Hi-trac Uplights for tungsten halogen lamps

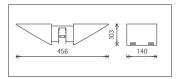




Housing for use on the upper compartment of Hi-trac profiles: cast aluminium, powder-coated. Insert: Metal, powder-coated. Through-wiring possible. Reflectors: Aluminium, silver anodised. Lamp cover: Safety glass. Accessories page 83

13540.000 White (RAL9002) 2xQT-DE12-RE 120W 230V R7s L75mm 2300lm









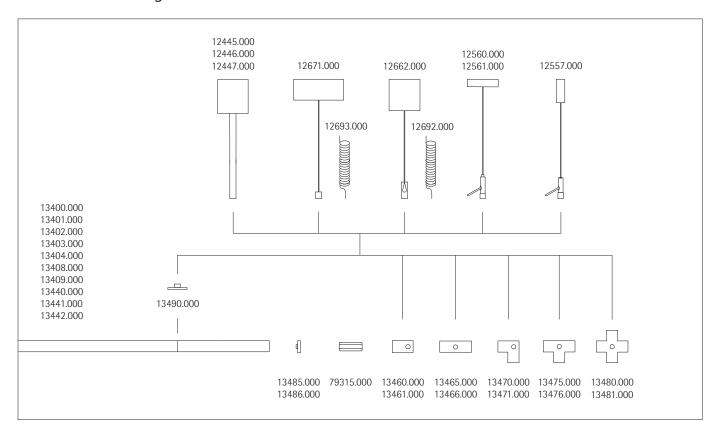
LOR 0.46 DLOR 0.00 ULOR 0.46

Connected load 13540.000 240 W

Connected load per 100lx 13540.000 P*: 21.96 W/m²

Number of luminaires per 100lx 13540.000 9.15 1/100m²

Hi-trac track and light structure



Hi-trac track and light structure Accessories



13485.000 White 13486.000 Silver Hi-trac End plate Plastic. Weight 0.02kg





13460.000 White 13461.000 Silver Hi-trac Live-end housing Cast aluminium with plastic cover. Feeding and through-wiring to be ordered separately. Suspension possible. Weight 0.25kg





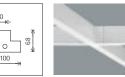
13465.000 White 13466.000 Silver Hi-trac Coupler housing Cast aluminium with plastic cover. Feeding and through-wiring to be ordered separately.
Suspension possible.
Weight 0.30kg



13470.000 White **13471.000** Silver Hi-trac L-connector Cast aluminium with plastic cover. Feeding and through-wiring to be ordered separately. Suspension possible. Weight 0.30kg



13475.000 White 13476.000 Silver Hi-trac T-connector Cast aluminium with plastic cover. Feeding and through-wiring to be ordered separately. Suspension possible. Weight 0.40kg



13480.000 White 13481.000 Silver Hi-trac X-connector Cast aluminium with plastic cover. Feeding and through-wiring to be ordered separately. Suspension possible. Weight 0.60kg



13500.000 White 13501.000 Silver Hi-trac Wall bracket Cast aluminium with cover. Sliding adjustment +/-5mm.
Feeding to be ordered separately.
Weight 0.30kg



P 50 0 8

100

Hi-trac track and light structure Accessories



DALI electrical feeding

Earth conductor, left.

5-pole terminal block

and through-wiring for ERCO DALI track systems. Plastic, white.

13491.000

DALI





13492.000 DALI DALI electrical feeding and through-wiring for ERCO DALI track systems. Plastic, white. Earth conductor, right. 5-pole terminal block.



12552.000 Electrical feeding and through-wiring for ERCO 3-circuit tracks. Plastic, white. Earth conductor, left. 5-pole terminal block.

80



12553.000 Electrical feeding and through-wiring for ERCO 3-circuit tracks. Plastic, white. Earth conductor, right. 5-pole terminal block.

\$ \$ \$

¥ 43.5

<u>√ 58</u>



12693.000 White 5x1,5mm² Spiral cable L 500/2,500mm.



60

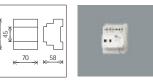
79315.000 White Coupler for flush connection of ERCO track. Plastic. 日本 🐠 🕸



12692.000 White 3x1,5mm² Spiral cable L 500/2,500mm.



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



83816.000





13490.000 Hi-trac Mounting device for suspension of butt-jointed profile. Cast aluminium. Feeding not possible. Electrical coupler 79315 to be ordered separately. Weight 0.10kg



12440.000 Wire rope Load: 20kg. ø 1.75mm, L 10m.



16910.000 Turnbuckle with clamps Metal, galvanised. Load: 60kg.



79546.000 Cable nippers for shortening the copper conductors in track.



13420.000 White L 1000mm. **13421.000** White L 2000mm. 13422.000 Silver L 1000mm. 13423.000 Silver L 2000mm. Hi-trac Cover profile for use on the upper compartment.



Hi-trac track and light structure Accessories





12446.000 White 12445.000 Willie 12445.000 Black 12447.000 Silver Pendant tube suspension Pendant tube: metal, powder-coated. ø 13mm, L 1,040mm. Baldachin: plastic. ø 64mm, H 73mm. Load: 20kg. 日本



Load: 20kg.

12671.000 Wire rope suspension Wire rope: Ø 1.50mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 105mm, H 43mm. Cable entry for 5x1.5mm² plasticcoated cable or spiral cable. Strain relief. Terminal block.



2500



12662.000 Wire rope suspension Wire rope: ø 1.50mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 65mm, H 63mm. Cable entry for 3x1.5mm² plastic-coated cable or spiral cable. Strain relief. Terminal block. Load: 20kg.





85

12560.000 Black Wire rope suspension With rapid connector for adjustment levelling. Wire rope: ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, powder-coated. ø 65mm, H 14mm. Load: 20kg.





12557.000 Wire rope suspension With single-point fixing and rapid connector for adjustment levelling. Wire rope: Ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, white powder-coated. Ø 18mm, H 49mm. Load 20kg (with heavy load dowel).

Dr. Oetker Welt, Bielefeld. Architect: Ackermann & Raff, Tübin-gen. Exhibition design: Triad, Berlin. Electrical fitters: Elektro Beckhoff, Verl.





The T16 light structure is identified by its very precise design. Due to its compact dimensions it is an inconspicuous architectural detail. It's versatility as a lighting tool means it can be used universally. T16 light structures are designed primarily for the T16 fluorescent lamp. They are always suspended at the ends of the profile so that unsupported spans of up to 3.2m are possible.

Jeep Chrysler Dodge Car Showroom, Dubai. Architect: GHD. Dubai Office. Lighting design: Visual Terrain, Van Nuys, CA. Architectural engineers: Al Futtaim Carrilion, Dubai. Electrical design engineers: Al Futtaim Engineering, Dubai.



The range consists of three luminaire types: Direct luminaires, direct /indirect luminaires and indirect luminaires. They consist of a 72mm x 60mm rectangular sectioned aluminium profile and are powder-coated white or silver. The ends of the profile are finished with mounting trays to secure the luminaires to each other or to the connectors. The connectors are cast aluminium and provide the suspension of the luminaires and connection to the power supply. They are suitable for forming linear and right-angled layouts.

An adjustable connector means that geometric forms to be constructed. Pendant tubes or wire ropes are available as suspension systems for the profiles.

Luminaires, direct



Each luminaire is designed for one T16 fluorescent lamp of 54W. In the 2-lamp versions, two single-lamp luminaires are arranged end to end in the profile. The light apertures for the single-lamp luminaires are asymmetrically positioned in the profiles. Conversely, the light apertures in the 2-lamp versions are symmetrically positioned in the profile. All luminaires for direct lighting are fitted with Darklight reflectors with 40° cut-off angles.

ApplicationFor direct general lighting in offices, medical practices and entrance areas, e.g. in public buildings and hotels.

Luminaires, direct/indirect



These luminaires are to be fitted with a 54W T16 fluorescent lamp. In the 2-lamp versions, two single-lamp luminaires are arranged end to end in the profile. The light apertures for the single-lamp luminaires are asymmetrically positioned in the profiles. Conversely, the light apertures in the 2-lamp versions are symmetrically positioned in the profile.

All luminaires for direct/indirect lighting are fitted with Darklight reflectors with 40° cut-off. The upper light apertures can be fitted with clear, longitudinally ribbed covers.

Application

For direct/indirect general lighting in offices, medical practices and entrance areas, e.g. in public buildings and hotels.

Luminaires, indirect



Indirect luminaires are created as a profile which is covered below and take T16 fluorescent 54W lamps. In the 2-lamp versions, two single-lamp luminaires are arranged end to end in the profile. In this case, however, the light apertures of the single-lamp and 2-lamp luminaires are arranged symmetrically in the profile. These can also be fitted with clear, ribbed covers.

Application

For purely indirect general lighting in offices, medical practices and entrance areas, e.g. in public buildings and hotels.

Empty profile



The upper-side is provided with a cover. The lower cover features a longitudinal structure.

Application
The empty compartments can be used to provide a direct connection to the luminaires or to act as





BPA Banca Privada d'Andorra, Escaldes-Engord-any, Andorra. Architect/lighting design: Orobitg Arquitects/Stefano Colli.

Sidley Austin LLP Law Office, London. Architect: Gensler, San Francisco/London.

T16 light structure Luminaire direct lighting for fluorescent lamps









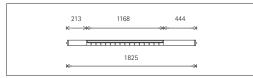
Aluminium profile, powder-coated. Cast aluminium mounting plates, for direct connection of luminaires or connectors. Lower lateral cover profiles: aluminium, fluted.

Feeding possible. Electronic control gear. 5-pole terminal block on each end of profile. Through-wiring 5x1.5mm². Darklight reflector with parabolic cross baffles: aluminium, silver, mirror-finish anodised. Cut-off angle 40° (CO), 30° (C90). For lamp replacement removable without tools, retained on safety cords.

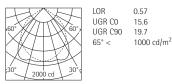
Accessories page 93

Weight 4.90kg LMF C **%**17 <u>@</u> **@**





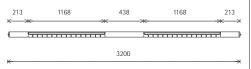




13606.000 White (RAL9002) ECG 13607.000 Silver ECG 2xT16 54W G5 4450lm Lamps positioned in series.

Weight 8.90kg LMF_C **₹**17 <u>@</u> **@**





2xT16

89

Connected load 58 W 13602.000 13603.000 58 W 13606.000 116 W 13607.000 116 W Connected load per 100lx 2.30 W/m² 2.30 W/m² 13602.000 13603.000 13606.000 2.30 W/m² 13607.000 2.30 W/m² Number of luminaires per 100lx 3.97 1/100m² 3.97 1/100m² 13602.000 13603.000 13606.000 1.99 1/100m² 13607.000 1.99 1/100m²

Palais du Vin, Les Ateliers des Tanneurs, Brussels. Architect: Christophe Gillis, OZ Architecture, Brussels.



T16 light structure Luminaire direct/indirect lighting for fluorescent lamps





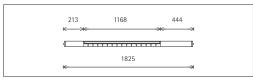


Aluminium profile, powder-coated. Upper side with openings for indirect lighting. Cast aluminium mounting plates, for direct connection of luminaires or connectors. Lower lateral cover profiles: aluminium, fluted. Feeding possible. Electronic control gear. 5-pole terminal block on each end of profile. Through-wiring 5x1.5mm². Darklight reflector with parabolic cross baffles: aluminium, silver, mirror-finish anodised. Cut-off angle 40° (CO), 30° (C90). For lamp replacement removable without tools, retained on safety cords. Accessories page 93

13612.000 White (RAL9002) ECG 13613.000 Silver ECG T16 54W G5 4450lm Light aperture positioned asymmetrically in profile.

Weight 4.70kg LMF F © ©









13616.000 White (RAL9002) ECG **13617.000** Silver ECG 2xT16 54W G5 4450lm Lamps positioned in series.

Weight 8.70kg LMF F © ©





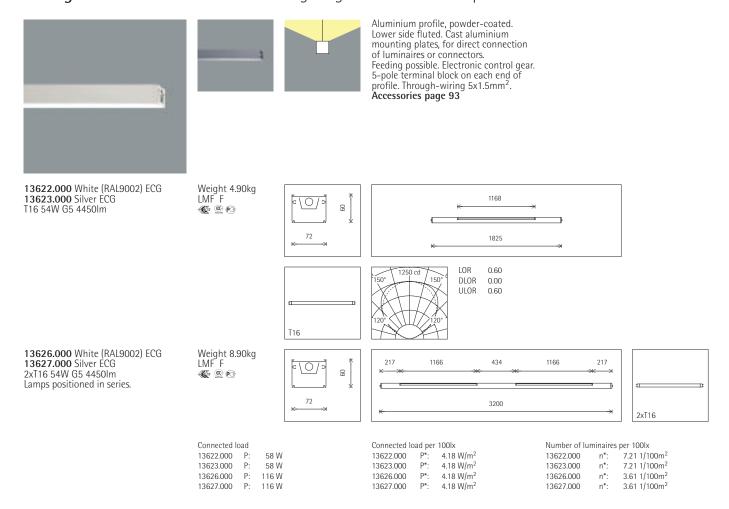


Connected load 13612.000 P: 58 W 13613.000 P: 58 W 13616.000 P: 116 W 13617.000 P: 116 W Connected load per 100lx 13612.000 P*: 2.19 W/m² 13613.000 P*: 2.19 W/m² 13616.000 P*: 2.19 W/m² 13617.000 P*: 2.19 W/m² Number of luminaires per 100lx 13612.000 n*: 3.78 1/100m² 13613.000 n*: 3.78 1/100m² 13616.000 n*: 1.89 1/100m² 13617.000 n*: 1.89 1/100m²

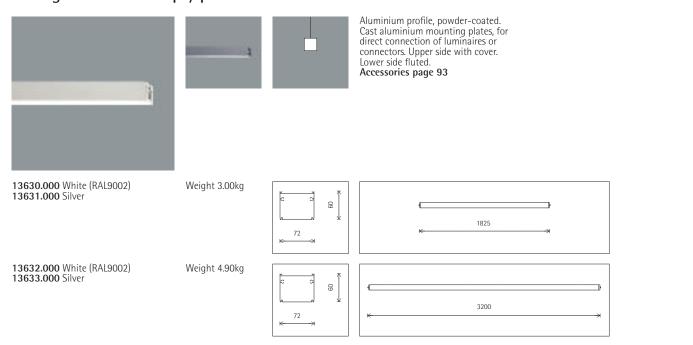


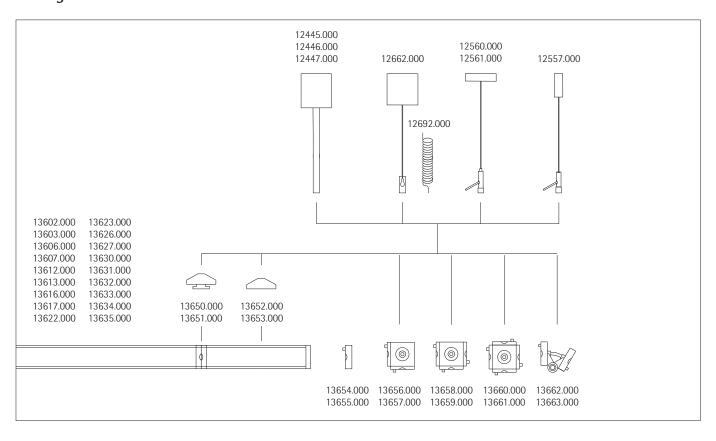
Munich Airport, Terminal 2, Munich. Architect: Koch & Partner, Munich. Electrical engineers: Pro-Elektroplan, Ottobrunn. Installation: ARGE Bauer Elektro GmbH + Co. KG, Buchbach, Elektro Kreutzpointner GmbH, Burghausen.

T16 light structure Luminaire indirect lighting for fluorescent lamps



T16 light structure Empty profile







Sparkasse savings bank, Würzburg. Architect: Architekturbüro Appel, Würzburg. Lighting design: REA Reinhart Engel Albert Ingenieure.

T16 light structure Accessories



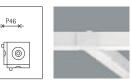
13639.000 T16 light structure Cover For upper lighting aperture. Clear, ribbed plastic cover.



13654.000 White 13655.000 Silver T16 light structure Dead end Cast aluminium, powder-coated. Feeding possible. Weight 0.16kg



13656.000 White 13657.000 Silver T16 light structure 90°-connector Cast aluminium, powder-coated. Lower side with plastic cover. Feeding possible. Weight 0.58kg

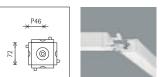


13658.000 White 13659.000 Silver T16 light structure T-connector Cast aluminium, powder-coated. Lower side with plastic cover. Feeding possible. Weight 0.70kg

P46



13660.000 White 13661.000 Silver T16 light structure X-connector Cast aluminium, powder-coated. Lower side with plastic cover. Feeding possible. Weight 0.82kg



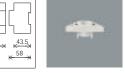
13662.000 White 13663.000 Silver T16 light structure L-connector Cast aluminium, powder-coated. 0°-180° tilt. Weight 0.65kg



12692.000 White 3x1,5mm² Spiral cable L 500/2,500mm.



83816.000
DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching
ohmic, inductive and capacitive loads
max 16A.
DALI interface with two independent
addresses.
Mounting on DIN rail.
Weight 0.21kg



13650.000 White 13651.000 Silver T16 light structure Mounting device for suspension on mounting plates and dead ends. Cast aluminium, powder-coated.

93

Porsche Dealership, Hennessy, Atlanta



T16 light structure Accessories



13652.000 White 13653.000 Silver T16 light structure Mounting device for intermediate suspension on profile.
Cast aluminium,
powder-coated.
No suspension possible in the area of the cover 13639.000.



12440.000 Wire rope Load: 20kg. ø 1.75mm, L 10m.



16910.000 Turnbuckle with 2 clamps Metal, galvanised. Load: 60kg.



12446.000 White 12445.000 Black 12447.000 Silver Pendant tube suspension Pendant tube: metal, powder-coated. ø 13mm, L 1,040mm. Baldachin: plastic. ø 64mm, H 73mm. Load: 20kg.



1040 Ø 13 T

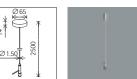


12662.000 Wire rope: ø 1.50mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 65mm, H 63mm. Cable entry for 3x1.5mm² plastic-coated cable or spiral cable. Strain relief. Terminal block. Load: 20kg.





12561.000 White 12560.000 Black Wire rope suspension With rapid connector for adjustment levelling. Wire rope: Ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, powder-coated. Ø 65mm, H 14mm. Load: 20kg.





12557.000 Wire rope suspension With single-point fixing and rapid connector for adjustment levelling. Wire rope: Ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, white powder-coated. ø 18mm, H 49mm. Load 20kg (with heavy load dowel).



Representative offices of Lower-Saxony Et Schleswig-Holstein, Berlin. Architect: Cornelsen+Seelinger, Seelinger+Vogels, Darmstadt.



With a 50mm tube diameter, Monopoll light structures provide a good solution wherever a filigree lighting system is required which remains subordinate to the architecture. T16 fluorescent lamps are to be used in direct luminaires as well as in the wallwasher.

For accent lighting, the Monopoll track can be fitted with spotlights for ERCO track. A large selection of connectors, suspension devices and accessories make the creation of complex vertical and horizontal structures possible. The Monopoll profiles can be rotated at 15° intervals. This allows the direction of the light aperture to be adjusted to produce uniform wall illumination.

When using the Monopoll track in a DALI application, the same conductors are used in the track but they are connected differently: only one conductor carries the circuit current, the other two conductors are used for the control signal. Special DALI accessories ensure that the track is correctly installed. This ensures optimum logistics and availability of DALI track systems. It also means that existing track installations can be economically retrofitted with ERCO DALI technology.

logy.
The spotlights are fitted with
DALI adapters to facilitate mechanical and electrical connection and
to handle the control signals.

Honda Car Showroom, Festival City, Dubai. Architect: GHD, Dubai Office. Lighting design: Visual Terrain, Van Nuys, CA.



Monopoll luminaires consist of circular aluminium profile sections of 50mm dia., powder-coated white and supplied in lengths of up to 3.20m. Monopoll wallwashers and direct luminaires are available for T16 fluorescent lamps. Each luminaire is designed for one fluorescent lamp of 54W. In the 2-lamp versions, two single-lamp luminaires are arranged end to end in the profile. The light apertures for the single-lamp luminaires are asymmetrically positioned in the profiles. The light apertures on 2-lamp luminaires are positioned symmetrically.

The aluminium connectors are used to construct linear and right-angled structures. An adjustable L connector enables other geometric forms to be constructed. Pendant tubes or wire ropes are available as suspension systems for the profiles.

Track



Monopoll track is available in length's of up to 4m. When connected to a three-phase network, each of the three circuits can be loaded to a maximum of 16A. The circuits must be separately protected. The tracks can be arranged in linear, L-shaped, U-shaped and rectangular forms using 90°-connectors or adjustable L connectors. Mounting options include suspension with pendant tube or with wire rope. Rotation of the track profile in 15° steps using rotatable connectors. In the DALI version, two conductors are for neutral and phase, the other two are used for the control signals. All the connectors for 3-circuit installation or for

DALI applications are available for making the electrical connection.

Application

For a flexible power supply to spotlights, floodlights and wallwashers and for accent lighting and washlighting of all professional lighting situations. For areas where filigree lighting systems are to be suspended or routed along ceilings and walls.

Wallwashers



The special wallwasher reflector provides uniform illumination of the wall even above the usually suspended Monopoll profiles.

Application

Optimised, asymmetrical light distribution from a highly efficient reflector system providing uniform washlighting. Applications include museums, exhibitions and art galleries, promotional and entrance areas.

Luminaires, direct



All direct Monopoll luminaires have aluminium-vaporised plastic Darklight reflectors with 20° cut-off angles.

Application

For floodlighting in professional lighting scenarios. For areas where suspended, filigree lighting systems provide ambient lighting along the contours of counters, for instance.



Monopoll track and light structures are based on a 50mm diameter round aluminium section.

In addition to the classic ERCO track, the Monopoll range of track and light structures is also available for DALI installations. This means that both the trackmounted spotlights as well as the light structure luminaires can be incorporated in a Light System DALI installation and can be individually controlled using the Light Studio software. Instead of introducing an additional, incompatible track section, the proven 5-conductor track from the light structures is used in a new way in a DALI installation. Whereas in conventional 3-circuit installations, all conductors are connected to the network and are individually protected, the DALI installation only uses one circuit to supply the Light Clients with mains voltage. The two remaining copper conductors are used as DALI data lines. The special DALI accessories for the electrical live end or connection are labelled accordingly.



Monopoll track and light structure for 3-circuit installation

1 Circuit 1
2 Circuit 2
3 Circuit 3
N Neutral conductor
PE Earth conductor

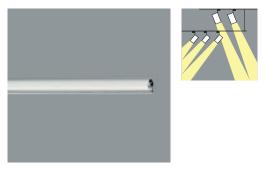


Monopoll track and light structure for DALI installation DA DALI data line
DA DALI data line
1 Circuit
N Neutral conductor
PE Earth conductor

97



ERCO Monopoll track



Extruded aluminium profile, powder-coated.
4 isolated copper conductors and impressed earth conductor.
When used as DALI track: one 16A circuit and two conductors for connecting to the DALI data line.
When used as a 3-circuit track: three separately switchable circuits 16A each.
The ERCO track system is approved to IEC 60570 (EN 60570/VDE 0711 part 300).
Accessories page 102

12031.000 White (RAL9002)

Weight 1.45kg **⋘** △

20

1000

12032.000 White (RAL9002)

Weight 2.90kg **⋘** △



2000 →

12033.000 White (RAL9002)

Weight 4.35kg

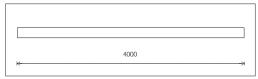




12034.000 White (RAL9002)







Monopoll Empty profile, two-piece



Aluminium, powder-coated.

12079.000 White (RAL9002)

Weight 0.95kg



1000

Monopoll Wallwasher for fluorescent lamps

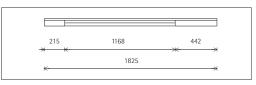




Aluminium profile, powder-coated. Lower lateral cover profiles: aluminium, powder-coated. Electronic control gear. 5-pole terminal block. Through-wiring 5x1.5mm². Wallwasher reflector: aluminium, silver, satin-matt anodised. Accessories page 102

12404.000 White (RAL9002) ECG T16 54W G5 4450lm Light aperture positioned asymmetrically in profile.





T16

 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.25

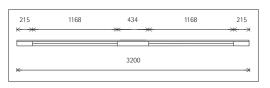
 Luminaire spacing (m)
 1.92
 1.92

 Illuminance E_n (kx)
 464
 425

12406.000 White (RAL9002) ECG 2xT16 54W G5 4450lm Lamps positioned in series.

Weight 4.50kg LMF C **«** △ • • •







 Mean illuminance En (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.25

 Luminaire spacing (m)
 3.30
 3.30

 Illuminance En (lx)
 539
 495

Art gallery, Emden. Architects: Friedrich and Ingeborg Spengelin, Hanover.



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Monopoll Luminaire direct lighting for fluorescent lamps





12412.000 White (RAL9002) ECG T16 54W G5 4450lm Light aperture positioned asymmetrically in profile.

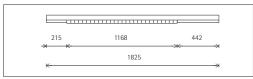


Weight 3.50kg LMF C **₹**10 ♠ ₾ №

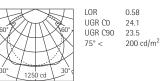
Aluminium profile, powder-coated. Lower lateral cover profiles: aluminium, Lower lateral cover profiles: aluminium, powder-coated. Electronic control gear. 5-pole terminal block. Through-wiring 5x1.5mm². Darklight reflector: plastic, silver, mirror-finish aluminium vaporised. Scratch resistant special coating. Cut-off angle 20° (Co, C90). Visible parts, silver mirror-finish. For lamp replacement removable without tools. able without tools. Upper reflector: metal, white powder-coated.

Accessories page 102









12414.000 White (RAL9002) ECG 2xT16 54W G5 4450lm Lamps positioned in series.

Weight 5.00kg





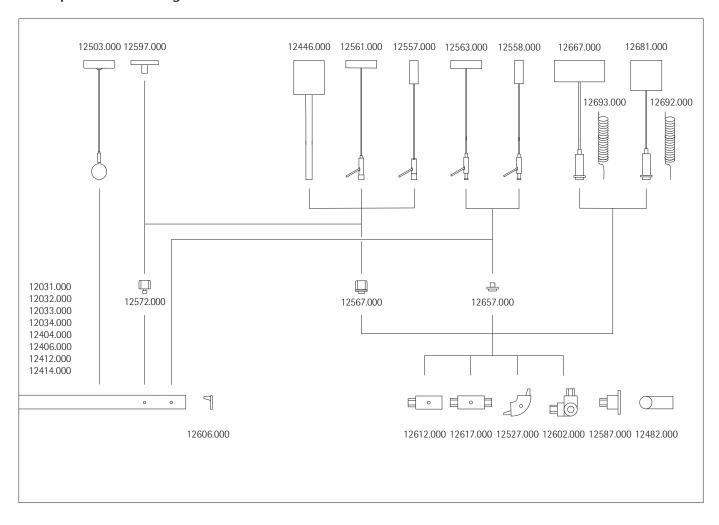
2xT16

Connected load 58 W 12412.000 12414.000 116 W Connected load per 100lx 12412.000 P*: 2.42 2.42 W/m² 2.42 W/m² 12414.000

Number of luminaires per 100lx 4.17 1/100m² 2.09 1/100m² 12412.000 12414.000



Direct beam Monopoll luminaires ensure good light in the library at the Xaverian Brothers High School, Westwood



Pilar and Joan Miró foundation, Palma de Mallorca. Architect: Rafael Moneo.



Monopoll track and light structure Accessories













12606.000 Monopoll End cap for ERCO 3-circuit track and empty profiles. Fixing plate and screw. Plastic,

12612.000 Monopoll Live-end housing Cast aluminium, white (RAL9002) powder-coated. Rotatable fixing in-sert, to adjust profiles in steps of 15°. Feeding and through-wiring to be ordered separately. Weight 0.35kg

12617.000 Monopoll Coupler housing Cast aluminium, white (RAL9002) powder-coated. Rotatable fixing in-sert, to adjust profiles in steps of 15°. Feeding and through-wiring to be ordered separately. Weight 0.35kg

12527.000 Monopoll 90° connector Cast aluminium, white (RAL9002) powder-coated. Rotatable fixing in-sert, to adjust profiles in steps of 15°. Feeding and through-wiring to be ordered separately. Weight 0.20kg













12602.000 Monopoll L-connector with mounting device 12567.000. Cast aluminium, white (RAL9002) powder-coated, 90°-180° tilt. Rotatable fixing insert, to adjust profiles in steps of 15° Feeding not possible. Through-wiring to be ordered separately. Weight 0.50kg



12597.000 Monopoll Wall/ceiling fixing Cast aluminium, white (RAL9002) powder-coated.
Mounting device for connector or intermediate suspension to be ordered separately. Load: 20kg

12482.000 Monopoll Wall/ceiling cantilever as end/intermediate fixing. Cast aluminium, white (RAL9002) powder-coated. One end plate: plastic, Feeding and through-wiring to be ordered separately. Load: 25kg. Weight 0.82kg





34 \$ ₹



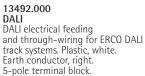








13491.000 DALI electrical feeding and through-wiring for ERCO DALI track systems. Plastic, white. Earth conductor, left. 5-pole terminal block



12552.000 Electrical feeding and through-wiring for ERCO 3-circuit tracks. Plastic, white. Earth conductor, left 5-pole terminal block.

12553.000 Electrical feeding and through-wiring for ERCO 3-circuit tracks. Plastic, white. Earth conductor, right. 5-pole terminal block.







12693.000 White 5x1,5mm² Spiral cable L'500/2,500mm.



12692.000 White 3x1,5mm² Spiral cable L'500/2.500mm.



83816.000 DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads

DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg



12567.000 Mounting device for suspension on connector. Metal, white.



12572.000 Mounting device for suspension on profile. Profile to be drilled on-site. Metal, white.

Monopoll track and light structure Accessories



12657.000 Mounting device for suspension on connector. Metal.



12440.000 Wire rope Load: 20kg. ø 1.75mm, L 10m.



16910.000 12499.000 Turnbuckle with Monopoll Cable 2 clamps Metal, galvanised. Load: 60kg. nippers for shortening the copper conductors in Monopoll track.





12099.000 Hole gauge for on-site cutting of Monopoll track and profiles. Cast aluminium, with hardened sleeve.

60 @ R

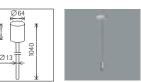


12083.000 Monopoll Cover profile Aluminium, white (RAL9002) powder-B 32mm, L 500mm.

32





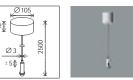


12561.000 White Wire rope suspension With rapid connector for adjustment levelling. Wire rope: ø 1.50mm, L 2,500mm.





12667.000 Wire rope suspension Wire rope: ø 3mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 105mm, H 43mm. Cable entry for 5x1.5mm² plastic-coated cable or spiral cable. Strain relief. Terminal block. Load: 60kg.



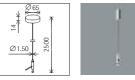
12681.000 Wire rope suspension Wire rope: ø 1.50mm, L 2,500mm. Mounting bush: metal. Canopy: plastic, white, ø 65mm, H 63mm. Cable entry for 3x1.5mm² plasticcoated cable or spiral cable. Strain relief. Terminal block. Load: 20kg.

±510

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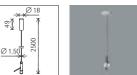


Wire rope suspension
With single-point fixing. With rapid connector for adjustment levelling. Also for suspension on profile. Profile to be drilled on-site. Wire rope: ø 1.50mm, L 2,500mm.

Ceiling fixture: cast aluminium/metal, white powder-coated. ø 18mm,



12557.000 Wire rope suspension With single-point fixing and rapid connector for adjustment levelling. Wire rope: Ø 1.50mm, L 2,500mm. Ceiling fixture: cast aluminium/metal, white powder-coated. ø 18mm, H 49mm Load 20kg (with heavy load dowel).



12503.000 Monopoll Intermediate suspension for 2-lamp luminaires. Wire rope with mounting bush.

Ø 1.50mm, L 2,550mm.

Canopy: metal, white powder-coated.

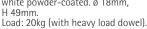
Ø 65mm, H 14mm. Ceiling fixture: cast aluminium/metal, white powdercoated. Subsequent installation.





₽₽

Ø 1.50





Spotlights, floodlights and wallwashers for track



Spotlights bring flexible light to architecture: The most important characteristic is mobility, both when positioning on track and when aligning. Its primary application is accent lighting. The ERCO spotlight ranges feature different power ranges and detailed solutions for each particular area of application. Each range consists of luminaires with different beam characteristics, types of lamps and wattages while the design features remain consistent. A wide range of accessories is also available.

			, i			*			7	
Logotec	0	Low-voltage halogen lamps High-pressure discharge lamps	114 116			121 122	123 124			
Cantax	9	LEDs Low-voltage halogen lamps High-pressure discharge lamps	132 134 136			141 142	143 144	145 146		
Emanon	-0	LEDs Low-voltage halogen lamps High-pressure discharge lamps	158 160 162	170 174	176 178	181 182	184 185	186 187		
Parscan	\$	Low-voltage halogen lamps PAR lamps High-pressure discharge lamps	193 197 199					201 202		
Eclipse	0	Low-voltage halogen lamps High-pressure discharge lamps	206 207					209 209		
TM Spotlights	0	Low-voltage halogen lamps PAR lamps High-pressure discharge lamps	212 213 214							

Spotlights, floodlights and wallwashers for track

			<i>></i>				•		7	
					CV					
Domotec	6	PAR lamps	219							
Quinta	5.6	Low-voltage halogen lamps Tungsten halogen lamps High-pressure discharge lamps	223			229		230		
	8		224					230		
Jilly	- 445	Low-voltage halogen lamps Tungsten halogen lamps PAR lamps	235			237				
		PAR lamps High-pressure discharge lamps	236 237			238				
	3	High-pressure discharge lamps Fluorescent lamps	201			239				
Pollux	0	Low-voltage halogen lamps High-pressure discharge lamps	243 244	246 246				247 248		
Castor	-3500	Low-voltage halogen lamps	251 252			254				
	Ó	PAR lamps High-pressure discharge lamps Fluorescent lamps	252 252			254 254				
Oseris	***	Low-voltage halogen lamps High-pressure discharge lamps	257 258							
Gimbal	0	Low-voltage halogen lamps High-pressure discharge lamps	262 262							
Optec		LEDs Low-voltage halogen lamps	268 270					279	282	
		Low-voltage halogen lamps Tungsten halogen lamps High-pressure discharge lamps Fluorescent lamps	273			278		280	282 283 283	
			2/3			278 278		200	284	286
Stella	2071	Low-voltage halogen lamps PAR lamps	290 291	295				298 299		
		High-pressure discharge lamps	291 292	297				300		
New in the program		63								
		Logotec 110								

www.erco.com ERCO Program 2010/11

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Spotlights, floodlights and wallwashers



The introduction of the track resulted in a new flexibility in architectural lighting. Arranging the luminaires is no longer restricted to individual singlets since power can now be distributed along the track. For changing exhibitions, the luminaires can be easily rearranged and realigned. If a different light distribution is required, the spotlight can simply be replaced by another type of luminaire. The design of each range of lumi-naires consists of common features to allow the combination of spotlights, floodlights and wallwashers without disturbing the overall appearance of the



Flexibility

For adjustable focus on exhibits, many spotlights, floodlights and wallwashers can be rotated through 360° and tilted by up to 180°. For accurate alignment, many luminaires are also provided with an imprinted scale.



Lockability

To maintain the luminaire orientation during lamp replacement, the angle of rotation and tilt of many luminaires can be locked. Locking the beam direction means that the quality of a lighting set-up can be maintained.



DALI-compatible spotlights, floodlights, and wallwashers with a factory-set code can be fitted to the DALI track and individually dimmed as Light Clients. The luminaires in the Light System DALI can be controlled centrally via the Light Studio software. Compared with the 3-circuit installation, the DALI track has the advantage that each luminaire can be adjusted separately. The control of luminaires on the track profile with 3-circuit operation is limited to three different dimmer settings.

Track-mounted spotlights are the classical solution for display lighting, as used in shop windows.



Adapters and lighting technology



Taking system design to its logical conclusion is a characteris tic feature of the ERCO spotlight range. We never develop products in isolation but always design whole product groups that are clearly positioned within the well-defined structure of the overall product range. This includes using versatile system accessories to adapt the lighting tools to suit particular requirements. The ability to interlink digitally controllable Light Clients using the Light System DALI and the incorporation of the Light Studio software as a user interface for complex luminaire functions is an equally important part of this concept.



3-circuit adapter

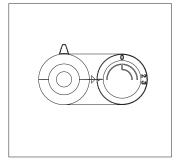
The locking lever on the adapter is used for mechanical mounting on the track and for making the electrical connection to the neutral conductor. The rotatable circuit selector switch is then used to make the electrical connection to the required phase. When turned 90° to the right or left, the contact is switched to phase 1 or 2. For phase 3, the selector switch is pulled out and then turned by 90° to position 3.



Dimming

Using the integral potentiometer on the electronic transformer, the lamp lumens can be freely dimmed between 100% and 10%. This allows individual brightness adjustments without requiring a lighting control system. When using different light scenes, a central control option via a lighting control system proves more convenient.

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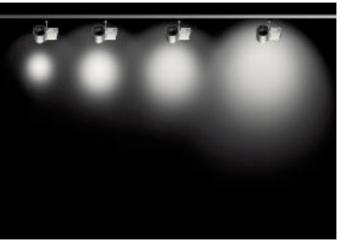




DALI adapters

Transadapters

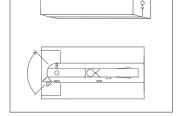
When using a DALI adapter, the lever is initially locked and then the necessary contacts for power and DALI signal are made by turning the DALI switch. With the DALI adapter, the voltage is permanently applied. It is the DALI signal that first triggers an action, e.g. switching on a luminaire



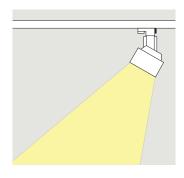
Luminaires with transformers or control gear for fluorescent or high-pressure lamps either have a transadapter or a DALI transadapter. Every Light Client with DALI adapter or DALI transadapter is specially protected against potential overvoltage associated with running three circuits.



To ensure optimal illumination of both large and small objects. the spotlights are available with different beam angles. This allows designers to select the size that suits the distance to the object. The range of beam angles extends from narrow spot (< 10°) to spot (10°-20°), flood (25°-35°) and wide flood (> 45°).



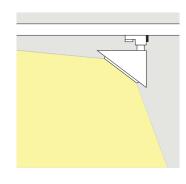
Types of lighting and lighting technology





Spotlights

Spotlights with a narrow to wide beam, rotationally symmetrical light distribution are used to accentuate objects. To ensure accurate alignment, they can be rotated and tilted. The light distribution can be individually adjusted using the lenses available as accessories.





Wallwashers

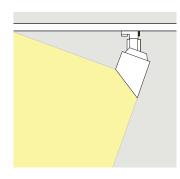
The characteristic feature of wallwashers is a light distribution which directs the light both onto vertical surfaces and onto the area in front of the wall.





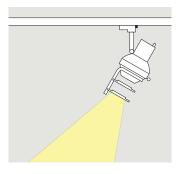
Floodlights

Floodlights produce a wide beam light distribution for uniform ambient lighting. They are available with a symmetrical or axially symmetrical light distribution.





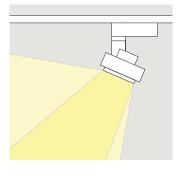
Lens wallwashers The asymmetrical light distribution of the wallwashers ensures a very uniform wall illumination by distributing light through a lens. An additional reflector on the wallwasher attachment increases the light in the area at the top of the wall. The lens wallwashers can simply be tilted to suit specific wall heights.





Projector spotlights

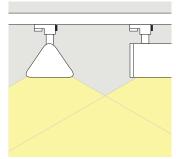
Spotlights with an additional lens system are used to project patterns or shapes through gobos. They are suitable for decorative lighting effects as well as for the projection of text or image infor-





Spherolit wallwashers

The asymmetrical light distribution of the Spherolit wallwasher with Spherolit reflector ensures a uniform wall illumination with focal emphasis on the upper third of the wall. The Spherolit wallwashers can simply be tilted to suit specific wall heights.



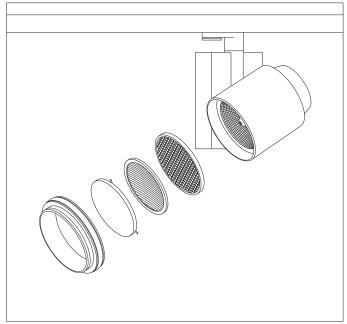


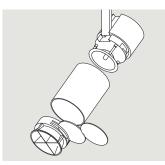
Luminaires

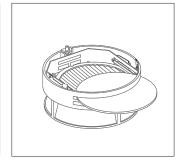
The luminaires for tracks are fitted with fluorescent lamps to produce a wide beam light distribution for ambient lighting. Louvres improve the visual comfort when viewed from the side.

Accessories

For optimal adjustment of accent lighting to suit a particular lighting situation, the spotlights can be fitted with appropriate accessories. These accessories can be mounted in two ways: they can be attached to the luminaire housing or fitted internally. The lenses or filters are easily and quickly attached or replaced. Attached to the outside, the accessories express the technical design, while the different lighting technologies are indicated on the luminaire.







Accessories which are contained within the luminaire ensure a consistent appearance of all luminaires - irrespective of whether or gives the ceiling ă discreet, consistent appearance with inconspicuous luminaires.















Lenses allow the lighting designer to change the light distribution of luminaires, modify the beam angle or provide beams with softer edges. The light spectrum remains unchanged. Softec lenses used with reflector lamps eliminate striations, while flood lenses distribute the light beam symmetrically. Sculpture lenses extend the beam along one axis, while leaving it unchanged on the other. The oval light pattern is ideal for the illumination of sculptures.



Filters Filters change the spectrum of the light. Colour filters are used for attraction or for decorative purposes. The effect of correction filters is rather more subtle. They can be used to change the light spectrum to a small degree in order, for example, to raise the colour temperature from warm white to daylight white. In case of sensitive exhibits, the works of art can be protected against harmful spectral components by using UV and IR filters. The food filter changes the composition of the spectrum so that meat and sausages in particular look fresh and appetising.



Visual comfort

The fascination of some lighting installations is their hidden light sources with appropriately glare-free luminaires and exceptional visual comfort. Most spotlights include features to ensure glare protection. The anti-dazzle cap attached to the safety glass conceals the lamp from direct view. The alternative is an internal antidazzle screen which reduces the glare by obscuring the view of the reflector and the lamp. Where special situations require even higher visual comfort, ERCO provides honeycomb anti-dazzle screens, anti-dazzle rings or separately adjustable barn doors as accessories.

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for lighting solutions that are integrated into the ceiling.

Featuring Spherolit technology, Logotec not only produces a superior quality of light, but also a range of rotationally symmetrical and asymmetrical light distributions.

The Logotec range of spotlights excels due to efficient lighting technology, a clear use of forms, a sturdy design and excellent userfriendliness. The innovative Spher-olit technology has resulted in highly uniform light beams with a slightly soft edge and a high light output ratio. The Logotec system structure is particularly optimised for the special requirements of sales area lighting and is a costefficient option for effective planning and design. The attachments with bayonet fixing for quick lamp replacement without tools hold the mirror-finish Spherolit reflectors. The range includes varieties from narrow spot to wide flood for accentuation and even a floodlight or Spherolit wallwasher for vertical illuminance. This makes Logotec a lighting tool for a wide range of uses, specifically in sales areas. The metal halide lamps are effective and efficient lighting options for the designer. Anti-dazzle rings ensure excellent visual comfort.

The luminaires for low-voltage halogen lamps can be dimmed using a potentiometer at the Transadapter or controlled as Light Clients using appropriate software. The DALI-compatible luminaires have digital control gear which can address each luminaire individually for instance using the ERCO Light System DALI with its integral ERCO Light Studio software. Logotec is also available as recessed spotlight

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Logotec for track



The Logotec range includes spotlights, floodlights and Spherolit wallwashers in two sizes. The housings are made of cast aluminium and powder-coated in white and silver. The electrical connection is made using a Transadapter. DAL1-compatible luminaires feature a DAL1 transadapter. Amongst the accessories are colour filters and filters to reduce both IR and UV radiation.

Spotlights



Logotec spotlights have attachments that can be removed without tools for quick lamp replacement. The various Spherolit reflectors produce very narrow to wide light distribution. The spotlight range in two sizes features low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W.

Application

Very narrow to wide beam, rotationally symmetrical light distribution for accent lighting in sales and promotional areas and in private residences.

Floodlights



The floodlights with the Spherolit oval flood reflector are shaped so that they produce an axially symmetrical light distribution for floodlighting. The floodlights are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W.

Application

Axially symmetrical light distribution with flood characteristics for background floodlighting in shop windows and exhibitions as well as for all presentation and display areas in sales areas, multifunction rooms and private residences.

Spherolit wallwashers



With the Spherolit technique for wallwashing, the reflectors are formed so as to produce an asymmetrical light distribution for wallwashing with focal emphasis in the upper area of the wall. The Spherolit wallwashers are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W.

Application

Asymmetrical light distribution for wallwashing with focal emphasis in the upper area, for applications including sales and promotional areas.

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Logotec for track

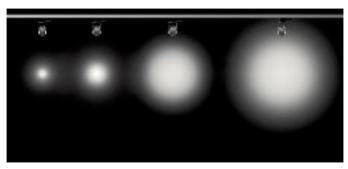


Design The clean lines of the Logotec luminaires emphasise their essential character as particularly economical and uncomplicated lighting tools. They are, nevertheless, uncompromisingly designed in terms of lighting quality, functionality and durability. The balanced proportions and neutral, smoothsurfaced design mean that the compact housings are ideal for every ambience. The sturdy hinges, powder-coated, cast-aluminium bracket and housing make Logotec a valuable investment.





Logotec is available in two colours: white or silver.













Spot The standard characteristic for accentuating all kinds of objects, especially for bringing out the three-dimensional shape. Beam angle 10°-20°



Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.



Wide flood To provide flex-ible floodlighting for surfaces and room areas, specifically for the presentation of merchandise. Beam angle > 45°.

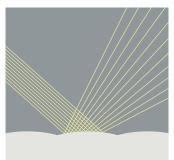


Floodlights The Spherolit reflector oval flood has a widebeam, axially symmetrical light distribution, producing an oval-shaped beam with a beam angle of approx. 30° to approx. 90°.



Spherolit wallwashers In terms of its basic dimensions, the innovative Spherolit reflector wallwash is the same as other spotlight reflectors. A Softec lens ensures soft transitions to the beam.

Logotec for track



Spherolit reflectors The innovative, patented Spherolit reflectors are ideal for the creation of brilliant light with an evenly distrib-uted brightness pattern. Their surfaces consist of computer-calculated, spherically domed segments.



Anti-dazzle ring The black plastic anti-dazzle ring provides optimum visual comfort. Together with the reflector, it forms a single unit that attaches to the spotlight housing with a bayonet fixing.



Lamp replacement Lamp replace-ment is simplified as the anti-dazzle ring and reflector form a unit which is com-pletely removable. In the versions for metal halide lamps, this means that the reflector's lamp aper-



ture is optimised Joint and for maximum bracket Logotec lumi-naires have robust mechanisms and a particularly wide range of tilt: they luminous flux. can be tilted up to 90° and rotated through 360°. The

track adapter and

housing are elec-



trically connected using an exposed cable.



Logotec spot-lights for lowvoltage halogen lamps have a new design of anti-dazzle cap. It consists of coiled wire and provides high visual comfort.



Logotec Spherolit wallwashers are fitted with a Softec lens as cover glass, for optimum uniformity of the vertical illuminance.



Potentiometer The low-voltage transadapter can be dimmed using trailing-edge dimmers. An internal potentiometer allows each spotlight to be adjusted independently.



rectly.



DALI PLUG+ **PLAY**

Logotec Light Clients Many spotlights in the Logotec product range are available as Light Clients, i.e. with DALI-compatible, factory encoded control gear. They are automatically recognised by Light System DALI (plug and play).





Note: Logotec recessed spotlights begin on page 368.



Logotec Spotlight with transadapter for low-voltage halogen lamps





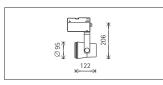


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Anti-dazzle ring: plastic, black. Use dimmers for electronic transformers (trailing edge).

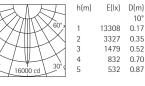
Accessories page 119

72402.000 White (RAL9002) 72452.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, narrow spot Anti-dazzle cap

Weight 0.80kg LMF D



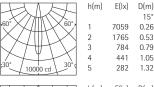




72403.000 White (RAL9002) **72453.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, spot Anti-dazzle cap

Weight 0.80kg LMF D

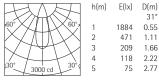




72404.000 White (RAL9002) **72454.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, flood Anti-dazzle cap

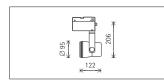
Weight 0.80kg LMF D



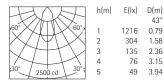


72405.000 White (RAL9002) 72455.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, wide flood

Weight 0.80kg LMF D













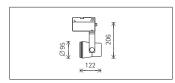
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Anti-dazzle ring: plastic, black. Softec lens.

Use dimmers for electronic transformers (trailing edge).

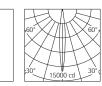
Accessories page 119

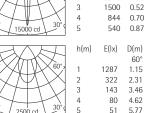
72400.000 White (RAL9002) **72450.000** Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Weight 0.85kg LMF_E









E(Ix) D(m)

13500 0.17

3375 0.35

10°

h(m)

	HAVAH	h(m)	E(Ix)
	60°	1	1287
І Д І		2	322
		3	143
		4	80
QR-CBC51-RE	30° 2500 cd 30°	5	51

ERCO Program 2010/11 www.erco.com

Logotec Spotlight with transadapter for low-voltage halogen lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Anti-dazzle ring: plastic, black. Use dimmers for electronic transformers (trailing edge). Accessories page 120

72414.000 White (RAL9002) **72464.000** Silver
0T12-ax 100W 12V GY6.35 2200Im
Spherolit reflector, narrow spot
Anti-dazzle cap

Weight 1.45kg LMF D

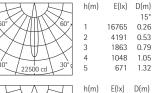
750 × 161 ×

OT12-ax

h(m) E(lx) D(m) 7°
1 58375 0.12
2 14594 0.24
3 6486 0.37
4 3648 0.49
5 2335 0.61

72415.000 White (RAL9002) **72465.000** Silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Anti-dazzle cap

QT12-ax



28°

0.50

1298 1.00

577 1.50

325 1.99

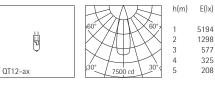
208 249

72416.000 White (RAL9002) 72466.000 Silver 0T12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Anti-dazzle cap Weight 1.45kg LMF D

161 × 161 ×

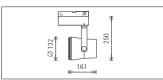
161

250

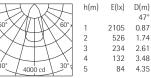


72417.000 White (RAL9002) **72467.000** Silver OT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood

Weight 1.45kg LMF D







Logotec Spotlight with DALI transadapter for low-voltage halogen lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°.

Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

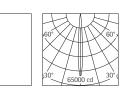
Reflectór: aluminium, silver, mirrorfinish anodised. Anti-dazzle ring: plastic, black. Accessories page 120

72420.000 White (RAL9002) DALI 72470.000 Silver DALI 0T12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Anti-dazzle cap

Weight 1.70kg LMF D

DALI PLUG+ PLAY

QT12-ax



58375 0.12 2 14594 0.24 3 6486 0.37 3648 0.49 2335 0.61 E(Ix) D(m) 15° 6765 0.26

h(m)

E(lx) D(m)

0.53

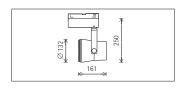
0.79

115

671 1.32

72421.000 White (RAL9002) DALI **72471.000** Silver DALI 0T12-ax 100W 12V GY6.35 2200Im Spherolit reflector, spot Anti-dazzle cap

Weight 1.70kg LMF D





41/	\vdash	h(m)	E(Ix)
60°	60°,	1	16765
$\bigvee / \prod \bigvee$	\times	2	4191
W 71117 \		3	1863
	1	4	1048
30° 22500 cd	30°	5	671

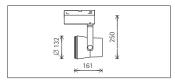
Logotec Spotlight with DALI transadapter for low-voltage halogen lamps

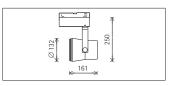
72422.000 White (RAL9002) DALI 72472.000 Silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Anti-dazzle cap

72423.000 White (RAL9002) DALI **72473.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood

Weight 1.70kg LMF D











E(Ix) D(m) h(m) 28° 5194 0.50 1298 1.00 4 325 1.99 208 2.49

47°

0.87

1.74

3.48

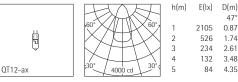
0.14

0.28

0.42

0.56

0.70



Logotec Spotlight with transadapter for metal halide lamps





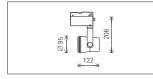


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

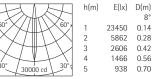
Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Anti-dazzle ring: plastic, black. Accessories page 119

72408.000 White (RAL9002) ECG **72458.000** Silver ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, narrow spot

Weight 0.85kg LMF C

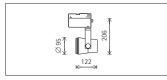




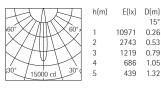


72409.000 White (RAL9002) ECG **72459.000** Silver ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, spot

Weight 0.85kg LMF C

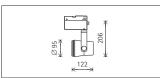




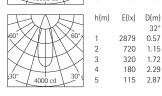


72410.000 White (RAL9002) ECG **72460.000** Silver ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, flood

Weight 0.85kg LMF C

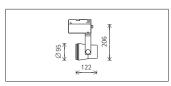






72411.000 White (RAL9002) ECG **72461.000** Silver ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, wide flood

Weight 0.85kg LMF C





7312	h(m)	E(Ix)	D(m) 43°
,60° X 60°,	1	1470	0.79
\times	2	368	1.58
(XHX)	2	163	2.36
$X \downarrow \downarrow X$	4	92	3.15
300° cd 30° cd	5	59	3.94

ERCO Program 2010/11 www.erco.com

Logotec Spotlight with transadapter for metal halide lamps





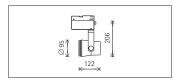


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Anti-dazzle ring: plastic, black. Softec

72401.000 White (RAL9002) ECG **72451.000** Silver ECG HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°

Weight 0.85kg LMF E







h(m) E(Ix) D(m) 10° 9900 0.17 2475 2 0.35 1100 0.52 619 0.70 5 396 0.87

> E(Ix) D(m)

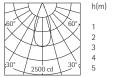
> 1530 0.73

382 1.46 170 2.18 96 2.91

61 3.64

40°









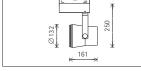




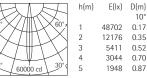
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on . transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector: aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle ring: plastic, black. Accessories page 120

72426.000 White (RAL9002) ECG **72476.000** Silver ECG HIT-CE 35W G12 3500lm Spherolit reflector, narrow spot

Weight 1.80kg LMF C

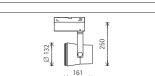






72427.000 White (RAL9002) ECG **72477.000** Silver ECG HIT-CE 35W G12 3500lm Spherolit reflector, spot

Weight 1.80kg LMF C





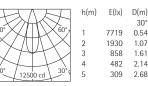


72428.000 White (RAL9002) ECG **72478.000** Silver ECG HIT-CE 35W G12 3500lm Spherolit reflector, flood

Weight 1.80kg LMF C

250 161



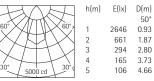


72429.000 White (RAL9002) ECG **72479.000** Silver ECG HIT-CE 35W G12 3500lm Spherolit reflector, wide flood

Weight 1.80kg LMF C

250 161

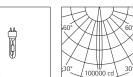




72440.000 White (RAL9002) ECG **72490.000** Silver ECG HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

Weight 1.80kg LMF C

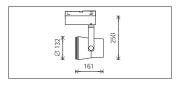
250 161 HIT-CE



h(m) E(Ix) D(m) 93782 0.16 2 23445 0.31 3 10420 0.47 5 3751 0.79 E(Ix) D(m) h(m)

72441.000 White (RAL9002) ECG **72491.000** Silver ECG HIT-CE 70W G12 7300lm Spherolit reflector, spot

Weight 1.80kg LMF C





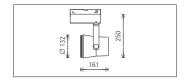


40010 0.30 2 10003 0.60 4446 3 0.90 2501 1.20 1600 1.49

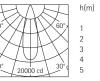
Logotec Spotlight with transadapter for metal halide lamps

72442.000 White (RAL9002) ECG **72492.000** Silver ECG HIT-CE 70W G12 7300lm Spherolit reflector, flood

Weight 1.80kg LMF C



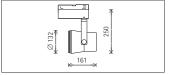




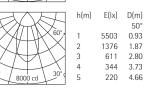
h(m) E(lx) D(m)
29°
1 15335 0.52
2 3834 1.03
3 1704 1.55
4 958 2.07
5 613 2.59

72443.000 White (RAL9002) ECG **72493.000** Silver ECG HIT-CE 70W G12 7300Im Spherolit reflector, wide flood

Weight 1.80kg LMF C









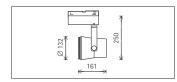




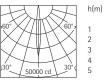
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Anti-dazzle ring: plastic, black.

72438.000 White (RAL9002) ECG **72488.000** Silver ECG HIR111-CE-P 35W GX8,5 10° HIR111-CE-P 35W GX8,5 40°

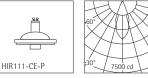
Weight 1.80kg LMF D

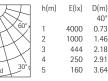






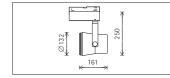






72439.000 White (RAL9002) ECG **72489.000** Silver ECG HIR111-CE-P 70W GX8,5 10° HIR111-CE-P 70W GX8,5 40°

Weight 1.80kg LMF D













h(m) E(lx) D(m) 40° 1 6500 0.73 2 1625 1.46 3 722 2.18 4 406 2.91 5 260 3.64

Logotec Spotlight with DALI transadapter for metal halide lamps







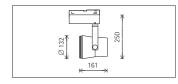
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°.

360°.
Only for ceiling mounting.
ERCO DALI Transadapter for DALI track:
plastic. Electronic control gear, switchable, with plug and play connectivity.
Reflector: aluminium, silver, mirrorfinish anodised. Safety glass.
Anti-dazzle ring: plastic, black.
Accessories page 120

72432.000 White (RAL9002) ECG DALI **72482.000** Silver ECG DALI HIT-CE 35W G12 3500Im Spherolit reflector, narrow spot

Weight 1.80kg LMF D

PLUG+ PLAY







	h(m)	E(Ix)	D(m) 10°
1	1	48702	0.17
	2	12176	0.35
1	3	5411	0.52
	4	3044	0.70
1	5	1948	0.87

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Logotec Spotlight with DALI transadapter for metal halide lamps

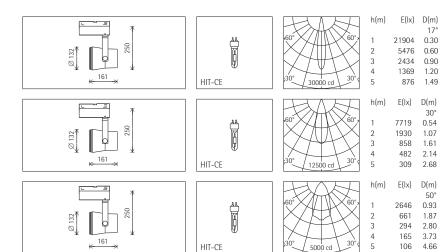
72433.000 White (RAL9002) ECG DALI **72483.000** Silver ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, spot

Weight 1.80kg LMF D

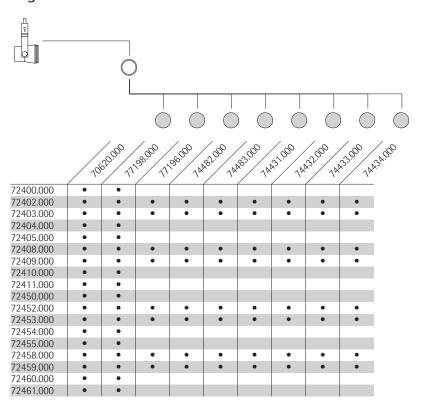
Weight 1.80kg LMF D 72434.000 White (RAL9002) ECG DALI **72484.000** Silver ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, flood

72435.000 White (RAL9002) ECG DALI **72485.000** Silver ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, wide flood

Weight 1.80kg LMF D



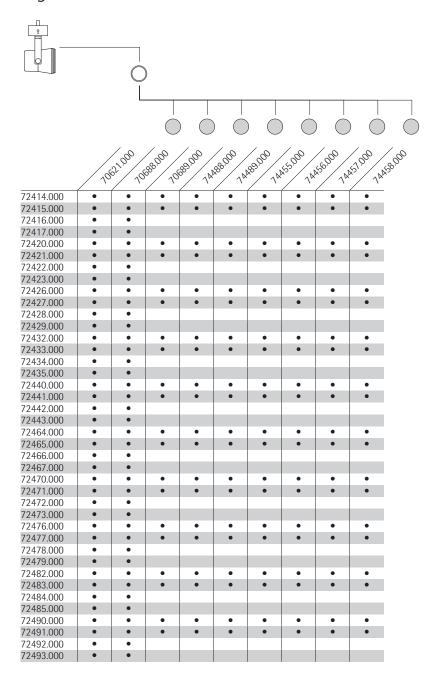
Logotec Accessories



www.erco.com ERCO Program 2010/11

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Logotec Accessories





70688.000 77198.000 UV filter



70689.000 77196.000 IR filter



74482.000 74488.000 Skintone filter



74483.000 74489.000Daylight conversion filter



74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue



74434.000 74458.000 Interference colour filter Night blue



70620.000 70621.000 Filter holder Plastic.

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Logotec Floodlight with transadapter for low-voltage halogen lamps





Spherolit reflector, oval flood

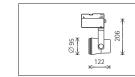




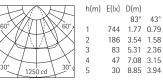
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens.

Anti-dazzle ring: plastic, black.
Use dimmers for electronic transformers (trailing edge).

Accessories page 123







Accessories page 123



72418.000 White (RAL9002) 72468.000 Silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, oval flood



Weight 1.50kg LMF C

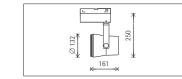
Weight 0.85kg LMF C



Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens. Anti-dazzle ring: plastic, black.
Use dimmers for electronic transformers (trailing edge).



h(m) E(lx) D(m) 84° 39° 1430 1.80 0.71 357 3.60 1.42 2 3 159 5.40 2.12 89 7.20 2.83 57 9.00 3.54





Logotec Floodlight with DALI transadapter for low-voltage halogen lamps



72424.000 White (RAL9002) DALI **72474.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, oval flood



DALI PLUG+ PLAY



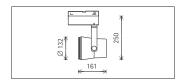
Weight 1.75kg LMF D



230/240/12V, with plug and play connectivity.
Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens. Anti-dazzle ring: plastic, black. Accessories page 123

Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic transformer,

Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through



360°





h(m) E(lx) D(m) 84° 39° 1430 1.80 0.71 2 357 3.60 1.42 3 159 5.40 2.12 89 7.20 2.83 57 9.00 3.54

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Logotec Floodlight with transadapter for metal halide lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

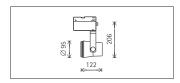
Reflector: aluminium, silver, mirror-

Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens.

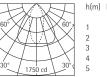
Anti-dazzle ring: plastic, black. Accessories page 123

72412.000 White (RAL9002) ECG **72462.000** Silver ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, oval flood









h(m) E(lx) D(m) 79° 42° 1 972 1.65 0.77 2 243 3.30 1.54 3 108 4.95 2.30 4 61 6.59 3.07 5 39 8.24 3.84







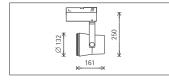
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens.

Anti-dazzle ring: plastic, black.
Accessories page 123

72430.000 White (RAL9002) ECG **72480.000** Silver ECG HIT-CE 35W G12 3500lm Spherolit reflector, oval flood

Weight 1.85kg LMF C



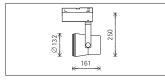




h(m) E(x) D(m) 84° 47° 1 1844 1.80 0.87 2 461 3.60 1.74 3 205 5.40 2.61 4 115 7.20 3.48 5 74 9.00 4.35

72444.000 White (RAL9002) ECG **72494.000** Silver ECG HIT-CE 70W G12 7300lm Spherolit reflector, oval flood

Weight 1.85kg LMF C







h(m) E(lx) D(m) 80° 47° 1 3781 1.68 0.87 2 945 3.36 1.74 3 420 5.03 2.61 4 236 6.71 3.48 5 151 8.39 4.35

Logotec Floodlight with DALI transadapter for metal halide lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°.

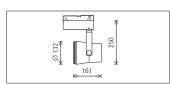
360°.
Only for ceiling mounting.
ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity.
Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens.

Anti-dazzle ring: plastic, black. Accessories page 123

72436.000 White (RAL9002) ECG DALI **72486.000** Silver ECG DALI HIT-CE 35W G12 3500Im Spherolit reflector, oval flood

Weight 1.85kg LMF D

PLUG+







	h(m)	E(Ix)	D(m)		
. `			84°	47°	
0°,	1	1844	1.80	0.87	
X	2	461	3.60	1.74	
\nearrow	3	205	5.40	2.61	
Ĭ	4	115	7.20	3.48	
0° (5	74	9.00	4.35	

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Logotec Accessories

72406.000 72412.000 72418.000 72430.000 72436.000 72446.000 72456.000 72456.000 72468.000 72468.000 72468.000 72468.000 72474.000 72486.000 72480.000 72480.000 72480.000 72480.000 72480.000 72480.000 72480.000		109	688,000	108,000	20,000	27,00
72418.000 • • • • • • • • • • • • • • • • • •	72406.000	ĺ	•	•		
72424.000 • • 72430.000 • 72436.000 • 72444.000 • 72456.000 • 72462.000 • 72462.000 • 72462.000 • 72462.000 • 72474.000 • 72480.000 • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000 • • 72486.000	72412.000		•	•		
72430.000 • • • • • • • • • • • • • • • • •	72418.000	•			•	
72436.000 • • • • • • • • • • • • • • • • • •	72424.000	•			•	
72444.000	72430.000	•			•	
72456.000	72436.000	•			•	
72462.000	72444.000	•			•	
72468.000 • • • • • • • • • • • • • • • • • •	72456.000		•	•		
72474.000 • • • 72480.000 • • • • 72486.000 • • • •	72462.000		•	•		
72480.000 • • • • • • • • • • • • • • • • •	72468.000	•			•	
72486.000 • •	72474.000	•			•	
	72480.000	•			•	
	72486.000	•			•	
72494.000	72494.000	•			•	



70688.000 77198.000 UV filter



70620.000 70621.000 Filter holder Plastic.

Logotec Spherolit wallwasher with transadapter for low-voltage halogen lamps



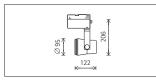






Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black. Use dimmers for electronic transformers (trailing edge).









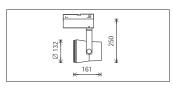
72419.000 White (RAL9002) **72469.000** Silver
0T12-ax 100W 12V GY6.35 2200lm
Spherolit reflector, wallwash



Weight 1.50kg LMF C



Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black. Use dimmers for electronic transformers (trailing edge).





 Mean illuminance E_n (lx)

 Angle of tilt 23°
 4.0

 Wall height (m)
 4.0

 Offset from wall (m)
 1.25
 1.50
 1.50

 Luminaire spacing (m)
 1.25
 1.50
 1.50
 1.75

219 183 162 140

Illuminance E_n (Ix)

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Logotec Spherolit wallwasher with DALI transadapter for low-voltage halogen lamps



72425.000 White (RAL9002) DALI **72475.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wallwash



DALI PLUG+ PLAY



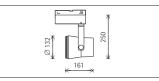
powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360° Only for ceiling mounting. ERCO DALI Transadapter for DALI

Housing and bracket: cast aluminium,

track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

Reflector: aluminium, silver, mirrorfinish anodised. Softec lens Anti-dazzle ring: plastic, black.





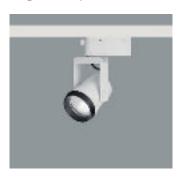


Mean illuminance E_n (lx)

Angle of tilt 23°

Wall height (m) 1.25 1.25 1.50 1.50 1.25 1.50 1.50 1.75 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 219 183 162 140

Logotec Spherolit wallwasher with transadapter for metal halide lamps





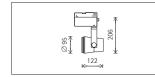


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on . transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Reflector: aluminium, silver, mirror-finish anodised. Softec lens. Anti-dazzle ring: plastic, black.

72413.000 White (RAL9002) ECG **72463.000** Silver ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, wallwash

Weight 0.90kg LMF C





Mean illuminance En (Ix)

Angle of tilt 25° Wall height (m) 1.00 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 Illuminance E_n (Ix) 197 137





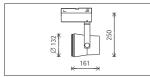


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit

pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black.



Weight 1.85kg LMF C



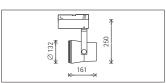


Mean illuminance En (Ix)

Angle of tilt 20° Wall height (m) 60 1.50 1.75 2.00 1.50 1.75 2.00 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 163 130 105

72445.000 White (RAL9002) ECG **72495.000** Silver ECG HIT-CE 70W G12 7300lm Spherolit reflector, wallwash

Weight 1.85kg LMF C





Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m) 1.75 2.00 2.25 Offset from wall (m) Luminaire spacing (m) 1.75 2.00 2.25 Illuminance E_n (Ix) 200 162 133

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Logotec Spherolit wallwasher with DALI transadapter for metal halide lamps





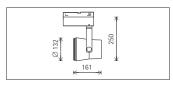




Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°.
Only for ceiling mounting.
ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens.
Anti-dazzle ring: plastic, black.

72437.000 White (RAL9002) ECG DALI **72487.000** Silver ECG DALI HIT-CE 35W G12 3500Im Spherolit reflector, wallwash

Weight 1.85kg LMF D





Mean illuminance E. (lx)

wican munimance L _n (ix)					
Angle of tilt 20°					
Wall height (m)	6.0				
Offset from wall (m)	1.50	1.75	2.00		
Luminaire spacing (m)	1.50	1.75	2.00		
Illuminance F. (Ix)	163	130	105		

125



The Cantax spotlight range combines advanced lighting technology with a design to produce distinctive architectural accent lighting. For these luminaires, the Japanese designer Naoto Fukasawa devised stylistic features that are both elegant and precise and consist of simple geometrical shapes such as cuboids and cylinders. The spatial relationships of these basic shapes, changes depending on use to create an intriguing architectural impression. Technically, Cantax represents the current status of development at ERCO and produces a quality of light that meets the highest require-ments from upmarket residential to shops, restaurants and galleries. Lamp options of different wattages and Spherolit reflectors of different beam angles allow the Cantax spotlights for low-voltage halogen lamps or metal halide lamps to be selected for specific lighting tasks. Their reflectors feature the innovative Spherolit technology which provides the options of narrow spot, spot, flood or wide flood characteristics, all from reflectors of the same size.

The Spherolit reflectors are easily replaced without tools meaning that the light distribution patterns can be changed to suit various lighting tasks. The Spherolit reflector, oval flood, gives the Cantax floodlight a wide beam angle for illuminating large zones or objects. The Spherolit wallwasher

with Spherolit reflector, wallwash, provides a focal emphasis in the upper third of the wall, for example, to enhance the visibility of shop displays. To meet the requirement of maximum uniformity and glare control for wallwashing, the Cantax range also includes lens wallwashers. For accent lighting, Cantax uses high-power LEDs with a Spherolit lens system in white and also in varychrome technology for variable colours of light. The LED varychrome luminaires have a colour compensation feature to correct the manufacturing tolerances of the coloured LEDs by calibrating the control gear. The result is that the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

DREIPUNKT furniture showroom, Cologne. Architect: Bernd Schellenberg (DREIPUNKT International). Lighting design: Stephan Haubner, Wesenlicht, Stuttgart.

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The Cantax range consists of spotlights, floodlights, Spherolit wallwashers and lens wallwashers in three sizes. The housings are cast aluminium and powder-coated black or white. The electrical connection is made using a transadapter and the wiring is all contained internally. DALI-compatible luminaires feature a DALI transadapter. The accessories include colour filters, food filters and filters to reduce both IR and UV radiation.

Spotlights



The Cantax spotlights feature Spherolit reflectors which are easily replaced without tools and can produce very narrow to wide light distribution. The three sizes can be fitted with white LEDs, varychrome LEDs, low-voltage halogen lamps up to 100W/12V or metal halide lamps up to 70W. The accessories are fitted to the light heads using a fixing ring.

Application

Very narrow to wide beam, rotationally symmetrical light distribution for accent lighting in museums, exhibitions, art galleries as well as sales areas and promotional areas.

Floodlights



The floodlights with the Spherolit reflector, oval flood, are shaped so that they produce an axially symmetric light intensity distribution for floodlighting. The floodlights are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W.

Application

Axially symmetrical light intensity distribution with flood characteristics for background floodlighting in shop windows and exhibitions as well as for all presentation and display areas in sales rooms, multifunction and private residences.

Spherolit wallwashers



With Spherolit technology for wall-washing, the reflectors are formed so as to produce an asymmetrical light distribution for wallwashing with focal emphasis in the upper area of the wall. The Spherolit wallwashers are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W.

Application

Asymmetrical light distribution for wallwashing with focal emphasis in the upper area especially of high walls, for applications including sales and promotional areas.

Lens wallwashers



The uniform wallwashing of the lens wallwasher, which meets extremely high standards of glare control, is ensured by the typical ERCO wallwasher reflector. The lens wallwashers are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W.

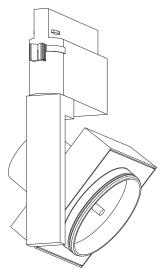
Application

Asymmetrical light distribution for very uniform wallwashing especially of high walls, for applications including museums, exhibitions and art galleries.

127



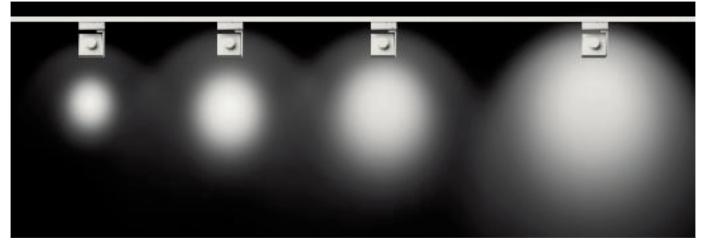
Cantax design
The design of Cantax is characterised by a reduction to cubic forms, clear lines and the contrast of cuboid and cylinder. The concept devised by designer Naoto Fukasawa distinctly embodies the Japanese tradition with its minimalist approach and preciminimalist approach and precision. The light head and bracket are flush with the transadapter for track mounting. Within the simple form there is control gear with coded information for convenient operation using light venient operation using Light System DALI.



The specially designed joints of Cantax guarantee lasting pre-cision, effortless alignment and a secure fit. The end positions are defined by stops.



The Cantax LED varychrome spotlight comprises the exclusive ERCO colour com-pensation technology and can be conveniently controlled via Light System DALI and the Light Studio software.





Narrow spot To accentuate smaller objects with high illuminance or to cover considerable distances between luminaire and object. Beam angle < 10°.



Spot The standard characteristic to accentuate all kinds of objects, specifically to model the threedimensional shape. Beam angle 10°-20°.



Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.



Wide flood To provide flexi-ble floodlighting for surfaces and room areas, spe-cifically for the presentation of merchandise. Beam angle > 45°.



Spherolit technique The Spherolit reflectors can easily be exchanged without tools. This means that the user can change the reflector with safety glass to suit different lighting tasks.











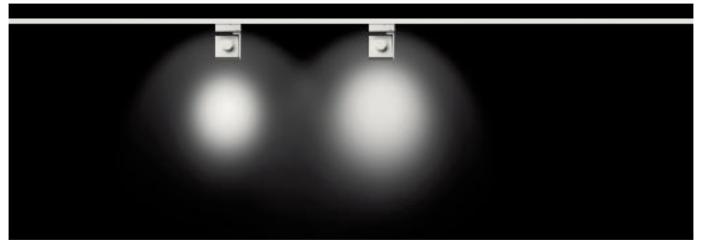
Floodlights
The oval flood
Spherolit reflector has a widebeam, axially symmetrical light distribution, pro-ducing an oval-shaped beam with a beam angle of approx. 30° to approx. 90°.



Spherolit wallwashers In terms of its basic dimensions, the innovative Spherolit reflec-tor, wallwash, is the same as other spotlight reflectors. A Softec lens replaces the clear safety glass.



wallwashers
The scoop-shaped
wallwasher attachment is a characteris-tic feature of the classic lens wallwasher technology.

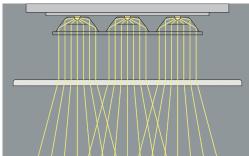


LED spotlights

SpotFor precise accent light on objects and details, specifi-cally to model the three-dimensional shape. Beam angle 10°-20°.

Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.





Lighting control The plastic colli-Ine plastic colli-mating lens designed and pro-duced by ERCO creates a paral-lel beam, while a further special lens produces the precise beam angle required.



The spot lens system features a Softec lens made of clear glass.



The flood lens system features a Spherolit lens made of clear plastic.









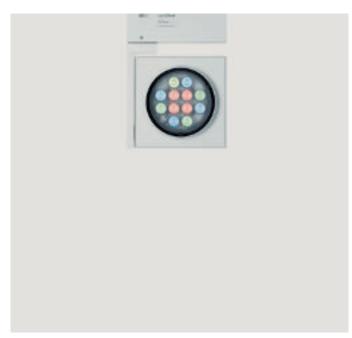
Daylight white LED spotlights in daylight white of 5500K ensure superior efficiency with acceptable colour rendition. The light colour is similar to day-light.







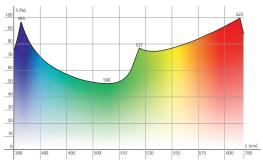
Warm white In warm white, LED spotlights have a somewhat lower light out-put ratio than in daylight white, but better colour rendition.
The light colour
of 3200K comes
close to the light of halogen lamps.



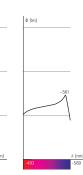
LED varychrome spotlight

Twelve high-power LEDs produce the coloured light in this Cantax spotlight. The Softec lens ensures that the three primary colours of red, green and blue are evenly mixed. The LED varychrome luminaires have a colour compensation feature to correct the manufacturing tolerances of the coloured LEDs by calibrating the LED module. The result is that the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type.

The narrow beam light distribution of the spot reflector lens system allows coloured highlighting with high colour saturation.



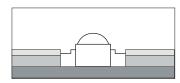
λ (mm) -463 -569



Because ERCO uses LEDs with an extremely high colour saturation in the varychrome luminaires, a particularly wide range of colours can be obtained. The saturation

diagram shows the mixed colours as wavelength λ with the saturation given as a percentage.

ERCO's varychrome LED luminaires have been optimised to produce high luminous flux with highly saturated light colours. The luminous flux diagram indicates the output of the LED module with respect to the wavelength.



LED heat management

Like other lamps, high-power LEDs generate heat. To prevent the luminous flux and life of the lamp from decreasing drastically, the maximum junction temperature must not be exceeded even during continuous operation. ERCO places particular importance on heat management in its luminaires to ensure that the LED modules remain below the critical temperature range and

operate at full output throughout their lives. Mounting the LED module directly on metalcore PCBs effectively dissipates the heat to the luminaire housing. The form, design and material of the housing all contribute to effective heat management. Extensive simulations and tests in the development phase ensure the success of the production procedures used.



LED versions: due to the rapid technological development of the LEDs, the luminance has been rising steadily. ERCO documents this improvement as a product version on the type plate of the luminaires.

Cantax Spotlight with LED and transadapter







Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Potentiometer for brightness control 0%-100%. LED function indicator. Circuit pre-selection.

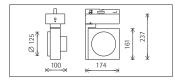
Anti-dazzle ring: cast aluminium, inside black.

Replaceable LED module: high-power LEDs on metal-core PCB.

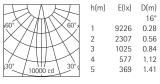
Accessories page 139

75713.000 White (RAL9002) LED daylight white **75717.000** Black LED daylight white LED 14W 1080lm 5500K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 2.10kg LMF D **%** @ @



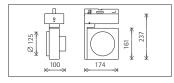




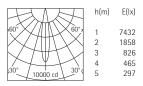
75712.000 White (RAL9002) LED warm white 75716.000 Black LED warm white LED 14W 870lm 3200K Version 2

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 2.10kg LMF D **₹**0 ♠ €

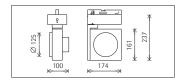




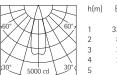


75721.000 White (RAL9002) LED daylight white 75725.000 Black LED daylight white LED 14W 1080lm 5500K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 2.10kg LMF D **%**10 🕸 🖭







E(Ix) D(m) 3380 0.52 1.03 845 376 1.55 211 2.07 135 2.59

D(m)

16°

0.28

0.56

0.84

1.12

1 41

D(m)

0.52

1.03

1.55

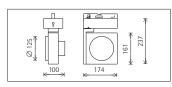
2.07

2.59

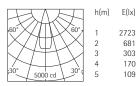
75720.000 White (RAL9002) LED warm 75724.000 Black LED warm white LED 14W 870lm 3200K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

ERCO Program 2010/11

Weight 2.10kg LMF D **%** @ @







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Cantax Spotlight with LED and DALI transadapter







Peripheral groove for fixing accessories. Bracket on DALI transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, with plug and play connectivity. Anti-dazzle ring: cast aluminium, inside

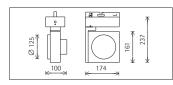
Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt.

black.
Replaceable LED module: high-power LEDs on metal-core PCB.
Accessories page 139

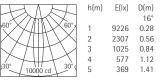


Weight 2.10kg LMF D ® @ ©

DALI PLUG+ PLAY





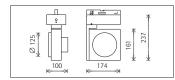


75714.000 White (RAL9002) LED warm white DALI

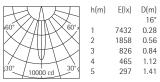
75718.000 Black LED warm white DALI LED 14W 870Im 3200K Version 2

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 2.10kg LMF D & ©

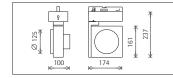




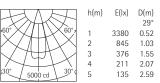


75723.000 White (RAL9002) LED daylight white DALI **75727.000** Black LED daylight white DALI LED 14W 1080Im 5500K

LED 14W 1080Im 5500K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Weight 2.10kg LMF D & & ©







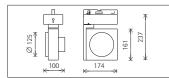
75722.000 White (RAL9002) LED warm white DALI

75726.000 Black LED warm white DALI LED 14W 870Im 3200K

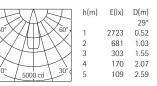
Version 2

Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 2.10kg LMF D **‰** ♠ •







Cantax Spotlight varychrome LED with DALI transadapter

DALI PLUG+ PLAY









Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on DALI transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic.

Electronic control gear, plug and play connectivity for ERCO varychrome

colour mixing.
Replaceable LED module: high-power LEDs on metallic core PCB with lens system.

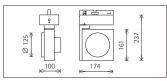
Anti-dazzle ring: cast aluminium, inside black. Softec lens. Accessories page 139



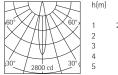
DALL LED 13W 390lm

Version 1 Colour compensation for precise light colour.









$\Lambda \vdash \downarrow \downarrow$	n(m)	E(IX)	D(m)
WAY I			16°
√ 60°	1	2070	0.28
$^{\prime}\Pi \setminus \mathcal{N}$	2	517	0.56
##	3	230	0.84
	4	129	1.12
1800 cd 30°	5	83	1.41

Primary colours LED module Colour $\Phi(lm)$ $\lambda(nm)$ Red 140 620-625

S(%) 525-530 465-470 77 97 Green 184 Blue

Cantax Spotlight with transadapter for low-voltage halogen lamps



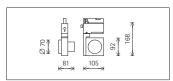




Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring.
ERCO Transadapter for 3-circuit
track: plastic. Electronic transformer
220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Anti-dazzle cone: aluminium, inside black. Softec lens. Use dimmers for electronic transformers (trailing edge).

75650.000 White (RAL9002) **75651.000** Black QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°













60° (60°)	
XXXX	
XIIX	
30° 2500 cd 30° c	

I	h(m)	E(Ix)	D(m)
			60°
60°,	1	1287	1.15
X	2	322	2.31
$\langle \ \ $	3	143	3.46
1	4	80	4.62
30°	5	51	5.77







Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessor ies. Bracket on transadapter rotatable through 360°. Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety alass.

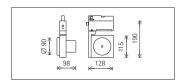
Anti-dazzle ring: cast aluminium, inside black.

Use dimmers for electronic transformers (trailing edge).

Accessories page 140

75652.000 White (RAL9002) **75657.000** Black QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, narrow spot







HAI	
60°	60°,
\times	\mathcal{X}
XH	H
30° 2000	0 cd 30°

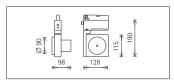
	h(m)	E(Ix)	D(m)
0°,	1	16041	0.16
N	2	4010	0.31
/	3	1782	0.47
	4	1003	0.63
0° (5	642	0.79

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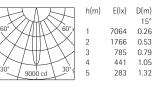
Cantax Spotlight with transadapter for low-voltage halogen lamps

75653.000 White (RAL9002) 75658.000 Black QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, spot

Weight 0.82kg LMF D **&** © 0 🗆

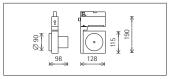




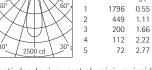


75654.000 White (RAL9002) 75659.000 Black QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, flood

Weight 0.82kg **₩** 🕸 🤓 🗀







h(m) E(Ix) D(m)





Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector replacement without tools: aluminium, silver, mirror-finish anod-

237

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Anti-dazzle ring: cast aluminium, inside black.

Use dimmers for electronic transformers (trailing edge).

Accessories page 139

75662.000 White (RAL9002) **75667.000** Black QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Anti-dazzle cap attached to safety glass.

75663.000 White (RAL9002) 75668.000 Black QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Anti-dazzle cap attached to safety alass.

75664.000 White (RAL9002) 75669.000 Black QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Anti-dazzle cap attached to safety glass.

75665.000 White (RAL9002) **75670.000** Black QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood Safety glass.

Weight 1.55kg LMF D **&** <u>@</u> 60 🗆

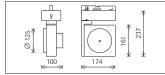
Weight 1.55kg LMF D **&** <u>@</u> @ □

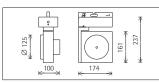
Weight 1.55kg LMF D **&** © 0 0

Weight 1.55kg LMF D **&** <u>©</u> 6 □

0 0 161 100 174

100



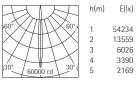












D(m)

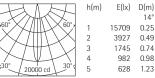
0.12

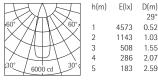
0.24

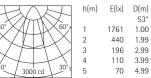
0.37

0.49

0.61







Cantax Spotlight with DALI transadapter for low-voltage halogen lamps



75672.000 White (RAL9002) DALI **75677.000** Black DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Anti-dazzle cap attached to safety glass.



PLUG+ PLAY

Weight 1.60kg LMF D

& <u>@</u> 6



125

100

Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on DALI transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised.

Anti-dazzle ring: cast aluminium, inside

237

161

174



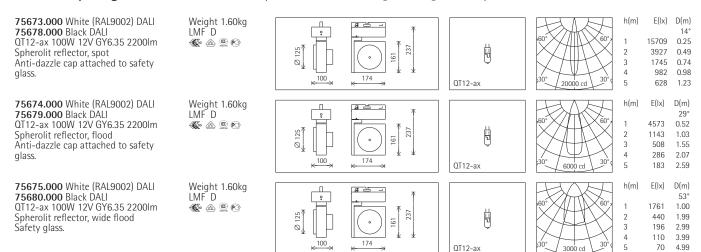
Accessories page 139



	h(m)	E(Ix)	D(m)
60°	1	54234	0.12
	2	13559 6026	0.24
30° 60000 cd 30°	4 5	3390 2169	0.49 0.61

135

Cantax Spotlight with DALI transadapter for low-voltage halogen lamps



Cantax Spotlight with transadapter for metal halide lamps





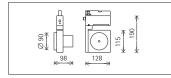


Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on transadapter rotatable through 360°. Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.
Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Safety glass.
Anti-dazzle ring: cast aluminium, inside

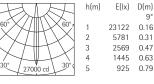
black.
Accessories page 140

75600.000 White (RAL9002) ECG **75605.000** Black ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, narrow spot



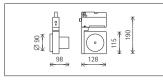




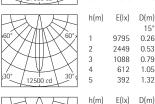


75601.000 White (RAL9002) ECG **75606.000** Black ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, spot









75602.000 White (RAL9002) ECG **75607.000** Black ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, flood

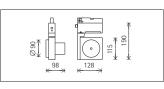
Weight 0.80kg LMF D & @ @ © □



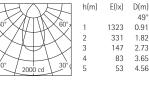


h(m) E(lx) D(m)
31°
1 2837 0.55
2 709 1.11
3 315 1.66
4 177 2.22
5 113 2.77

75603.000 White (RAL9002) ECG **75608.000** Black ECG HIT-TC-CE 20W PGJ5 1650Im Spherolit reflector, wide flood







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Cantax Spotlight with transadapter for metal halide lamps







Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on transadapter rotatable through 360°. Internal wiring. for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector replacement without tools:

aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle ring: cast aluminium, inside

black.

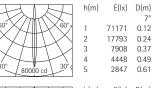
Accessories page 139

75610.000 White (RAL9002) ECG 75615.000 Black ECG HIT-CE 35W G12 3500lm Spherolit reflector, narrow spot

Weight 1.90kg LMF D **&** <u>@</u> 6

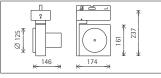
\[\begin{align*}	174
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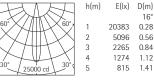


75611.000 White (RAL9002) ECG 75616.000 Black ECG HIT-CE 35W G12 3500lm Spherolit reflector, spot

Weight 1.90kg LMF D **K**10 <u>A</u>2 <u>C</u>C

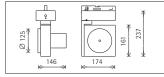




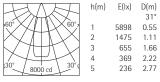


75612.000 White (RAL9002) ECG **75617.000** Black ECG HIT-CE 35W G12 3500lm Spherolit reflector, flood

Weight 1.90kg LMF D

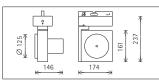




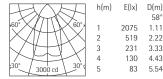


75613.000 White (RAL9002) ECG 75618.000 Black ECG HIT-CE 35W G12 3500lm Spherolit reflector, wide flood

Weight 1.90kg LMF D **&** <u>@</u> 6

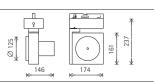




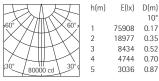


75620.000 White (RAL9002) ECG **75625.000** Black ECG HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

Weight 1.90kg LMF D **%** 6 6

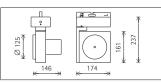




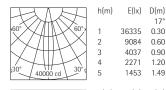


75621.000 White (RAL9002) ECG **75626.000** Black ECG HIT-CE 70W G12 7300lm Spherolit reflector, spot

Weight 1.90kg LMF D **&** <u>@</u> 6

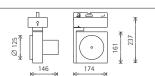




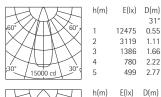


75622.000 White (RAL9002) ECG 75627.000 Black ECG HIT-CE 70W G12 7300lm Spherolit reflector, flood

Weight 1.90kg LMF D **&** <u>@</u> @

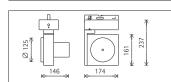




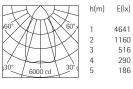


75623.000 White (RAL9002) ECG **75628.000** Black ECG HIT-CE 70W G12 7300lm Spherolit reflector, wide flood

Weight 1.90kg LMF D **₹**0 <u>@</u> @







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1.04

2.08

3.12

5.21

Cantax Spotlight with DALI transadapter for metal halide lamps







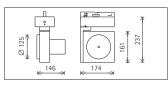
DALI PLUG+ PLAY

Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories.
Bracket on DALI transadapter rotatable through 360°. Internal wiring.
Only for ceiling mounting.
ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switch-able, with plug and play connectivity. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle ring: cast aluminium, inside black.

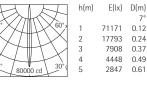
Accessories page 139

75640.000 White (RAL9002) ECG DALI **75645.000** Black ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, narrow spot



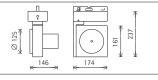




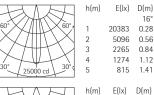


75641.000 White (RAL9002) ECG DALI **75646.000** Black ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, spot



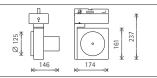




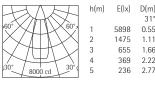


75642.000 White (RAL9002) ECG DALI **75647.000** Black ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, flood



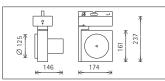




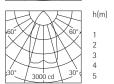


75643.000 White (RAL9002) ECG DALI 75648.000 Black ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, wide flood









E(Ix) D(m) 58° 2075 1.11 519 2.22 231 3.33 130 4.43 83 5.54

0.55

1.11

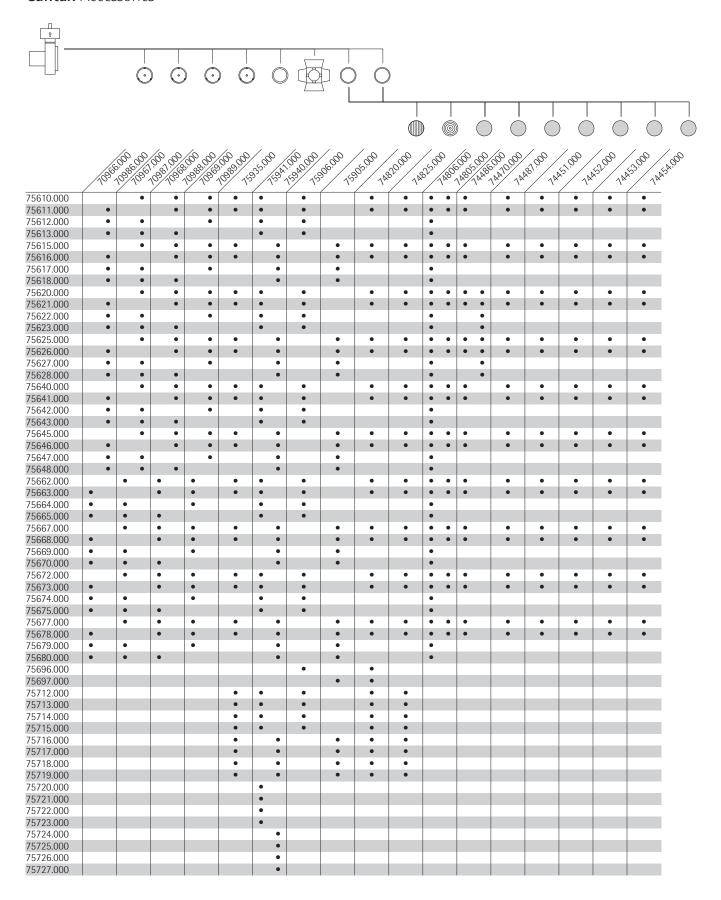
1.66

2.22



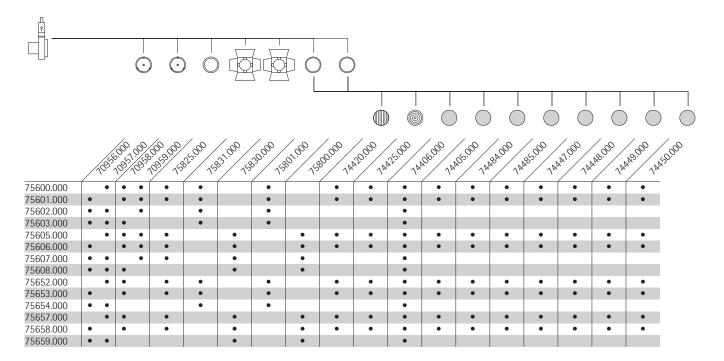
UPIM department store, Milan. Architect: UPIM/Maria Grazia Travo, Milan.

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139





70956.000
70966.000
Spherolit reflector, narrow spot
Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap attached to safety glass.



70986.000 Spherolit reflector, narrow spot Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



70957.000 70967.000 Spherolit reflector, spot Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap attached to safety glass.



70987.000 Spherolit reflector, spot Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



70958.000
70968.000
Spherolit reflector, flood
Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap attached to safety glass.



70988.000 Spherolit reflector, flood Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



70959.000 70969.000 70989.000 Spherolit reflector, wide flood Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



74420.000 74820.000 Sculpture lens



COR Interlübke works exhibition, Rheda-Wiedenbrück. Architect: kräling + lübke, Hamburg. Lighting consultant: LDE Kober, Dortmund

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Cantax Accessories



74425.000 74825.000 Flood lens



74406.000 74806.000 UV filter



74405.000 74805.000 IR filter



74484.000 74486.000 Skintone filter



74470.000 Food filter



74485.000 74487.000 Daylight conversion filter



74447.000 74451.000 Interference colour filter Magenta



74448.000 74452.000 Interference colour filter Amber



74449.000 74453.000 Interference colour filter Sky blue



74450.000 74454.000 Interference colour filter Night blue



75825.000 75935.000 Anti-dazzle ring Plastic, black.



75831.000 White 75941.000 White 75830.000 Black 75940.000 Black Barn doors Metal, powder-



75801.000 White **75906.000** White 75800.000 Black **75905.000** Black Mounting ring

Cantax Floodlight with transadapter for low-voltage halogen lamps



75706.000 White (RAL9002) 75707.000 Black QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, oval flood





Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on transadapter rotatable through 360°. Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec

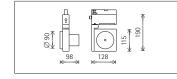
Anti-dazzle ring: cast aluminium, inside black. Use dimmers for electronic transformers (trailing edge).

Anti-dazzle ring: cast aluminium, inside

Use dimmers for electronic transformers

Accessories page 143









(trailing edge).
Accessories page 143

black.

E(Ix) D(m) h(m) 788 1.74 0.61 197 3.48 1.22 2 5.22 1.83 88 49 6.95 2.45 32 8.69 3.06



75708.000 White (RAL9002) **75709.000** Black QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, oval flood



Weight 1.55kg LMF D

% @ 🗅

Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%–100%. LED function indicator. Circuit pre-selection. Reflector replacement without tools: aluminium, silver, mirror-finish anod-

ised, adjustable through 90°. Softec

H

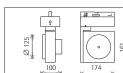
QT12-ax

237



H	h(m)	E(Ix)	D(m)	
X			77°	26°
60°	1	1763	1.59	0.46
	2	441	3.18	0.92
$\forall \lambda$	3	196	4.77	1.39
+1	4 5	110	6.36	1.85
30°	5	71	7.95	2.31

141



174

Cantax Floodlight with DALI transadapter for low-voltage halogen lamps





Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on DALI transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

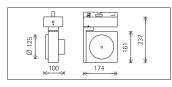
Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softee Anti-dazzle ring: cast aluminium, inside

Accessories page 143





DALI PLUG+ PLAY







E(lx) D(m) h(m) 77° 26° 1763 1.59 0.46 3.18 0.92 441 196 4.77 1.39 110 6.36 1.85 71 7.95 2.31

Cantax Floodlight with transadapter for metal halide lamps









Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessor ies. Bracket on transadapter rotatable through 360°. Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector replacement without tools:

aluminium, silver, mirror-finish anodised, adjustable through 90°. Softee

Anti-dazzle ring: cast aluminium, inside black.

Cubic housing and bracket: cast alu-

minium, powder-coated. 0°-90° tilt.

Anti-dazzle ring: cast aluminium, inside

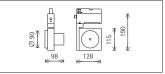
Accessories page 143



Weight 0.80kg LMF D

₩ 🕸 🕞 🗆









Accessories page 143

h(m) E(lx) D(m) 77° 40° 1003 1.59 0.73 251 3.18 1.46 4.77 2.18 111 63 6.36 2.91 40 7.95 3.64



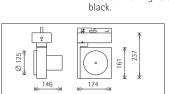


75704.000 White (RAL9002) ECG 75705.000 Black ECG HIT-CE 70W G12 7300lm Spherolit reflector, oval flood

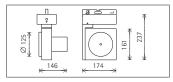
Weight 1.90kg LMF D **%** 🕸 🕑

Weight 1.90kg LMF D **&** 🕸 🖭





lens.











1	h(m)	E(Ix)	D(m)	
			89°	56°
1	1	1377	1.97	1.06
	2	344	3.93	2.13
1	3	153	5.90	3.19
	4	86	7.86	4.25
1	5	55	9.83	5.32
_		-(ı)	D()	

E(lx) D(m) h(m) 88° 2814 1.93 1.06 703 3.86 2.13 3 313 5.79 3.19 7.73 4.25 113 9.66 5.32

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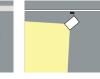
Cantax Floodlight with DALI transadapter for metal halide lamps





Weight 1.90kg LMF D

& 🕸 🖭



aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec

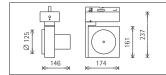
minium, powder-coated. 0°-90° tilt. Peripheral groove for fixing accessories. Bracket on DALI transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity. Reflector replacement without tools:

Cubic housing and bracket: cast alu-

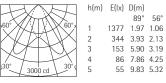
Anti-dazzle ring: cast aluminium, inside black.

Accessories see below



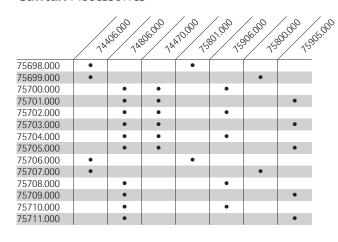






Cantax Accessories

HIT-CE 35W G12 3500lm









74406.000 74806.000

74470.000 Food filter

75801.000 White 75906.000 White 75800.000 Black 75905.000 Black Mounting ring Plastic.

Cantax Spherolit wallwasher with transadapter for low-voltage halogen lamps





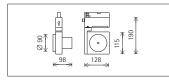


Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens. Anti-dazzle ring: cast aluminium, inside black.

Use dimmers for electronic transformers (trailing edge).

75656.000 White (RAL9002) 75661.000 Black QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, wallwash

Weight 0.82kg LMF D





Mean illuminance E_n (lx) Angle of tilt 22° Wall height (m)

1.00 1.25 1.50 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.50 89 Illuminance E_n (lx)

143

Cantax Spherolit wallwasher with transadapter for low-voltage halogen lamps





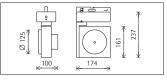


Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3–circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softee lens. Anti-dazzle ring: cast aluminium, inside Use dimmers for electronic transformers (trailing edge).

75666.000 White (RAL9002) 75671.000 Black QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wallwash





black.



Mean illuminance E_n (lx) Angle of tilt 20° Wall height (m) 60 Offset from wall (m) 1.50 1.75 2.00 Luminaire spacing (m) 1.50 1.75 2.00 Illuminance E_n (Ix) 107 87 71

Cantax Spherolit wallwasher with DALI transadapter for low-voltage halogen lamps







Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity. Reflector replacement without tools:

aluminium, silver, mirror-finish anodised. Softec lens.

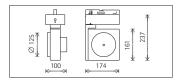
Anti-dazzle ring: cast aluminium, inside black.





DALI PLUG+

PLAY





Mean illuminance En (Ix) Angle of tilt 20° Wall height (m) 1.50 1.75 2.00 Offset from wall (m) 1.50 1.75 2.00 Luminaire spacing (m) Illuminance E_n (Ix) 107 87 71

Cantax Spherolit wallwasher with transadapter for metal halide lamps







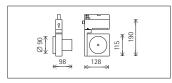
Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.
Reflector replacement without tools:

aluminium, silver, mirror-finish anodised. Softee lens.

Anti-dazzle ring: cast aluminium, inside black.

75604.000 White (RAL9002) ECG **75609.000** Black ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, wallwash







Mean illuminance E_n (lx) Angle of tilt 22° Wall height (m) 1.00 1.25 1.50 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.50 Illuminance E_n (Ix) 216 151 108

Cantax Spherolit wallwasher with transadapter for metal halide lamps



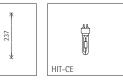




Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens.
Anti-dazzle ring: cast aluminium, inside

75614.000 White (RAL9002) ECG **75619.000** Black ECG HIT-CE 35W G12 3500lm Spherolit reflector, wallwash



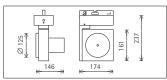


Mean illuminance E_n (Ix)

Angle of tilt 20°
Wall height (m) 6.0
Offset from wall (m) 1.50 1.75 2.00
Luminaire spacing (m) 1.50 1.75 2.00
Illuminance E_n (k) 136 111 91

75624.000 White (RAL9002) ECG **75629.000** Black ECG HIT-CE 70W G12 7300lm Spherolit reflector, wallwash

Weight 1.90kg LMF D **™** <u>@</u> <u>@</u> •



174

black.



Mean illuminance E_n (lx)

Angle of tilt 15°
Wall height (m) 8.0
Offset from wall (m) 1.75 2.00 2.25
Luminaire spacing (m) 1.75 2.00 2.25
Illuminance E_n (lx) 203 165 136

Cantax Spherolit wallwasher with DALI transadapter for metal halide lamps





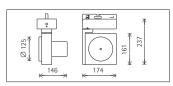


Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°. Internal wirring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens. Anti-dazzle ring: cast aluminium, inside black

75644.000 White (RAL9002) ECG DALI 75649.000 Black ECG DALI HIT-CE 35W G12 3500lm Spherolit reflector, wallwash



DALI PLUG+ PLAY





Mean illuminance E_n (Ix) Angle of tilt 20°

Angle of tilt 20'
Wall height (m) 6.0
Offset from wall (m) 1.50 1.75 2.00
Luminaire spacing (m) 1.50 1.75 2.00
Illuminance E_n (k) 136 111 91

Cantax Lens wallwasher with transadapter for low-voltage halogen lamps







Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens

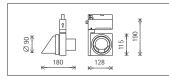
with reflector: aluminium, silver anodised.

Use dimmers for electronic transformers (trailing edge).

Accessories page 148

75682.000 White (RAL9002) **75683.000** Black QT12-ax-RE 50W 12V GY6.35 1250lm

Weight 1.12kg LMF D **W** <u>A</u> <u>©</u> • □





Mean illuminance E_n (Ix)

145

Cantax Lens wallwasher with transadapter for low-voltage halogen lamps



QT12-ax 100W 12V GY6.35 2200lm

75685.000 Black





Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast alu-

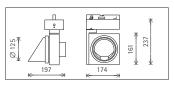
minium, powder-coated. Spread lens

with reflector: aluminium, silver anodised. Use dimmers for electronic transformers

(trailing edge). Accessories page 148

Weight 2.01kg LMF D

& <u>@</u> @ □





Mean illuminance E_n (lx)

Angle of tilt 15°

Wall height (m)

Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 182 146 123 103

Cantax Lens wallwasher with DALI transadapter for low-voltage halogen lamps



75686.000 White (RAL9002) DALI 75687.000 Black DALI QT12-ax 100W 12V GY6.35 2200lm



DALI PLUG+ PLAY



Weight 2.06kg LMF D **4** <u>6</u> <u>6</u> <u>6</u>



Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. through 360°. Internal wiring.
Only for ceiling mounting.
ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

237

161



Accessories page 148

Mean illuminance En (Ix)

Angle of tilt 15°

Wall height (m)

1.00 1.00 1.25 1.25 Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 182 146 123 103

Cantax Lens wallwasher with transadapter for metal halide lamps



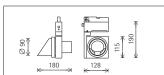
75688.000 White (RAL9002) ECG **75689.000** Black ECG HIT-TC-CE 20W PGJ5 1650lm



Weight 1.10kg LMF D



ised. Accessories page 148





Mean illuminance E_n (lx)

Angle of tilt 20° Wall height (m)

1.00 1.00 1.25 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 142 113 92

Cantax Lens wallwasher with transadapter for metal halide lamps







Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

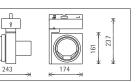
Spherolit reflector, narrow spot: alu-

Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised.

Accessories page 148

75690.000 White (RAL9002) ECG **75691.000** Black ECG HIT-CE 35W G12 3500Im



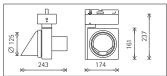




Mean illuminance E_n (lx)

75694.000 White (RAL9002) ECG **75695.000** Black ECG HIT-CE 70W G12 7300lm

Weight 2.36kg LMF D **™** <u>@</u> <u>@</u> •





Mean illuminance E_n (lx)

Cantax Lens wallwasher with DALI transadapter for metal halide lamps





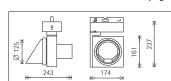


Cubic housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°. Internal wirring. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Accessories page 148

75692.000 White (RAL9002) ECG DALI **75693.000** Black ECG DALI HIT-CE 35W G12 3500Im



DALI PLUG+ PLAY





Mean illuminance E_n (lx)

Angle of tilt 15°
Wall height (m)
Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (k)
4.0
4.0
1.00
1.00
1.25
1.25
1.25
1.50

147

Combining the latest developments from ERCO's lighting technology with the minimalist design of Naoto Fukasawa: the Cantax spotlight series.



Cantax Accessories

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75695.000	•		•			•		•		•		•		•		•	







70689.000 77196.000 IR filter



74482.000 74488.000 Skintone filter



74483.000 74489.000 Daylight conversion filter



74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue



74434.000 74458.000 Interference colour filter Night blue



Light has long been used as a component of design to produce effective highlights particularly in the retail sector. Lighting equipment such as the Emanon range of spotlights combine innovative lighting technology with digital control electronics resulting in an entirely new, creative scope for scenographic lighting concepts. Shops and shop windows become a stage with possibilities previously the reserve of event and show lighting: Emanon includes a variety of spotlights with different beam angles and a wide range of accessories, along with high-quality wallwashers, LED lu-minaires, and projector spotlights. As an exceptional feature in the ERCO Program, even digitally addressable Goborotators for dynamic projection effects are available. The distinct integral shape, which is characteristic of all Emanon spot-lights, is the brainchild of designer Ives Béhar. The consistent element is a lighting technology module of cast aluminium. This is thermally separated from the electronic control gear and contained in housings made of two plastic shells. The structured surface indicates that the spotlights can be touched and aligned without a problem even when in operation. Optimal heat dissipation is ensured by the concentric ventilation slots on the back of the housing. The options of low-voltage halogen lamps, metal halide lamps and high-pressure

sodium vapour lamp in different wattages and of Spherolit reflectors with different beam angles make the Emanon spotlights ideal for specific lighting tasks. Their reflectors feature the innovative Spherolit technology which provides the options of narrow spot, spot, flood or wide-flood characteristics, all from reflectors of the same size. The Spherolit reflectors are easily replaced without tools meaning that the light distribution patterns can be changed to suit various lighting tasks

The Spherolit reflector, oval flood, gives the Emanon floodlight a wide beam angle for light-ing large zones or objects. The Spherolit wallwasher with Spherolit reflector, wallwash, produces a focal emphasis in the upper third of the wall, for example, to enhance the visibility of shop displays. To meet the requirement of maximum uniformity and glare control for wallwashing, the Emanon range also includes lens wallwashers. For accent lighting, Emanon also uses high-power LÉDs with a Spherolit lens system in white and in varychrome technology for variable colours of light. The Emanon projector spotlights are available with two light distribution patterns for different applications. One of the special features in the Emanon range are the Goborotators for scenographic lighting concepts with dynamic projections. The overlapping of two rotating gobo motifs with a different sharpness and speed produces fascinating lighting effects. Vibration-free motor bearings and toothed belt drives ensure a low-noise, low-maintenance operation. This makes qualifies the Goborotator ideal for continuous use in architectural applications. The DALI-compatible luminaires feature digitally addressable control gear, which can be individually addressed to each luminaire separately, for example when using the ERCO Light System DALI and the integrated ERCO Light Studio software.

Diesel Flagship Store, Piazza San Babila, Milan. Architect: Diesel Interior Design Department, Molvena.

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The Emanon range consists of spotlights, projection spotlights, floodlights, Spherolit wallwashers and lens wallwashers in two sizes. The housings are of high-quality white plastic or with a silver coating. The electrical connection is made using a 3-circuit adapter or DALI adapter and the wiring is all contained internally. The necessary control gear is integrated into the spotlight. The accessories include colour filters, food filters and filters to reduce both IR and UV radiation.

Spotlights



The Emanon spotlights Spherolit reflectors are easily replaced without tools and have a very narrow to wide light distribution. Depending on their lamps, the luminaires are available in two sizes. They can be fitted with white LEDs, varychrome LEDs, low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 150W or high-pressure sodium vapour lamps up to 100W. The accessories are fitted to the light heads using a fixing ring.

Application

Very narrow to wide beam, rotationally symmetrical light distribution for accent lighting in museums, exhibitions, art galleries as well as sales areas and promotional areas.

Projector spotlights



Two optical systems with and without Goborotator are available for different projection applications. The projection spotlight with optical projection system has three lenses for precise gobo images with a medium beam light distribution. The projection spotlight with optical imaging system has one lens with a wide beam angle for soft-edged lighting effects using gobos. In the version without the Goborotator, four framing blades can shape the projection to a square. The Goborotator has two separately addressable motors on vibration-free bearings to rotate the gobos at speeds of four seconds to six minutes per revolution. Control is possible using either the rotary switch on the luminaire to recall 12 predefined programs, or in the DALI version via the Light Studio software.

Application

Accent effects can be produced by using individually adjustable, hard-edged beams or rectangular image mask projections. Alternatively projection of rotating gobos for precise images or soft-edged lighting effects in restaurants, cafés, wine bars, sales and promotional areas.

Floodlights



The floodlights with the Spherolit reflector, oval flood, are designed so that they produce an axially symmetric light intensity distribution for floodlighting. The floodlights are available for low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 150W or high-pressure sodium vapour lamps up to 100W.

Application

Axially symmetrical light intensity distribution with flood characteristics for background floodlighting in shop windows and exhibitions as well as for all presentation and display areas in sales rooms, multifunction and private residences.

Spherolit wallwashers



With Spherolit technology for wall-washing, the reflectors are formed so as to produce an asymmetrical light distribution for wallwashing with focal emphasis in the upper area of the wall. The Spherolit wallwashers are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 150W.

ApplicationAsymmetrical light distribution for wallwashing with focal emphasis in the upper area especially of high walls, for applications including sales and promotional areas.

Lens wallwashers



The highly uniform wallwashing of the lens wallwasher, which meets extremely high standards of glare control, is ensured by a special wallwasher reflector. The wallwashers are available for low-voltage halo-gen lamps up to 100W/12V and metal halide lamps up to 150W.

Application

Asymmetrical light distribution for very uniform wallwashing especially of high walls, for applications including museums, exhibitions and art galleries.

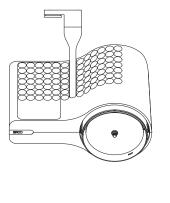
151

DREIPUNKT furniture show-room, Cologne. room, Cologne. Architect: Bernd Schellenberg (DREIPUNKT Inter-national). Lighting design: Stephan Haubner, Wesen-licht, Stuttgart.

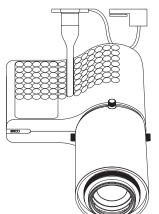


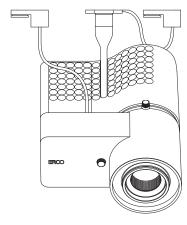


Emanon design The shape of Emanon is defined by two rounded shells with shadow gaps. Designer Yves Béhar and his Californian design office, fuseproject, devised soft stylistic features as characteristic elements to accentuate both the lighting effect and the shape of these luminaires. Innovative reflector technology and control gear with coded information extend the scope in terms of light distribution and lighting control using Light System DALI.











Emanon spotlight



Emanon lens wallwasher







Emanon projector spot-light with Goborotator medium beam, soft-edged



narrow beam, sharp-edged



narrow beam, sharp-edged





Designer Yves Béhar used a structured sur-face to indicate the handling zones on the spotlight. The heat generated by the lamp is dissipated through the ventilation grille on the back.



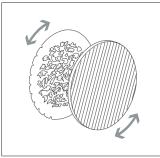
Goborotator

The Emanon projection spotlight with Goborotator can be fitted with two metal gobos, glass gobos or structure lenses (\$\times 66mm\$). The speed of rotation can be set from four seconds to four minutes. The gobos are easily exchanged. After removing the front part of the housing, the Goborotator attachment is tilted to the side. The gobos can be exchanged for other motifs without tools by removing the fixing springs. The vibration-free bearings of the motors and toothed belt drives ensure low-noise, low-maintenance operation, which makes the Goborotator ideal for continuous use in architectural applications.

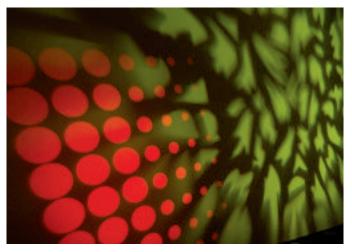
Even without a DALI lighting control system, it is possible to select twelve programs with different speeds and directions of rotation using a rotary switch on the luminaire itself. The Light System DALI with the Light Studio software gives the option of individual settings.



ERCO provides a selection of gobos with abstract structures as accessories. Since the gobos all have standard dimensions, a wide variety of other gobos can be added from other suppliers.



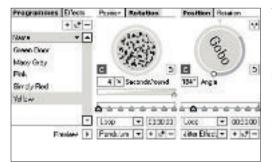
The direction of rotation of the gobos can be set separately.



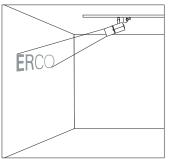
The Emanon Goborotator can be used to produce dynamic light for impressive effects in a room. By using metal gobos, glass gobos or structure lenses, the designer is able to produce a whole range of lighting effects.

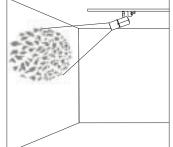
Furthermore, combining these with colour filters opens up the world of coloured scenography.

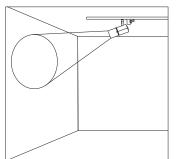
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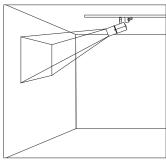


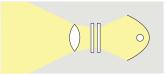
The extensive range of gobo projection options can be controlled via the Light Studio software: speed, direction of rotation, and different dynamic progressions can all be adjusted to suit specific lighting requirements.











Four framing blades can shape the circular beam or the gobo projection into a square shape.

The projection spotlight with lens system means that precise images can be produced. The three lenses produce a narrow beam light distribution for a maximum of two gobos.

The projection spotlight with optical imaging system has one lens with a wide beam angle for soft-edged lighting effects. Both projection spotlights are also available with a Goborotator.

Projector spotlight
For attractive lighting effects with static and moving patterns, lettering or sharp edged light beams, the Emanon range comprises projector spotlights in different versions.







Narrow spot To accentuate smaller objects with high illuminance or to cover considerable distances between luminaire and object. Beam angle < 10°.



Spot The standard characteristic to accentuate all kinds of objects, specifically to model the threedimensional shape. Beam angle 10°-20°.



Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.



Wide flood To provide flexi-ble floodlighting for surfaces and room areas, spe-cifically for the presentation of merchandise. Beam angle > 45°.



Spherolit technique The Spherolit reflectors can easily be exchanged without tools. This means that the user can change the reflector with safety glass to suit different lighting tasks.









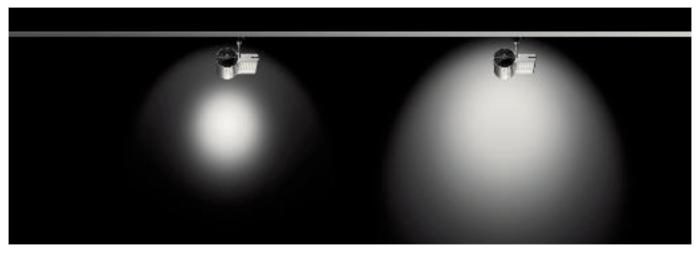
Floodlights
The oval flood
Spherolit reflector has a widebeam, axially symmetrical light distribution, pro-ducing an oval-shaped beam with a beam angle of approx. 30° to approx. 90°.







wallwashers
The scoop-shaped
wallwasher attachment is a characteris-tic feature of the classic lens wallwasher technology.

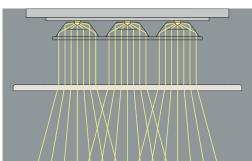


LED spotlights

Spot
For precise
accent light
on objects and
details, specifically to model
the three-dimensional shape sional shape. Beam angle 10°-20°.

Flood
For efficient
accent light on
larger objects or
for wider spread
lighting of areas
of a room. Beam angle 25°-35°.





Lighting control
The plastic collimating lens
designed and produced by ERCO
creates a parallel beam, while
a further special
lens produces lens produces the precise beam angle required.



The spot lens system features a Softec lens made of clear glass.



The flood lens system features a Spherolit lens made of clear plastic.

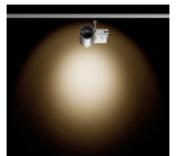








Daylight white LED spotlights in daylight white of 5500K ensure superior efficiency with acceptable colour rendition. The light colour is similar to day-light.



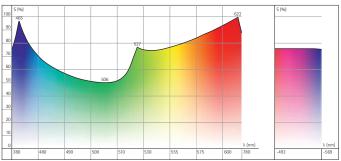




Warm white In warm white, LED spotlights have a somewhat lower light out-put ratio than in daylight white, but better colour rendition.
The light colour
of 3200K comes
close to the light of halogen lamps.



LED varychrome spotlight The LED varychrome luminaires have a colour compensation feature to correct the manufacturing tolerances of the coloured LEDs by calibrating the LED module. The result is that the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type.

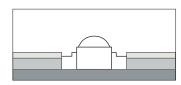


Because ERCO uses LEDs with an extremely high colour saturation in the Varychrome luminaires, a particularly wide range of colours can be obtained. The saturation

diagram shows the mixed colours as wavelength λ with the saturation given as a percentage.

ERCO's varychrome LED luminaires have been optimised to produce high luminous flux with highly saturated light colours. The luminous flux diagram indicates

the output of the LED module with respect to the wavelength.



LED heat management

Like other lamps, high-power LEDs generate heat. To prevent the luminous flux and life of the lamp from decreasing drastically, the maximum junction temperature must not be exceeded even during continuous operation. ERCO places particular importance on heat management in its luminaires to ensure that the LED modules remain below the critical temperature range and

operate at full output throughout their lives. Mounting the LED module directly on metalcore PCBs effectively dissipates the heat to the luminaire housing. The form, design and material of the housing all contribute to effective heat management. Extensive simulations and tests in the development phase ensure the success of the production procedures used.



LED versions: due to the rapid technological development of the LEDs, the luminance has been rising steadily. ERCO documents this improvement as a product version on the type plate of the lumination.

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Emanon Spotlight with LED







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic control gear. Potentiometer for brightness control 0%-100%. LED function indicator.

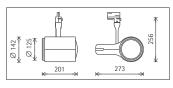
ERCO 3-circuit adapter: plastic. Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories.

Replaceable LED module: high-power LEDs on metal-core PCB.

Accessories page 167

76619.000 White (RAL9002) LED daylight white **76623.000** Silver LED daylight white LED 14W 1080lm 5500K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 2.55kg LMF D & & ©

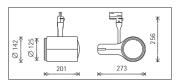




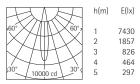
	h(m)	E(Ix)	D(m)
			16°
60°	1	9223	0.28
\mathbb{Z}/\mathbb{Z}	2	2306	0.56
K/ 74114 VJ	3	1025	0.84
	4	576	1.12
30° 10000 cd 30° s	5	369	1.41

76618.000 White (RAL9002) LED warm white **76622.000** Silver LED warm white LED 14W 870lm 3200K Version 2

Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Weight 2.55kg LMF D ©

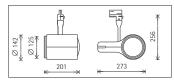




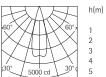


76627.000 White (RAL9002) LED daylight white **76631.000** Silver LED daylight white LED 14W 1080lm 5500K

LED 14W 1080lm 5500K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Weight 2.55kg LMF D & ©







	h(m)	E(IX)	D(m)
			29°
)°;	1	3441	0.52
V	2	860	1.03
$\overline{}$	3	382	1.55
\	4	215	2.07
)°(5	138	2.59

D(m)

16°

0.28

0.56

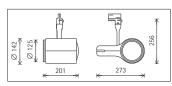
0.84

1.12

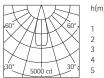
1 41

76626.000 White (RAL9002) LED warm white 76630.000 Silver LED warm white LED 14W 870Im 3200K Version 2

Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Weight 2.55kg LMF D **⋘** ▲ •







	h(m)	E(Ix)	D(m)
٦			29°
7	1	2772	0.52
$\sqrt{}$	2	693	1.03
	3	308	1.55
	4	173	2.07
°٩	5	111	2.59

Emanon Spotlight with LED and DALI adapter





Weight 2.55kg LMF D

% 🕸 🕑



PLAY



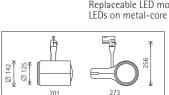
Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, ro-tatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, with plug and play connectivity.

ERCO DALI adapter for DALI track: plastic.

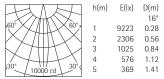
Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories.

Replaceable LED module: high-power LEDs on metal-core PCB.



201





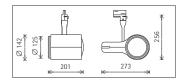
Accessories page 167

daylight white DALI 76625.000 Silver LED daylight white DALI LED 14W 1080lm 5500K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

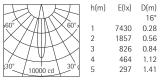
76620.000 White (RAL9002) LED warm white DALI **76624.000** Silver LED warm white DALI LED 14W 870Im 3200K Version 2

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 2.55kg LMF D **₹**10 ♠ PC



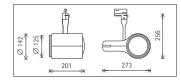




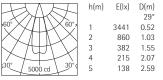
76629.000 White (RAL9002) LED daylight white DALI 76633.000 Silver LED daylight white DALI LED 14W 1080lm 5500K Version 2 Lens system, flood: collimating lens,

clear plastic. Spherolit lens, flood.

Weight 2.55kg LMF D **%**10 🕸 🖭

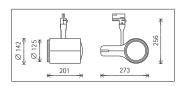




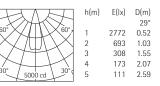


76628.000 White (RAL9002) LED warm white DALI 76632.000 Silver LED warm white DALI LED 14W 870lm 3200K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 2.55kg LMF D **₹**10 ♠ €





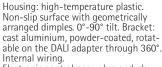


Emanon Spotlight varychrome LED with DALI adapter









Electronic control gear, plug and play connectivity for ERCO varychrome colour mixina ERCO DALI adapter for DALI track:

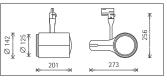
plastic. Replaceable LED module: high-power LEDs on metallic core PCB with lens

system. Anti-dazzle ring: cast aluminium, black powder-coated. Peripheral groove for fixing accessories. Softec lens. Accessories page 167

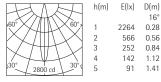


LED 13W 390lm Version 1 Colour compensation for precise light colour.









Primary colours LED module $\Phi(\text{Im})$ S(%) Colour λ (nm) Red 140 620-625 525-530 465-470 77 97 Green 184 Blue

Emanon Spotlight for low-voltage halogen lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety

Ănti-dazzle ring: cast aluminium,

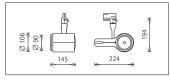
powder-coated black. Peripheral groove for fixing accessories.

Use dimmers for electronic transformers (trailing edge).

Accessories page 168

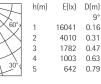
76427.000 White (RAL9002) 76428.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, narrow spot

Weight 1.30kg LMF D 日本 🌑 🅸 🖤 🕞









76430.000 White (RAL9002) 76431.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, spot

Weight 1.30kg LMF D 日本 《 企 企 仓

194 QT12-ax-RE





D(m)

0.55

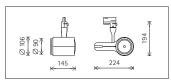
1.11

1.66 2.22

72 2.77

76433.000 White (RAL9002) **76434.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, flood

Weight 1.30kg LMF D 日本 鑑 @ @



224

<u>145</u>



H

HAMAH	h(m)	E(Ix)
60° 60°,	1 2 3 4 5	1796 449 200 112 72
7		

Emanon Spotlight for low-voltage halogen lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised.

Anti-dazzle ring: cast aluminium,

powder-coated black. Peripheral groove for fixing accessories.

h(m)

2

3

4 5

2

3

h(m)

E(lx) D(m)

54234

13559

6026

3390 0.49

2169 0.61

E(lx) D(m)

15709 0.25

3927 0.49

1745 0.74

982 0.98

D(m)

53°

1.00

1.99

2.99

3.99

4.99

E(lx) D(m)

D(m)

0.25

0.49 0.74

1.23

161

54234 0.12

13559 0.24

6026 0.37

3390 0.49

2169 0.61

0.12

0.24

Use dimmers for electronic transformers (trailing edge).

Accessories page 167

76469.000 White (RAL9002) **76470.000** Silver OT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Anti-dazzle cap attached to safety

Spherolit reflector, narrow spot Anti-dazzle cap attached to safety glass. **76472.000** White (RAL9002)

76472.000 White (RAL9002) 76473.000 Silver OT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Anti-dazzle cap attached to safety glass.

76475.000 White (RAL9002) **76476.000** Silver OT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Anti-dazzle cap attached to safety glass.

76478.000 White (RAL9002) **76479.000** Silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood Safety glass.

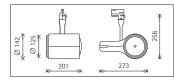
Weight 2.40kg LMF D

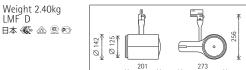
Weight 2.40kg

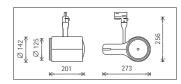
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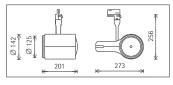
LMF D

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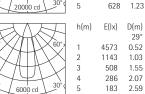


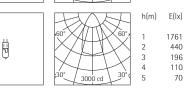
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QT12-ax

QT12-ax







Emanon Spotlight with DALI adapter for low-voltage halogen lamps







DALI PLUG+ PLAY Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised.

Anti-dazzle ring: cast aluminium,

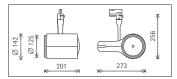
powder-coated black. Peripheral groove for fixing accessories.

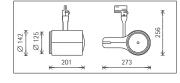
Accessories page 167

76499.000 White (RAL9002) DALI 76500.000 Silver DALI 0T12-ax 100W 12V GY6.35 2200Im Spherolit reflector, narrow spot Anti-dazzle cap attached to safety

76502.000 White (RAL9002) DALI **76503.000** Silver DALI 0T12-ax 100W 12V GY6.35 2200Im Spherolit reflector, spot Anti-dazzle cap attached to safety glass.

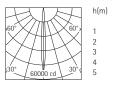
Weight 2.45kg LMF D **™** ♠ **©** •











2 3927 3 1745 4 982	J/J/	h(m)	E(Ix)
20000 cd 30 5 628			15709 3927 1745 982 628

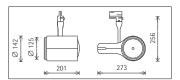
Emanon Spotlight with DALI adapter for low-voltage halogen lamps

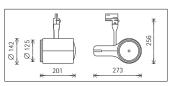
76505.000 White (RAL9002) DALI **76506.000** Silver DALI OT12-ax 100W 12V GY6.35 2200Im Spherolit reflector, flood Anti-dazzle cap attached to safety glass.

76508.000 White (RAL9002) DALI **76509.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood Safety glass.

Weight 2.45kg LMF D **W** ♠ **©** •

Weight 2.45kg LMF D & © ©







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QT12-ax



 h(m)
 E(lx)
 D(m)

 29°
 1
 4573
 0.52

 2
 1143
 1.03

 3
 508
 1.55

 4
 286
 2.07

 5
 183
 2.59



h(m) E(lx) D(m) 53° 1 1761 1.00 2 440 1.99 3 196 2.99 4 110 3.99 5 70 4.99

Emanon Spotlight for metal halide lamps



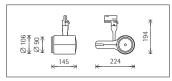




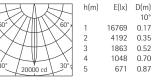
Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories.



Weight 1.50kg LMF D 日本 **W** 企 <u>©</u> ©

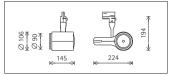




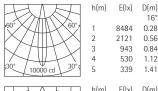


76403.000 White (RAL9002) ECG **76404.000** Silver ECG HIT-TC-CE 20W G8.5 1700lm Spherolit reflector, spot

Weight 1.50kg LMF D 日本 **《** 企 **《** ©

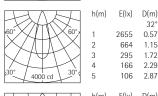






76406.000 White (RAL9002) ECG **76407.000** Silver ECG HIT-TC-CE 20W G8.5 1700lm Spherolit reflector, flood

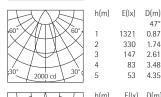




76539.000 White (RAL9002) ECG **76540.000** Silver ECG HIT-TC-CE 20W G8.5 1700lm Spherolit reflector, wide flood

Weight 1.50kg LMF D 日本 **《** 企 © ®

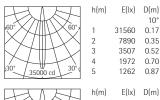




76412.000 White (RAL9002) ECG **76413.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, narrow spot

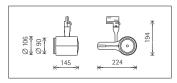
a	T	
	194	
224 →		





76415.000 White (RAL9002) ECG **76416.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, spot

Weight 1.50kg LMF D 日本 **狐** 企 **©** ⓒ



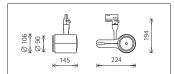
145



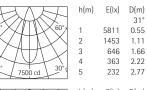
h(m) E(x) D(m) 16° 15° 15° 0.28 2 3927 0.56 3 1745 0.84 4 982 1.12 5 628 1.41

Emanon Spotlight for metal halide lamps

76418.000 White (RAL9002) ECG **76419.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, flood Weight 1.50kg LMF D 日本 **W** 企 <u>©</u> ©

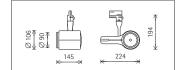




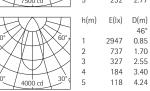


76421.000 White (RAL9002) ECG **76422.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, wide flood

Weight 1.50kg LMF D 日本 **狐** 傘 **똋** 昣







Emanon Spotlight with DALI adapter for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Safety glass.

Anti-dazzle ring: cast aluminium,

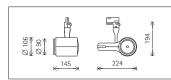
powder-coated black. Peripheral groove for fixing accessories. Accessories page 168



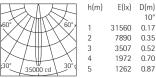


DALI PLUG+

PLAY







76531.000 White (RAL9002) ECG DALI **76532.000** Silver ECG DALI HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, spot Weight 1.50kg LMF D & © ©





1.41

D(m)

0.55

1.11

1.66

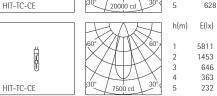
2.22

2.77

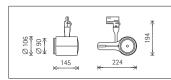
163

76533.000 White (RAL9002) ECG DALI **76534.000** Silver ECG DALI HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, flood Weight 1.50kg LMF D ∰ △ © ©





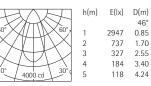
76535.000 White (RAL9002) ECG DALI **76536.000** Silver ECG DALI HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, wide flood Weight 1.50kg LMF D **™** <u>&</u> <u>©</u> •



224

<u>145</u>





Emanon Spotlight for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove

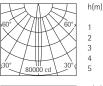
for fixing accessories. Accessories page 167

76439.000 White (RAL9002) ECG
76440.000 Silver ECG
HIT-CE 70W G12 7300lm
Spherolit reflector, narrow spot

Weight 2.50kg 日本 🌑 🅸 🖤 🕞

Ø 142 Ø 125	256
< 201 →	< 273 →



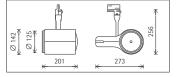


75908 0.17 18977 0.35 8434 0.52 4744 0.70 3036 0.87

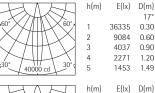
E(Ix)D(m)



Weight 2.50kg LMF D 日本 🌑 🅸 🕮 🕞

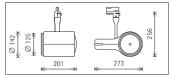




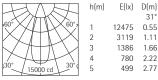




Weight 2.50kg LMF D 日本 🌑 🅸 🖭 🕞

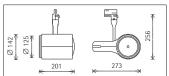




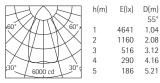




Weight 2.50kg LMF D 日本 🌑 🅸 🖤 🕞

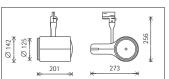




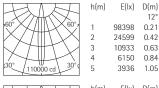




Weight 3.00kg LMF D 日本 《 企 企 仓

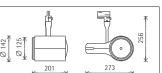




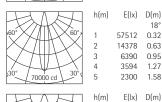


76457.000 White (RAL9002) ECG **76458.000** Silver ECG HIT-CE 150W G12 15000lm Spherolit reflector, spot

Weight 3.00kg LMF D 日本 🌑 🅸 🖤 🕞

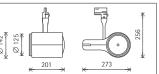




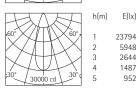


76460.000 White (RAL9002) ECG **76461.000** Silver ECG HIT-CE 150W G12 15000lm Spherolit reflector, flood

Weight 3.00kg LMF D 日本 《 企 企 仓

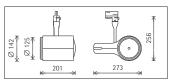




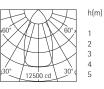


76463.000 White (RAL9002) ECG **76464.000** Silver ECG HIT-CE 150W G12 15000lm Spherolit reflector, wide flood

Weight 3.00kg LMF D 日本 鑑 @ @







000 cd	5	952	2.//
	h(m)	E(Ix)	D(m) 53°
60°	1	9928	1.00
$T \setminus I \setminus X \setminus I$	2	2482	1.99
+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$	3	1103	2.99
	4	620	3.99
500 cd 30°	5	397	4.99

0.55

1.11

1.66 2.22

Emanon Spotlight with DALI adapter for metal halide lamps





Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Safety glass.

Anti-dazzle ring: cast aluminium,

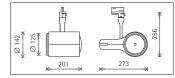
powder-coated black. Peripheral groove for fixing accessories. Accessories page 167



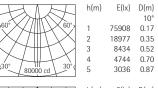
Weight 2.55kg LMF D & & © ©

DALI PLUG+

PLAY

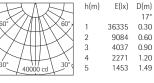




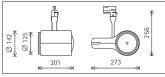


76487.000 White (RAL9002) ECG DALI **76488.000** Silver ECG DALI HIT-CE 70W G12 7300Im Spherolit reflector, spot Weight 2.55kg LMF D & © ©

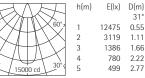




76490.000 White (RAL9002) ECG DALI **76491.000** Silver ECG DALI HIT-CE 70W G12 7300lm Spherolit reflector, flood Weight 2.55kg LMF D ∰ △ © ©







D(m)

55°

1.04

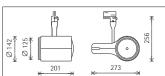
2.08

3.12

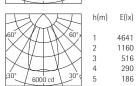
4.16

5.21

76493.000 White (RAL9002) ECG DALI **76494.000** Silver ECG DALI HIT-CE 70W G12 7300lm Spherolit reflector, wide flood Weight 2.55kg LMF D **W** ♠ <u>©</u> •







Emanon Spotlight for high-pressure sodium vapour lamps







Ø 125

201

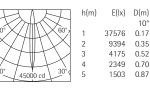
Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised.

Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories. Accessories page 167

76608.000 White (RAL9002) ECG **76609.000** Silver ECG HST 100W GX12-1 4900Im Spherolit reflector, narrow spot 9957





76610.000 White (RAL9002) ECG **76611.000** Silver ECG HST 100W GX12-1 4900Im Spherolit reflector, spot

201 × 273 × 273



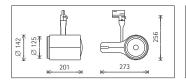
HAMAH	h(m
60°	1
	2
NTHITU	3
	4 5
30° 25000 cd 30°	5

h(m) E(lx) D(m)
16°
1 20921 0.28
2 5230 0.56
3 2325 0.84
4 1308 1.12
5 837 1.41

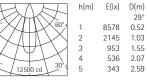
165

Emanon Spotlight for high-pressure sodium vapour lamps

76612.000 White (RAL9002) ECG **76613.000** Silver ECG HST 100W GX12-1 4900lm Spherolit reflector, flood

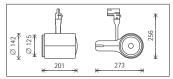




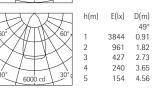


76614.000 White (RAL9002) ECG **76615.000** Silver ECG HST 100W GX12-1 4900lm Spherolit reflector, wide flood

Weight 2.80kg LMF C & & ©

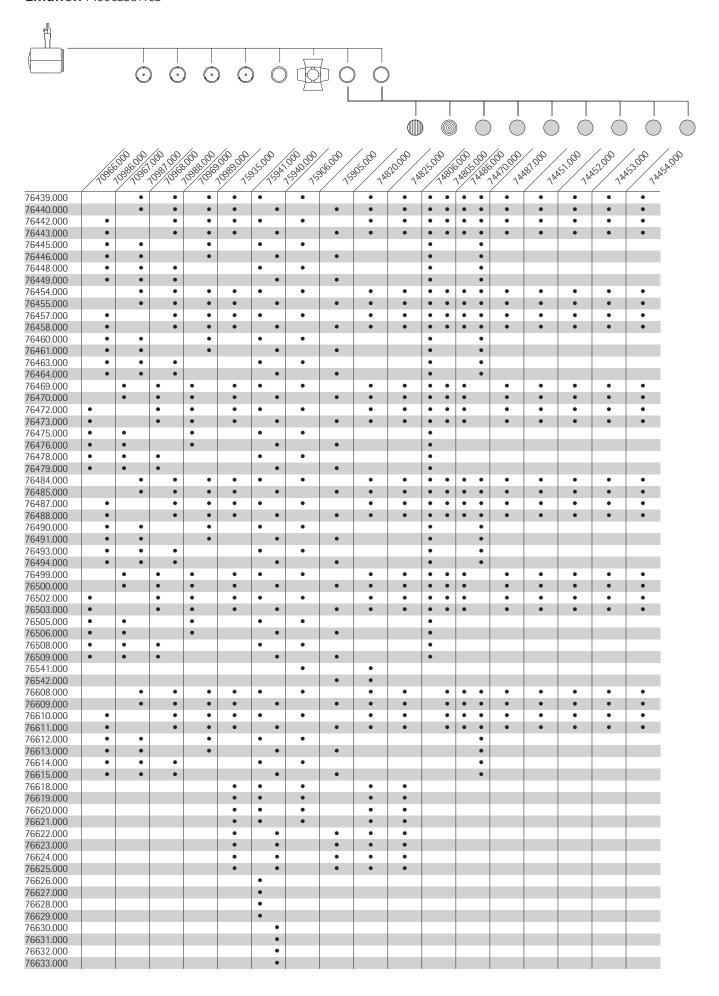




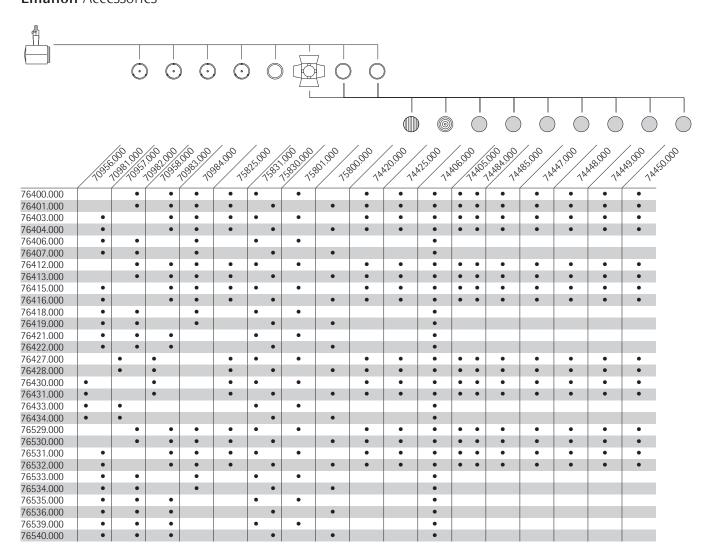




Diesel Flagship Store, Piazza San Babila, Milan. Architect: Diesel Interior Design Department, Molvena.



www.erco.com





70956.000
70966.000
Spherolit reflector, narrow spot
Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap attached to safety plass.



70981.000 70986.000 Spherolit reflector, narrow spot Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



70957.000 70967.000 Spherolit reflector, spot Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap attached to safety glass.



70982.000 70987.000 Spherolit reflector, spot Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



70958.000
70968.000
Spherolit reflector, flood
Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap attached to safety glass.



70983.000 70988.000 Spherolit reflector, flood Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



70969.000 70984.000 70989.000 Spherolit reflector, wide flood Reflector set replaceable without tools. Reflector: aluminium, silver, mirror-finish anodised. Safety glass.



74420.000 74820.000 Sculpture lens

Emanon Accessories



74425.000 74825.000 Flood lens



74406.000 74806.000 UV filter



74405.000 74805.000 IR filter



74484.000 74486.000 Skintone filter



74470.000 Food filter



74485.000 74487.000 Daylight conversion filter



74447.000 74451.000 Interference colour filter Magenta



169

74448.000 74452.000 Interference colour filter Amber



74449.000 74453.000 Interference colour filter Sky blue



74450.000 74454.000 Interference colour filter Night blue



75825.000 75935.000 Anti-dazzle ring Plastic, black.



75831.000 White 75941.000 White 75830.000 Black 75940.000 Black Barn doors Metal, powdercoated.



75801.000 White 75906.000 White 75800.000 Black 75905.000 Black Mounting ring Plastic.

Dynamic projection effects in architectural lighting with the Emanon Goborotator.



Emanon Projector spotlight for low-voltage halogen lamps







With projection lens for precise projec-

Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°

Only for ceiling mounting.
Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter with cable: plastic.

Reflector: aluminium, silver anodised. IR filter.

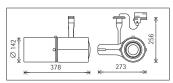
Contour attachment: aluminium, powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Lens 1:1. 7/100mm, focusing \pm

Contour attachment removable for lamp replacement without tools. Use dimmers for electronic transformers (trailing edge).

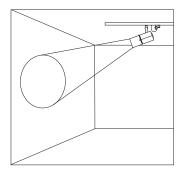
Accessories page 180

76568.000 White (RAL9002) **76569.000** Silver QT12-ax 90W 12V GY6.35 1800lm



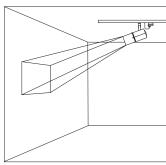






Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 30	1 2 3 4 5	3006 752 334 188 120	16° 0.30 0.60 0.90 1.20 1.50
Ø 40	1 2 3 4 5	2430 608 270 152 97	22° 0.40 0.80 1.20 1.60 2.00
Ø 50	1 2 3 4 5	1890 473 210 118 76	26° 0.50 1.00 1.50 2.00 2.50



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

1 1890 0.35 2 473 0.71 3 210 1.06 4 118 1.41 5 76 1.77	h (m)	E (Ix)	D (m)
	2	473	0.71
	3	210	1.06
	4	118	1.41



The spotlights, projectors and Goborotators of the Emanon product group provide retail architecture with lighting effects fit for the stage.

Emanon Projector spotlight for low-voltage halogen lamps







Projection lens for soft-edged effect

Projection lens for soft-edged effect lighting. Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°

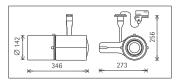
Only for ceiling mounting. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter with cable:

Reflector: aluminium, silver anodised. IR filter.

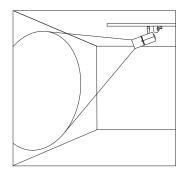
Contour attachment: aluminium, powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Projection lens, 50mm, Focal length, focusable. Contour attachment removable for lamp replacement without tools. Use dimmers for electronic transformers (trailing edge).

Accessories page 180

76562.000 White (RAL9002) **76563.000** Silver QT12-ax 90W 12V GY6.35 1800lm Weight 4.55kg 日本 **《** 企 ©

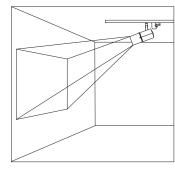






Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 30	1 2 3 4 5	716 179 79 45 29	33° 0.60 1.20 1.80 2.40 3.00
Ø 40	1 2 3 4 5	608 152 68 38 24	44° 0.80 1.60 2.40 3.20 4.00
Ø 50	1 2 3 4 5	461 115 51 29 18	53° 1.00 2.00 3.00 4.00 5.00



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

171

h (m)	E (Ix)	D (m)
1	461	0.71
2	115	1.41
3	51	2.12
4 5	29	2.83
5	18	3.54

Emanon Projector spotlight with DALI adapter for low-voltage halogen lamps



76577.000 Silver DALI QT12-ax 90W 12V GY6.35 1800lm





DALI PLUG+ PLAY



Only for ceiling mounting. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter with cable for DALI track: plastic.

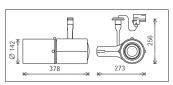
With projection lens for precise projec-

Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, on the mechanical adapter rotatable through

Reflector: aluminium, silver anodised. IR

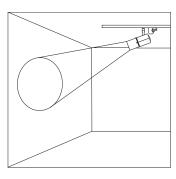
lamp replacement without tools.

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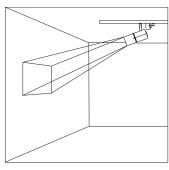
360°





Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 30	1 2 3 4 5	3006 752 334 188 120	16° 0.30 0.60 0.90 1.20 1.50
Ø 40	1 2 3 4 5	2430 608 270 152 97	22° 0.40 0.80 1.20 1.60 2.00
Ø 50	1 2 3 4 5	1890 473 210 118 76	26° 0.50 1.00 1.50 2.00 2.50



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

Contour attachment: aluminium,

powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Lens 1:1. 7/100mm, focusing ±

Contour attachment removable for

h (m)	E (Ix)	D (m)
1 2 3 4 5	1890 473 210 118 76	0.35 0.71 1.06 1.41 1.77



Dynamic projection effects in architectural lighting with the Emanon Goborotator.

Emanon Projector spotlight with DALI adapter for low-voltage halogen lamps







Only for ceiling mounting. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter with cable for DALI track: plastic.

lighting.

Reflector: aluminium, silver anodised. IR

Projection lens for soft-edged effect

Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the

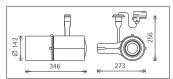
mechanical adapter rotatable through

Contour attachment: aluminium, powder-coated. Framing attachment (opening 8x8mm) with holder for aper-ture masks or gobo (ø 66mm). 3 aper-ture masks: metal, black, ø 50, ø 40, ø 30. Projection lens with focal length

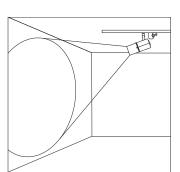
of 50mm, focusable.
Contour attachment removable for lamp replacement without tools.
Accessories page 180





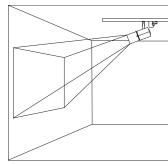






Measured illuminance levels (new values) E (Ix) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 30	1 2 3 4 5	716 179 79 45 29	33° 0.60 1.20 1.80 2.40 3.00
Ø 40	1 2 3 4 5	608 152 68 38 24	44° 0.80 1.60 2.40 3.20 4.00
Ø 50	1 2 3 4 5	461 115 51 29 18	53° 1.00 2.00 3.00 4.00 5.00



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

173

h (m)	E (Ix)	D (m)
1 2	461 115	0.71 1.41
3	51	2.12
4 5	29 18	2.83 3.54

Emanon Projector spotlight for metal halide lamps

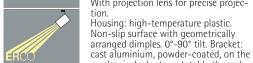






Weight 4.85kg 日本 **《** ④ ⑥



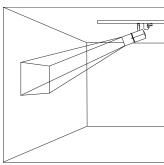


360°



Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 30	1 2 3 4 5	5530 1383 614 346 221	16° 0.30 0.60 0.90 1.20 1.50
Ø 40	1 2 3 4 5	5105 1276 567 319 204	22° 0.40 0.80 1.20 1.60 2.00
Ø 50	1 2 3 4 5	3970 992 441 248 159	26° 0.50 1.00 1.50 2.00 2.50



With projection lens for precise projec-

mechanical adapter rotatable through

Only for ceiling mounting. Electronic control gear. ERCO 3-circuit adapter with cable: plastic. Reflector: aluminium, silver anodised. IR

Contour attachment: aluminium,

powder-coated. Framing attachment opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Lens 1:1. 7/100mm, focusing ±

Contour attachment removable for lamp replacement without tools.

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Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

h (m)	E (Ix)	D (m)
1	3970	0.35
2	992	0.71
3	441	1.06
4	248	1.41
5	159	1.77

Emanon Projector spotlight for metal halide lamps







Projection lens for soft-edged effect lighting.

Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through

Only for ceiling mounting. Electronic control gear.
ERCO 3-circuit adapter with cable: plastic. Reflector: aluminium, silver anodised. IR

Contour attachment: aluminium,

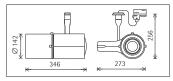
powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Projection lens with focal length of 50mm, focusable.

Contour attachment removable for lamp replacement without tools.

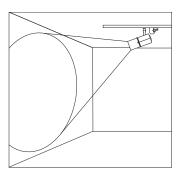
Accessories page 180

76550.000 White (RAL9002) ECG **76551.000** Silver ECG HIT-CE 70W G12 7300lm



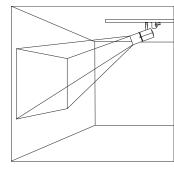






Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 30	1 2 3 4 5	1356 339 151 85 54	33° 0.60 1.20 1.80 2.40 3.00
Ø 40	1 2 3 4 5	1314 328 146 82 53	44° 0.80 1.60 2.40 3.20 4.00
Ø 50	1 2 3 4 5	997 249 111 62 40	53° 1.00 2.00 3.00 4.00 5.00



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

175

h (m)	E (Ix)	D (m)
1	997	0.71
2	249	1.41
3	111	2.12
4	62	2.83
5	40	3.54

Emanon Projector spotlight with Goborotator for low-voltage halogen lamps







With projection lens for precise projections.

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminum, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting.

Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. 2 ERCO 3-circuit adapters with cable: plastic.

Reflector: aluminium, silver anodised. IR filter.

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Lens 1:1,7/100mm, focusing + 10mm

± 10mm. Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothed-belt drive.

Switch for calling up speed and rotational direction (12 programs). Pushbutton for setting the reference position. LED function indicator.

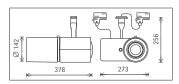
Goborotator attachment removable for lamp replacement without tools. Screw fixing.

Use dimmers for electronic transformers (trailing edge).

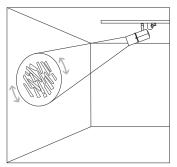
Accessories page 180

76570.000 White (RAL9002) **76571.000** Silver QT12-ax 90W 12V GY6.35 1800lm









Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
			16°
Ø 30	1	3006	0.30
	2	752	0.60
	3	334	0.90
	4	188	1.20
	5	120	1.50

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 40	1	2430	22° 0.40
2 40	2	608	0.80
	3	270	1.20
	4	152	1.60
	5	97	2.00

Aper mas (mm	k h (m)	E (Ix)	D (m)
× Ø 50	•	1890	26° 0.50
∅ 30	2	473	1.00
	3	210	1.50
	4	118	2.00
	5	76	2.50







Projection lens for soft-edged effect lighting.

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting. Electronic transformer 230/12V. Po-

Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. 2 ERCO 3-circuit adapters with cable: plastic.

Reflector: aluminium, silver anodised. IR filter.

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Projection lens, 50mm focal length, focusable.

Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors

for adjusting the gobos. Low-noise toothed-belt drive.

Switch for calling up speed and rotational direction (12 programs). Pushbutton for setting the reference position. LED function indicator.

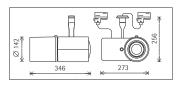
Goborotator attachment removable for lamp replacement without tools. Screw fixing.

fixing. '
Use dimmers for electronic transformers (trailing edge).

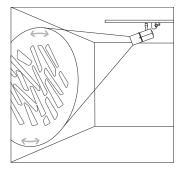
Accessories page 180

76566.000 White (RAL9002) **76567.000** Silver QT12-ax 90W 12V GY6.35 1800lm









Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	e h (m)	E (Ix)	D (m)	Apertur mask (mm)	e h (m)	E (Ix)	D (m)	Apertur mask (mm)	h (m)	E (Ix)	D (m)
			33°				44°				53°
\emptyset 30	1	716	0.60	Ø 40	1	608	0.80	\varnothing 50	1	461	1.00
	2	179	1.20		2	152	1.60		2	115	2.00
	3	79	1.80		3	68	2.40		3	51	3.00
	4	45	2.40		4	38	3.20		4	29	4.00
	5	29	3.00		5	24	4.00		5	18	5.00

Emanon Projector spotlight with Goborotator and DALI adapter for low-voltage halogen lamps







DALI PLUG+



With projection lens for precise projections. Thermally optimised housing without

fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mech-anical adapter rotatable through 360°. Only for ceiling mounting. Electronic transformer, 230/240/12V,

with plug and play connectivity. 2 ERCO DALI adapters with cable for DALI track: plastic.

Reflector: aluminium, silver anodised. IR

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Lens 1:1,7/100mm, focusing \pm 10mm

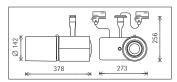
Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothed-belt drive

The speed and rotational direction are recalled via the Light System DALI software. LED function indicator. Goborotator attachment removable for lamp replacement without tools. Screw

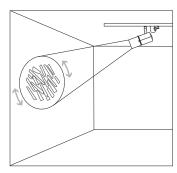
Accessories page 180

76572.000 White (RAL9002) DALI 76573.000 Silver DALI QT12-ax 90W 12V GY6.35 1800lm









Measured illuminance levels (new values) E (Ix) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
()			16°
Ø 30	1	3006	0.30
	2	752	0.60
	3	334	0.90
	4	188	1.20
	5	120	1.50

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 40	1 2 3 4 5	2430 608 270 152 97	22° 0.40 0.80 1.20 1.60 2.00

Aperture mask (mm)	h (m)	E (Ix)	D (m)
()			26°
\varnothing 50	1	1890	0.50
	2	473	1.00
	3	210	1.50
	4	118	2.00
	5	76	2.50





PLUG+

PLAY



Projection lens for soft-edged effect lighting

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting.

Electronic transformer, 230/240/12V, with plug and play connectivity. 2 ERCO DALI adapters with cable for DALI track: plastic.
Reflector: aluminium, silver anodised. IR

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Projection lens, 50mm focal length, focusable.

Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothed-belt drive

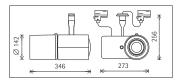
The speed and rotational direction are recalled via the Light System DALI software. LED function indicator. Goborotator attachment removable for lamp replacement without tools. Screw

177

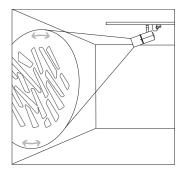
Accessories page 180

76564.000 White (RAL9002) DALI **76565.000** Silver DALI QT12-ax 90W 12V GY6.35 1800lm









Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)	Aperture mask (mm)	h (m)	E (Ix)	D (m)	Aperture mask (mm)	h (m)	E (Ix)	D (m)
			33°				44°				53°
Ø 30	1	716	0.60	Ø 40	1	608	0.80	Ø 50	1	461	1.00
	2	179	1.20		2	152	1.60		2	115	2.00
	3	79	1.80		3	68	2.40		3	51	3.00
	4	45	2.40		4	38	3.20		4	29	4.00
	5	29	3.00		5	24	4.00		5	18	5.00

Emanon Projector spotlight with Goborotator for metal halide lamps







With projection lens for precise projec-

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting. Electronic control gear.

2 ERCO 3-circuit adapters with cable:

plastic. Reflector: aluminium, silver anodised. IR filter.

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Lens 1:1,7/100mm, focusing \pm 10mm.

Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothed-belt drive.

Switch for calling up speed and rota-

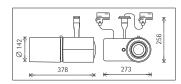
tional direction (12 programs). Pushbutton for setting the reference posi-tion. LED function indicator.

Goborotator attachment removable for lamp replacement without tools. Screw

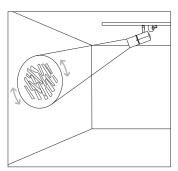
Accessories page 180

76558.000 White (RAL9002) ECG **76559.000** Silver ECG HIT-CE 70W G12 7300lm









Measured illuminance levels (new values) E (Ix) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
			16°
\emptyset 30	1	5530	0.30
	2	1383	0.60
	3	614	0.90
	4	346	1.20
	5	221	1.50

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 40	1	5105	22° 0.40
2 40	2	1276	0.80
	3	567	1.20
	4	319	1.60
	5	204	2.00

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 50	1 2	3970 992	26° 0.50 1.00
	3	992 441	1.50
	4	248	2.00
	5	159	2.50







Projection lens for soft-edged effect lighting.

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting. Electronic control gear.

2 ERCO 3-circuit adapters with cable: plastic. Reflector: aluminium, silver anodised. IR

filter.

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Projection lens, 50mm focal length, focusable.

Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothéd-belt drive.

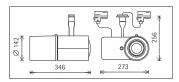
Switch for calling up speed and rota-

tional direction (12 programs). Pushbutton for setting the reference posibutton tion. LED function indicator. Goborotator attachment removable for lamp replacement without tools. Screw

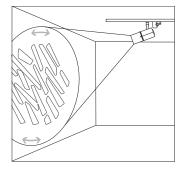
Accessories page 180

76554.000 White (RAL9002) ECG **76555.000** Silver ECG HIT-CE 70W G12 7300lm









Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)	Aperture mask (mm)	h (m)	E (Ix)	D (m)	Apertur mask (mm)	e h (m)	E (Ix)	D (m)
			33°				44°				53°
Ø 30	1	1356	0.60	Ø 40	1	1314	0.80	\varnothing 50	1	997	1.00
	2	339	1.20		2	328	1.60		2	249	2.00
	3	151	1.80		3	146	2.40		3	111	3.00
	4	85	2.40		4	82	3.20		4	62	4.00
	5	54	3.00		5	53	4.00		5	40	5.00

Emanon Projector spotlight with Goborotator and DALI adapter for metal halide lamps









With projection lens for precise projections.

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting.

Electronic control gear, switchable, with

plug and play connectivity. 2 ERCO DALI adapters with cable for DALI track: plastic.

Reflector: aluminium, silver anodised. IR

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Lens 1:1,7/100mm, focusing \pm 10mm

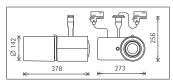
Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothed-belt drive

The speed and rotational direction are recalled through the Light System DALI software. LED function indicator. Goborotator attachment removable for lamp replacement without tools. Screw

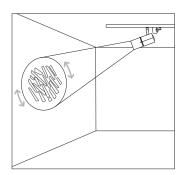
Accessories page 180

76560.000 White (RAL9002) ECG DALI **76561.000** Silver ECG DALI HIT-CE 70W G12 7300lm

Weight 6.65kg <u></u>







Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
			16°
\varnothing 30	1	5530	0.30
	2	1383	0.60
	3	614	0.90
	4	346	1.20
	5	221	1.50

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø 40	1 2 3 4 5	5105 1276 567 319 204	22° 0.40 0.80 1.20 1.60 2.00

Aper mas (mm	k h (m)	E (Ix)	D (m)
Ø 50	•	3970 992	26° 0.50 1.00
	3 4	441 248	1.50
	5	159	2.50









Projection lens for soft-edged effect lighting

Thermally optimised housing without fan: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder- coated, on the mechanical adapter rotatable through 360°. Only for ceiling mounting.

Electronic control gear, switchable, with

plug and play connectivity.
2 ERCO DALI adapters with cable for DALI track: plastic.
Reflector: aluminium, silver anodised. IR

Goborotator attachment: plastic. Two rotatable receptacles for gobos (ø 66mm). Projection lens, 50mm focal length, focusable.

Two elastically mounted stepping motors, 4s/1 to 360s/1. Hall sensors for adjusting the gobos. Low-noise toothed-belt drive

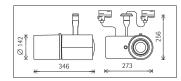
The speed and rotational direction are recalled via the Light System DALI software. LED function indicator. Goborotator attachment removable for lamp replacement without tools. Screw

179

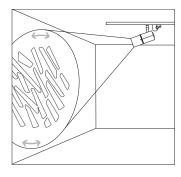
Accessories page 180

76552.000 White (RAL9002) ECG DALI **76553.000** Silver ECG DALI HIT-CE 70W G12 7300lm





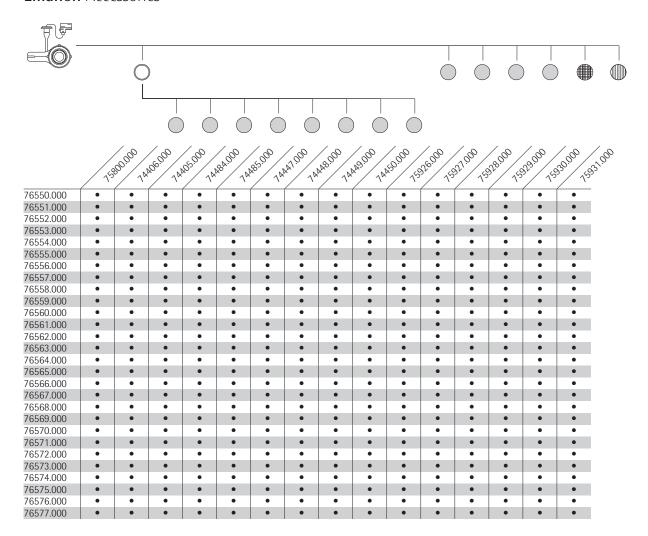




Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and projection distance h (m)

Aperture mask (mm)	e h (m)	E (Ix)	D (m)	Aperture mask (mm)	h (m)	E (Ix)	D (m)	Aperture mask (mm)	h (m)	E (Ix)	D (m)
			33°				44°				53°
\varnothing 30	1	1356	0.60	Ø 40	1	1314	0.80	Ø 50	1	997	1.00
	2	339	1.20		2	328	1.60		2	249	2.00
	3	151	1.80		3	146	2.40		3	111	3.00
	4	85	2.40		4	82	3.20		4	62	4.00
	5	54	3.00		5	53	4.00		5	40	5.00

Emanon Accessories





74406.000 UV filter



74405.000 IR filter



74484.000 Skintone filter



74485.000Daylight conversion filter



74447.000 Interference colour filter Magenta



74448.000 Interference colour filter Amber



74449.000 Interference colour filter Sky blue



74450.000 Interference colour filter Night blue



75800.000 Black Mounting ring Plastic.



75926.000 Gobo Metal, ø 66mm.



75927.000 Gobo Metal, ø 66mm.



75928.000 Gobo Metal, ø 66mm.



75929.000 Gobo Metal, ø 66mm.



75930.000 Structured lens Glass, ø 66mm.



75931.000 Structured lens Glass, ø 66mm.

Emanon Floodlight for low-voltage halogen lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softee

Anti-dazzle ring: cast aluminium,

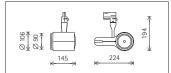
powder-coated black. Peripheral groove for fixing accessories.

Use dimmers for electronic transformers (trailing edge).

Accessories page 184

76603.000 White (RAL9002) **76602.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, oval flood







h(m) E(lx) D(m) 788 197 88 49 32 8.69 3.06







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec

Anti-dazzle ring: cast aluminium,

powder-coated black. Peripheral groove for fixing accessories.

174 061

3.48 1.22

6.95 2.45

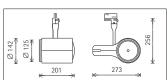
77° 26° 1.59 0.46

5.22

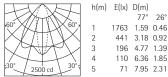
Use dimmers for electronic transformers (trailing edge).
Accessories page 184











Emanon Floodlight with DALI adapter for low-voltage halogen lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec

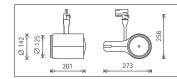
powder-coated black. Peripheral groove for fixing accessories. Accessories page 184

Anti-dazzle ring: cast aluminium,





DALI PLUG+ PLAY







L	h(m)	E(Ix)	D(m)	
			77°	26°
60°,	1	1763	1.59	0.46
$^{\times}$	2	441	3.18	0.92
	3	196	4.77	1.39
1	4	110	6.36	1.85
30° (5	71	7.95	2.31

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www.erco.com ERCO Program 2010/11

Emanon Floodlight for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

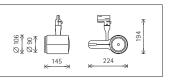
Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec lens.

lens. Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories.

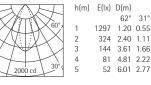
Accessories page 184

76544.000 White (RAL9002) ECG **76543.000** Silver ECG HIT-TC-CE 20W G8.5 1700lm Spherolit reflector, oval flood



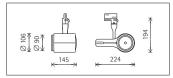






76546.000 White (RAL9002) EC	G
76545.000 Silver ECG	
HIT-TC-CE 35W G8.5 3500lm	
Spherolit reflector, oval flood	

Weight 1.50kg LMF D 日本 **狐** 傘 ⓒ







h(m)	E(Ix)	D(m)	
		63°	36°
1	2403	1.23	0.65
2	601	2.45	1.30
3	267	3.68	1.95
4	150	4.90	2.60
5	96	6.13	3.25

Emanon Floodlight with DALI adapter for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec lens.

Anti-dazzle ring: cast aluminium,

powder-coated black. Peripheral groove for fixing accessories.

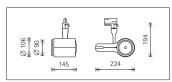
Accessories page 184



Spherolit reflector, oval flood



DALI PLUG+ PLAY







	h(m)	E(Ix)	D(m)	
٦			63°	36°
)°,	1	2403	1.23	0.65
V	2	601	2.45	1.30
A	3	267	3.68	1.95
	4	150	4.90	2.60
)° {	5	96	6.13	3.25

Emanon Floodlight for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

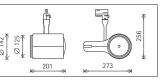
Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softee

lens. Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories.

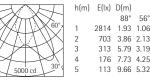
Accessories page 184





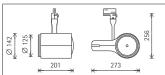






76601.000 White (RAL9002) ECG **76600.000** Silver ECG HIT-CE 150W G12 15000lm Spherolit reflector, oval flood









h(m)	E(Ix)	D(m)	
		88°	56°
1	5790	1.93	1.06
2	1448	3.86	2.13
3	643	5.79	3.19
4	362	7.73	4.25
5	232	9.66	5.32

Emanon Floodlight with DALI adapter for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, ro-tatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec

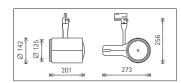
Anti-dazzle ring: cast aluminium,

powder-coated black. Peripheral groove for fixing accessories. Accessories page 184













Accessories page 184

E(Ix) D(m) h(m) 88° 2814 193 106 2 703 3.86 2.13 3 313 5.79 3.19 7.73 4.25 113 9.66 5.32

Emanon Floodlight for high-pressure sodium vapour lamps





76616.000 White (RAL9002) ECG **76617.000** Silver ECG HST 100W GX12-1 4900lm Spherolit reflector, oval flood



Weight 2.80kg LMF D

% 🕸 🕑



201

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Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec

Anti-dazzle ring: cast aluminium, powder-coated black. Peripheral groove for fixing accessories.

HST



	h(m)	E(Ix)	D(m)	
			87°	45°
60°,	1	2005	1.90	0.83
X	2	501	3.80	1.66
	3	223	5.69	2.49
7	4	125	7.59	3.31
30° (5	80	9.49	4.14

www.erco.com

Emanon Accessories

76543.000 •	905,000
76545.000	-
76546.000	
76547.000 • • • • • • • • • • • • • • • • • •	_
76548.000 • • • • • • •	
76578.000 • • •	_
76579.000	
76598.000 • • •	
76599.000	
76600.000	
76601.000	
76602.000 • •	
76603.000	
76604.000	
76605.000	
76606.000	
76607.000	
76616.000	
76617.000	



74406.000 74806.000 UV filter



74470.000 Food filter



75801.000 White **75906.000** White **75800.000** Black **75905.000** Black Mounting ring Plastic.

Emanon Spherolit wallwasher for low-voltage halogen lamps









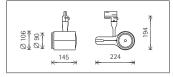
Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens.

Anti-dazzle ring: cast aluminium, powder-coated black.

Use dimmers for electronic transformers







Mean illuminance E_n (Ix)

(trailing edge).

Angle of tilt 22°
Wall height (m) 4.0
Offset from wall (m) 1.00 1.25 1.50
Luminaire spacing (m) 1.00 1.25 1.50
Illuminance E_n (lx) 123 89 67



76481.000 White (RAL9002) **76482.000** Silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wallwash



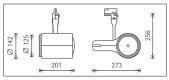
Weight 2.40kg LMF D 日本 **餐** 企 **© ©**



Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softee lens.

Anti-dazzle ring: cast aluminium, powder-coated black.





Use dimmers for electronic transformers (trailing edge).

Mean illuminance E_n (Ix)

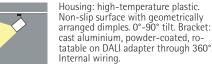
Angle of tilt 20°
Wall height (m) 6.0
Offset from wall (m) 1.50 1.75 2.00
Luminaire spacing (m) 1.50 1.75 2.00
Illuminance E_n (k) 107 87 71

Emanon Spherolit wallwasher with DALI adapter for low-voltage halogen lamps









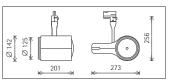
Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track:

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softee lens.

Anti-dazzle ring: cast aluminium, powder-coated black.









Mean illuminance E_n (lx) Angle of tilt 20°

Wall height (m) Offset from wall (m) 1.50 1.75 2.00 1.50 1.75 2.00 Luminaire spacing (m) Illuminance E_n (Ix) 107 87

Emanon Spherolit wallwasher for metal halide lamps



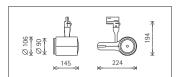




Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens. Anti-dazzle ring: cast aluminium, powder-coated black.





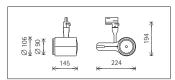




Mean illuminance En (Ix) Angle of tilt 22° Wall height (m) 1.00 1.25 1.50 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.50 Illuminance E_n (lx) 199 138

76424.000 White (RAL9002) ECG **76425.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, wallwash

Weight 1.50kg LMF D 日本 🌑 🅸 🕮 🕞





Mean illuminance E_n (lx) Angle of tilt 20° Wall height (m) 60 Offset from wall (m) 1.50 1.75 2.00 1.50 1.75 2.00 Luminaire spacing (m) Illuminance E_n (lx) 160 126 100

Emanon Spherolit wallwasher with DALI adapter for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

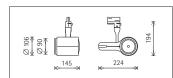
Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softee lens.

Anti-dazzle ring: cast aluminium, powder-coated black.

76537.000 White (RAL9002) ECG DALI **76538.000** Silver ECG DALI HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, wallwash







Mean illuminance En (Ix) Angle of tilt 20° Wall height (m) 60 1.50 1.75 2.00 Offset from wall (m) 1.50 1.75 2.00 Luminaire spacing (m) 160 126 100

Emanon Spherolit wallwasher for metal halide lamps







Ø 125

201

Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens. Anti-dazzle ring: cast aluminium, powder-coated black.

76451.000 White (RAL9002) ECG **76452.000** Silver ECG HIT-CE 70W G12 7300lm

76466.000 White (RAL9002) ECG **76467.000** Silver ECG

HIT-CE 150W G12 15000lm

Spherolit reflector, wallwash

Weight 2.50kg 日本 🌃 🅸 🕮 🕞

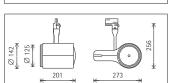




Angle of tilt 15° Wall height (m) 80 Offset from wall (m) 1.75 2.00 2.25 1.75 2.00 2.25 Luminaire spacing (m) Illuminance E_n (Ix) 203 165 136







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Mean illuminance E_n (lx)

Angle of tilt 8° Wall height (m) 10.0 Offset from wall (m) 1.75 2.00 2.25 Luminaire spacing (m) 1.75 2.00 2.25 Illuminance E_n (Ix) 249 205 171

Emanon Spherolit wallwasher with DALI adapter for metal halide lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. Softec lens. Anti-dazzle ring: cast aluminium,

powder-coated black.

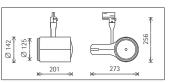


Spherolit reflector, wallwash



DALI PLUG+

PLAY





Mean illuminance En (Ix)

Angle of tilt 15° Wall height (m) 8.0 Offset from wall (m) 1.75 2.00 2.25 1.75 2.00 2.25 Luminaire spacing (m) Illuminance E_n (Ix) 203 165 136

Emanon Lens wallwasher for low-voltage halogen lamps







Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens

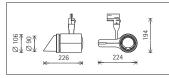
with reflector: aluminium, silver anodised.

Use dimmers for electronic transformers (trailing edge).

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76592.000 White (RAL9002) **76593.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm

Weight 1.60kg LMF D 日本 《 企 企 仓





Mean illuminance En (Ix) Angle of tilt 20° Wall height (m) 3.0 1.00 1.00 1.25 1.25 Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) 81 Illuminance En (Ix)

Emanon Lens wallwasher for low-voltage halogen lamps









Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring.

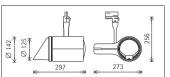
Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens

with reflector: aluminium, silver anodised.

Use dimmers for electronic transformers (trailing edge).

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Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 182 146 123 103

Emanon Lens wallwasher with DALI adapter for low-voltage halogen lamps



76596.000 White (RAL9002) DALI **76597.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm



DALI PLUG+ PLAY

Weight 2.91kg LMF D

₹0 <u>∞</u> <u>∞</u>0



Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Internal wiring.

. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens

Housing: high-temperature plastic.

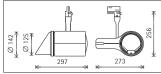
Non-slip surface with geometrically

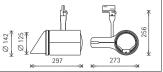
arranged dimples. 0°-90° tilt. Bracket:

cast aluminium, powder-coated, ro-tatable on DALI adapter through 360°.

with reflector: aluminium, silver anodised.

Accessories page 189







Mean illuminance En (Ix)

Angle of tilt 15° Wall height (m) 1.00 1.00 1.25 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 182 146 123 103

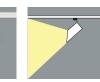
Emanon Lens wallwasher for metal halide lamps



76580.000 White (RAL9002) ECG **76581.000** Silver ECG HIT-TC-CE 20W G8.5 1700lm

Weight 1.90kg LMF D 日本 《 企 企 仓

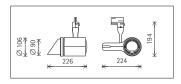
76582.000 White (RAL9002) ECG **76583.000** Silver ECG Weight 1.80kg LMF D HIT-TC-CE 35W G8.5 3500lm 日本 《 企 企 仓

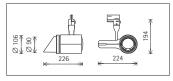


Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring. Electronic control gear.

ERCO 3-circuit adapter: plastic. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised.

Accessories page 189







HIT-TC-CE

Mean illuminance E_n (lx)

Angle of tilt 20°

Wall height (m) 1.00 1.00 1.25 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (lx) 87

Mean illuminance En (Ix)

Angle of tilt 15° Wall height (m) 40 Offset from wall (m) 1.00 1.25 1.25 1.50 1.00 1.00 1.25 1.25 Luminaire spacing (m) 189 161 130 111

187

Emanon Lens wallwasher with DALI adapter for metal halide lamps









Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, ro-tatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity ERCO DALI adapter for DALI track: plastic.

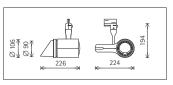
Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens

with reflector: aluminium, silver anod-

Accessories page 189









Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m) 40

Offset from wall (m) 1.00 1.25 1.25 1.50 1.00 1.00 1.25 1.25 Luminaire spacing (m) Illuminance E_n (Ix) 189 161 130 111

Emanon Lens wallwasher for metal halide lamps





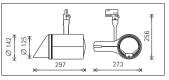


Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Internal wiring. Electronic control gear. ERCO 3-circuit adapter: plastic. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

ised. Accessories page 189









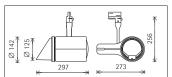
Mean illuminance En (Ix) Angle of tilt 15°

Mean illuminance E_n (lx)

Wall height (m) 1.25 1.25 1.50 1.50 Offset from wall (m) 1.25 1.50 1.50 1.75 Luminaire spacing (m) Illuminance E_n (Ix) 249 209 190 164

76590.000 White (RAL9002) ECG **76591.000** Silver ECG HIT-CE 150W G12 15000lm

Weight 3.46kg LMF D 日本 🌑 🅸 🖤 🕞





Angle of tilt 10° Wall height (m) 80 Offset from wall (m) 1.50 1.75 2.00 2.50

1.50 1.75 2.00 2.50 Luminaire spacing (m) Illuminance E_n (Ix) 265 213 174 121

Emanon Lens wallwasher with DALI adapter for metal halide lamps





Housing: high-temperature plastic. Non-slip surface with geometrically arranged dimples. 0°-90° tilt. Bracket: cast aluminium, powder-coated, ro-tatable on DALI adapter through 360°. Internal wiring.

Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

. Spherolit reflector, narrow spot: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast aluminium, powder-coated. Spread lens

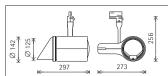
with reflector: aluminium, silver anodised.

Accessories page 189

76588.000 White (RAL9002) ECG DALI **76589.000** Silver ECG DALI HIT-CE 70W G12 7300lm

Weight 3.01kg LMF D

PLUG+ PLAY





Mean illuminance En (Ix) Angle of tilt 15° Wall height (m) 60

1.25 1.25 1.50 1.50 Offset from wall (m) Luminaire spacing (m) 1.25 1.50 1.50 1.75 Illuminance En (Ix) 209 190

Emanon Accessories

	10	17	100 100	689,000	196.000 1A	182.000 1A	188,000 TA	1 ⁴⁸	189,000 1A	231,000	1 ²	132,000 1A	56.000 14	433.000 1A	457,000 1A	A3A,000 /AA	58,00
76580.000		•		•	•		•		•		•		•		•		
76581.000		•		•	•		•		•		•		•		•		
76582.000		•		•	•		•		•		•		•		•		
76583.000		•		•	•		•		•		•		•		•		
76584.000		•		•	•		•		•		•		•		•		
76585.000		•		•	•		•		•		•		•		•		
76586.000	•		•			•		•		•		•		•		•	
76587.000	•		•			•		•		•		•		•		•	
76588.000	•		•			•		•		•		•		•		•	
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76592.000		•		•	•		•		•		•		•		•		
76593.000		•		•	•		•		•		•		•		•		
76594.000	•		•			•		•		•		•		•		•	
76595.000	•		•			•		•		•		•		•		•	
76596.000	•		•			•		•		•		•		•		•	
76597.000	•		•			•		•		•		•		•		•	







70689.000 77196.000 IR filter



74482.000 74488.000 Skintone filter



74483.000 74489.000Daylight conversion filter



74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue



74434.000 74458.000 Interference colour filter Night blue

Parscan for track



At first glance, the design of the Parscan family is derived from the archetypal spotlight, known in the industry as "white can": a plain, white cylinder connected to the track adapter with a hinge. Lighting designers choose this type of spotlight particularly for places where fully flexible, directional lighting is required, but where it should appear as unobtrusive as possible, such as in museums, galleries or sacred rooms.

At second glance, Parscan

At second glance, Parscan provides a highly advanced detailed solution to the complex tasks of accent lighting: by turning a single clamping screw all of the spotlight's movement axes are locked. When the spotlight is directed vertically downwards as a downlight, the support bracket fits exactly into the cylindrical shape.

All accessories such as lenses, filters or anti-dazzle devices are fitted into the front part of the cylindrical housing; the carrier is lockable and is easily removed for lamp replacement. The light-proof ventilation slot located between the two parts of the housing marks the thermal separation plane, which allows the mounting of electronic control gear units in the rear housing. The system design of the Parscan product range consists of variants with and without lens wallwasher technology as well as those with and without cross-baffles using lamps such as low-voltage halogen lamps,

metal halide lamps with ceramic discharge tubes and PAR lamps, it offers an appropriately wide range of products. The DALI-compatible luminaires have digital control gear through which each luminaire can be individually addressed - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Nasjonalmuseet for kunst, arkitektur og design (Museum of Architecture), Oslo. Architect: Prof. Arch. Sverre Fehn,

Parscan for track



Parscan consists of a basic cylindrical shape, available in three different sizes. The cylinders consist of a two-part construction. In all spotlights and lens wallwashers, the transformers or control gear are contained in the rear cylinder. The front cylinder contains the essential lighting components and accessory holder. The front cylinder can be easily removed for lamp replacement. For future lamp replacements, the wattage of the installed lamp can be referenced on the back of the rear cylinder.

The brackets are integral to the cylinder shape for perpendicular mounting and are only recognised as independent elements when the spotlight is tilted.

The cylinders are manufactured in aluminium and the brackets are cast aluminium.

Spotlights



Spot reflectors or flood reflectors are available for low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 70W. To satisfy the highest glare control requirements, the spotlights of this product range that are fitted with low-voltage lamps are always fitted with an anti-dazzle cap, i. e. both in the spot reflector and flood reflector versions. In addition, QPAR2O and QPAR3O lamps up to 100W can be used, the anti-dazzle attachments reduce spill light. Parscan with spot reflectors are also available with cross-baffles. For QPAR lamps, a cross-baffle always includes a Softee lens. In the spotlights with cross-baffles it is

possible to use a filter and lens together.

Application

Rotationally symmetrical, very narrow to medium beam light distribution for accent lighting in museums, exhibitions, art galleries, sales areas and promotional areas.

Lens wallwashers



All Parscan lens wallwashers are modelled on the spotlights. The front cylinders are fitted with wallwasher attachments. Each includes a lens and the typical ERCO wallwasher reflector. The front cylinders can be easily removed for lamp replacement. The various sizes are designed for low-voltage halogen lamps up to 100W/12V and QPAR lamps. Separate UV filters for lens wallwashers are available to ensure high UV protection.

Application

Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, exhibitions and art galleries, promotional and entrance areas.

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www.erco.com ERCO Program 2010/11

Parscan for track

Parscan luminaires provide a highly advanced detailed solution to ensure a smooth operation despite potentially high lamp temperatures and make it easy to both align and replace the lamp.

1. Lock screw to set the angle of

1. Lock screw to set the angle of rotation and tilt

2. Scale to identify the installed lamp rating

3. Integral electronic control gear 4. Two-piece cylinder remova-

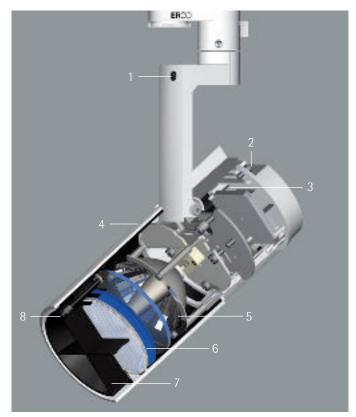
ble for lamp replacement, with safety cord

5. Reflector, silver anodised, mirror-finish

6. Fixing ring for two lenses or filters

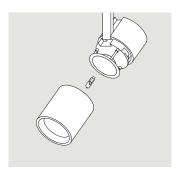
7. Anti-dazzle ring with crossbaffle for maximum visual comfort

8. Anti-dazzle ring fixing device for correct positioning of accessories

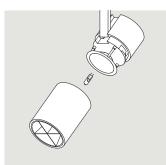


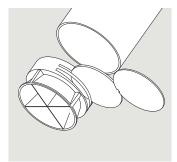


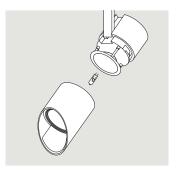
The small "lock" screw on the Parscan spotlights simultaneously locks the luminaire rotation and the tilt with just one turn. This locks the position of the luminaire in situations where luminaire arrangements are frequently changed. For wallwashers, it ensures that the beam direction remains unaltered when a lamp is replaced; to ensure the quality of the lighting concept is maintained.



Depending on the type of spotlight, the front cylindrical housing contains an anti-dazzle ring with or without a cross-baffle, or a wallwasher lens. The front cylinder is removed for lamp replacement. A safety cord connects the two-part cylinder for easier lamp replacement.







The anti-dazzle ring with cross-baffle can accommodate two lenses or filters. When the sculpture lens is fitted, its orientation can be locked with a single screw.

Parscan Spotlight for low-voltage halogen lamps



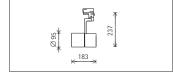


72101.000 White (RAL9002) QT12-ax-RE 50W 12V GY6.35 1250lm Spot reflector

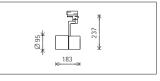
Weight 1.30kg 日本 🌃 🕮 🕞 🗆

72100.000 White (RAL9002) QT12-ax-RE 50W 12V GY6.35 1250lm Flood reflector

Weight 1.30kg LMF D 日本 🌠 🕮 🖭 🖸



to safety glass.





QT12-ax-RE

placement. 0°-90° tilt. Scale for identi-

Figure 1-90 this Safety cord. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°.

Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer 230/12V, from ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached

on the 3-circuit adapter through 360°. Screw to set the angle of rotation and

Electronic transformer 230/12V, from ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached

of tilt. Internal wiring

to safety glass.

Housing: two-piece cylinder, aluminium,

powder-coated, removable for lamp re-placement. 0°-90° tilt. Scale for identi-

fying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable

on the 3-circuit adapter through 360° Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer 230/12V. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp re-Anti-dazzle ring: plastic, black. Retainer

for accessories

(trailing edge). Accessories page 200

3527 0.44 2 882 0.89 392 1.33 220 1.77 141 2.22

h(m)

2

h(m)

Use dimmers for electronic transformers

E(Ix) D(m)

5907 0.24

2625 1477 0.49

945 0.61

E(Ix) D(m)

0.12 23628

Anti-dazzle ring: plastic, black. Retainer

Use dimmers for electronic transformers

for accessories.

(trailing edge). Accessories page 200

72111.000 White (RAL9002)

72110.000 White (RAL9002)

QT12-ax 75W 12V GY6.35 1575lm

Spot reflector

Flood reflector

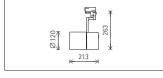
QT12-ax 75W 12V GY6.35 1575lm

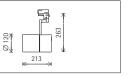


Weight 1.65kg LMF D 日本 🌃 🕮 🖭 🖸



日本 🌃 🕮 🖭 🗆



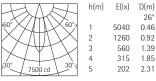


to safety glass.

QT12-ax



E(lx) D(m) h(m) 33901 0.14 2 8475 0.28 3767 0.42 3 2119 0.56 1356 0.70





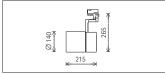


72121.000 White (RAL9002) QT12-ax 100W 12V GY6.35 2200lm Spot reflector

72120.000 White (RAL9002) QT12-ax 100W 12V GY6.35 2200lm Weight 2.20kg LMF D

Weight 2.20kg LMF D 日本 🌠 🕮 🖭 🖸

日本 🌃 🥨 🕞 🗆









h(m) 2 3

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identi-Anti-dazzle ring: cast aluminium, powder-coated black. Retainer for fying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable

Use dimmers for electronic transformers (trailing edge) Accessories page 200

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ERCO Program 2010/11

Flood reflector

www.erco.com

E(lx) D(m) h(m) 44264 0.12 2 11066 0.24 3 4918 0.37 1771 0.61 E(Ix) D(m)

> 7040 0.46

> 1760 0.92

782 1.39 440 1.85

282 2.31

193

Parscan Spotlight for low-voltage halogen lamps





72130.000 White (RAL9002) QR-111 75W 12V G53 8° QR-111 75W 12V G53 45°

Weight 2.30kg LMF D 日本 🌃 🤓 🖭

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp re-placement. 0°-90° tilt. Scale for identi-fying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360° Screw to set the angle of rotation and of tilt. Internal wiring.

ERCO 3-circuit adapter: plastic. Anti-dazzle ring: cast aluminium, powder-coated black. Retainer for accessories.

Electronic transformer 230/12V, from

QR-111

h(m)

(trailing edge). Accessories page 200

> 30000 0.14 7500 0.28 3333 0.42 1875 0.56 1200 0.70 h(m) E(Ix) D(m)

E(Ix)D(m)

Use dimmers for electronic transformers

QR-111



to safety glass.

Accessories page 200

accessories.

1900 0.83 475 1.66 2.49 119 3.31 76 4.14

Parscan Spotlight with DALI adapter for low-voltage halogen lamps





DALI PLUG+

Weight 2.20kg LMF D **₹**05 **P**C

72133.000 White (RAL9002) DALI QT12-ax 75W 12V GY6.35 1575lm Flood reflector

72132.000 White (RAL9002) DALI

QT12-ax 75W 12V GY6.35 1575lm

Spot reflector

Weight 2.20kg LMF D

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale to identify the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the DALI adapter through 360°. Adjustment screw to set the angle of rotation and tilt. Internal wiring. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Reflector: aluminium, silver, mirror-fin-

H QT12-ax





D(m) h(m) E(Ix) 0.12 31689 7922 0.24 3521 0.37 1981 0.49 1268 0.61

ish anodised. Anti-dazzle cap attached

Anti-dazzle ring: cast aluminium, powder-coated black. Retainer for





1	h(m)	E(Ix)	D(m)
			26°
1	1	5040	0.46
	2	1260	0.92
1	3	560	1.39
	4	315	1.85
1	5	202	2.31

97 98

215

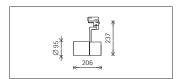
Parscan Spotlight with cross-baffle for low-voltage halogen lamps





72102.000 White (RAL9002) QT12-ax-RE 50W 12V GY6.35 1250lm Spot reflector





to safety glass.



h(m) E(Ix) D(m) 21110 014 0.28 5277 2346 0.42 1319 0.56 844 0.70

plastic, metal, black. 2 concealed fixing

Use dimmers for electronic transformers

rings for accessories.

(trailing edge). Accessories page 200

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identifying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°. Screw to set the angle of rotation and

Housing: two-piece cylinder, aluminium,

powder-coated, removable for lamp re-placement. 0°-90° tilt. Scale for identi-

fying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable

on the 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer 230/12V. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached

Anti-dazzle ring with cross-baffle:

of tilt. Internal wiring. Electronic transformer 230/12V, from

ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass.

Anti-dazzle ring with cross-baffle: plastic, metal, black. 2 concealed fixing

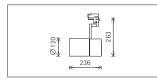
rings for accessories. Use dimmers for electronic transformers (trailing edge).

Accessories page 200

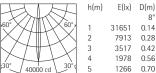










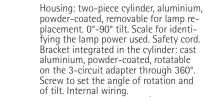






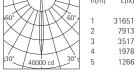


Weight 2.50kg LMF D 日本 劉 四 回



Electronic transformer 230/12V, from

ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached to safety glass.



Anti-dazzle ring with cross-baffle: cast aluminium, metal, black. 2 concealed fixing rings for accessories. Use dimmers for electronic transformers

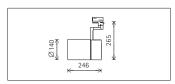
0.14

0.28

0.70

195

(trailing edge).
Accessories page 200





MIM	h(m)	E(Ix)	D(m)
			7°
60°,	1	43238	0.12
\times / / \mathbb{I} \ \times \times	2	10809	0.24
/ 7#4 W	3	4804	0.37
	4	2702	0.49
50000 cd 30° (5	1730	0.61

www.erco.com ERCO Program 2010/11

Parscan Spotlight with cross-baffle for low-voltage halogen lamps





72131.000 White (RAL9002) QR-111 75W 12V G53 8° QR-111 75W 12V G53 45°

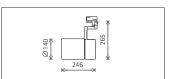
Weight 2.60kg LMF D 日本 **W**^{os} <u>@</u> [®] □

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identifying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer 230/12V, from

Electronic transformer 230/12V, from 35W.

ERCO 3-circuit adapter: plastic. Anti-dazzle ring with cross-baffle: cast aluminium, metal, black. 2 concealed fixing rings for accessories. Use dimmers for electronic transformers (trailing edge).

Accessories page 200











60° X// \\\ X 60° x
$\times /7/11 \times \times$
$\times / \vee / \times $
30° 2500 cd 30°

to safety glass.

Accessories page 200

1	h(m)	E(Ix)	D(m)
			45°
1	1	1792	0.83
	2	448	1.66
1	3	199	2.49
	4	112	3.31
	5	72	4.14
J			

Parscan Spotlight with cross-baffle and DALI adapter for low-voltage halogen lamps



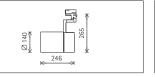


DALI PLUG+ PLAY

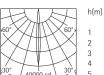
72134.000 White (RAL9002) DALI QT12-ax 75W 12V GY6.35 1575Im Spot reflector

Weight 2.50kg LMF D ∰s ®

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale to identify the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the DALI adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Reflector: aluminium, silver, mirror-fin-







ish anodised. Anti-dazzle cap attached

Anti-dazzle ring with cross-baffle: cast aluminium, metal, black. 2 concealed fixing rings for accessories.

	h(m)	E(Ix)	D(m)
]			7°
7	1	30954	0.12
$\langle $	2	7739	0.24
$\overline{}$	3	3439	0.37
\	4	1935	0.49
)°{	5	1238	0.61



Hotel NH Constanza, Barcelona. Architect: Manuel de Solá-Morales, Barcelona; Lucho Marcial, Rafael Moneo, Madrid.

Parscan Spotlight for PAR lamps

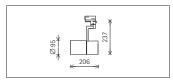




72105.000 White (RAL9002) QPAR20 50W 230V E27 10° QPAR20 50W 230V E27 30°



Housing: two-piece cylinder, aluminium, Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identifying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. ERCO 3-circuit adapter: plastic. Anti-dazzle cone: Plastic, silver, mirrorfinish aluminium vaporised. Scratch-resistant special coating. Softec lens.













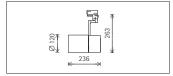
D(m) h(m) E(Ix) 943 0.54 1.07 2 236 105 1.61 2.14 38 2.68





72115.000 White (RAL9002) QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°

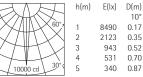


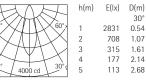




ERCO 3-circuit adapter: plastic. Anti-dazzle cone: Plastic, silver, mirrorfinish aluminium vaporised. Scratch-resistant special coating. Softee lens.







Parscan Spotlight with cross-baffle for PAR lamps



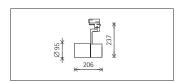


72106.000 White (RAL9002) QPAR20 50W 230V E27 10° QPAR20 50W 230V E27 30°

Weight 1.50kg LMF E 日本 🌠 🥨 🕞

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp re-placement. 0°-90° tilt. Scale for identi-fying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. ERCO 3-circuit adapter: plastic. Softec lens. Anti-dazzle ring with cross-baffle: plastic, metal, black. 2 concealed retainers for accessories.

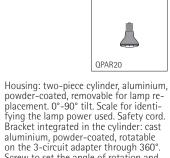
Accessories page 200







h(m) E(Ix) D(m) 10° 2909 0.17 727 0.35 323 0.52 182 0.70 116 0.87



Screw to set the angle of rotation and of tilt. Internal wiring. ERCO 3-circuit adapter: plastic.

Anti-dazzle ring with cross-baffle: plastic, metal, black. 2 concealed retain-



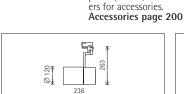






72116.000 White (RAL9002) QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30° 日本 🌃 🕮 🕙

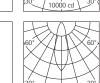


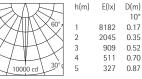


Softec lens.



QPAR30







10°



Extension to Museo del Prado, Madrid. Architect and lighting design: Estudio Rafael Moneo,

www.erco.com ERCO Program 2010/11

Parscan Spotlight for metal halide lamps





72136.000 White (RAL9002) ECG HIT-CE 35W G12 3500lm Spot reflector

Weight 2.00kg LMF D **%**05 @ PO

72135.000 White (RAL9002) ECG HIT-CE 35W G12 3500lm Flood reflector





72138.000 White (RAL9002) HIT-CE 70W G12 7300lm Spot reflector

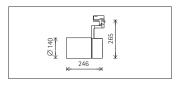
72137.000 White (RAL9002) HIT-CE 70W G12 7300lm Flood reflector

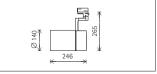
72118.000 White (RAL9002) HIT-CE 70W G12 7300lm Spherolit reflector, wide flood Weight 3.60kg LMF D **₹**05 ∰ **@**

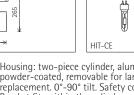
Weight 3.60kg LMF D **%**05 @ PO

Weight 3.60kg LMF D

Housing: two-piece cylinder, aluminium, Accessories page 200 powder-coated, removable for lamp replacement. 0°-90° tilt. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Anti-dazzle ring: cast aluminium, powder-coated black. Retainer for accessories.







Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Safety cord. Bracket fits within the cylinder: cast aluminium, powder-coated, rotatable on 3-circuit adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Only for ceiling mounting. Control gear with temperature controller. Timer-ignitor. Capacitor. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle ring: cast aluminium,



30° 40000 cd 30°	5	1411
HAMA	h(m)	E(Ix)
60°,	1	7552
	2	1888
K/7444/\	3	839
	4	472
30° / 10000 - \ 30°	5	303

Accessories page 200

472 2.07 302 2.59 10000 cd powder-coated black. Retainer for accessories.

h(m)

E(Ix) D(m)

35286 0.16

0.31 8822 3921 2205 0.63

0.79

D(m)

0.52

1.03

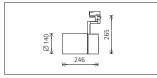
0.16

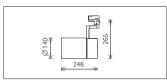
0.31

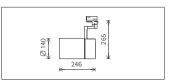
0.47

0.63

0.79



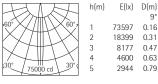


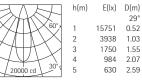


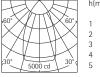












h(m) E(Ix) D(m) 4308 1.02 1077 2.04 479 3.06 269 4.08 172 5.10

Parscan Accessories

74887.000

74887,000

74883.000

74884,000

74885,000

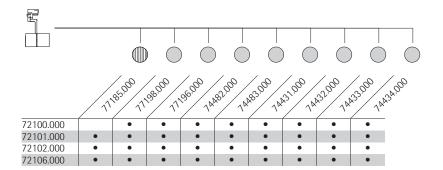
74886.000

74887,000

74888.000

74880,000

72110.000 72111.000 72112.000 72116.000





70692.000 74880.000 77185.000 Sculpture lens



70688.000 74882.000 77198.000 UV filter



70689.000 74881.000 77196.000 IR filter



74482.000 74488.000 74883.000 Skintone filter



74483.000 74489.000 74884.000 Daylight conversion filter



74431.000 74455.000 74885.000 Interference colour filter Magenta



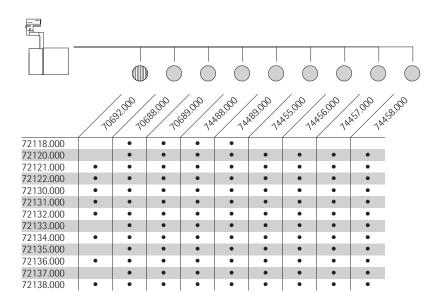
74432.000 74456.000 74886.000 Interference colour filter Amber



74433.000 74457.000 74887.000 Interference colour filter Sky blue



74434.000 74458.000 74888.000 Interference colour filter Night blue



Parscan Lens wallwasher for low-voltage halogen lamps





72103.000 White (RAL9002) QT12-ax-RE 50W 12V GY6.35 1250lm

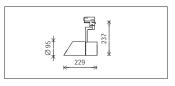


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Spread lens with reflector: aluminium, silver anodised. Use dimmers for electronic transformers

(trailing edge).





Mean illuminance E_n (lx)

Angle of tilt 20° Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 136 109 87

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identifying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360°.

Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer 230/12V, from

ERCO 3-circuit adapter: plastic. Spread lens with reflector: aluminium, silver anodised.

Use dimmers for electronic transformers (trailing edge).

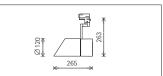
Accessories page 203







日本 む 🕮 🕞 🗆





Mean illuminance E_n (lx)

(trailing edge).

Accessories page 203

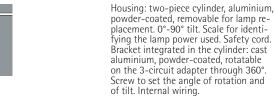
Angle of tilt 22° Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 169 135 112 94

Use dimmers for electronic transformers

72123.000 White (RAL9002) QT12-ax 100W 12V GY6.35 2200lm



Weight 2.40kg LMF D 日本 🌃 🥨 🕞 🗆



Electronic transformer 230/12V, from

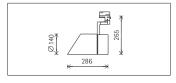
ERCO 3-circuit adapter: plastic. Spread lens with reflector: aluminium, silver anodised.



Mean illuminance En (Ix)

Angle of tilt 20° Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (lx) 222 179 149 125

201





www.erco.com ERCO Program 2010/11

Parscan Lens wallwasher with DALI adapter for low-voltage halogen lamps



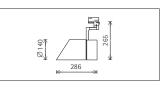


DALI PLUG+ PLAY

72139.000 White (RAL9002) DALI QT12-ax 75W 12V GY6.35 1575lm

Weight 2.40kg LMF D ₩os PG

Housing: two-piece cylinder, aluminium, powder-coated, removable for lamp re-placement. 0°-90° tilt. Scale to identify the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the DALI adapter through 360°. Screw to set the angle of rotation and of tilt. Internal wiring. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.
Spread lens with reflector: aluminium,



silver anodised.



Accessories page 203

Mean illuminance E_n (lx)

Angle of tilt 22°

Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 172 137 108

Parscan Lens wallwasher for PAR lamps





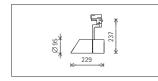
powder-coated, removable for lamp replacement. 0°-90° tilt. Scale for identi-fying the lamp power used. Safety cord. Bracket integrated in the cylinder: cast aluminium, powder-coated, rotatable on the 3-circuit adapter through 360° Screw to set the angle of rotation and of tilt. Internal wiring. ERCO 3-circuit adapter: plastic. Spread lens with reflector: aluminium, silver anodised.

Housing: two-piece cylinder, aluminium,

Accessories page 203

72107.000 White (RAL9002) QPAR20 50W 230V E27 10°







Mean illuminance En (Ix) Angle of tilt 20° Wall height (m)

1.00 1.00 1.25 1.25 Offset from wall (m) 0.75 1.00 1.00 1.25 Luminaire spacing (m) Illuminance E_n (Ix) 81 62 51

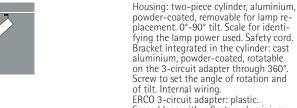


QPAR30 100W 230V E27 10°



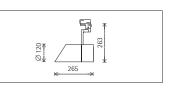


Weight 2.00kg LMF E 日本 優。 @ ⑫



Spread lens with reflector: aluminium, silver anodised.

Accessories page 203





Mean illuminance E_n (lx)

Angle of tilt 20° Wall height (m) 3.0 Offset from wall (m)

1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (lx) 151 121 101

Parscan Accessories

	724	1 ²	1 ⁴ 1	,43.00°
72103.000	•			
72107.000	•			
72113.000		•		
72117.000		•		
72123.000			•	
72139.000			•	



74408.000 74409.000 74443.000 UV filter

Museum Ara Pacis, Rome. Architect: Richard Meier, New York. Lighting design: Fisher Marantz Stone, New York.



203

www.erco.com ERCO Program 2010/11

Eclipse for track



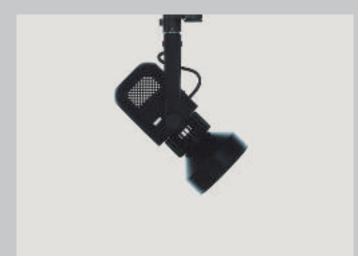
Art Gallery of Ontario, Toronto. Architect: Gehry Partners, LLP, Los Angeles. Lighting design: L'Observatoire International, New York.

Eclipse is a system with a strictly modular design. The technical construction of Eclipse is reminiscent of a medium format single-lens reflex camera. Similar to the camera lenses, the luminaire heads are interchangeable, thereby allowing the light intensity distribution to be altered to suit different lighting tasks. The advantages of the low-voltage technology are obvious: brilliant light with excellent colour rendition. In addition, the compact, virtually pinpoint light source allows an exact focused beam for wattages of up to 100W using computer-designed facet reflectors.

reflectors.

Luminaire heads are available with spot and flood reflectors for capsule lamps and with beam angles that are largely adapted to suit the values of conventional low-voltage reflector lamps. These low-voltage halogen capsule lamps are economical to replace. The wide range of accessories also includes anti-dazzle attachments, lenses, colour filters, food filters and filters to reduce IR and UV radiation. The entire Eclipse range of luminaires was designed by the Italian architect and designer Mario Bellini.

Eclipse for track



The product range consists of spotlights and lens wallwashers. Housing and bracket are cast aluminium and powder-coated black or white. Some spotlights are also available in silver. The electrical connection is always made by a 3-circuit adapter. Accessories are attached using mounting rings.

Spotlights



Eclipse spotlights are available for low-voltage halogen lamps up to 100W. They have electronic transformers and operation is confirmed by an LED function indicator. They can be dimmed using the integral potentiometers. High-pressure discharge lamps with 35W are also

ApplicationRotationally symmetrical, very narrow to medium beam light distribution for accent lighting in museums, exhibitions, art galleries, sales areas and promotional areas.

Lens wallwashers



Using low-voltage halogen lamps up to 100W/12V or 35W highpressure discharge lamps allows a uniform illumination of walls in rooms up to 6m high. Each lens wallwasher is fitted with a wall-washer attachment. This includes a diffusing lens and the typical ERCO wallwasher reflector.

Application

Asymmetrical light distribution for highly uniform wall illumination in museums, exhibitions, art galleries as well as promotional areas and around entrances.

205

Extension to Museo del Prado, Madrid. Architect and lighting design: Estudio Rafael Moneo, Madrid.



www.erco.com ERCO Program 2010/11

Eclipse Spotlight for low-voltage halogen lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°

Transformer housing: plastic. Electronic transformer 230/12V, from 35W. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Light head with bayonet fixing and electrical wiper contacts: cast aluminium, powder-coated. Reflector: aluminium, silver, mirrorUse dimmers for electronic transformers (trailing edge). Accessories page 208

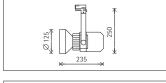


Anti-dazzle cap attached to safety

75376.000 White (RAL9002) **75375.000** Black 75378.000 Silver QT12-ax 100W 12V GY6.35 2200lm Flood reflector Safety glass.



Weight 1.70kg LMF D 日本 🌑 🅸 🕮 🕞



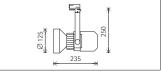
finish anodised.



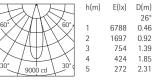


h(m) E(Ix)D(m) 0.09 62231 15558 0.17 6915 0.26 3889 0.35 2489 0.44

Weight LMF D	1.7	Okg	
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Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°

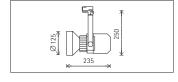
Transformer housing: plastic. Electronic transformer 230/12V, from 35W. Potentiometer for brightness control 10%–100%. LED function indicator. ERCO 3-circuit adapter: plastic. Light head with bayonet fixing and electrical wiper contacts: cast aluminium, powder-coated. Use dimmers for electronic transformers

(trailing edge). Accessories page 208

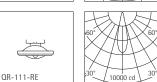


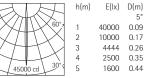
QR-111 50W 12V G53 4° QR-111-RE 50W 12V G53 24°

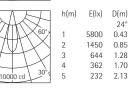
Weight 1.70kg LMF D 日本 🌑 🅸 🕮 🕞













Pimkie Shop, Mall of the Emirates, Dubai. Architect and lighting design: Pimkie Interior Design Team.

Eclipse Spotlight for metal halide lamps







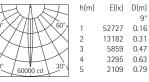
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°.

360°.
Control gear with temperature controller. Timer-ignitor. Capacitor.
ERCO 3-circuit adapter: plastic.
Light head with bayonet fixing: cast aluminium, powder-coated.
Reflector: aluminium, silver, mirror-fixing and produced. Safety plass finish anodised. Safety glass. Accessories page 208

75320.000 White (RAL9002) **75321.000** Black HIT-TC-CE 35W G8.5 3300lm Spot reflector

Weight 3.10kg LMF D **₹**0 <u>∞</u> <u>∞</u>0





21°

1.11

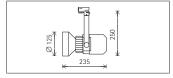
1.48

1.85

207

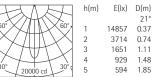
75322.000 White (RAL9002) **75323.000** Black HIT-TC-CE 35W G8.5 3300lm Flood reflector

Weight 3.10kg LMF D **₹**10 <u>@</u> <u>@</u> **@**



235

HIT-TC-CE

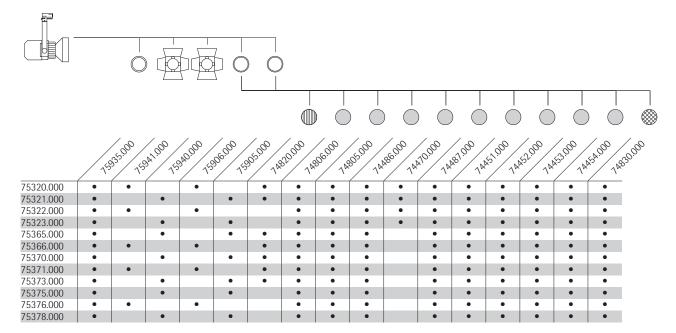


The National Art Center, Tokyo. Architect: Kisho Kurokawa architect & associates, Tokyo; Nihon Sekkei, Inc., Tokyo.



www.erco.com ERCO Program 2010/11

Eclipse Accessories









74806.000 UV filter



74805.000 IR filter



74486.000 Skintone filter



74470.000 Food filter



74487.000Daylight conversion filter



74451.000 Interference colour filter Magenta



74452.000 Interference colour filter Amber



74453.000 Interference colour filter Sky blue



74454.000 Interference colour filter Night blue



75935.000 Anti-dazzle ring Plastic, black.



74830.000 Honeycomb antidazzle screen Metal, black.



75941.000 White **75940.000** Black Barn doors Metal, powder-coated.



75906.000 White **75905.000** Black Mounting ring Plastic.

Eclipse Lens wallwasher for low-voltage halogen lamps









Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°

Transformer housing: plastic. Electronic transformer 230/12V, from 35W. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Light head as wallwasher with bayonet fixing and electrical contacts: cast aluminium, powder-coated. Spread lens with reflector, aluminium, silver anodised.

Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on . 3-circuit adapter rotatable through

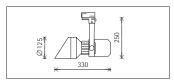
Control gear with temperature controller, timer-ignitor, capacitor. ERCO 3-circuit adapter: plastic. Light head as wallwasher with bayonet fixing: cast aluminium, powder-coated. Spread lens with reflector, aluminium, Use dimmers for electronic transformers (trailing edge).

Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m) Offset from wall (m)

1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance En (Ix) 227 183 157 131





360°

silver anodised.



Eclipse Lens wallwasher for metal halide lamps

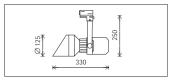


75382.000 White (RAL9002) 75383.000 Black HIT-TC-CE 35W G8.5 3300lm





Weight 2.45kg LMF D





Mean illuminance En (Ix)

Angle of tilt 15° Wall height (m) 1.00 1.00 1.25 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 324 260 220 184

Nagasaki Prefectural Art Museum, Nagasaki. Architect: Nihon Sekkei. Inc., Kengo Kuma & Associates, Tokyo. Lighting design: Take-shi Konishi (EPK Corp.), Tokyo.



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TM Spotlights for track



Functional design, whereby a luminaire's form is indicative of how it works, is the key to creating products which have a long life. A convincing example of this is the TM product range which has been in the ERCO program for more than 30 years

The cylindrical spotlight housing was originally designed for the PAR38 lamp. This made it possible to use it for tungsten halogen, general service and even low-voltage halogen lamps, since the volume means that it can contain the required transformer and the necessary optical system.

Today, ever smaller light sources provide an opportunity to use luminaire housings which were inconceivable in 1975. The TM range has now been complemented by smaller and larger housings for low-voltage halogen lamps and metal halide lamps.

metal halide lamps.
Accessories are fitted to all housings in the same way. For instance, anti-dazzle attachments on mounting frames are inserted onto the lateral guides, while others are fixed directly to the front of the spotlights.

EIB European Investment Bank, Luxembourg. Architect: Ingenhoven Architekten, Düsseldorf. Lighting design: Tropp Lighting Design, Weilheim.

TM Spotlights for track



The range consists of three spotlight sizes. The housings are cast aluminium and powder-coated black, white or silver. The lateral guides are used to mount accessories. The electrical connection is made using a 3-circuit adapter or transadapter with integral electronic transformer. For low-voltage halogen lamps and high-pressure discharge lamps, a safety glass covers the lamp.

Spotlights



In the original designs, low-voltage halogen lamps up to 100W/12V or metal halide lamps up to 100W/12V or 70W are to be used. PAR lamps up to 120W operate on mains voltage and do not require any control gear. The medium housing size takes OPAR lamps up to 100W. The small version can be operated with low-voltage halogen reflector lamps up voltage halogen reflector lamps up to 50W/12V.

ApplicationRotationally symmetrical, narrow to medium beam light distribution for accent lighting in museums, exhibitions, art galleries, sales areas and promotional areas.

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Lexus Car Show-room, Dubai. Architect: GHD, Dubai Office. Dubai Office. Lighting design: Visual Terrain, Van Nuys, CA. General contractor: Al Futtaim Carrillon. Electrical install-ation: Al Futtaim Engineering.



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TM Spotlight with transadapter for low-voltage halogen lamps



77563.000 White (RAL9002) 77563.000 Milet (NAL9002) 77564.000 Black 77565.000 Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

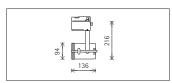




Weight 1.10kg LMF E



Housing: cast aluminium, powdercoated. 0°-90° tilt. Lateral guides for accessories. Bracket on transadapter rotatable through 360°.
Only for ceiling mounting.
ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for bright-ness control 10%-100%. LED function indicator. Circuit pre-selection. Anti-dazzle ring: cast aluminium, black powder-coated. Use dimmers for electronic transformers (trailing edge). Accessories page 215







h(m) E(Ix)D(m) 15000 0.17 3750 0.35 0.52 1667 937 0.70 600 0.87





E(Ix) D(m) h(m) 1430 1.15 357 2.31 159 3.46 89 4.62 57 5.77

TM Spotlight for low-voltage halogen lamps







Housing: cast aluminium, powder-coated. 0°-90° tilt. Lateral guides for accessories. Bracket on 3-circuit adapter rotatable through 360° Safety transformer 230/12V. Primary

ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached to safety glass.

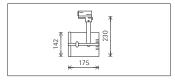
Accessories page 215



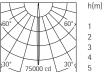




Weight 3.50kg LMF D 日本 🌑 🅸 🕮 🕞







D(m) E(Ix) 72087 0.07 18022 0.14 8010 0.21 4505 0.28 2883 0.35





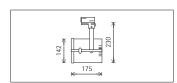


Housing: cast aluminium, powder-coated. 0°-90° tilt. Lateral guides for accessories. Bracket on 3-circuit adapter rotatable through 360° Safety transformer 230/12V. Primary

ERCO 3-circuit adapter: plastic. Accessories page 215

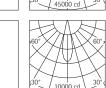
77496.000 White (RAL9002) 77495.000 Black QR-111 50W 12V G53 4° QR-111-RE 50W 12V G53 24°

Weight 2.30kg LMF C 日本 《 企 企 仓





QR-111-RE



\Box	h(m)	E(Ix)	D(m)
			5°
60°,	1	40000	0.09
\times	2	10000	0.17
	3	4444	0.26
1	4	2500	0.35
30°	5	1600	0.44
Л	h(m)	E(Ix)	D(m)

0.43

0.85 644 1.28 362

232 2.13

h(m) 5800 1450

TM Spotlight for PAR lamps



77566.000 White (RAL9002) 77567.000 Black 77567.000 Black 77568.000 Silver QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°

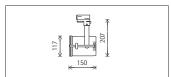




Weight 1.40kg LMF E 日本 鑑 @ ⑫

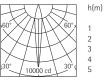


Housing: cast aluminium, powdercoated. 0°-90° tilt. Lateral guides for accessories. Bracket on 3-circuit adapter rotatable through 360°. ERCO 3-circuit adapter: plastic. Accessories page 215









	5	360	0.87
	h(m)	E(Ix)	D(m)
7	1	3000	0.54
	2	750	1.07
1	3	333	1.61
	4	188	2.14
1	5	120	2.68

E(Ix) D(m)

9000

2250 0.35

1000 562 0.70

10° 0.17

TM Spotlight for PAR lamps and general service lamps



77461.000 White (RAL9002) **77460.000** Black 77475.000 Silver PAR38 120W 230V E27 12° PAR38 120W 230V E27 30° A60 100W 230V E27 1380Im A65 150W/m 230V E27 2220Im





Weight 1.50kg LMF E 日本 🌑 🅸 뜨 😢

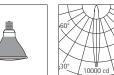




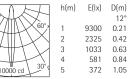












h(m) E(Ix) D(m) 3100 0.54 2 1.07 775 3 344 1.61 194 124 2.68

www.erco.com

TM Spotlight with transadapter for metal halide lamps





77593.000 White (RAL9002) ECG **77594.000** Black ECG **77595.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, flood



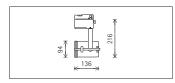


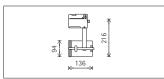
Weight 1.10kg LMF D

Weight 1.10kg LMF D



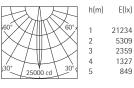
Housing: cast aluminium, powder-coated. 0°-90° tilt. Lateral guides for accessories. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector: aluminium, silver, mirror-finish anodised. Safety glass. Accessories page 215











0° (5	849	0.79
	h(m)	E(Ix)	D(m)
0°,	1	2803	34° 0.61
\bigvee	2	701	1.22
	3	311	1.83
	4	175	2.45
0° (5	112	3.06

E(lx) D(m)

5309 0.31 2359 0.47 1327 0.63

0.16

D(m)

0.79

D(m)

0.44

0.89

1.33

1.77

E(Ix)

81239 0.16

20310 0.31 9027 0.47

5077 0.63

811 2.22

h(m)

TM Spotlight for metal halide lamps



77582.000 White (RAL9002) **77583.000** Black **77588.000** Silver HIT-CE 70W G12 6600lm Spot reflector

77584.000 White (RAL9002) **77585.000** Black **77589.000** Silver HIT-CE 70W G12 6600lm Flood reflector

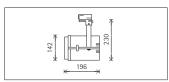


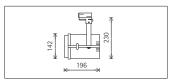


Weight 3.20kg LMF D **Æ** ♠ ♠ ♠



Housing: cast aluminium, powder-coated. 0°-90° tilt. Lateral guides for accessories. Bracket on 3-circuit adapter rotatable through 360°. Control gear with temperature controller. Timer-ignitor. Capacitor. ERCO 3-circuit adapter: plastic. Reflector insert: cast aluminium, painted black, removable for lamp replacement. Reflector: aluminium, silver, mirror-finish anodised. Safety glass. Accessories page 215

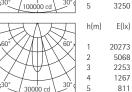




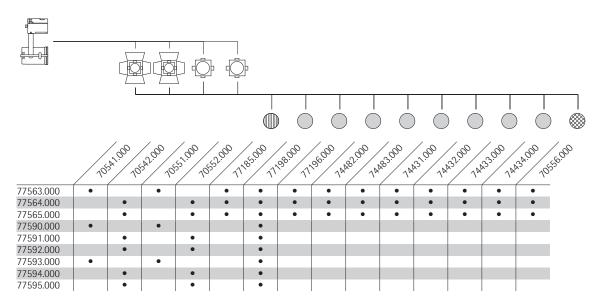


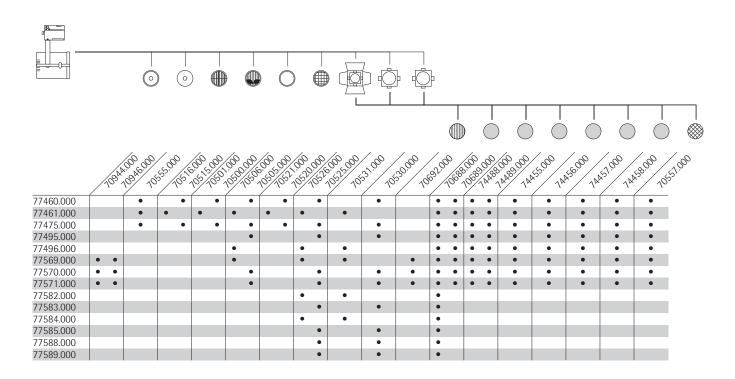


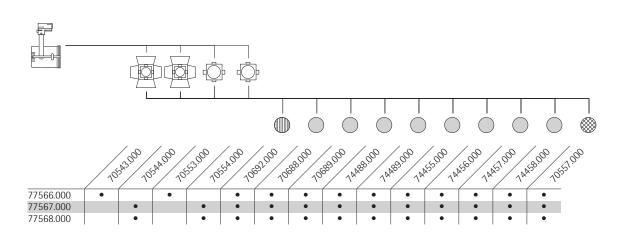




TM spotlights Accessories







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TM spotlights Accessories



70944.000 Medium interchangeable reflector Aluminium, silver, mirror-finish anodised. Safety glass.



70946.000 Flood interchangeable reflector Aluminium, silver, mirror-finish anodised. Safety glass.



70555.000Reflector
for A60 100W or
A65 150W.
Aluminium, silver
anodised.



70692.000 77185.000 Sculpture lens



70688.000 77198.000 UV filter



70689.000 77196.000 IR filter



74482.000 74488.000 Skintone filter



74483.000 74489.000 Daylight conversion filter



74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue



74434.000 74458.000 Interference colour filter Night blue



70516.000 White 70515.000 Black Sculpture attachment Metal/cast aluminium, powdercoated. Sculpture lens. Only with PAR38 Spot.



70501.000 White 70500.000 Black Lens wallwasher attachment Metal/cast aluminium, powdercoated. Spread lens with reflector, aluminium, silver anodised. Only with PAR38 Flood.



70506.000 White **70505.000** Black Multigroove baffle Cast aluminium, powder-coated.



70521.000 White 70520.000 Black Anti-dazzle screen Metal/cast aluminium, powdercoated.



70556.000 70557.000 Honeycomb antidazzle screen Metal, black.

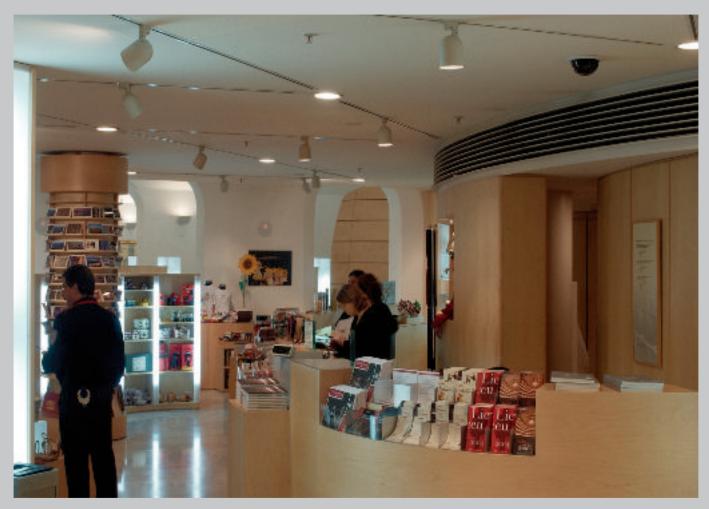


70526.000 White 70541.000 White 70543.000 White 70525.000 Black 70542.000 Black 70544.000 Black Filter holder with barn doors. Metal/cast aluminium, powdercoated.



70531.000 White 70551.000 White 70553.000 White 70530.000 Black 70552.000 Black 70554.000 Black Filter holder Metal/cast aluminium, powdercoated.

Domotec for track



Espai Liceu, Barcelona. Architecture/lighting design: Ignasi de Sola-Morales, Lluis Dilme, Xavier Fabre, Barcelona.

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The Domotec range of spotlights was originally conceived for use in home lighting. Timeless shapes such as cylinders and spheres form the basis of the design. A spherical section sliced through at 45° forms the basis of the swivel mechanism, the printed graduations facilitate the alignment of luminaire groups. These features ensure Domotec a place in the lighting concept of applications such as museums or shops. The cylindrical housings are available in various diameters to suit a variety of lamps.

suit a variety of lamps.
For accent lighting, they can be fitted with various versions of conventional reflector lamps with their excellent colour rendition qualities. In some versions, QPAR halogen reflector lamps can be used in place of conventional reflector lamps.

www.erco.com ERCO Program 2010/11

Domotec for track



The product range is available in three cylinder sizes of varying diameter and length. The housings are powder-coated white. The adjusted angle of tilt can be read off from the graduated scale. The electrical connection is through the ERCO track adapter.

Spotlights



Lamps for mains voltage, such as PAR lamps up to 120W and QPAR halogen reflector lamps up to 100W are to be used.

Application Rotationally symmetrical, narrow to medium beam light distribution for accent lighting in restaurants, cafés, wine bars and private houses.



Crossbar Cafe in the National Gallery of Victoria, Melbourne. Architect: Lab Architecture Studios, Melbourne; Bates Smart, Melbourne. Lighting design: Lighting Design Partnership, Darlinghurst.

Domotec Spotlight for R lamps, PAR lamps and general service lamps

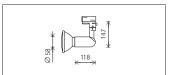




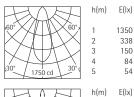
Housing: aluminium, powder-coated. Graduations for group alignment. Bracket: plastic. ERCO 3-circuit adapter: plastic. 360° rotation, 90° tilt. A65-CS 100W/c with reflector 70322.000. Accessories page 220

77201.000 White (RAL9002) R95 100W 230V E27 35° PAR38 120W 230V E27 12° PAR38 120W 230V E27 30° A65-CS 100W/c 230V E27 1000Im















150 1.89 84 2.52 54 3.15

D(m)

35° 0.63

1.26

D(m)





30°
1 3100 0.54
2 775 1.07
3 344 1.61
4 194 2.14
5 124 2.68

Domotec Spotlight for R and PAR lamps

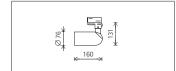




Housing and bracket: cast aluminium, powder-coated. Internally black lacquered. Graduations for group alignment. ERCO 3-circuit adapter: plastic. 360° rotation, 90° tilt.

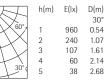
77231.000 White (RAL9002) R63 60W 230V E27 30° QPAR20 50W 230V E27 10° QPAR20 50W 230V E27 30°





















	h(m)	E(Ix)	D(m) 30°
1	1	1000	0.54
	2	250	1.07
1	3	111	1.61
	4	62	2.14
1	5	40	2.68
•			

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Domotec Spotlight for PAR lamps

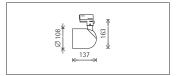




Housing: metal, powder-coated. Internally black lacquered. Graduations for group alignment. Bracket: cast aluminium, powder-coated. ERCO 3-circuit adapter: plastic. 360° rotation, 90° tilt.

77246.000 White (RAL9002) QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°

Weight 0.80kg LMF E







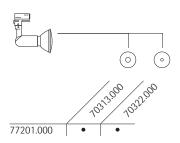






]	h(m)	E(Ix)	D(m)
,	1	3000	0.54
	2	750	1.07
1	3	333	1.61
	4	188	2.14
1	5	120	2.68

Domotec Accessories





70313.000 Luminaire attachment for PAR38 Aluminium, white. Inside: silver.



70322.000 Reflector for A-CS65 100W. Aluminium, white. Inside: silver, anodised.



Neanderthal Museum, Mettmann. Architect: Günter Zamp Kelp, Julius Krauss, Arno Brandlhuber, Berlin



The Quinta range of spotlights was developed in cooperation with Danish architect and designer Knud Holscher. It took two years of intensive development work to find a design that satisfies the numerous technical requirements for the product range, while also being easy to handle and operate.

The design of the Quinta range is dictated by mechanical functions that have never been used in this particular constellation before. Knud Holscher's design brief stated that the light head must rotate and tilt in definable angles and that, once aimed and focused, it must be possible to lock its position to avoid any accidental changes to the set lighting alignment.

In the course of designing the Quinta spotlight, Knud Holscher added angle-gauge features that clearly refer to and indicate the spotlights' basic functions. It is no coincidence that these design details are reminiscent of high-precision nautical instruments, because the Quinta product range also provides high precision for adjusting and fixing the angles of tilt and rotation

This provides maximum userfriendliness, convenience and safety, especially for professional exhibitors who demand high quality lighting technology when illuminating their exhibitions. The angles of rotation and tilt can both be read off the pinions running in the gear rings. The angle of rotation is displayed between 0° and 360°, while the angle of tilt is read and adjusted between 0° and 90°.

Quinta spotlights are cast aluminium and are available in white and silver. The product range is designed for tungsten halogen lamps, low-voltage halogen lamps and high-pressure discharge lamps. This ensures a wide range of uses for all the important areas in architecture. The wide range of accessories

The wide range of accessories also includes anti-dazzle attachments, lenses, colour filters, food filters and filters to reduce IR and UV radiation. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Volvo Car Showroom, Dubai. Architect: GHD, Dubai Office. Lighting design: Visual Terrain, Van Nuys, CA. General contractor: Al Futtaim Carrilion. Electrical installation: Al Futtaim Engineering.

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Quinta for track



The product range consists of spotlights, floodlights and lens wallwashers. The transformer housing, bracket and luminaire head are cast aluminium, powder-coated white or silver. The electrical connection is made using a 3-circuit adapter or a DALI adapter. Pinions running on gear wheels with printed graduations enable the angles of rotation and tilt to be selected and locked.

Spotlights



Low-voltage halogen lamps up to 100W/12V are often used in spotlights. The luminaire heads of various diameters are fitted with aluminium spot reflectors or flood reflectors and can rotate on their mounting on the transformer housing. The potentiometer to adjust the brightness is also located here. Spotlights for metal halide lamps of 20W to 150W and highpressure sodium vapour lamps up to 100W are available with either conventional or electronic control gear. Low-voltage halogen lamps and metal halide lamp versions are covered by a safety glass. The accessories are fitted to the light heads using a fixing ring.

Application

Very narrow to wide beam, rotationally symmetrical light distribution for accent lighting in museums, exhibitions, art galleries as well as sales areas and promotional areas.

Floodlights



An arm connects the luminaire head with the adapter. The internal wiring for the tungsten halogen lamps up to 300W is concealed. Safety glasses acting as lamp covers and aluminium reflectors are provided.

Application

Wide beam, axially symmetrical light distribution, for washlighting surfaces in galleries and shopping malls as well as ambient lighting in sales areas and promotional areas.

Lens wallwashers



Lens wallwashers are available for low-voltage halogen lamps up to 100W/12V and high-pressure discharge lamps up to 150W. Each lens wallwasher is fitted with a wallwasher attachment. This includes a spread lens and the typical ERCO wallwasher reflector.

Application

Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, exhibitions and art galleries.

Quinta Spotlight for low-voltage halogen lamps







Luminaire and transformer housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Peripheral groove for fixing accessories. Gear ring with graduations on transformer housing. Pinion to set angle of tilt. Transformer housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation. Electronic transformer 230/12V, from

35W. Potentiometer for brightness control 10%-100%. ERCO 3-circuit adapter: plastic.

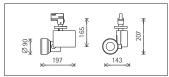
Anti-dazzle ring as lamp retainer.

Use dimmers for electronic transformers (trailing edge).

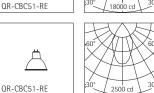
Accessories page 227

73118.000 White (RAL9002) **73119.000** Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°









(trailing edge). Accessories page 227

h(m) E(Ix) D(m) 15000 0.17 3750 2 0.35 1667 0.52 937 0.70 600 0.87

Λ	h(m)	E(Ix)	D(m)
XXXX X			60°
X60°,	1	1430	1.15
\mathcal{N}	2	357	2.31
44/	3	159	3.46
	4	89	4.62
2500 cd 30°	5	57	5.77



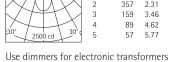




Luminaire and transformer housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Peripheral groove for fixing accessories. Gear ring with graduations on transformer housing. Pinion to set angle of tilt. Transformer housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation.

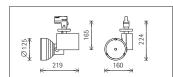
Electronic transformer 230/12V, from 35W. Potentiometer for brightness control 10%–100%. ERCO 3-circuit adapter: plastic.

Reflector: aluminium, silver, mirrorfinish anodised.

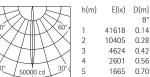






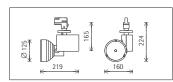




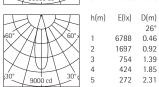


73168.000 White (RAL9002) **73169.000** Silver QT12-ax 100W 12V GY6.35 2200lm Flood reflector Safety glass















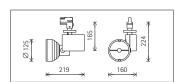
Luminaire and transformer housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Peripheral groove for fixing accessories. Gear ring with graduations on transformer housing. Pinion to set angle of tilt. Transformer housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation. Electronic transformer 230/12V, from

35W. Potentiometer for brightness control 10%-100%. ERCO 3-circuit adapter: plastic. Use dimmers for electronic transformers

Accessories page 227

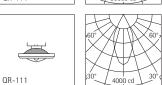






(trailing edge).





	h(m)	E(Ix)	D(m)
			8°
X60°,	1	47999	0.14
$//\parallel \backslash \searrow \backslash$	2	12000	0.28
7117	3	5333	0.42
	4	3000	0.56
50000 cd 30°	5	1920	0.70
	. ()	E(1.)	D()

h(m) E(Ix)D(m) 2800 0.83 2 700 1.66 2.49 3 311 3.31 4.14

Quinta Spotlight with DALI adapter for low-voltage halogen lamps







Luminaire and transformer housing: cast aluminium, powder-coated. Lu-minaire 0°-90° tilt. Peripheral groove for fixing accessories. Gear ring with graduations on transformer housing. Pinion to set angle of tilt. Transformer housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation.

Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.

Reflector: aluminium, silver, mirrorfinish anodised.

Accessories page 227



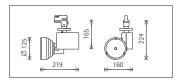
73183.000 White (RAL9002) DALI **73184.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Flood reflector Safety glass

Weight 1.15kg LMF D

DALI PLUG+

PLAY

Weight 1.15kg LMF D







h(m) E(Ix)D(m) 41618 0.14 10405 0.28 4624 0.42 2601 0.56 1665 0.70

219 × 160



HAMA	h(m
60°	1
	2
K/7444/X	2
	4 5
30° 9000 cd 30°	5

	h(m)	E(Ix)	D(m)
			26°
۱٬۶	1	6788	0.46
	2	1697	0.92
	3	754	1.39
10	4	424	1.85
)° (5	272	2.31
_			

Quinta Spotlight for metal halide lamps





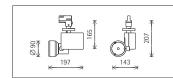


Luminaire and housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Peripheral groove for fixing accessories. Gear ring with graduations on housing. Pinion to set angle of tilt. Housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation. Flectronic control gear. ERCO 3-circuit adapter: plastic.

Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Accessories page 227

73163.000 White (RAL9002) ECG **73164.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, narrow spot

Weight 0.85kg LMF D



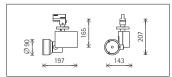




E(Ix) D(m) h(m) 21167 0.16 5292 0.31 2352 0.47 1323 0.63 847 0.79

73165.000 White (RAL9002) ECG **73166.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, flood

Weight 0.85kg LMF D







h(m) E(Ix) D(m) 2776 0.57 694 1.15 1.72 308 174 2.29 111 2.87







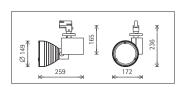
Weight 1.35kg LMF D

日本 《 企 企 仓



Luminaire and housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Gear ring with graduations on housing. Pinion to set angle of tilt. Housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of

Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Anti-dazzle ring: plastic, black. Accessories page 228





41	
60°	60°,
30° 5000	0 cd 30°

	h(m)	E(Ix)	D(m) 8°
1	1	46307	0.14
	2	11577	0.28
1	3	5145	0.42
	4	2894	0.56
1	5	1852	0.70

Quinta Spotlight for metal halide lamps

	ii nanue iamp	05					
73040.000 Silver ECG LN	Veight 1.35kg MF D I本 《 요 또 ⓒ	9 9 9 8 7 9 9 8 7 9 9 8 7 9 9 8 7 9 9 8 7 9 9 8 7 9 9 8 7 9 9 9 9	AA ()	60°	1 70 2 1 3 4	019 755 780 439	D(m) 32° 0.57 1.15 1.72 2.29 2.87
73044.000 Silver ECG LN	Veight 1.35kg MF D 日本	90 90 172 172 172 172 172 172 172 172 172 172	AA ()	60°	1 96 2 24 3 10 4 6	6584 4146 0732 6037	D(m) 8° 0.14 0.28 0.42 0.56 0.70
73049.000 Silver ECG LN	Veight 1.35kg MF D 日本	\$\frac{1}{259}\$ \\ \frac{172}{172}\$	HIT-CE	60°	1 1 ⁴ 2 3 3 4	4639 3660 1627	D(m) 32° 0.57 1.15 1.72 2.29 2.87
73008.000 Silver ECG LN	Veight 1.35kg MF D は本 後 金 ©	\$\frac{1}{259}\$ \$\frac{1}{172}\$ \$\frac{9}{172}\$	AA () HIT-CE	60°	1 5 2 1 3 4	788 447 643 362	D(m) 53° 1.00 1.99 2.99 3.99 4.99
	3	powder-coated. Lui Gear ring with grad	duations on housing. of tilt. Housing with g and graduations, on to set angle of pter: plastic. ator. Control gear ontroller. Timer- m, silver, mirror- fety glass.	Accessories page 22	28		
73014.000 Silver	Veight 3.20kg MF D	282 202 885 202 A	AA ¶ HIT-CE	60°	1 43 2 10 3 4 4 2	3661 0915 4851 2729	D(m) 8° 0.14 0.28 0.42 0.56 0.70
73019.000 Silver	Veight 3.20kg MF D	\$\frac{1}{282} \frac{1}{202} \frac{1}{202}	ÅÅ ∰ HIT-CE	60°	1 60 2 11 3 4	618 654 735 414	D(m) 32° 0.57 1.15 1.72 2.29 2.87
73012.000 Silver LN	Veight 3.20kg MF D	282	AA ¶ HIT-CE	60°	1 87 2 21 3 9 4 5	E(lx) 7323 1831 9703 5458 3493	D(m) 8° 0.14 0.28 0.42 0.56 0.70
73017.000 Silver	Veight 3.20kg MF D	282 202 885 202 A	₩ HIT-CE	60°	1 13 2 3 3 1	E(lx) 3235 3309 1471 827 529	D(m) 32° 0.57 1.15 1.72 2.29 2.87
73009.000 Silver	Veight 3.20kg MF D ©	282 × 202 ×	HIT-CE	60°	1 5: 2 1: 3 4	233 308 581 327	D(m) 53° 1.00 1.99 2.99 3.99 4.99

Quinta Spotlight for metal halide lamps







Luminaire and housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Gear ring with graduations on housing. Pinion to set angle of tilt. Housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation. Electronic control gear.

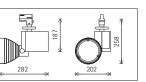
Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Anti-dazzle ring: plastic, black.

73077.000 White (RAL9002) ECG **73078.000** Silver ECG HIT-CE 150W G12 15000lm Spot reflector

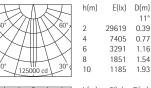
Weight 1.80kg LMF D **™** △ •

Weight 1.80kg LMF D

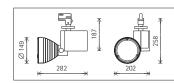
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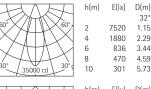






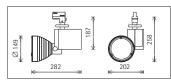




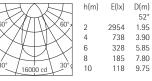


73081.000 White (RAL9002) ECG **73082.000** Silver ECG HIT-CE 150W G12 15000lm Spherolit reflector, wide flood Use lamp with cylindrical discharge tube.









Quinta Spotlight for high-pressure sodium vapour lamps



73026.000 White (RAL9002)

73027.000 Silver HST 100W PG12 5000lm

Flood reflector



4 <u>6</u> <u>6</u> <u>6</u>



Luminaire and housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Gear ring with graduations on housing. Pinion to set angle of tilt. Housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation.

rotation.

ERCO 3-circuit adapter: plastic.

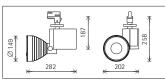
LED function indicator. lgnitor/stabilizing device, control gear
with temperature controller.

Capacitor.

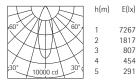
Reflector: aluminium, silver, mirrorfinish anodised. Anti-dazzle ring: plastic, black.

Capacitor. Reflector: aluminium, silver, mirror-

Weight 3.50kg LMF C







D(m)

0.59

1.18

1.78

2.37

2.96

Accessories page 228

Quinta Accessories



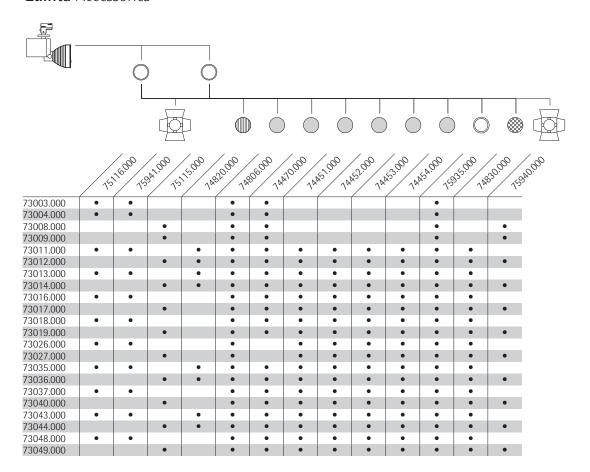
Galleria d'Arte moderna "Sant'Anna", Palermo. Lighting design: Adragna Illuminazione, Alcamo.



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Quinta Accessories









74406.000 74806.000



74405.000 74805.000



74484.000 74486.000 Skintone filter



74470.000 Food filter



74485.000 74487.000 Daylight conversion filter



74447.000 74451.000 Interference colour filter Magenta



74448.000 74452.000 Interference colour filter Amber



74449.000 74453.000 Interference colour filter Sky blue



74450.000 74454.000 Interference colour filter Night blue



75825.000 75935.000 Anti-dazzle ring Plastic, black.



74430.000 74830.000 Honeycomb antidazzle screen Metal, black.



75831.000 White **75941.000** White **75830.000** Black **75940.000** Black Barn doors Metal, powder-coated.



75116.000 White 75115.000 Black Mounting ring for filters and anti-dazzle rings. Cast aluminium.



75801.000 White **75906.000** White **75800.000** Black **75905.000** Black Mounting ring Plastic.

Quinta Floodlight for tungsten halogen lamps







Housing and bracket: cast aluminium, powder-coated. Graduations and in-

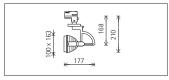
powder-coated. Graduations and internal gear ring. Pinion to set angle of tilt, 0°-90°. ERCO 3-circuit adapter: plastic, with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation.

Reflector: aluminium, silver anodised. Anti-dazzle frame: cast aluminium, black powder-coated.

Safety glass. Accessories see below

73151.000 White (RAL9002) **73152.000** Silver QT-DE12-RE 120W 230V R7s L75mm 2300lm









h(m) E(lx) D(m) 74° 80° 1.51 1.68 850 213 3.01 3.36 4.52 5.03 53 6.03 6.71 34 7.54 8.39







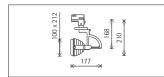
Housing and bracket: cast aluminium, powder-coated. Graduations and in-

ternal gear ring. Pinion to set angle of tilt, 0°-90°.
ERCO 3-circuit adapter: plastic, with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation.

Reflector: aluminium, silver anodised. Anti-dazzle frame: cast aluminium, black powder-coated. Safety glass. Accessories see below

73156.000 White (RAL9002) **73157.000** Silver QT-DE12-RE 230W 230V R7s L114mm 5000lm





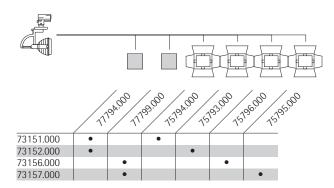




h(m) E(lx) D(m) 84° 80° 1498 1.80 1.68 375 3.60 3.36 166 5.40 5.03 94 7.20 6.71 60 9.00 8.39

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Quinta Accessories





77794.000 77799.000 UV filter



75794.000 White 75793.000 Black Barn doors Metal, powdercoated.



75796.000 White 75795.000 Black Barn doors Metal, powdercoated

www.erco.com ERCO Program 2010/11

Quinta Lens wallwasher for low-voltage halogen lamps









Luminaire and transformer housing: cast aluminium, powder-coated. Lu-minaire 0°-90° tilt. Gear ring with graduations on transformer housing. Pinion to set angle of tilt. Transformer housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation. Electronic transformer 230/12V, from

35W. Potentiometer for brightness control 10%-100%.

ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised.

Use dimmers for electronic transformers (trailing edge).



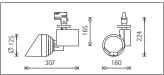
Angle of tilt 15°

Wall height (m)

Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 227 183 157 131

with reflector: aluminium, silver anod-







Quinta Lens wallwasher with DALI adapter for low-voltage halogen lamps



73188.000 White (RAL9002) DALI 73189.000 Silver DALI QT12-ax 100W 12V GY6.35 2200lm



DALI PLUG+ PLAY



Weight 1.55kg LMF D **4** <u>6</u> <u>6</u> <u>6</u>



angle of rotation. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Wallwasher attachment: cast alu-

Luminaire and transformer housing:

cast aluminium, powder-coated. Luminaire 0°-90° tilt. Gear ring with graduations on transformer housing. Pinion to set angle of tilt. Transformer housing with horizontal gear ring and graduations, 360° rotation. Pinion to set

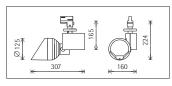
minium, powder-coated. Spread lens

Mean illuminance En (Ix)

Angle of tilt 15°

Wall height (m)

1.00 1.00 1.25 1.25 Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 227 183 157 131





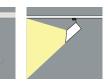
Quinta Lens wallwasher for metal halide lamps



73053.000 White (RAL9002) ECG **73054.000** Silver ECG HIT-CE 35W G12 3500lm

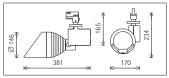
Weight 1.90kg LMF D 日本 《 企 企 仓

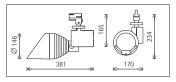




Luminaire and housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Gear ring with graduations on housing. Pinion to set angle of tilt. Housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation.

Electronic control gear. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised







HIT-CE	

Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m)

1.00 1.00 1.25 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (lx) 260 209 176 147

Mean illuminance En (Ix)

Angle of tilt 12° Wall height (m) 1.25 1.25 1.50 1.50 Offset from wall (m) Luminaire spacing (m) 1.25 1.50 1.50 1.75 228 205 Illuminance En (Ix)

Quinta Lens wallwasher for metal halide lamps

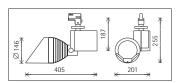








Luminaire and housing: cast aluminium, powder-coated. Luminaire 0°-90° tilt. Gear ring with graduations on housing. Pinion to set angle of tilt. Housing with horizontal gear ring and graduations, 360° rotation. Pinion to set angle of rotation. Electronic control gear. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised.





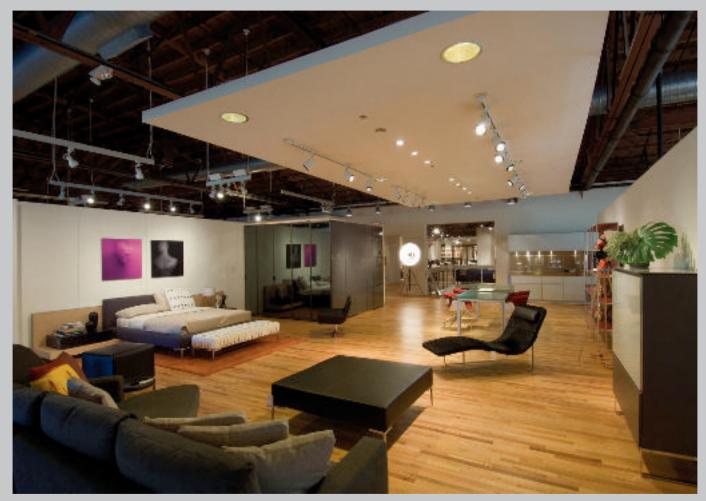
Mean illuminance E_n (lx)

Angle of tilt 10°
Wall height (m) 8.0
Offset from wall (m) 1.50 1.75 2.00 2.50
Luminaire spacing (m) 1.50 1.75 2.00 2.50
Illuminance E_n (k) 319 258 213 149

Shop window lighting with Quinta spotlights at Tommy Hilfinger, Düsseldorf.



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Domus international furniture store, Atlanta.

Irrespective of its dimensions or power class, an ERCO lighting tool is characterised by properties such as high visual comfort, advanced lighting technology, durable materials and appropriate design. This approach gave rise to Jilly, which was initially designed as a range of spotlights for halogen lamps up to 100W, but was then expanded by the addition of a line of floodlights for halogen, metal halide and compact fluorescent lamps. This allows Jilly to cover a further area of washlighting and highlighting tasks. Knud Holscher, Quinta's designer, found a neutral, elegant, smooth-finished form for the Jilly range which blends in with every style of architecture.

The housing and bracket are cast aluminium and the electrical wiring is contained internally. All Jilly spotlights have a slightly protruding, matt black anti-dazzle ring and a cross-baffle covering the light aperture. This is the visible expression of the careful measures taken to restrict glare, resulting in optimum visual comfort. Jilly floodlights also feature a high cut-off angle thanks to their special reflector geometry. Their compact dimensions make Jilly spotlights and floodlights ideal for use in areas such as home lighting, shop windows and shops as well as exhibitions or galleries. For mounting on 3-circuit track, the Jilly spotlights for low-voltage halogen lamps, like the floodlights for high-pressure discharge lamps

and compact fluorescent lamps, are fitted with a transadapter; the other versions have a 3-circuit adapter. The DALI-compatible luminaires feature digitally addressable control gear, which can individually address every single luminaire, i.e. using the ERCO Light System DALI and the pre-programmed ERCO Light Studio software.

Jilly for track



The Jilly range features different housing shapes and sizes. All housings and their brackets, which provide the connection to the adapter, are cast aluminium, the cables are contained internally.
They are mounted and installed
using 3-circuit adapters or transadapters. The Jilly range is available in white and silver.

Spotlights



Transadapters with integral electronic transformers for lowvoltage halogen reflector lamps up to 50W/12V. For low-voltage halogen capsule lamps of up to 100W/12V, Jilly spotlights are available with spot or flood reflectors. Most transadapters have a potentiometer to dim the lamp. An LED is provided to monitor the function. QPAR lamps of up to 100W and metal halide lamps for 20W operate on mains voltage. The black snoot includes an anti-dazzle ring with cross-baffle, providing glare control up to 50°. Sculpture lenses are mounted as accessories within the snoot.

Application For accent lighting in shop windows, sales areas as well as exhibitions, multifunction rooms and in the private domain.

Floodlights



Jilly floodlights are available in four housing sizes. An anti-dazzle frame in black powder-coated cast aluminium limits the emission of light. Tungsten halogen lamps up to 500W, operated via 3-circuit adapters, are to be used. The control gear for metal halide lamps up to 70W and the electronic control gear for compact fluorescent lamps up to 42W are contained within the transadapters.

Application

For background ambient lighting in shop windows and exhibitions as well as for all presentation and display areas in sales rooms, multifunction and the private domain.

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www.erco.com ERCO Program 2010/11

Jilly for track

Jilly suits a wide range of washlighting and highlighting tasks. Properties such as high visual comfort, advanced lighting technology, durable materials and appropriate design are inherent in all ERCO lighting tools, irrespective of dimensions or power rating. This approach gave rise to Jilly as a range of spotlights and floodlights. The primary characteristic of the Jilly floodlight is focal emphasis.



Focal emphasis

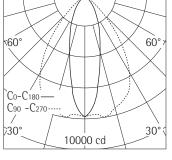
Compared with conventional wide beam floodlights, the highly focused light distribution of the Jilly floodlight in the parabolic section plane of the luminaire enables additional accent lighting to be produced horizontally on the wall. This is useful, for example, to simultaneously highlight a row of pictures on the wall.





The floodlight versions of Jilly produce a widespread light distribution in one axis with the point of focal emphasis on the other axis which combines wallwashing with accent lighting.





Due to its axial symmetry, the Jilly floodlight has two curves in a single diagram to describe its light distribution. The focal emphasis on the C₀-C₁₈₀ axis is clearly identifiable, while the wide light distribution on the other axis is shown by the broken line.

Jilly Spotlight with transadapter for low-voltage halogen lamps







Housing and bracket: cast aluminium, powder-coated. 180° tilt. Bracket on . transadapter rotatable through 360°.

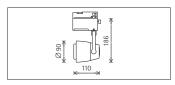
Internal wiring. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for bright-ness control 10%-100%. LED function indicator. Circuit pre-selection. Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with black-chromed cross-baffle. Removable for lamp replacement without tools. Concealed fixing ring for accessories.

Use dimmers for electronic transformers (trailing edge).

Accessories page 237

73729.000 White (RAL9002) **73739.000** Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 24°







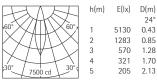


13500 0.17 2 3375 0.35 1500 0.52 944 0.70 540 0.87 D(m)

E(Ix) D(m)

h(m)











Lamp housing and bracket: cast aluminium, powder-coated. 180° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for bright-ness control 10%-100%. LED function indicator. Circuit pre-selection. Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with black-chromed cross-baffle. Removable for lamp replacement without tools. Concealed fixing ring for accessories.

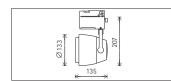
Use dimmers for electronic transformers (trailing edge).

Accessories page 237





Weight 1.15kg LMF D **&** 🖳 🚱 🖳 🙉







Accessories page 237

29700 0.14 2 7425 0.28 3300 0.42 3 1856 0.56 1188 0.70

h(m)

E(lx) D(m)



E(Ix) D(m) h(m) 5220 0.43 2 1305 0.85 3 1.28 580 326 1.70 209 2.13

lamp replacement without tools. Concealed fixing ring for accessories. Use dimmers for electronic transformers (trailing edge).





Weight 1.30kg LMF D **K**r <u>@</u> @ 🗆

> Weight 1.30kg LMF D **%** © © □



Lamp housing and bracket: cast aluminium, powder-coated. 180° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with blackchromed cross-baffle. Removable for





E(lx) D(m) h(m) 49531 0.12 2 12383 0.24 3 5503 0.37 3096 1981 0.61

D(m)

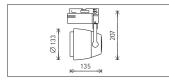
0.37

0.74 1.11

1.48

1.85

235



207



h(m) E(Ix) 8459 2 2115 3 940 529 338

QT12-ax 100W 12V GY6.35 2200lm

73789.000 White (RAL9002)

73799.000 Silver

Flood reflector

www.erco.com ERCO Program 2010/11

Jilly Spotlight with DALI transadapter for low-voltage halogen lamps







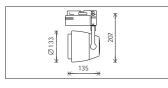
Lamp housing and bracket: cast aluminium, powder-coated. 180° tilt. through 360°. Internal wiring.
Only for ceiling mounting.
ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity. Reflector: aluminium, silver, mirror-

finish anodised. Safety glass. Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with blackchromed cross-baffle. Removable for

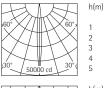
lamp replacement without tools. Concealed fixing ring for accessories. Accessories page 237

DALI PLUG+ PLAY

73808.000 White (RAL9002) DALI Weight 1.40kg LMF D 73809.000 Silver DALI QT12-ax 100W 12V GY6.35 2200lm (C) P() [] Spot reflector







0.12 49531 12383 0.24 5503 0.37 3096 0.49 1981 0.61 D(m) 0.37

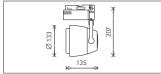
> 0.74 1.11

1.85

E(Ix)D(m)

73810.000 White (RAL9002) DALI **73811.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Flood reflector

Weight 1.40kg LMF D <u>@</u> P 🗆





HAMA	h(m)	E(Ix)
60° 60°,	1 2 3 4 5	8459 2115 940 529 338

Jilly Spotlight for PAR lamps





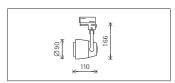


Housing and bracket: cast aluminium, powder-coated. 180° tilt. Bracket on 3circuit adapter rotatable through 360°. Internal wiring.

ERCO 3-circuit adapter: plastic. Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with blackchromed cross-baffle. Removable for lamp replacement without tools. Concealed fixing ring for accessories. Accessories page 237

77306.000 White (RAL9002) 77307.000 Silver QPAR-CB20 75W 230V GZ10 25°









E(Ix) D(m) h(m) 25° 2273 0.44 568 0.89 253 1.33 142 1.77 91 2.22





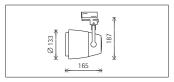


Housing and bracket: cast aluminium, powder-coated. 180° tilt. Bracket on 3circuit adapter rotatable through 360°. Internal wiring.

ERCO 3-circuit adapter: plastic. Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with blackchromed cross-baffle. Removable for lamp replacement without tools. Concealed fixing ring for accessories. Accessories page 237

77308.000 White (RAL9002) 77309.000 Silver QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°

Weight 1.30kg LMF E **%** 0 0 0





QPAR30



Λ	h(m)	E(Ix)	D(m)
\mathcal{K}			10°
× 60°	1	8182	0.17
	2	2045	0.35
$H \rightarrow A$	3	909	0.52
	4	511	0.70
00 cd 30°	5	327	0.87
	. ()	E(I)	D()

D(m) h(m) E(Ix) 2728 0.54 1.07 682 3 303 1.61 109 2.68

Jilly Spotlight with transadapter for metal halide lamps







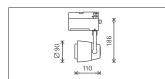
Weight 0.65kg LMF D

%17 <u>@</u> **@**



Housing and bracket: cast aluminium, powder-coated. 180° tilt. Bracket on transadapter rotatable through 360°. Internal wiring.
ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.
Reflector: aluminium, silver, mirrorfinish anodised. Safety glass.
Snoot: cast aluminium, powder-coated internal anti-dazzle ring, with black-chromed cross-baffle. Removable for lamp replacement without tools. Con-

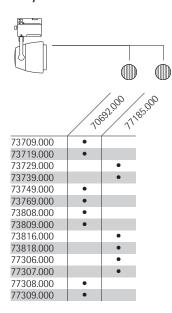
cealed fixing ring for accessories. Accessories see below





HALA	h(m)	E(Ix)	D(m)
.X//\\\\\\\\			13°
0° × 60°,	1	11828	0.23
\searrow / \ \searrow \	2	2957	0.46
/ / ## / /	3	1314	0.68
	4	739	0.91
0° / 15000 cd \ 30° (5	473	1.14

Jilly Accessories





70692.000 77185.000 Sculpture lens

Jilly Floodlight for tungsten halogen lamps



77312.000 White (RAL9002) **77313.000** Silver OT-DE12-RE 120W 230V R7s L75mm 2300lm





Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°. Internal wiring. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver anodised. Anti-dazzle frame: cast aluminium, black powder-coated. Safety glass. Accessories page 239







H3/12H
60° × 60°,
IX XHAX XI
L XMMX
X 7-4-X
30°
3000 cd 30

Γ	h(m)	E(Ix)	D(m)	
			24°	64°
60°,	1	2063	0.43	1.25
\times	2	516	0.85	2.50
/	3	229	1.28	3.75
1	4	129	1.70	5.00
30°	5	83	2.13	6.25

Jilly Floodlight for tungsten halogen lamps



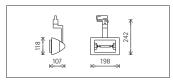




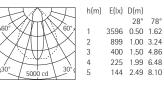
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°. Internal wiring. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver anodised. Anti-dazzle frame: cast aluminium, black powder-coated. Safety glass. Accessories page 239

77318.000 White (RAL9002) **77319.000** Silver OT-DE12-RE 230W 230V R7s L114mm 5000lm











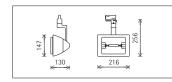




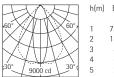
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°. Internal wiring. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver anodised. Anti-dazzle frame: cast aluminium, black lacquered. Safety glass. Accessories page 239

77323.000 White (RAL9002) **77324.000** Silver QT-DE12-RE 400W 230V R7s L114mm 9000lm









h(m) E(x) D(m) 29° 74° 1 1 7395 0.52 1.51 2 1849 1.03 3.01 2 1852 4.52 4 462 2.07 6.03 2° 5 296 2.59 7.54

Jilly Floodlight with transadapter for metal halide lamps



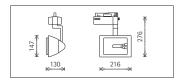




Lamp housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector: aluminium, silver anodised. Anti-dazzle frame: cast aluminium, black powder-coated. Safety glass. Accessories page 239

73804.000 White (RAL9002) ECG **73805.000** Silver ECG HIT-CE 35W G12 3500lm

Weight 1.75kg LMF D © ©



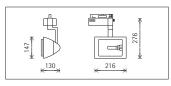




h(m) E(lx) D(m) 21° 71° 1 3098 0.37 1.43 2 774 0.74 2.85 3 344 1.11 4.28 4 194 1.48 5.71 5 124 1.85 7.13

73806.000 White (RAL9002) EC	G
73807.000 Silver ECG	
HIT-CE 70W G12 7300lm	

Weight 1.75kg LMF D ∰ © ©



60° A 10° A

HANA	h(m)	E(
60°	1	640
	2	16
K/YHHY/A	3	7
	4	40
30° 7500 cd 30°	5	2

h(m) E(lx) D(m)
21° 71°
1 6461 0.37 1.43
2 1615 0.74 2.85
3 718 1.11 4.28
4 404 1.48 5.71
5 258 1.85 7.13

Jilly Floodlight with transadapter for compact fluorescent lamps





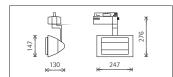


Lamp housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Internal wiring.
Only for ceiling mounting.
ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector: aluminium, silver anodised. Anti-dazzle frame: plastic, black. Dif-

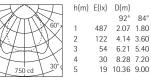
fuser: glass, frosted.

77332.000 White (RAL9002) ECG **77333.000** Silver ECG TC-TELI 32W GX24q-3 2400lm TC-DEL 26W G24q-3 1800lm

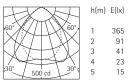
Weight 1.60kg LMF C **%** P 🖸









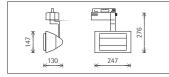


D(m) 92° 2.07 1.80 4.14 3.60 6.21 5.40 8.28 7.20 15 10.36 9.00

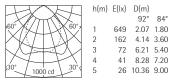
239

77336.000 White (RAL9002) ECG **77337.000** Silver ECG TC-TELI 42W GX24q-4 3200lm

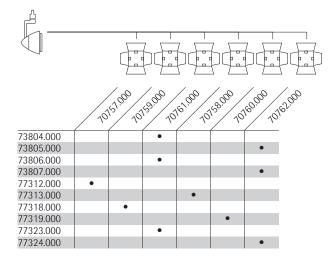
Weight 1.60kg LMF_C **%**7 🕑 🗆







Jilly Accessories





70757.000 White **70759.000** White 70761.000 White **70758.000** Black **70760.000** Black 70762.000 Black Barn doors Metal, powdercoated.

www.erco.com ERCO Program 2010/11

Pollux for track



Sala Vinçon, "L'art de la llum" (The Art of Light) exhibition, Barcelona.

The design of the Pollux product range is based on a functional concept that solves technical tasks as simply as possible. The shape of the luminaire reveals its function. The component form of Pollux spotlights makes it possible to create a vast range of light effects simply by adding accessories. Connection to the ERCO track is via a transadanter

transadapter.

Depending upon the accessories selected, it is possible to produce a defined light beam or highly uniform wallwashing. Colour filters and gobos create coloured light effects as well as the projection of patterns, images and logos. Whereas previously the qualities of light could only be created with the help of considerably larger luminaires, Pollux low-voltage spotlights now open up the possibility of scenic lighting design even for smaller rooms whether in sales areas, in the catering industry or in homes.

Pollux for track



Pollux spotlights consist of a housing with cast aluminium bracket. They are available in white and silver. The electrical connection is made using a transadapter with LED function indicator and potentiometer to adjust the brightness. Low-voltage halogen lamps up to 50W/12V are to be used. The brightness can be adjusted from 10%-100% on the transadapter using the integral potentiometer. The 20W metal halide lamp is used in all Pollux spotlights and lens wallwashers.

Spotlights



Black powder-coated anti-dazzle cones or anti-dazzle rings affect the optical performance. Where capsule lamps are used in products fitted with a Vario reflector, a knurled screw is used for focusing by adjusting the lampholder position.

Application

Rotationally symmetrical, narrow to wide beam light distribution for accent lighting in restaurants, cafés, wine bars and in private houses.

Projector spotlights



Pollux projector spotlights are available as a modular system or a complete product consisting of spotlight housing, anti-dazzle cone and holder with projection lens and mounting ring. Additional framing attachments can be mounted on the holder, gobos or structured lenses can be mounted on the mounting ring to project patterns. The individual elements can be adjusted and locked using the knurled screw on each carrier.

Application

To project lighting effects, using gobos, structured lenses and filter foils; for use in restaurants, cafés, wine bars and the private domain.

Lens wallwashers



For use as a lens wallwasher, a spotlight has been fitted with a wallwasher attachment, which contains a spread lens and the typical ERCO wallwasher reflector.

Application

Wide beam, axially symmetrical light distribution for wallwashing in restaurants, cafés, wine bars and also entrance areas and exhibitions in normal height rooms.

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www.erco.com ERCO Program 2010/11

Pollux for track



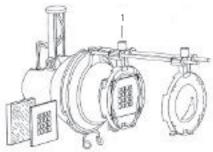
The system philosophy behind these luminaires provides solutions for different lighting concepts in one luminaire range: narrow to medium light beams for accent lighting and lens wallwashers for the uniform illumination of shelves or walls. The projection spotlights with framing attachments are suitable for the illumination of pictures to give the impression of the pictures being illuminated from within.







Bordered patterns can be projected onto surfaces using gobos, while ribbed lenses produce softedged patterns. Either element is inserted in the mounting ring (1) individually or together. To focus capsule lamps, the lampholder position can be adjusted using the rear knurled screw.

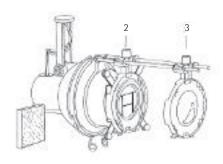






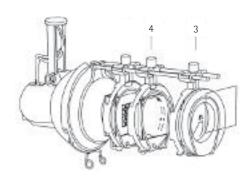


The framing attachment (2) enables freely adjustable, square patches of light to be projected in order to accentuate pictures. Structured lenses can be used to create additional light effects on illuminated surfaces. By adjusting the projection lens (3), soft effects can be produced.





Light effects produced by gobos or structured lenses can be given additional coloured accents using filter foils. This is done by fitting one or more of the foils in front of the projection lens (3). The filter holder supplied is mounted on the projection lens using the spring clip. Since the foils are heat sensitive, fitting an IR filter (4) between the mounting ring and the projection lens is necessary.









Pollux Spotlight with transadapter for low-voltage halogen lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Focusing: adjustable lampholder, knurled screw. Anti-dazzle cone: metal, black powder-

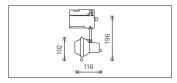
coated, attached to the spotlight by

means of a circular spring; to be removed for lamp replacement. Use dimmers for electronic transformers (trailing edge).

Accessories page 245

73759.000 White (RAL9002) **73758.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm Vario reflector





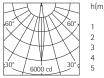




2424 0.43 0.85 2 606 269 1.28 151 1 70 97 2.13

h(m) E(Ix) D(m)

QT12-ax-RE



E(Ix) D(m) h(m) 4782 0.19 0.39 1196 531 299 0.77 191 0.96





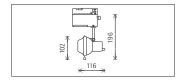
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on . transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function means of a circular spring; to be re-(trailing edge).

indicator. Circuit pre-selection. Anti-dazzle cone: metal, black powder-coated, attached to the spotlight by moved for lamp replacement.
Use dimmers for electronic transformers Accessories page 245

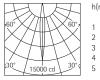


73756.000 Silver QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°

Weight 0.32kg LMF E **&** 🖳 🚱 🖳 🙉

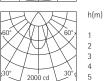






E(Ix) D(m) h(m) 11792 0.17 2948 0.35 1310 0.52 737 0.70 472 0.87





E(Ix) D(m) 60° 1038 1 15 259 2.31 115 3.46 4.62 42 5.77







Weight 0.35kg LMF D

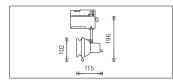
Kr <u>@</u> @ 🗆



Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirror-finish anodised. Safety glass. Focusing: adjustable lampholder, knurled screw.

Anti-dazzle ring: metal, black powdercoated, attached to the spotlight by

means of a circular spring; to be removed for lamp replacement. Use dimmers for electronic transformers (trailing edge).





H

QT12-ax-RE



h(m) E(Ix) D(m) 3546 0.43 887 0.85 2 3 394 1.28 222 142 2.13

243

h(m) E(Ix) D(m) 6068 0.26 2 1517 0.53 0.79 3 674 379 1.05 1.32

www.erco.com ERCO Program 2010/11

Pollux Spotlight with transadapter for low-voltage halogen lamps



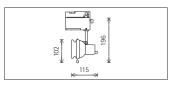




Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Anti-dazzle ring: metal, black powder-coated, attached to the spotlight by means of a circular spring; to be removed for lamp replacement. Use dimmers for electronic transformers (trailing edge).

73751.000 White (RAL9002) **73750.000** Silver QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°

Weight 0.32kg LMF E **② ② ○ □ △**







 h(m)
 E(ix)
 D(m)

 10°
 10°

 2 3125
 0.35

 3 1389
 0.52

 4 781
 0.70

 5 500
 0.87





h(m) E(lx) D(m) 60° 1 1100 1.15 2 275 2.31 3 122 3.46 4 69 4.62 5 44 5.77

Pollux Spotlight with transadapter for metal halide lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre_selection.

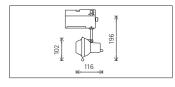
Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Focusing: adjustable lampholder, knurled screw.

Anti-dazzle cone: metal, black powdercoated, attached to the spotlight by means of a circular spring; to be removed for lamp replacement.

Accessories page 245

















h(m) E(lx) D(m) 27° 1 3042 0.48 2 761 0.96 3 338 1.44 4 190 1.92 5 122 2.40

Pollux Spotlight with transadapter for metal halide lamps







Weight 0.36kg LMF D

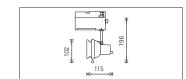
₹″ <u>©</u> № □



Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Reflector: aluminium, silver, mirror-finish anodised. Safety glass. Focusing: adjustable lampholder, knurled screw.

Anti-dazzle ring: metal, black powdercoated, attached to the spotlight by means of a circular spring; to be removed for lamp replacement.







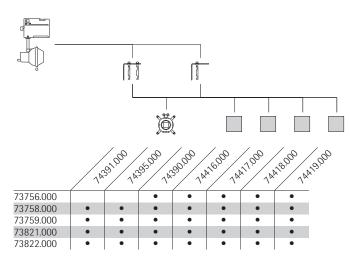
h(m) E(Ix) D(m) 9188 0.25 2297 0.49 2 1021 0.74 0.98 368 1.23





D(m) h(m) E(Ix) 4978 0.44 2 1244 0.89 1.33 311 1.77 199 2.22

Pollux Accessories





74416.000 Interference colour filter Magenta



74417.000 Interference colour filter Amber

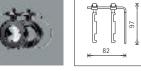


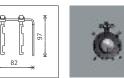
74418.000 Interference colour filter Sky blue



74419.000 Interference colour filter Night blue











245

74391.000 Pollux accessory carrier with projection lens. Mounting ring incl. aperture mask and effect grating. Use of colour filter or framing attachment possible. Weight 0.10kg

74395.000 Pollux framing attachment Baffles: stainless steel; adjustable. Weight 0.05kg





74390.000 Pollux Accessory carrier with mounting ring for colour filter. Weight 0.05kg

www.erco.com ERCO Program 2010/11

Pollux Projector spotlight with transadapter for low-voltage halogen lamps





74759.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm

Weight 0.45kg **&** © © □

Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Focusing: adjustable lampholder, knurled screw.

Vario reflector: aluminium, silver, mirror-finish anodised. Safety glass. Anti-dazzle cone: metal, black powdercoated, attached to the spotlight by



means of a circular spring; to be removed for lamp replacement. Accessory carrier with projection lens and mounting ring for gobos (ø 50mm) and structure lenses (41x41mm). Perforated cover and effect grating. Use dimmers for electronic transformers (trailing edge).

Accessories page 247

Pollux Projector spotlight with transadapter for metal halide lamps





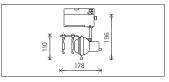
73836.000 Silver ECG HIT-TC-CE 20W PGJ5 1650lm

Weight 0.46kg ∰ ∰ © □

Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on . transadapter rotatable through 360° ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Focusing: adjustable lampholder, knurled screw. Vario reflector: aluminium, silver, mir-

ror-finish anodised. Safety glass. Anti-dazzle cone: metal, black powdercoated, attached to the spotlight by means of a circular spring; to be removed for lamp replacement. Accessory carrier with projection lens





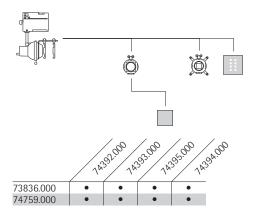
and mounting ring for gobos (ø 50mm) and structure lenses (41x41mm). Perforated cover and effect grating.

Accessories page 247





Pollux Accessories

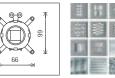














74392.000 IR filter with mounting ring. Separate carrier for filter foils.

74393.000 Filter foils set 15 foil strips of various colours. From each foil, a maximum of 4 filters can be cut individually or in square shape.

74395.000 Pollux framing attachment Baffles: stainless steel; adjustable. Weight 0.05kg

74394.000 Light effects set 12 metal stencils and 8 structured lenses (41x41mm). Different shapes and structures to create a variety of light effects; in DIN A4 files.

Pollux Lens wallwasher with transadapter for low-voltage halogen lamps









Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Focusing: adjustable lampholder, knurled screw. Spread lens with reflector: aluminium,

silver anodised. Anti-dazzle ring: metal, black powder-coated, attached to the spotlight by

means of a circular spring; to be removed for lamp replacement. Use dimmers for electronic transformers (trailing edge).





Mean illuminance E_n (lx) Angle of tilt 15° Wall height (m) 3.0 Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 0.75 1.00 1.00 1.25 Illuminance E_n (Ix) 137 105 84

247

Pollux Lens wallwasher with transadapter for metal halide lamps







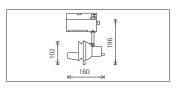
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection pre-selection. Focusing: adjustable lampholder, knurled screw. Spread lens with reflector: aluminium,

silver anodised.

Anti-dazzle ring: metal, black powder-coated, attached to the spotlight by means of a circular spring; to be removed for lamp replacement.

73830.000 White (RAL9002) ECG **73831.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm

Weight 0.38kg LMF D





Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m) Offset from wall (m)

1.00 1.00 1.25 1.25 0.75 1.00 1.00 1.25 Luminaire spacing (m) Illuminance E_n (Ix) 166 129 107



L' Almoïna Centre Arqueològic, Valencia. Archi-tect: José María Herrera García, Valencia. Lighting design: Julià Colomé, Emb-Iemma, Barcelona.



Boyds Bistro, Copenhagen / Vanloese. Archi-tect: Birgitte de Neergaard, Copen-

Castor for track



Castor low-voltage spotlights are ideal for accent lighting or washlighting for shops and trade fair stands and also for exhibition lighting. The glare control for capsule lamps or reflector lamps is provided by a metal frame. The use of a dichroic filter means colour effects can be used. The brightness of most luminaires can be individually adjusted using the integral potentiometer. The DALI-compatible luminaires have digital control gear through which each luminaire can be individually addressed for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Aati Furniture, Dubai. Architect: Aati Contracts, Dubai (interior design).

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www.erco.com ERCO Program 2010/11

Castor for track



Housings and brackets are cast aluminium and powder-coated white or silver. The electrical connection for tungsten halogen lamps is made using a 3-circuit adapter. Using transadapters, low-voltage halogen lamps are operated with electronic transformers. LED function indicator and the potentiometer to regulate the brightness are also located here. They can also be mounted and installed using a DALI transadapter. The control gear for metal halide lamps and electronic control gear for compact fluorescent lamps are in the transadapters. Filters and lenses are available as accessories.

Spotlights



The spotlight product range includes several housing sizes. The standard version of the spotlight has a square, black frame and a round anti-dazzle ring. The cover glass required for some lamps is also positioned here and can be exchanged for approved filter accessories. Low-voltage halogen lamps up to 100W/12V, QPAR lamps up to 100W and metal halide lamps up to 70W are to be

Application

Rotationally symmetrical, very narrow to wide beam, light intensity distribution for accent lighting in trade fairs and exhibitions as well as restaurants, cafés, wine bars and private houses.

Floodlights



The product range includes several housing sizes, each designed to suit the lamps being used. The luminaire cover is a black anti-dazzle frame or louvre. Low-voltage halogen lamps up to 50W/12V, metal halide lamps of 20W or compact fluorescent lamps of 42W are to be

Application Wide beam, axially symmetrical light distribution for accentuated wallwashing in trade fairs and exhibitions as well as restaurants, cafés, wine bars and private houses.



Apostrophe Shop, Dubai Festival City Mall, Dubai. Intérior design: Michael Andrews Design, Dubai.

www.erco.com ERCO Program 2010/11

Castor Spotlight with transadapter for low-voltage halogen lamps



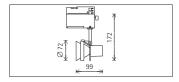




Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection.
Square attachment: cast aluminium, powder-coated. Frame with anti-dazzle ring: plastic, black Use dimmers for electronic transformers (trailing edge). Accessories page 253

73711.000 White (RAL9002) **73712.000** Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Weight 0.45kg LMF D **&** @ @ @ @

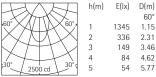






h(m) E(Ix) D(m) 14112 0.17 2 3528 0.35 1568 0.52 882 0.70 564 0.87







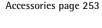




Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on . transadapter rotatable through 360° ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirror-

finish anodised. Focusable. Safety glass. Square attachment: cast aluminium, powder-coated. Frame with anti-dazzle ring: plastic, black

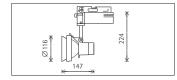
Use dimmers for electronic transformers (trailing edge).



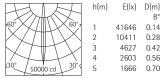












Castor Spotlight with DALI transadapter for low-voltage halogen lamps







DALI PLUG+

(C) P() [

Weight 1.05kg LMF D

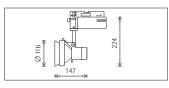


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on DALI transadapter rotatable through 360°.

Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

Reflector: aluminium, silver, mirror-finish anodised. Focusable. Safety glass. Square attachment: cast aluminium, powder-coated. Frame with anti-dazzle ring: plastic, black

Accessories page 253





30° 50000 cd 30°

E(lx) D(m) h(m) 41646 0.14 10411 0.28 4627 0.42 2603 1666 0.70

Castor Spotlight for PAR lamps







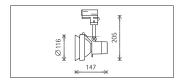
Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on 3-circuit adapter rotatable through 360°.

ERCO 3-circuit adapter: plastic. Square attachment: cast aluminium, powder-coated. Frame with anti-dazzle ring: plastic, black, as fixing ring for accessories.

Accessories page 253

73242.000 White (RAL9002) **73243.000** Silver QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°















1	h(m)	E(Ix)	D(m)
			30°
7	1	3000	0.54
	2	750	1.07
1	3	333	1.61
	4	188	2.14
1	5	120	2.68

Castor Spotlight with transadapter for metal halide lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.
Reflector: aluminium, silver, mirror-

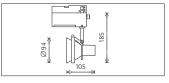
Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Square attachment: cast aluminium, powder-coated. Frame with anti-dazzle ring: plastic, black.

Accessories page 253

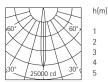
73812.000 White (RAL9002) ECG **73814.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, narrow spot















302 1.72 170 2.29

109 2.87

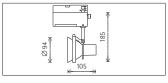
D(m)

2715 0.57 679 1.15

E(Ix)

73813.000 White (RAL9002) ECG **73815.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, flood

Weight 0.50kg LMF D ∰r ∰ № □





HAAA	h(m)	E(Ix)
60°	1 2	2715 679
	3	302 170
30° 4000 cd 30°	5	109

Castor Spotlight with transadapter for metal halide lamps







Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Reflector: aluminium, silver, mirror-finish anodised. Focusable. Safety glass.

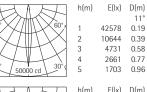
Square attachment: cast aluminium, powder-coated. Frame with anti-dazzle ring: plastic, black.
Accessories see below

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73800.000 White (RAL9002) ECG 73801.000 Silver ECG HIT-TC-CE 35W G8.5 3500lm Spot reflector

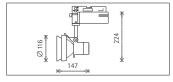




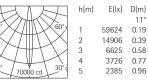


73802.000 White (RAL9002) ECG **73803.000** Silver ECG HIT-TC-CE 70W G8.5 7300lm Spot reflector

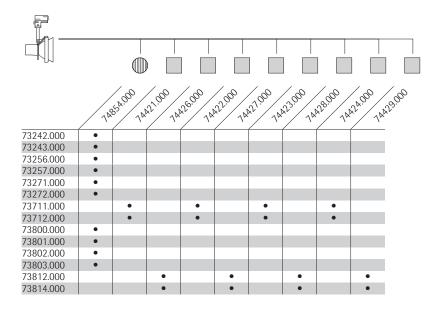
Weight 1.05kg LMF D **%** © ©







Castor Accessories





74854.000 Sculpture lens



74421.000 74426.000 Interference colour filter Magenta



74422.000 74427.000 Interference colour filter Amber

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74423.000 74428.000 Interference colour filter Sky blue



74424.000 74429.000 Interference colour filter Night blue

www.erco.com ERCO Program 2010/11

Castor Floodlight with transadapter for low-voltage halogen lamps



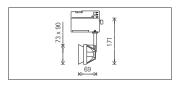




Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V, 20-50W. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver anodised. Safety glass with anti-dazzle frame, plastic, black. Use dimmers for electronic transformers (trailing edge).

73741.000 White (RAL9002) **73742.000** Silver QT12-ax-RE 50W 12V GY6.35 1250lm

Weight 0.45kg LMF D ∰ ∰ □







1	h(m)	E(Ix)	D(m)	
			78°	76°
1	1	292	1.62	1.56
	2	73	3.24	3.13
1	3	32	4.86	4.69
	4	18	6.48	6.25
1	5	12	8.10	7.81
,				

Castor Floodlight with transadapter for metal halide lamps





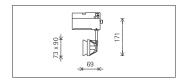


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Reflector: aluminium, silver anodised. Safety glass with anti-dazzle frame, plastic, black.

73837.000 White (RAL9002) ECG **73838.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm

Weight 0.45kg LMF D **™** ©







h(m) E(lx) D(m) 66° 73° 1 516 1.30 1.48 2 129 2.60 2.96 3 57 3.90 4.44 4 32 5.20 5.92 5 21 6.49 7.40

Castor Floodlight with transadapter for compact fluorescent lamps





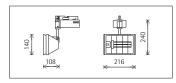


Housing and bracket: cast aluminium, powder-coated. 0°-90° tilt. Bracket on transadapter rotatable through 360°. Only for ceiling mounting. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

pre-selection. Reflector: aluminium, silver anodised. Louvre: plastic, black.

73254.000 White (RAL9002) ECG **73255.000** Silver ECG TC-TELI 42W GX24q-4 3200lm

Weight 1.45kg LMF B ©
□







h(m) E(lx) D(m) 92° 77° 1 748 2.07 1.59 2 187 4.14 3.18 3 83 6.21 4.77 4 47 8.28 6.36 5 30 10.36 7.95

Oseris for track



The Oseris group of spotlights is designed almost entirely around the advantages of halogen technology: good optical control of the emitted beam, brilliant white light and excellent colour rendition. The perforated metal housing adds the impression of lightness to the luminaire. Using the graduations indicating the angle of tilt, the luminaire can be aligned exactly, making it highly suitable for museums and exhibitions. The transadapter for mounting on the ERCO 3-circuit track features an integral potentiometer to dim the lamp between 10 and 100%. The comprehensive range of accessories, such as antidazzle attachments, lenses, colour filters, UV and IR filters, are held in place by a mounting ring.

Open vaults at the Rietberg Museum, Zurich. Architects: Arge Alfred Grazioli and Adolf Krischanitz. Lighting designers: d'lite Lichtdesign Guido Grünhage, Pia Zigeler, Zurich, Rainer Wolfsberger (Rietberg Museum).

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Oseris for track



The spotlight range consists of two housing sizes which are perforated sheet metal and powder-coated black or white. The hemispherical section at the rear is sliced through at 45°, thus forming an oblique rotational surface to adjust the direction of the beam. The printed graduations are also found here. The electronic control gear required to operate the lamps is housed in the transadapter. Spotlights with aluminium spot reflectors are available. The position of reflector to lamp can be adjusted for focus. The comprehensive range of

The comprehensive range of accessories are mounted to the spotlight using a mounting ring.

Spotlights



Depending on the housing, low-voltage halogen lamps up to 50W/12V or 100W/12V are to be used. The LED function indicator and the potentiometer to adjust the brightness are on the transadapter for low-voltage halogenlamps. The new 20W metal halide lamp is used in the small size.

Application

Rotationally symmetrical, very narrow to wide beam light distribution for accent lighting in restaurants, cafés, wine bars and private houses.



Shop window lighting with Oseris spotlights at Passeig de Gracia, Barcelona.

Oseris Spotlight with transadapter for low-voltage halogen lamps





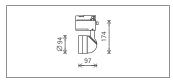


Housing: perforated steel-plate, powder-coated. 0°-90° tilt. Graduations for group alignment. Bracket: plastic rotatable on transadapter through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for bright-ness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirrorfinish anodised, focusable. Anti-dazzle cap attached to safety glass. Fixing ring: plastic, for clip-on accessorUse dimmers for electronic transformers (trailing edge).

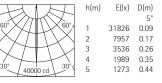
Accessories page 258

73461.000 White (RAL9002) 73460.000 Black QT12-ax-RE 50W 12V GY6.35 1250lm Spot reflector













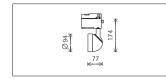


Housing: perforated steel-plate, powder-coated. 0°-90° tilt. Graduations for group alignment. Bracket: plastic, rotatable on transadapter through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100% LED function indicator. Circuit pre-selection.
Use dimmers for electronic transformers (trailing edge).

Accessories page 258









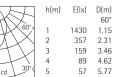


10° 15000 0.17 2 3750 0.35 3 1667 937 0.70 600 0.87

E(lx) D(m)

257





h(m)



QT12-ax 100W 12V GY6.35 2200lm

73464.000 Black

Spot reflector





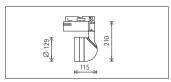
Housing: perforated steel-plate, powder-coated. 0°-90° tilt. Graduations for group alignment. Bracket: plastic rotatable on transadapter through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver, mirror-finish anodised, focusable. Safety glass. Fixing ring: plastic, for clip-on accessor-

Use dimmers for electronic transformers

(trailing edge).

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	h(m)	E(Ix)	D(m)
			5°
60°	1	57451	0.09
	2	14363	0.17
W 7 1 1 1	3	6383	0.26
	4	3591	0.35
30° / 60000 cd \ 30° (5	2298	0.44

www.erco.com ERCO Program 2010/11

Oseris Spotlight with transadapter for metal halide lamps







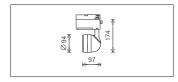
Housing: perforated steel-plate, powder-coated. 0°-90° tilt. Graduations for group alignment. Bracket: plastic, rotatable on transadapter through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

pre-selection. Reflector: aluminium, silver, mirrorfinish anodised, focusable. Safety glass. Fixing ring: plastic, for clip-on accessor-

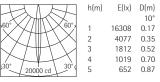
Accessories see below

73466.000 White (RAL9002) ECG **73467.000** Black ECG HIT-TC-CE 20W PGJ5 1650lm Spot reflector

Weight 0.50kg LMF D

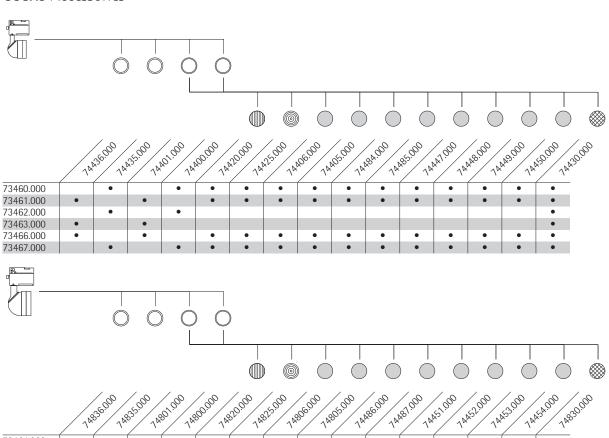






Oseris Accessories

73464.000 73465.000



Oseris Accessories



74420.000 74820.000 Sculpture lens



74425.000 74825.000 Flood lens



74406.000 74806.000 UV filter



74405.000 74805.000 IR filter



74484.000 74486.000 Skintone filter



74485.000 74487.000 Daylight conversion filter



74447.000 74451.000 Interference colour filter Magenta



74448.000 74452.000 Interference colour filter Amber



74449.000 74453.000 Interference colour filter Sky blue



74450.000 74454.000 Interference colour filter Night blue



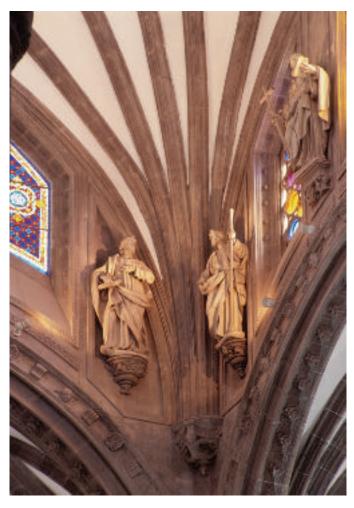
74436.000 White **74836.000** White **74435.000** Black **74835.000** Black Multigroove baffle Plastic.



74430.000 74830.000 Honeycomb antidazzle screen Metal, black.



74401.000 White 74801.000 White 74400.000 Black 74800.000 Black Mounting ring for filters, lenses and honeycomb anti-dazzle screens. Plastic.





Vigeland Museum, Oslo: The brilliant, directed light of the Oseris spotlights for lowvoltage halogen lamps brings out the shape of the sculptures by the Norwegian artist.

Catedral de Santa Ana, Las Palmas. Architect: Salvador Fabregas (conversion). Lighting designer: Carlos Guerra.

Gimbal for track



This spotlight has a technical appearance and functional design. The light head can be rotated and tilted to provide accurate alignment. This makes the spotlight a versatile and economical instrument for highlighting. The light of the low-voltage halogen lamp is characterised by its brilliance and its excellent colour rendition. Today, ever smaller light sources provide an opportunity to use the luminaire with a metal halide lamp of 20W for efficient accent lighting.

"Lindesnes Fyr" visitor centre, Lindesnes. Architects: Basis Arkitekter AS, Kristiansand.

Gimbal for track



Housing and bracket are plastic and cast aluminium, available in silver. The electrical connection is made using a transadapter for 3-circuit track.

Spotlights



Low-voltage halogen reflector lamps up to 50W/12V are to be used. An anti-dazzle ring functions as a lamp retainer. The LED function indicator and the potentiometer to adjust the brightness are on the transadapter for low-voltage halogen lamps. A version for the metal halide lamp of 20W with Spherolit reflector is also available. The tilt and rotate motions are provided through the

bracket, while the electrical supply is provided by a transadapter.

Application
Rotationally symmetrical, very narrow to wide beam light distribution, ideal for accent lighting of exhibits either in exhibitions or in sales areas and in private houses.

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Highquality food under highquality light: Manu-factum Brot + Butter, Waltrop.



www.erco.com ERCO Program 2010/11

Gimbal Spotlight with transadapter for low-voltage halogen lamps

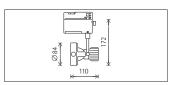




Housing and bracket: plastic, lacquered/cast aluminium, powder-coated. 180° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Anti-dazzle ring: plastic, black. Use dimmers for electronic transformers (trailing edge).

73220.000 Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Weight 0.45kg LMF E ∰ ∰ © □ क़







h(m)	E(lx)	D(m)
		10°
1	15000	0.17
2	3750	0.35
3	1667	0.52
4	937	0.70
5	600	0.87





h(m)	E(Ix)	D(m)
		60°
1	1430	1.15
2	357	2.31
3	159	3.46
4	89	4.62
5	57	5.77

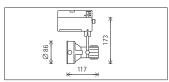
Gimbal Spotlight with transadapter for metal halide lamps



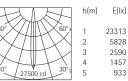


Housing and bracket: plastic, lacquered/cast aluminium, powder-coated. 180° tilt. Bracket on transadapter rotatable through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.
Reflector: aluminium, silver, mirror-finish anodised. Safety glass.
Anti-dazzle ring: cast aluminium, powder-coated, inside plastic, black.









D(m)

0.16

0.31 0.47

0.63

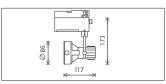
0.79

2791 0.57 698 1.15 310 1.72 174 2.29

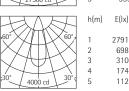
E(Ix) D(m)

112 2.87

73274.000 Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, flood Weight 0.45kg LMF D **W**^r <u>@</u> **©** □









The name Optec covers a spotlight range whose key design feature is the separation of light head and control gear housing. The system structure with its various lamp options for LEDs,low-voltage reflector lamps or high-pressure sodium vapour lamps makes it ideal for lighting sales areas, restaurants or galleries. The coloured high-power LEDs enable the Optec varychrome spotlight to be used for dynamic colour mixing. The varychrome LED luminaires have a colour compensation feature to correct the manufacturing tolerances by calibrating the LED module. The result is that the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type. Optec spotlights for coolbeam reflector lamps have a special Softec lens to optimise the light quality of the lamp. Versions with wallwasher technology and an appropriate range of accessories complete the Optec range.

The relationship between visual comfort and efficiency is optimised for the applications of these spotlights.

The separate control gear housings provide a thermally separated mounting compartment for the electronic control gear of LEDs, low-voltage lamps or high-pressure discharge lamps. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI

with its integral ERCO Light Studio software.

A separate group within the Optec product range is made up of floodlights, wallwashers and luminaires. Their common design feature is the distinctive triangular profile. Their lighting technology meets the high requirements of museum lighting. Optec wallwashers can produce totally uniform wall lighting using various lamps such as tungsten halogen, fluorescent or compact fluorescent lamps.

Mpreis supermarket, Lans. Architect: Werner Kleon, Innsbruck. Lighting design: Manfred Draxl, Conceptlicht.at, Mils near Innsbruck

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In all Optec spotlights and lens wallwashers, the separate transformer housings are fixed to the adapters on rotatable mountings. The light heads are mounted on the side and can be tilted through 180°. Different sizes are available and accessories can be fitted to almost all the light heads. Spotlights and lens wallwashers are cast aluminium and powder-coated white or silver. Low-voltage halogen lamps are principally fitted with electronic transformers, while LEDs and high-pressure discharge lamps use electronic control gear units. Floodlights and luminaires are manufactured from aluminium profile and are easily distinguished from spotlights and lens wallwashers by their shape.

Spotlights



The coloured high-power LEDs and the DALI technology enable the Optec varychrome spotlight to be used for dynamic colour mixing. The varychrome LED luminaires have a colour compensation feature to correct the LED manufacturing tolerance. The spotlights with white LEDs are available in daylight white or warm white for Spot and Flood. Low-voltage halogen lamps up to 100W/12V can be used. Spot wide flectors and Spherolit wide flood reflectors are uselikels. Verice and available. Various shapes house the different sizes of the electronic transformers. Potentiometers for brightness control are available. With metal halide lamps of up to 150W, the electronic control gear units are housed on the side. Both spot, flood and wide flood reflectors are available. A version with metal halide lamps of 70W is also available with DALI technology. The range is completed with high-pressure sodium vapour lamps up to

100W. In general, the luminaire cover is designed as an anti-dazzle ring onto which a mounting ring is fitted for accessories.

Application Very narrow to wide beam, rotationally symmetrical light distribution for accent lighting in shop windows, sales areas as well as exhibitions, multifunction rooms and in private residences.

Floodlights



Floodlights with a basic triangular shape are manufactured from aluminium profile and powder-coated white or silver. Compact fluorescent lamp versions up to 2x18W are fitted with a louvre. Versions for metal halide lamps up to 70W are available. There is a version for 35W metal halide lamps suitable for DALI control technology.

Application

Wide beam, axially symmetrical light distribution for background lighting in shop windows and exhibitions as well as for all presentation and display areas in sales rooms, multifunction rooms and private residences.

Lens wallwashers



As with the Optec spotlights, the separate transformer housings on these lens wallwashers are also fixed to the adapters on rotatable mountings. The light heads are positioned on the side and can be tilted. Each lens wallwasher is fitted with a wallwasher attachment. This features a lens and the typical ERCO wallwasher reflector. Low-voltage halogen lamps up to 100W/12V or metal halide lamps up to 150W can be used. There is a version for 70W metal halide lamps suitable for DALI control technology.

Application

Asymmetrical light distribution for highly uniform wallwashing in restaurants, cafés, wine bars as well as entrance and exhibition areas.

Wallwashers



The wallwashers can be recognised by their rectangular and triangular housing form. They are cast aluminium or made of aluminium profiles and powder-coated white or silver. Due to the optimised design of the reflector, these wall-washers cannot be tilted. The small housings are mounted on the 3-circuit adapter; the longer housings are mounted with an additional mechanical adapter. Low-voltage halogen lamps of 50W, tungsten halogen lamps up to 150W, compact fluorescent lamps up to 55W, metal halide lamps up to 70W and fluorescent lamps up to 54W are to be used. There is a version for 35W metal halide lamps suitable for DALI control technology.

Application

Asymmetrical light distribution for highly uniform wallwashing and floor washlighting in restaurants, cafés, wine bars, sales areas as well as entrance and exhibition areas.

Luminaires



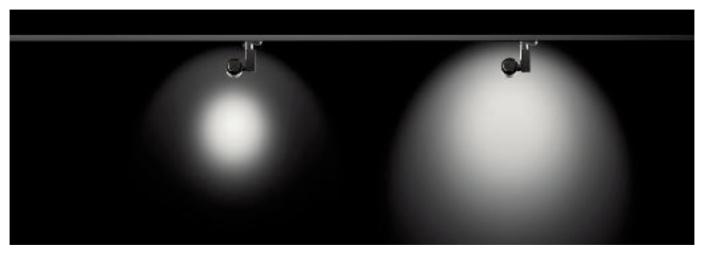
In this product range the housings use the basic triangular form of the floodlights. They are also made of aluminium profile and are powder coated in white. The electrical connection is made using 3-circuit adapters each with an additional mechanical adapter. Compact fluorescent lamps as well as T26 and T16 fluorescent lamps up to 2x58W are used in three of the housing sizes. Darklight reflectors with 30° cut-off angles or white louvres restrict the light emission.

Application

Wide beam axially symmetrical light distribution for general lighting wherever flexible use of luminaires on track systems is required, e.g. in sales areas, to follow the contours of counters, in libraries or offices.

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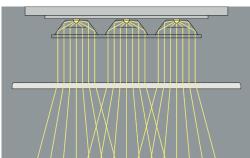


LED spotlights

Spot
For precise
accent light
on objects and
details, specifically to model the three-dimensional shape.
Beam angle
10°-20°.

Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.





Lighting control The plastic colli-mating lens designed and produced by ERCO creates a parallel beam, while a further special lens produces the precise beam angle required.



The spot lens system features a Softec lens made of clear glass.



The flood lens system features a Spherolit lens made of clear plastic.









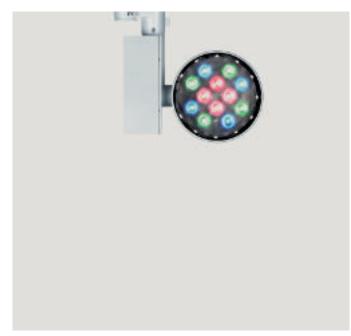
Daylight white LED spotlights in daylight white of 5500K ensure superior efficiency with acceptable colour rendition. The light colour is similar to day-light.







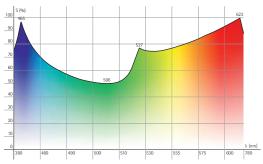
Warm white In warm white, LED spotlights have a somewhat lower light out-put ratio than in daylight white, but better colour rendition.
The light colour
of 3200K comes
close to the light of halogen lamps.



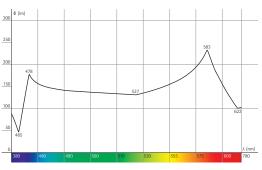
LED varychrome spotlight

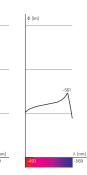
Twelve high-power LEDs produce the coloured light in this Optec spotlight. The Softec lens ensures that the three primary colours of red, green and blue are evenly mixed. The LED varychrome luminaires have a colour compensation feature to correct the manufacturing tolerances of the coloured LEDs by calibrating the LED module. The result is that the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type.

The narrow beam light distribution of the spot reflector lens system allows coloured highlighting with high colour saturation.





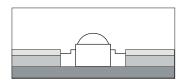




Because ERCO uses LEDs with an extremely high colour saturation in the varychrome luminaires, a particularly wide range of colours can be obtained. The saturation

diagram shows the mixed colours as wavelength λ with the saturation given as a percentage.

ERCO's varychrome LED luminaires have been optimised to produce high luminous flux with highly saturated light colours. The luminous flux diagram indicates the output of the LED module with respect to the wavelength.



LED heat management

Like other lamps, high-power LEDs generate heat. To prevent the luminous flux and life of the lamp from decreasing drastically, the maximum junction temperature must not be exceeded even during continuous operation. ERCO places particular importance on heat management in its luminaires to ensure that the LED modules remain below the critical temperature range and

operate at full output throughout their lives. Mounting the LED module directly on metalcore PCBs effectively dissipates the heat to the luminaire housing. The form, design and material of the housing all contribute to effective heat management. Extensive simulations and tests in the development phase ensure the success of the production procedures used.



LED versions: due to the rapid technological development of the LEDs, the luminance has been rising steadily. ERCO documents this improvement as a product version on the type plate of the luminaires.

Optec Spotlight with LED



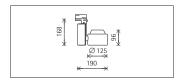




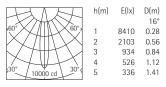
Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable through 360° on 3-circuit adapter. Electronic control gear. Potentiometer for brightness control 0%-100%. ERCO 3-circuit adapter: plastic. Replaceable LED module: high-power LEDs on metal-core PCB. Accessories page 276

72077.000 White (RAL9002) LED daylight white **72081.000** Silver LED daylight white LED 14W 1080lm 5500K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 1.25kg LMF D ∰ △ ©

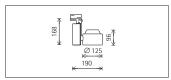




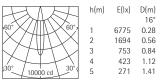


72076.000 White (RAL9002) LED warm white 72080.000 Silver LED warm white LED 14W 870lm 3200K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 1.25kg LMF D ©

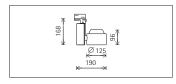




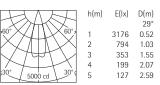


72085.000 White (RAL9002) LED daylight white **72089.000** Silver LED daylight white LED 14W 1080Im 5500K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 1.25kg LMF D **⋘** ♠ •

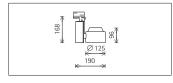




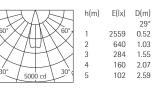


72084.000 White (RAL9002) LED warm white 72088.000 Silver LED warm white LED 14W 870lm 3200K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 1.25kg LMF D **&** 🕸 🙉







Optec Spotlight with LED and DALI adapter







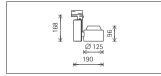
PLAY

Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on DALI adapter through 360°. Electronic control gear, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Replaceable LED module: high-power LEDs on metal-core PCB.

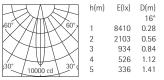
Accessories page 276

72079.000 White (RAL9002) LED daylight white DALI 72083.000 Silver LED daylight white DALI LED 14W 1080lm 5500K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 1.25kg LMF D **%** 6 6





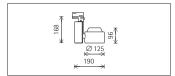


72078.000 White (RAL9002) LED warm

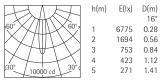
72082.000 Silver LED warm white DALI LED 14W 870Im 3200K Version 2

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Weight 1.25kg LMF D **₹**10 ♠ PC



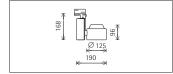




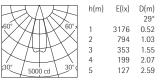
72087.000 White (RAL9002) LED daylight white DALI 72091.000 Silver LED daylight white DALI LED 14W 1080lm 5500K

Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 1.25kg LMF D **%**10 🕸 🖭





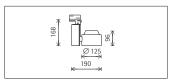


72086.000 White (RAL9002) LED warm white DALI

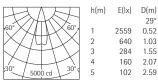
72090.000 Silver LED warm white DALI LED 14W 870lm 3200K Version 2 Lens system, flood: collimating lens,

clear plastic. Spherolit lens, flood.

Weight 1.25kg LMF D **₹**10 ♠ P







Optec Spotlight varychrome LED with DALI adapter







Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on DALI adapter through 360°. ERCO DALI adapter for DALI track:

plastic. Electronic control gear, plug and play connectivity for ERCO varychrome colour mixing.
Replaceable LED module: high-power
LEDs on metallic core PCB with lens
system. Softec lens.

Accessories page 276

S(%) 99

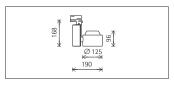


DALI LED 13W 390lm

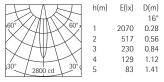
Version 1

Colour compensation for precise light colour.









Primary	colours	LED module	
Colour	Φ (Im)	λ(nm)	S(9)
Red	140	620-625	99
Green	184	525-530	77
Blue	64	465-470	97

Optec Spotlight for low-voltage halogen lamps





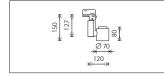


Cylindrical light head: cast aluminium, powder-coated, to be removed for lamp replacement. 180° tilt.
Transformer housing: plastic, rotatable on 3-circuit adapter through 360°.
Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Softec lens.

Anti-dazzle cone: cast aluminium, black. Use dimmers for electronic transformers (trailing edge).

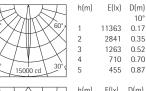
72003.000 White (RAL9002) **72004.000** Silver QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°

Weight 0.50kg LMF D 日本 🐠 🕸 🖭











	h(m)	E(Ix)	D(m)
			60°
60° X 60°	1	1000	1.15
MMM	2	250	2.31
NYHYW	3	111	3.46
	4	62	4.62
30° 2000 cd 30°	5	40	5.77

Optec Spotlight for low-voltage halogen lamps







Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories.

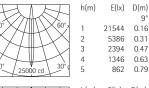
Transformer housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass.
Use dimmers for electronic transformers (trailing edge).

Accessories page 277

72015.000 White (RAL9002) **72007.000** Silver QT12-ax 75W 12V GY6.35 1575lm Narrow spot reflector

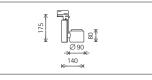






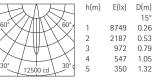
72016.000 White (RAL9002) 72008.000 Silver QT12-ax 75W 12V GY6.35 1575lm Flood reflector





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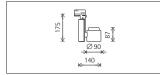


Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Transformer housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Use dimmers for electronic transformers (trailing edge). Accessories page 277

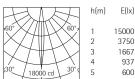
72058.000 White (RAL9002)

72059.000 Silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

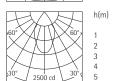












E(Ix) D(m) 60° 1430 1 15 357 2.31 159 3.46 89 4.62 57 5.77

E(Ix) D(m)

1667 0.52

937 0.70

600 0.87

10°

0.17

0.35







Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Transformer housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic.
Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass.
Use dimmers for electronic transformers

(trailing edge).

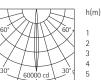
Accessories page 276

72020.000 White (RAL9002) 72009.000 Silver QT12-ax 100W 12V GY6.35 2200lm Narrow spot reflector

Weight 0.70kg LMF D 日本 🌑 🅸 🕮 🕞







51884 0.12 12971 0.24 5765 0.37 2075 0.61 h(m) E(Ix) D(m) 7040 0.46 1760 0.92

1.39

1.85

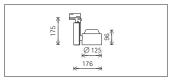
2.31

271

E(Ix) D(m)

72021.000 White (RAL9002) **72012.000** Silver QT12-ax 100W 12V GY6.35 2200lm Flood reflector

Weight 0.70kg LMF D 日本 🌑 🅸 🕮 🕞



Ø 125 176



2 3 782 440 282

Optec Spotlight for low-voltage halogen lamps



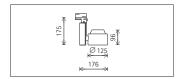




Cylindrical light head: cast aluminium, cylindrea light read. east aurimium, powder-coated. 180° tilt. Transformer housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Use dimmers for electronic transformers (trailing edge).

72025.000 White (RAL9002) **72013.000** Wilker (18.2000) **72013.000** Silver QR-111 100W 12V G53 8° QR-111 100W 12V G53 45°

Weight 0.60kg LMF C 日本 🌑 🅸 🖤 🕞







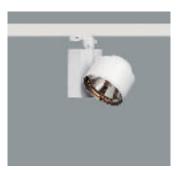






E(Ix)	D(m)
	45°
2800	0.83
700	1.66
311	2.49
175	3.31
112	4.14
	2800 700 311 175

Optec Spotlight with DALI adapter for low-voltage halogen lamps







Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Transformer housing: plastic, rotatable on DALI adapter through 360°. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Reflector: aluminium, silver, mirror-fin-

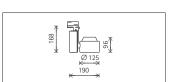
ish anodised. Anti-dazzle cap attached to safety glass.

Accessories page 276

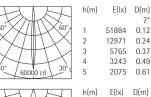
72050.000 White (RAL9002) DALI **72051.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow spot reflector



DALI PLUG+ PLAY







0.12

0.24 0.37

0.49

0.61

D(m) 26°

0.46

0.92

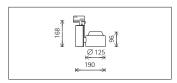
1.39

2.31

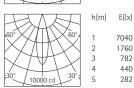
440 1.85

72052.000 White (RAL9002) DALI **72053.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm Flood reflector









Optec Spotlight for metal halide lamps



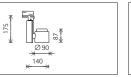




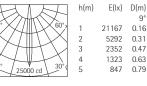
Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Accessories page 277

72042.000 White (RAL9002) ECG **72043.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, narrow spot



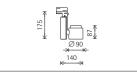




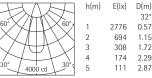


72044.000 White (RAL9002) ECG **72045.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, flood

Weight 0.60kg LMF D 日本 **《** 企









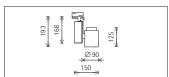




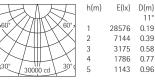
Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Accessories page 277





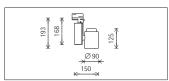




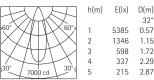


72031.000 White (RAL9002) ECG **72018.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, flood

Weight 0.80kg LMF D 日本 **狐** 🅸 🕮 🕫













Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on 3-circuit adapter through 360° Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Accessories page 276

72035.000 White (RAL9002) ECG **72019.000** Silver ECG HIT-CE 70W G12 7300lm Narrow spot reflector

Weight 1.30kg LMF D 日本 **《** 企 ⁽⁽⁽⁾





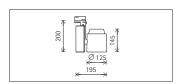
1 86147 0.16 2 21537 0.31 3 9572 0.47 4 5384 0.63 5 3446 0.79 h(m) E(Ix) D(m) 20° 1 30833 0.35

h(m)

E(lx) D(m)

72038.000 White (RAL9002) ECG **72039.000** Silver ECG HIT-CE 70W G12 7300lm Flood reflector

Weight 1.30kg LMF D 日本 **狐** 🅸 🕮 🍽



Ø 125 195



HAMA	h(m)	E(Ix)
60° 60°,	1 2 3 4 5	30833 7708 3426 1927 1233
40000 cd \ 90	5	1233

0.71

1.06

1.76

Optec Spotlight for metal halide lamps

72036.000 White (RAL9002) ECG 72023.000 Silver ECG HIT-CE 70W G12 7300Im Spherolit reflector, wide flood	Weight 1.30kg LMF D 日本 《 企 © ©	00Z \$125 195	AA () HIT-CE	60°, 60°,	h(m) 1 2 3 4 5	E(Ix) 4166 1042 463 260 167	D(m) 55° 1.04 2.08 3.12 4.16 5.21
72060.000 White (RAL9002) ECG 72061.000 Silver ECG HIT-CE 150W G12 15000lm Narrow spot reflector	Weight 1.70kg LMF D ⋘	00Z	HIT-CE	60°, 60°, 60°, 60°, 60°, 60°, 60°, 60°,	h(m) 2 4 6 8 10	E(lx) 23164 5791 2574 1448 927	12° 0.42 0.84
72062.000 White (RAL9002) ECG 72063.000 Silver ECG HIT-CE 150W G12 15000lm Flood reflector	Weight 1.70kg LMF D ⋘ ≙ ©	00Z	HIT-CE	60°, 60000 cd 30° c	h(m) 2 4 6 8 10	E(lx) 11731 2933 1303 733 469	D(m) 22° 0.78 1.56 2.33 3.11 3.89
72064.000 White (RAL9002) ECG 72065.000 Silver ECG HIT-CE 150W G12 15000lm Spherolit reflector, wide flood	Weight 1.70kg LMF D ⋘	00Z	HIT-CE	60°, 60°, 60°, 60°, 60°, 60°, 60°, 60°,	h(m) 2 4 6 8 10	E(lx) 2218 554 246 139 89	D(m) 54° 2.04 4.08 6.11 8.15 10.19

Optec Spotlight with DALI adapter for metal halide lamps







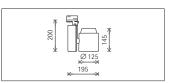
Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on DALI adapter through 360°. Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Reflector: aluminium, silver, mirror-fixish anodised. Safety glass. finish anodised. Safety glass. Accessories page 276



Narrow spot reflector



DALI PLUG+ PLAY









72070.000 White (RAL9002) ECG DALI **72071.000** Silver ECG DALI HIT-CE 70W G12 7300lm Flood reflector

Weight 1.40kg LMF D

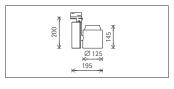
HIT-CE



h(m) E(Ix) D(m) 20° 30833 0.35 7708 0.71 3426 1.06 1927 1.41 1233 1.76

72072.000 White (RAL9002) ECG DALI **72073.000** Silver ECG DALI HIT-CE 70W G12 7300Im Spherolit reflector, wide flood

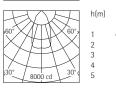
Weight 1.40kg LMF D **%** 6



Ø 125

195





E(Ix) D(m) 4166 1.04 2.08 1042 463 3.12 260 167 5.21

www.erco.com 274 ERCO Program 2010/11

Optec Spotlight for high-pressure sodium vapour lamps







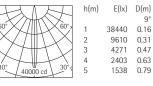
Cylindrical light head: cast aluminium, powder-coated. 180° tilt. Peripheral groove for fixing accessories. Housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic control gear. ERCO 3-circuit adapter: plastic. Reflector: aluminium, silver, mirrorfinish anodised.

Accessories page 276

72040.000 White (RAL9002) ECG **72024.000** Silver ECG HST 100W GX12-1 4900lm Narrow spot reflector

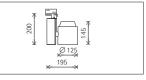






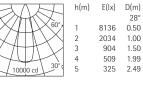
72032.000 White (RAL9002) ECG **72033.000** Silver ECG HST 100W GX12-1 4900lm Spherolit reflector, flood

Weight 1.55kg LMF C & & ©

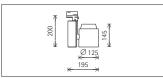


195





72041.000 White (RAL9002) ECG **72026.000** Silver ECG HST 100W GX12-1 4900lm Spherolit reflector, wide flood Weight 1.55kg LMF C & @ @







h(m) E(lx) D(m) 51°
1 2616 0.95
2 654 1.91
3 291 2.86
4 164 3.82
5 105 4.77

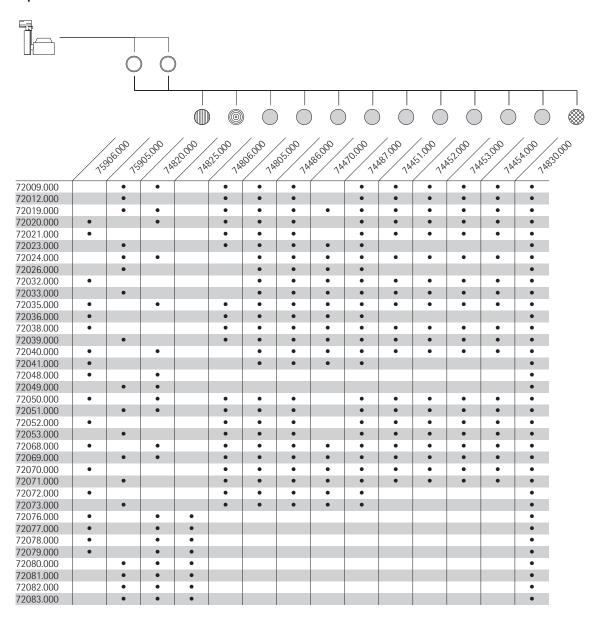
275

Dresden Frauenkirche (Church of Our Lady), Dresden. Lighting design: Ingenieurbüro Bamberger, Pfünz.



www.erco.com ERCO Program 2010/11

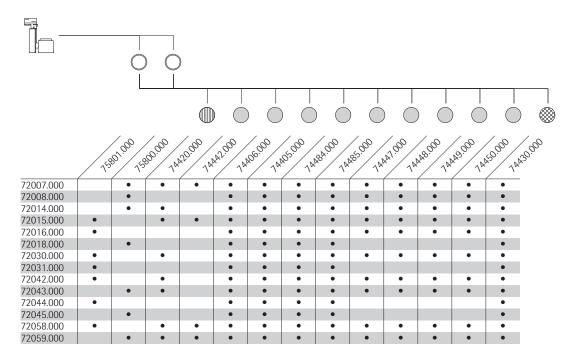
Optec Accessories





Saatchi Gallery, Duke of York's HQ, London. Architect: Allford Hall Monaghan Morris, London.

Optec Accessories





74420.000 74820.000 Sculpture lens



74825.000 Flood lens



74442.000 Softee lens



74406.000 74806.000



74405.000 74805.000 IR filter



74484.000 74486.000 Skintone filter



74470.000 Food filter



74485.000 74487.000 Daylight conversion filter



74447.000 74451.000 Interference colour filter Magenta



74448.000 74452.000 Interference colour filter Amber



74449.000 74453.000 Interference colour filter Sky blue



74450.000 74454.000 Interference colour filter Night blue



74430.000 74830.000 Honeycomb antidazzle screen Metal, black.



75801.000 White **75906.000** White **75800.000** Black **75905.000** Black Mounting ring Plastic.

Optec Floodlight with transadapter for metal halide lamps







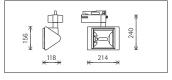
Housing: aluminium, powder-coated. 0°-90° tiltable; rotatable on transadapter through 360°. End caps: plastic. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Reflector: aluminium, silver anodised. Frame: cast aluminium, black powder-coated. Safety glass.

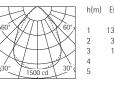
Accessories page 279

77748.000 White (RAL9002) ECG **77749.000** Silver ECG HIT-CE 35W G12 3500lm

Weight 1.80kg LMF D







 h(m)
 E(lx)
 D(m)

 78°
 72°

 1
 1311
 1.62
 1.45

 2
 328
 3.24
 2.91

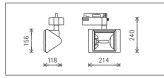
 3
 146
 4.86
 4.36

 4
 82
 6.48
 5.81

 5
 52
 8.10
 7.27

77752.000 White (RAL9002) ECG **77753.000** Silver ECG HIT-CE 70W G12 7300lm

Weight 1.80kg LMF D







| h(m) | E(lx) | D(m) | | 81° | 72° | | 72° | 1 | 2649 | 1.71 | 1.45 | 2 | 662 | 3.42 | 2.91 | 3 | 294 | 5.12 | 4.36 | 4 | 166 | 6.83 | 5.81 | 5 | 106 | 8.54 | 7.27 |

Optec Floodlight with DALI transadapter for metal halide lamps





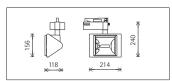


Housing: aluminium, powder-coated. 0°-90° tiltable; 360° rotatable on DALI transadapter. End caps: plastic. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity. Reflector: aluminium, silver anodised. Frame: cast aluminium, black powdercoated. Safety glass. Accessories page 279

77763.000 White (RAL9002) ECG DALI **77764.000** Silver ECG DALI HIT-CE 35W G12 3500Im

Weight 2.00kg LMF D **™** ▲ •

DALI PLUG+ PLAY







h(m) E(Ix) D(m) 78° 72° 1 1311 1.62 1.45 2 328 3.24 2.91 3 146 4.86 4.36 4 82 6.48 5.81 5 52 8.10 7.27

Optec Floodlight for compact fluorescent lamps



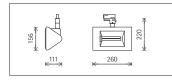




Housing: aluminium, powder-coated. 0°-90° tilt. End caps: plastic. ERCO 3-circuit adapter: plastic. 360° rotation. Control gear. Reflector: aluminium, silver anodised. Frame: plastic, black.

Accessories page 279

77846.000 White (RAL9002) **77848.000** Silver TC-D 26W G24d-3 1800lm







h(m) E(lx) D(m) 88° 91° 1 456 1.93 2.04 2 114 3.86 4.07 3 51 5.79 6.11 4 28 7.73 8.14 5 18 9.66 10.18

Optec Floodlight for compact fluorescent lamps



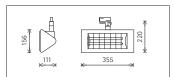




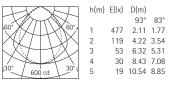
Housing: aluminium, powder-coated. 0°-90° tilt. End caps: plastic. Electronic control gear. ERCO 3-circuit adapter: plastic. 360° rotation. Reflector: aluminium, silver anodised. Louvre: plastic, black.

77802.000 White (RAL9002) ECG **77809.000** Silver ECG 2xTC-L 18W 2G11 1200lm

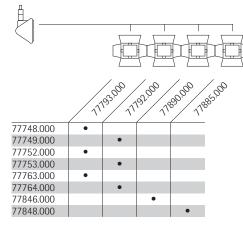
Weight 1.70kg LMF C **%** 🕸 🕙







Optec Accessories





77793.000 White 77792.000 Black Barn doors Metal, powdercoated



77890.000 White 77885.000 Black Barn doors Metal, powdercoated

Optec Lens wallwasher for low-voltage halogen lamps







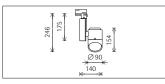
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Cylindrical light head: cast aluminium, powder-coated. 0°-90° tilt. Transformer housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

ised. Use dimmers for electronic transformers (trailing edge).

Accessories page 282





Mean illuminance E_n (lx)

Angle of tilt 20° Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 182 146 123 103

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Optec Lens wallwasher for low-voltage halogen lamps







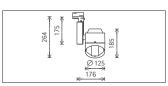
Weight 1.05kg LMF D 日本 🌑 🅸 🖤 🕞



Cylindrical light head: cast aluminium, Cylindreal light head. east authinfuln, powder-coated. 0°-90° tilt. Transformer housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Use dimmers for electronic transformers

(trailing edge).

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Mean illuminance E_n (lx)

Angle of tilt 15°

Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25

Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 227 183 157 131

Optec Lens wallwasher with DALI adapter for low-voltage halogen lamps



72054.000 White (RAL9002) DALI 72055.000 Silver DALI QT12-ax 100W 12V GY6.35 2200lm



DALI PLUG+ PLAY

Weight 1.20kg LMF D

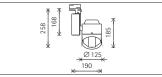
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Cylindrical light head: cast aluminium, powder-coated. 0°-90° tilt. Transformer housing: plastic, rotatable on DALI adapter through 360°. Electronic transformer, 230/240/12V, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic. Wallwasher attachment: cast alu-

minium, powder-coated. Spread lens with reflector: aluminium, silver anodised.

Accessories page 282





Mean illuminance En (Ix)

Angle of tilt 15°

Wall height (m)

1.00 1.00 1.25 1.25 Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 227 183 157 131

Optec Lens wallwasher for metal halide lamps



72056.000 White (RAL9002) ECG **72057.000** Silver ECG HIT-TC-CE 20W PGJ5 1650Im



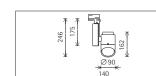
Weight 0.80kg LMF D

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Cylindrical light head: cast aluminium, powder-coated. 0°-90° tilt. Housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic control gear. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised.

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Mean illuminance E_n (lx)

Angle of tilt 20° Wall height (m)

Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) 1.00 1.00 1.25 1.25 Illuminance E_n (Ix) 140 116 93

Optec Lens wallwasher for metal halide lamps





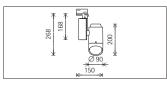


Cylindrical light head: cast aluminium, cylindrea light flead. east aurimium, powder-coated. 0°-90° tilt. Housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic control gear. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

Accessories page 282

72046.000 White (RAL9002) ECG **72047.000** Silver ECG HIT-TC-CE 35W G8.5 3500lm

Weight 1.00kg LMF D 日本 🐒 🕸 🖭





Mean illuminance E_n (lx) Angle of tilt 15°

Wall height (m) Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) 1.00 1.00 1.25 1.25 Illuminance En (Ix) 206 177 143 122





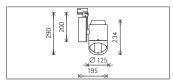


Cylindrical light head: cast aluminium, powder-coated. 0°-90° tilt. Housing: plastic, rotatable on 3-circuit adapter through 360°. Electronic control gear. ERCO 3-circuit adapter: plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

Accessories page 282

72037.000 White (RAL9002) ECG **72029.000** Silver ECG HIT-CE 70W G12 7300lm





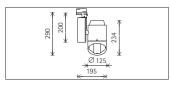


Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m) 1.50 1.50 1.75 1.75 Offset from wall (m) 1.50 1.75 1.75 2.00 Luminaire spacing (m) Illuminance E_n (Ix) 306 263 239 210

72066.000 White (RAL9002) ECG **72067.000** Silver ECG HIT-CE 150W G12 15000lm

Weight 2.00kg LMF D **%** 🕸 🖭





Mean illuminance En (Ix) Angle of tilt 12°

Wall height (m) Offset from wall (m) 1.50 1.75 2.00 2.50 1.50 1.75 2.00 2.50 Luminaire spacing (m) Illuminance E_n (Ix) 316 258 214 152

Optec Lens wallwasher with DALI adapter for metal halide lamps







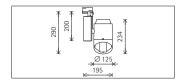
Cylindrical light head: cast aluminium, powder-coated. 0°-90° tilt. Housing: plastic, rotatable on DALI adapter through 360°. Electronic control gear, switchable, with plug and play connectivity. ERCO DALI adapter for DALI track: plastic.
Wallwasher attachment: cast aluminium, powder-coated. Spread lens

with reflector: aluminium, silver anod-

Accessories page 282

72074.000 White (RAL9002) ECG DALI **72075.000** Silver ECG DALI HIT-CE 70W G12 7300lm







Mean illuminance E_n (lx)

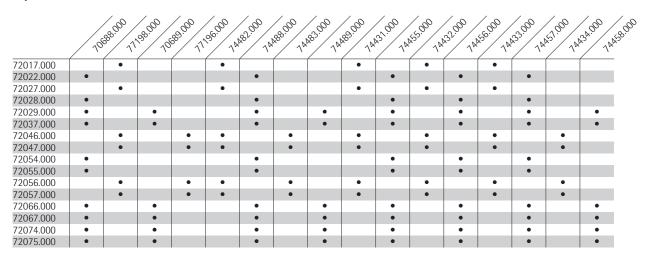
Angle of tilt 15° Wall height (m) 1.50 1.50 1.75 1.75 Offset from wall (m)

Luminaire spacing (m) 1.50 1.75 1.75 2.00 306 263 239 210 Illuminance E_n (lx)

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Optec Accessories

















70688.000 77198.000 UV filter

70689,000 77196.000

74482.000 74488.000 Skintone filter

74483.000 74489.000 Daylight conver-sion filter

74431.000 74455.000 Interference colour filter Magenta

74432.000 74456.000 Interference colour filter Amber

74433.000 74457.000 Interference colour filter Sky blue

74434.000 74458.000 Interference colour filter Night blue

Optec Wallwasher with transadapter for low-voltage halogen lamps



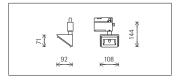




Housing: cast aluminium, powder-coated; rotatable on the transadapter ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Reflector: aluminium, silver anodised. Frame: cast aluminium, black powdercoated. Safety glass. Use dimmers for electronic transformers (trailing edge).









Mean illuminance E_n (lx) Wall height (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx) 186 153 132 112

73768.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm Weight 0.55kg LMF D **K**v 🕑 🗆

Optec Wallwasher for tungsten halogen lamps







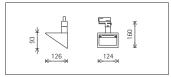
ERCO 3-circuit adapter: plastic. 360° rotation.

Housing: aluminium, powder-coated.

Reflector: aluminium, silver anodised. Frame: cast aluminium, black powder-coated. Safety glass.

77756.000 White (RAL9002) **77758.000** Silver QT-DE12-RE 120W 230V R7s L75mm 2300lm

Weight 0.65kg 日本 🌑 🅸 뜨 😢





Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 3.0 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 331 268 227 190

Optec Wallwasher with transadapter for metal halide lamps





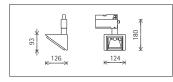


Housing: aluminium, powder-coated; rotatable on transadapter through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection.

Reflector: aluminium, silver anodised. Frame: cast aluminium, black powdercoated. Safety glass.

77743.000 White (RAL9002) ECG **77744.000** Silver ECG HIT-TC-CE 20W PGJ5 1650lm







Mean illuminance E_n (lx)

Wall height (m) 3.0 1.00 1.25 1.50 1.50 1.00 1.25 1.50 1.75 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 210 152 114 98







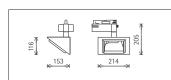
Housing: aluminium, powder-coated; rotatable on transadapter through 360°. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit , pre-selection.

Reflector: aluminium, silver anodised. Frame: cast aluminium, black powdercoated. Safety glass.

Accessories page 285



Weight 1.45kg LMF D **K**7 P



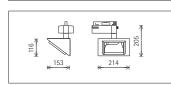


Mean illuminance E_n (lx)

Wall height (m) 4.0 Offset from wall (m) 1.50 1.50 2.00 2.00 Luminaire spacing (m) 1.50 1.75 2.00 2.50 Illuminance E_n (lx) 255 220 156 126

77746.000 White (RAL9002) ECG **77747.000** Silver ECG HIT-CE 70W G12 7300lm

Weight 1.45kg LMF D **K**17 P





Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 1.50 1.50 2.00 2.00 1.50 1.75 2.00 2.50 Luminaire spacing (m) Illuminance E_n (lx) 373 323 256 207

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Optec Wallwasher with DALI transadapter for metal halide lamps



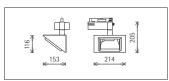




Housing: aluminium, powder-coated; 360° rotatable on DALI transadapter. Only for ceiling mounting. ERCO DALI Transadapter for DALI track: plastic. Electronic control gear, switchable, with plug and play connectivity. Reflector: aluminium, silver anodised. Frame: cast aluminium, black powdercoated. Safety glass. Accessories page 285



Weight 1.60kg LMF D ©
©

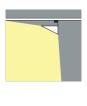




Mean illuminance E_n (lx)

Optec Wallwasher for compact fluorescent lamps

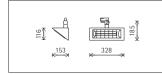




Housing: aluminium, powder-coated. Electronic control gear. ERCO 3-circuit adapter: plastic. 360° rotation. Reflector: aluminium, silver anodised. Louvre: plastic, black.



Weight 1.35kg LMF C





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.05
 1.25
 1.25

 Luminaire spacing (m)
 1.00
 1.25
 1.50

 Illuminance E_n (lx)
 130
 106
 94
 79

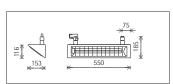




Housing: aluminium, powder-coated. Only for ceiling mounting. Electronic control gear. ERCO 3-circuit adapter and mechanical adapter: plastic. Reflector: aluminium, silver anodised. Louvre: plastic, black.

77709.000 White (RAL9002) ECG TC-L 36W 2G11 2900lm

Weight 2.60kg LMF C © ©





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

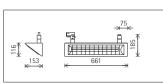
 Offset from wall (m)
 1.00
 1.00
 1.25
 1.25

 Luminaire spacing (m)
 1.00
 1.25
 1.50
 1.50

 Illuminance E_n (lx)
 323
 263
 228
 192

77712.000 White (RAL9002) ECG TC-L 55W 2G11 4800lm

Weight 3.00kg LMF C





Optec Wallwasher for fluorescent lamps

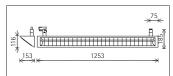




Housing: aluminium, powder-coated. Only for ceiling mounting. ERCO 3-circuit adapter and mechanical adapter: plastic. Electronic control gear. Reflector: aluminium, silver anodised. Louvre: plastic, black.

77722.000 White (RAL9002) ECG T16 54W G5 4450lm

Weight 3.80kg LMF C





Mean illuminance E_n (lx)

 Welan Huminance En (IX)

 Wall height (m)
 4.0

 Offset from wall (m)
 1.50
 1.50
 1.75
 1.75

 Luminaire spacing (m)
 1.50
 1.75
 1.75
 2.00

 Illuminance En (lx)
 427
 368
 350
 308

285

Optec Accessories

	1	17	92,000
77738.000	•		
77739.000		•	
77746.000	•		
77747.000		•	
77761.000	•		
77762.000		•	



77793.000 White 77792.000 Black Barn doors Metal, powdercoated.

Chicco Flagship Store, Grandate. Architect und lighting designer: Arch. Paolo Lucchetta Retaildesign Srl, Venice.



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Optec Luminaire for compact fluorescent lamps

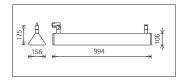




Housing: aluminium, powder-coated. End caps: plastic. Only for ceiling mounting. ERCO 3-circuit adapter and mechanical adapter: plastic. 2 low-loss control gear units.

77740.000 White (RAL9002) 2xTC-L 36W 2G11 2900lm Darklight reflector with parabolic cross baffles: aluminium, silver, mirror-finish anodised. Cut-off angle: 30° (C0/C90).

Weight 5.00kg LMF C & © ©







LOR 0.55 UGR CO 22.9 UGR C90 21.3 75° < 200 cd/m²



Weight 5.00kg LMF C







LOR 0.52 UGR CO 21.7 UGR C90 21.1

Connected load 77740.000 P: 84 W 77745.000 P: 84 W

Connected load per 100lx 77740.000 P*: 2.82 W/m² 77745.000 P*: 2.95 W/m²

Number of luminaires per 100lx 77740.000 n*: 3.35 1/100m² 77745.000 n*: 3.51 1/100m²

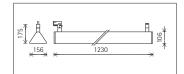
Optec Luminaire for fluorescent lamps





Housing: aluminium, powder-coated. End caps: plastic. Only for ceiling mounting. ERCO 3-circuit adapter and mechanical adapter: plastic.

77742.000 White (RAL9002) ECG 2xT16 54W G5 4450Im Electronic control gear. Darklight reflector with parabolic cross baffles: aluminium, silver, mirror-finish anodised. Cut-off angle: 30° (CO/C90).



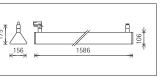


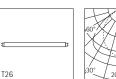


LOR 0.70 UGR CO 25.7 UGR C90 21.6 75° < 1000 cd/m²

77780.000 White (RAL9002) T26 58W G13 5200lm Low-loss control gear. Louvre: plastic, white.

Weight 6.50kg LMF C & @ @

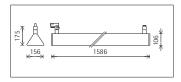


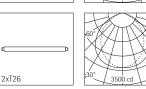




77785.000 White (RAL9002) 2xT26 58W G13 5200lm 2 low-loss control gear units. Louvre: plastic, white.

Weight 8.00kg LMF C & © ©





LOR 0.62 UGR CO 23.3 UGR C90 21.9

Connected load 77742.000 P: 116 W 77780.000 P: 66 W 77785.000 P: 132 W Connected load per 100lx 77742.000 P*: 1.97 W/m² 77780.000 P*: 2.00 W/m² 77785.000 P*: 2.18 W/m² Number of luminaires per 100lx 77742.000 n*: 1.69 1/100m² 77780.000 n*: 3.03 1/100m² 77785.000 n*: 1.65 1/100m²



"BMW Welt" visitor and delivery centre, Munich.
Architect: Coop Himmelb(l)au,
Vienna. Lighting designer: ag Licht,

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The lighting requirements of two major projects the Guggenheim Museum in Bilbao and the Reichstag building in Berlin determined the design criteria for the development of the Stella range of spotlights by designer Franco Clivio. The Guggenheim project attached special value to functional criteria, i.e. to the exact adjustment of all movable and optical elements. The Reichstag project required spotlight illumination in the plenary chamber, giving high visual comfort while providing the correct lighting for television cameras. The Stella product range meets all these demands. So, each Stella spotlight features characteristic design details that are derived from practical applications. These include the positions of tilt and rotation, the lamp focusing and even the angle of rotation of the optical accessories can be set and locked with the Allen key attached to the spotlight. This ensures that the lighting effect will remain unchanged even after luminaire servicing or lamp replacement.

Graduations help towards exact alignment. The high visual comfort is ensured by the design of the light aperture: the luminaire cover is formed by an anti-dazzle attachment with cross-baffle, known as the 'snoot'. Additional barn doors and honeycomb anti-dazzle screens can limit the glare even further. Lens wallwasher versions and versions with lens systems for project-

ing crisp-edged beams or Gobo images complete the spotlight range and open up additional application areas for lighting designers using the Stella product range. A comprehensive range of accessories is available in the form of filters, lenses and attachments. Power ratings of 50W to 300W in three housing sizes and a comprehensive selection of lamps ranging from low-voltage halogen lamps and PAR lamps through to high-pressure discharge lamps. This makes the Stella system a high-quality, professional toolkit for museum and presentation lighting and for many other applications. The DALI-compatible luminaires have digital control gear through which each luminaire can be individually addressed - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

www.erco.com ERCO Program 2010/11

Stella for track



The product range consists of three sizes of spotlights whose dimensions are selected to give the luminous characteristics necessary both for excellent lumen packages and for installation in high rooms. The housing and bracket are cast aluminium and powder-coated white or silver. Mechanical adapters for mounting on ERCO track are fixed to the mounting brackets. Graduations for setting the angle of inclination are located at the side of the spotlight's axis of tilt. For servicing purposes, all spotlight settings can be locked with an Allen key. The electrical connection depends on the type of lamp, either 3-circuit adapters for mains voltage, transadapters with built-in electronic transformers or the control gear for high-pressure discharge lamps. DALI-compatible luminaires feature a DALI transad-

Spotlights



The light aperture of the spotlight is designed as a snoot. A snoot is a luminaire cover with an internal, black anti-dazzle ring and a crossbaffle. The snoot can be hinged to allow lamp replacement and the fitting of accessories. The following lamps can be used: low-voltage halogen lamps up to 100W/12V, PAR lamps up to 300W and highpressure discharge lamps up to 150W. To focus capsule lamps, the rear parts of the spotlight hous-ing rotates. An extensive range of accessories is available consisting of anti-dazzle attachments, lenses and filters.

Application

Rotationally symmetrical, very narrow to medium beam light distribution from a highly efficient reflector system or from reflector lamps for accent lighting. Applications include museums, exhibitions and art galleries, plus promotional, display and entrance areas. Especially suitable for lighting in high rooms.

Projector spotlights



The projection spotlights are available in the medium sized housing. As with Stella spotlights, the housings and mounting brackets are cast aluminium and powder-coated white and silver. The contour attachment includes a framing attachment with an accessory carrier for aperture masks and gobos. Low-voltage halogen lamps up to 100W/12V or metal halide lamps of 150W are to be used.

Application

Accentuation can be added by illuminating with individually adjustable, hard-edged beams or rectangular and/or square image mask projections and projection of gobos.

Lens wallwashers

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Lens wallwashers matching the 3 spotlight sizes are also available. The spotlight's snoot has been redesigned here to form wallwasher attachments. These each include one spread lens and the wallwasher reflector typical to ERCO. Low-voltage halogen lamps up to 100W/12V, PAR lamps up to 300W and metal halide lamps up to 150W are to be used.

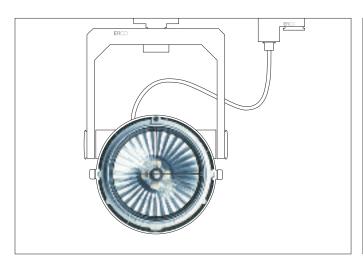
Application

Asymmetrical light distribution for highly uniform wallwashing, especially of high walls. Applications include museums, exhibitions and art galleries, promotional and entrance areas.

Stella for track



Designed by Franco Clivio, the Stella spotlights are available in three sizes for low-voltage halogen lamps, PAR lamps, and metal halide lamps. A special feature is that all the movable elements of the Stella spotlights can be set and locked – from the positions of tilt and rotation to the alignment of the sculptured lens. Since the filters and lenses fit within the luminaire, the appearance remains the same despite the fact that the accessories within the luminaires may be meeting different lighting requirements.





Due to the extensive range of

vide coloured light. Sculpture lenses form the light beam into an ellipse, while flood lenses spread the light. UV and IR filters are available to protect sensitive exhibits against harmful light. Honeycomb anti-dazzle screens and barn doors further improve the already excellent visual comfort of the Stella spotlight range, which all have integral cross-

ERCO Program 2010/11

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baffles.

accessories, lighting concepts can be matched to specific requirements. High-quality interference colour filters are available to pro-



www.erco.com

The luminaire and the accessories can be set and locked using the Allen key housed in the bracket.

nd locked g the Allen loused in rracket.

Stella Spotlight for low-voltage halogen lamps







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360° Graduations for setting of group alignment

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic transformer, 220-240/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection.

Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached to safety glass. Rear of housing rotatable for lamp focusing. Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring wih cross-baffle, rotatable, black lacquered. Un-

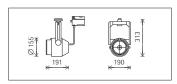
clip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the stirrup.

Use dimmers for electronic transformers (trailing edge).

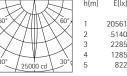
Accessories page 293

73505.000 White (RAL9002) 73504.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm Spot reflector















Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic transformer, 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection.

Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring with cross-baffle, rotatable, black lacquered. Un-clip snoot for lamp replacement.

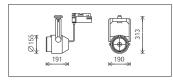
E(Ix) D(m) h(m) 0.19 5140 0.39 2285 1285 0.77 822 0.96

For service safety, all settings can be fixed with the Allen-key located in the Use dimmers for electronic transformers (trailing edge).

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\vdash	h(m)	E(Ix)	D(m)
$\langle \langle \rangle \rangle$			7°
X 60°,	1	43636	0.12
	2	10909	0.24
$+ \cup$	3	4848	0.37
1	4	2727	0.49
) cd 30° (5	1745	0.61





_			
	h(m)	E(Ix)	D(m)
			47°
)°,	1	2545	0.87
$\langle $	2	636	1.74
$\overline{}$	3	283	2.61
\	4	159	3.48
)°(5	102	4.35





Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic transformer, 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection.

Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached to safety glass. Rear of housing rotatable for lamp focusing. Snoot: cast aluminium, powder-coated.

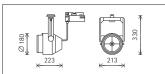
Internal anti-dazzle ring wih cross-baffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the stirrup.

Use dimmers for electronic transformers (trailing edge)

Accessories page 293

73517.000 White (RAL9002) **73516.000** Silver QT12-ax 100W 12V GY6.35 2200lm Spot reflector

Weight 3.00kg LMF D **₹**17 (CC) (CC) (CC)





60°
\times / \parallel \ \times
30° 40000 cd 30°
7 .5550 Ca

h(m)	E(Ix)	D(m) 10°
1	39244	0.17
2	9811	0.35
3	4360	0.52
4	2453	0.70
5	1570	0.87
	1 2 3 4	1 39244 2 9811 3 4360 4 2453

Stella Spotlight with DALI transadapter for low-voltage halogen lamps



73621.000 White (RAL9002) DALI 73622.000 Silver DALI QT12-ax 100W 12V GY6.35 2200lm

Spot reflector



DALI PLUG+ PLAY



Weight 3.10kg LMF D

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Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment Only for ceiling mounting.

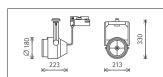
ERCO DALI Transadapter with cable: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass. Rear of housing rotatable for lamp focusing.

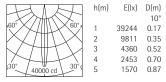
Snoot: cast aluminium, powder-coated.

Internal anti-dazzle ring wih crossbaffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the

Accessories page 293







Stella Spotlight for PAR lamps



73501.000 White (RAL9002) 73500.000 Silver QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°



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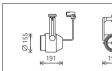
Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting. ERCO 3-circuit adapter with cable:

plastic. Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring with crossbaffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the

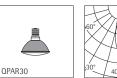


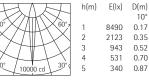
Accessories page 293











D(m)

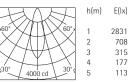
0.54

1.07

1.61

2.14

2.68



Accessories page 293



73513.000 White (RAL9002) 73512.000 Silver PAR38 120W 230V E27 12° PAR38 120W 230V E27 30°



Weight 3.40kg LMF E

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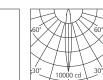
Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting. ERCO 3-circuit adapter with cable: plastic.

Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring with crossbaffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the stirrup.



PAR38





	h(m)	E(Ix)	D(m)
			12°
)°,	1	8774	0.21
	2	2193	0.42
	3	975	0.63
\	4	548	0.84
o° d	5	351	1.05

h(m) E(Ix) D(m) 2924 0.54 2 1.07 731 3 325 1.61 2.68

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Stella Spotlight for PAR lamps







Housing and stirrup: cast aluminium, powder-coated. 80° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

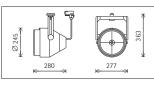
Only for ceiling mounting. ERCO 3-circuit adapter with cable:

plastic. Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring with crossbaffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the















E(lx) D(m) 9° 15° 37734 0.16 0.26 9434 0.31 0.53 4193 0.47 0.79 2358 0.63 1.05 1509 0.79 1.32





h(m)	E(Ix)	D(m)	
		16°	40
1	8491	0.28	0.73
2	2123	0.56	1.46
3	943	0.84	2.18
4	531	1.12	2.9
5	340	1.41	3.64

Stella Spotlight for metal halide lamps







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

Only for ceiling mounting.

ERCO Transadapter with cable: plastic. Electronic control gear. Circuit preselection.

Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass. Rear of housing rotat-

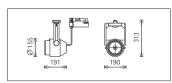
able for lamp focusing. Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring wih crossbaffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the stirrup.

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73600.000 White (RAL9002) ECG **73601.000** Silver ECG HIT-CE 35W G12 3500lm Spot reflector



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E(Ix) D(m) h(m) 39557 0.21 9889 0.42 4395 0.63 2472 0.84 1582 1.05







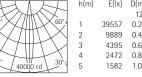
Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting.

ERCO Transadapter with cable: plastic. Electronic control gear. Circuit preselection

Reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle cap attached to safety glass. Rear of housing rotatable for lamp focusing.

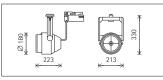
Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring wih cross-



baffle, rotatable, black lacquered. Unclip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the stirrup.
Accessories page 293

73605.000 White (RAL9002) E	CG
73606.000 Silver ECG	
HIT-CE 70W G12 7300lm	
Spot reflector	

Weight 3.00kg LMF D **%** © ©





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60° ×/ //// ×60° k	
$1 \times \sqrt{1111} \times 1$	
$Y \times / \times Y$	
N MIM VI	
	4
30° / 100000 cd \ 30° c	
1000000 (0)	,

	h(m)	E(Ix)	D(m)
			13°
)°,	1	90286	0.23
V	2	22572	0.46
1	3	10032	0.68
	4	5643	0.91
)° {	5	3611	1.14

Stella Spotlight for metal halide lamps







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting.

Control gear with temperature control-ler, timer-ignitor.

Capacitor.

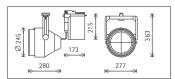
Reflector: aluminium, silver, mirror-fin-ish anodised. Anti-dazzle cap attached to safety glass. Rear of housing rotatable for lamp focusing.

Snoot: cast aluminium, powder-coated. Internal anti-dazzle ring wih cross baffle, rotatable, black lacquered. Un-clip snoot for lamp replacement. For service safety, all settings can be fixed with the Allen-key located in the

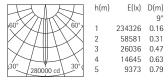
Accessories page 294





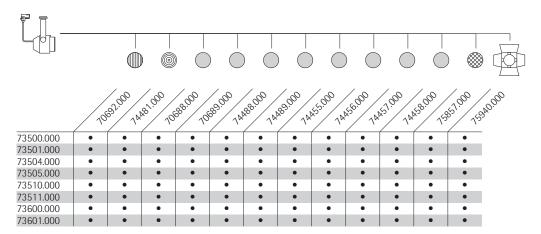


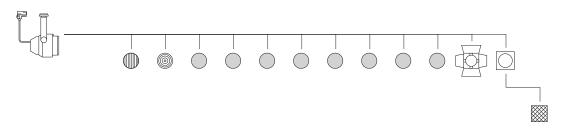




293

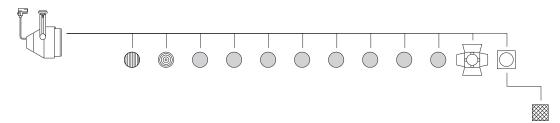
Stella Accessories





	7 ^d	A73.000	75,000 74	x17,000	19,000	17,000	7 ^M	1 ²	,50,000 Jal	7 ¹ / ₁₀ 0	155 1500	347,000	1585g	,000
73512.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73513.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73516.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73517.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73605.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73606.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73621.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73622.000	•	•	•	•	•	•	•	•	•	•	•	•	•	

Stella Accessories



	74	A7A,000	x76,000	478.000 1A	180,000	472.000 1200 1200	1A 100 PER 1	463.000 14	184,000 JA	1A 14	155 A	75 ⁵	1586 1000	59,000
73524.000	•	•	•		•	•	•	•	•	•	•	•	•	
73525.000	•	•	•		•	•	•	•	•	•	•	•	•	
73530.000	•	•	•	•	•	•	•	•	•	•	•	•	•	
73531.000	•	•	•	•	•	•	•	•	•	•	•	•	•	



70692.000 74473.000 74474.000 Sculpture lens



74475.000 74476.000 74481.000 Flood lens



70688.000 74477.000 74478.000 UV filter



70689.000 74479.000 74480.000 IR filter



74471.000 74472.000 74488.000 Skintone filter



74468.000 74469.000 74489.000 Daylight conversion filter



74455.000 74459.000 74463.000 Interference colour filter Magenta



74456.000 74460.000 74464.000 Interference colour filter Amber



74457.000 74461.000 74465.000 Interference colour filter Sky blue



74458.000 74462.000 74466.000 Interference colour filter Night blue



75857.000 Attachment ring with honeycomb anti-dazzle screen



75858.000 75859.000 Honeycomb antidazzle screen Metal, black powder-coated.



75940.000 Black 75942.000 Black 75943.000 Black Barn doors Metal, powdercoated.



75860.000 75861.000 DIN attachment Metal, black powder-coated.



Sheikh Zayed bin Sultan Al Nahyan Mosque, Abu Dhabi. Architect: Yusef Abdelki (design), Halcrow, Dubai Office (implementation). Interior design: Spatium Architects, Milan. Lighting design: Speirs and Major Associates, Edinburgh.

Stella Projector spotlight for low-voltage halogen lamps







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator.

Circuit pre-selection. Reflector: aluminium, silver, mirror-finish anodised. IR filter. Back part of housing can be rotated for lamp

of housing can be rotated for family focusing. Contour attachment: cast aluminium, powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Lens 1:1,7/100mm, focusing ±

Contour attachment hinges open to

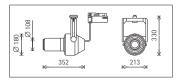
allow lamp replacement.
For service safety, all settings can be fixed with the Allen-key located in the

stirrup.
Use dimmers for electronic transformers (trailing edge).

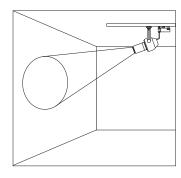
Accessories page 298

73551.000 White (RAL9002) QT12-ax 100W 12V GY6.35 2200lm



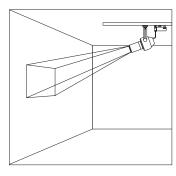






Measured illuminance levels (new values) E (Ix) and beam diameters D (m) dependent on aperture mask and pro-jection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø30	1 2 3 4 5	3675 919 408 229 147	16° 0.30 0.60 0.90 1.20 1.50
Ø40	1 2 3 4 5	2970 743 330 186 119	22° 0.40 0.80 1.20 1.60 2.00
Ø50	1 2 3 4 5	2310 578 257 144 92	26° 0.50 1.00 1.50 2.00 2.50



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

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h (m)	E (Ix)	D (m)
1	2310	0.35
2	578	0.71
3	257	1.06
4	144	1.41
5	92	1.77

Stella Projector spotlight with DALI transadapter for low-voltage halogen lamps



73624.000 Silver DALI QT12-ax 100W 12V GY6.35 2200lm



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Weight 3.70kg

jection distance h (m)

Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

Only for ceiling mounting. ERCO DALI Transadapter with cable: plastic. Electronic transformer, 230/240/12V, with plug and play connectivity.

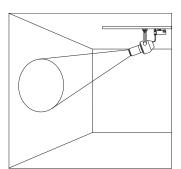
Reflector: aluminium, silver, mirror-finish anodised. IR filter. Back part of housing can be rotated for lamp focusing.

Contour attachment: cast aluminium,

powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Lens 1:1,7/100mm, focusing \pm

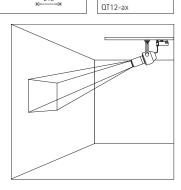
Contour attachment hinges open to allow lamp replacement.
For service safety, all settings can be fixed with the Allen-key located in the stirrup.

Accessories page 298



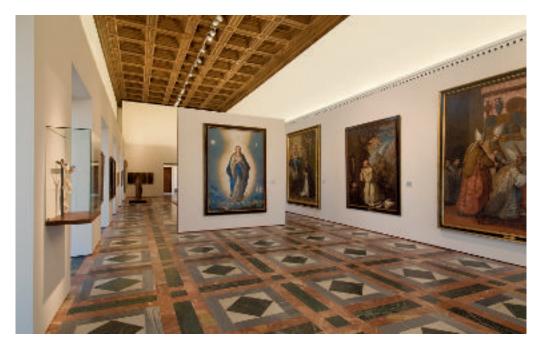
Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and pro-

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø30	1 2 3 4 5	3675 919 408 229 147	16° 0.30 0.60 0.90 1.20 1.50
Ø40	1 2 3 4 5	2970 743 330 186 119	22° 0.40 0.80 1.20 1.60 2.00
Ø50	1 2 3 4 5	2310 578 257 144 92	26° 0.50 1.00 1.50 2.00 2.50



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

h (m)	E (Ix)	D (m)
1 2 3 4 5	2310 578 257 144 92	0.35 0.71 1.06 1.41 1.77



Museo de Bellas Artes, Palacio Car-los V, Alhambra, Granada. Archi-tect: Antonio Jiménez Torrecillas, Granada. Lighting design: Juan José Sendra.

Stella Projector spotlight for metal halide lamps







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting.

ERCO Transadapter with cable: plastic, cast aluminium. Circuit pre-selection. Control gear with temperature controller, timer-ignitor.

Capacitor.

Reflector: aluminium, silver, mirror-finish anodised. IR filter. Back part of housing can be rotated for lamp

Contour attachment: cast aluminium, powder-coated. Framing attachment (opening 8x8mm) with holder for aperture masks or gobo (ø 66mm). 3 aperture masks: metal, black, ø 50, ø 40, ø 30. Lens 1:1,7/100mm, focusing \pm

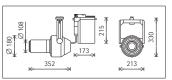
Contour attachment hinges open to

allow lamp replacement.
For service safety, all settings can be fixed with the Allen-key located in the stirrup.

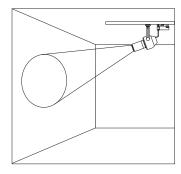
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73555.000 White (RAL9002) 73554.000 Silver HIT-CE 150W G12 14000lm

Weight 6.50kg

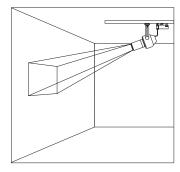






Measured illuminance levels (new values) E (lx) and beam diameters D (m) dependent on aperture mask and pro-jection distance h (m)

Aperture mask (mm)	h (m)	E (Ix)	D (m)
Ø30	1 2 3 4 5	10920 2730 1213 638 437	16° 0.30 0.60 0.90 1.20 1.50
Ø40	1 2 3 4 5	10080 2520 1120 630 403	22° 0.40 0.80 1.20 1.60 2.00
Ø50	1 2 3 4 5	7840 1960 871 490 314	26° 0.50 1.00 1.50 2.00 2.50



Maximum edge length D (m) of square projection through framing attachment dependent on projection distance h (m)

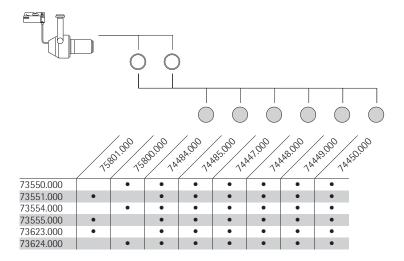
h (m)	E (Ix)	D (m)
1 2 3 4 5	7840 1960 871 490 314	0.35 0.71 1.06 1.41 1.77

Audi Forum Man-hattan, New York. Architect: Oettle Design, Munich; CR Studio Architects, New York. Lighting design: Four to One Scale Design, Hürth.



297

Stella Accessories





74484.000 Skintone filter



74485.000Daylight conversion filter



74447.000 Interference colour filter Magenta



74448.000 Interference colour filter Amber



74449.000 Interference colour filter Sky blue



74450.000 Interference colour filter Night blue



75801.000 White **75800.000** Black Mounting ring Plastic.

Stella Lens wallwasher for low-voltage halogen lamps



73557.000 White (RAL9002) **73556.000** Silver QT12-ax 100W 12V GY6.35 2200lm



Weight 3.20kg LMF D

% 0 0 0



Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.
Only for ceiling mounting.

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic transformer 230/12V. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection.

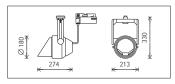
Spot reflector: aluminium, silver, mirror-finish anodised.

Wallwasher attachment: cast aluminium, powder-coated. Spread lens

with reflector: aluminium, silver anodised. Un-clip wallwasher attachment for lamp replacement.

For service safety, all settings can be fixed with the Allen-key located in the stirrun

Use dimmers for electronic transformers (trailing edge).





Mean illuminance E_n (lx)

Angle of tilt 18°
Wall height (m) 4.0

Stella Lens wallwasher with DALI transadapter for low-voltage halogen lamps



73625.000 White (RAL9002) DALI **73626.000** Silver DALI QT12-ax 100W 12V GY6.35 2200lm



DALI PLUG+

<u>@</u> @ _



PLAY



Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting. ERCO DALI Transadapter with cable: plastic Electronic transformer 230/240/12V, with plug and play con-

nectivity.
Spot reflector: aluminium, silver, mirror-finish anodised. Wallwasher attachment: cast alu-

minium, powder-coated. Spread lens with reflector: aluminium, silver anod-

ised. Un-clip wallwasher attachment for lamp replacement.

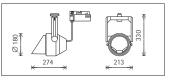
For service safety, all settings can be fixed with the Allen-key located in the stirrup.



Angle of tilt 18°

Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance En (Ix) 173 139 119







Stella Lens wallwasher for PAR lamps



73541.000 White (RAL9002) 73540.000 Silver QPAR30 100W 230V E27 10°





Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

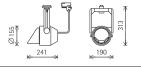
Only for ceiling mounting. ERCO 3-circuit adapter with cable:

plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Un-clip wallwasher attachment for lamp replacement.

For service safety, all settings can be

fixed with the Allen-key located in the







Mean illuminance En (Ix)

Angle of tilt 20° Wall height (m) 1.00 1.00 1.25 1.25 Offset from wall (m) Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix) 152 122 101



73553.000 White (RAL9002) **73552.000** Silver QPAR38 100W 230V E27 12°



Weight 3.60kg LMF E

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日本 鑑" 巡 🕞



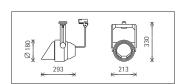
Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group align-

Only for ceiling mounting. ERCO 3-circuit adapter with cable:

plastic. Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Un-clip wallwasher attachment for lamp replacement.

For service safety, all settings can be

fixed with the Allen-key located in the stirrup.





Mean illuminance E_n (lx)

Angle of tilt 20° Wall height (m) 3.0 Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (lx) 132 106 89

299

Stella Lens wallwasher for PAR lamps







Housing and stirrup: cast aluminium, powder-coated. 80° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment

Only for ceiling mounting. ERCO 3-circuit adapter with cable: plastic.

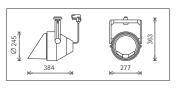
Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Un-clip wallwasher attachment for lamp replacement.

For service safety, all settings can be

fixed with the Allen-key located in the

73565.000 White (RAL9002) **73564.000** Silver PAR56 300W 230V GX16d 9° 15°

Weight 5.20kg 日本 鑑" 巡 🖭





Mean illuminance E_n (lx)

Angle of tilt 18° Wall height (m)

1.25 1.25 1.50 1.50 1.25 1.50 1.50 1.75 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 201 167 145 124

Stella Lens wallwasher for metal halide lamps







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic control gear. Circuit preselection.

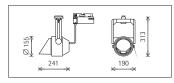
Spot reflector: aluminium, silver, mirror-finish anodised.

Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Un-clip wallwasher attachment for lamp replacement.

For service safety, all settings can be fixed with the Allen-key located in the stirrup.



Weight 2.70kg LMF D **%** © ©





Mean illuminance En (Ix)

Angle of tilt 20°

Wall height (m) 1.00 1.00 1.25 1.25 Offset from wall (m) 1.00 1.25 1.25 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 280 225 196 163







Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group align-

Only for ceiling mounting. ERCO Transadapter with cable: plastic. Electronic control gear. Circuit preselection.

Spot reflector: aluminium, silver, mirror-finish anodised.

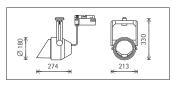
Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anod-

ised. Un-clip wallwasher attachment for lamp replacement.

For service safety, all settings can be fixed with the Allen-key located in the stirrup.



Weight 3.20kg LMF D **%**17 <u>@</u> **@**





Mean illuminance En (Ix)

Angle of tilt 15° Wall height (m)

60 1.25 1.25 1.50 1.50 1.25 1.50 1.50 1.75 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 278 233 211 181

Stella Lens wallwasher for metal halide lamps





Spreitenbach Centre (Zurich). Lighting design: Matteo Thun, Mailand.



Weight 8.20kg LMF D



Housing and stirrup: cast aluminium, powder-coated. 90° tilt, on the mechanical adapter rotatable through 360°. Graduations for setting of group alignment.

only for ceiling mounting.
ERCO Transadapter with cable: plastic, cast aluminium. Circuit pre-selection.
Control gear with temperature controller, timer-ignitor.
Capacitics.

Capacitor.
Spot reflector: aluminium, silver, mirror-finish anodised.

Wallwasher attachment: cast aluminium, powder-coated. Spread lens with reflector: aluminium, silver anodised. Un-clip wallwasher attachment for

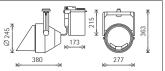
lamp replacement.
For service safety, all settings can be fixed with the Allen-key located in the stirrup.

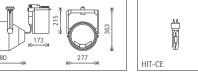


Angle of tilt 12° Wall height (m) Offset from wall (m)

2.00 2.00 2.50 2.50 2.00 2.50 2.50 3.00 Luminaire spacing (m) Illuminance E_n (lx) 235 189 164 137

301



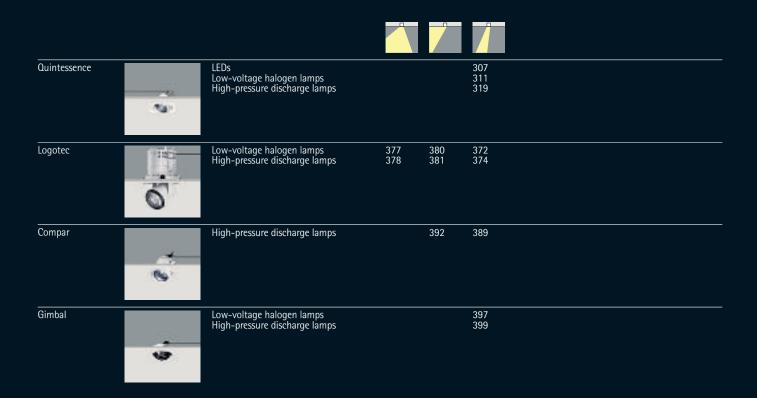




Recessed spotlights



Recessed spotlights combine the flexibility of spotlights with the discreet appearance of recessed luminaires. Their main application is accent lighting. Tilt mechanisms allow the luminaires to be aimed both at objects and vertical surfaces. Recessed spotlights are inconspicuous architectural details and can ideally be combined with downlights.



New in the program





Quintessence 303

Logotec 368



The system design of the Quintessence recessed spotlights provides a wide range of solutions for ceiling-integrated accent lighting. The tiltable and rotatable recessed spotlights accentuate exhibits in the room or on walls and turn them into real eye-catchers. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort. A special feature of the Quintessence range is the options available for different situations involving recessed ceiling installation. All luminaires are available with a covered or flush mounting detail. There are two options available for the luminaire edge: direct transition from ceiling to luminaire or shadow gap. Simple mounting without tools makes for an economical installation.

As inconspicuous architectural details, the Quintessence recessed spotlights can ideally be combined with Quintessence recessed ceiling luminaires. The system design of the Quintessence recessed spotlights and recessed ceiling luminaires makes it easy to combine the two product ranges using the same mounting rings. The range with LEDs for low-voltage halogen lamps and high-pressure discharge lamps includes both round and square recessed luminaires for narrow spot to flood reflectors with

Spherolit technology. The DALl-compatible luminaires have digital control gear which can address each luminaire individually – for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Quintessence recessed spotlights are used for applications involving ceilingintegrated accent lighting, e.g. in top-rate sales areas.

303



The square Quintessence recessed spotlights are available in versions with different lamps, light distributions, reflector sizes, installation details and luminaire edges. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The round and square recessed spotlights are available with a flush or recessed mounting plate. The two different mounting frames can be used either for overlapping or flush-mounted ceiling installation. There are two options available for the luminaire edge: the conventional joint between ceiling and luminaire edge or a shadow gap.

All Quintessence recessed spotlights have aluminium cooler housings which are designed to provide optimum thermal properties for maximum luminous flux and a long service life. The aluminium reflector is mirror-finish silver anodised. The installation units required are available as accessories. The luminaires

are mounted without tools. The separate mounting ring or frame supplied allows efficient installation on the construction site. The recessed spotlight can be rotated through 360° and tilted by 40°.

Recessed spotlights round



The round Quintessence recessed spotlights are available with LEDs, for low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 70W, and high-pressure sodium vapour lamps up to 100W with narrow spot to flood reflectors.

Application

Rotationally symmetrical, very narrow to medium beam light distribution, especially for accent lighting of exhibits either in exhibitions or free-standing glass cabinets.

Recessed spotlights square



The square Quintessence recessed spotlights are available with LEDs, for low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 70W, and high-pressure sodium vapour lamps up to 100W with narrow spot to flood reflect-

Application

Rotationally symmetrical, very narrow to medium beam light distribution, especially for accent lighting of exhibits either in exhibitions or free-standing glass cabinets.





Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range offers many different mounting scenarios, while accessories such as lenses and filters allow the light to be adjusted to suit specific requirements. The incorporation of digitally controllable DALI lumimaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since the Quintessence recessed spotlights feature the same mounting ring and mounting frame as the recessed luminaires, the two product ranges work well in combination – for instance, when ambient lighting is required together with accent lighting.







LED Spherolit lens and collimating lens
The recessed spotlights feature lens systems designed and built by ERCO. The collimating lens first directs the light into a parallel beam and a Spherolit lens then precisely produces the required beam angle: spot or flood.





305

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Narrow spot To cover smaller objects with high illuminance or to cover considerable distances between luminaire and object. Beam angle < 10°.



Spot
The standard
characteristic for
accentuating all
kinds of objects,
especially for
bringing out the
three-dimensional
shape. Beam
angle 10°-20°.



Flood
For efficient
accent light on
larger objects or
for wider spread
lighting of areas
of a room. Beam
angle 25°-35°.

Outline of the versions

A characteristic feature of Quintessence is the variety of different mounting details. In addition to the option of round or square luminaire designs, the lighting designer can choose between a flush or regressed cassette. The edge of the luminaire can be a standard format or can have a shadow gap. The type of mounting ring determines whether the luminaire will be installed

flush with the ceiling or has a trim detail. The structure of the product range is divided firstly into round and square luminaires and then subdivided into flush or regressed cassette, into the luminaire edge options and into the mounting details.











Mounting: flush or covered





Luminaire design: round or square Just as architecture uses round or square shapes, so too the Quintessence recessed spot-lights offer the corresponding choice of round and square luminaires.

The choice between two mounting frames enables the mounting ring or mounting frame to be either flush mounted with the ceiling or to cover the edge.

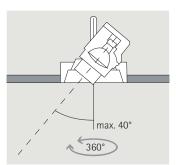
Luminaire: flush or regressed cassette In contrast with the flushmounted ver-sion, the tilted luminaire head on the regressed version does not protrude below the line of the ceiling.

Luminaire edge: standard or shadow gap The options for the edge of the luminaire are a flowing transition or a subtle separation between ceiling and lumi-naire using a shadow gap.





Mounting The Quintessence recessed spot-lights are noted for fast and easy mounting without tools. The template which is supplied with each luminaire allows the ceil-ing aperture to be marked out quickly and accurately.



Adjustment For variable set-ting, the recessed spotlight can be rotated through 360° and tilted by 40°; its position is then fixed using two screws. This ensures that the predetermined beam direction is maintained even after lamp replacement.



Double mounting frame The double mounting frame allows two luminaires with dif-ferent characteristics to be mounted as one unit, e.g. a directional luminaire combined with a wallwasher.



Colour filters and lenses
To enable individual adjustment to suit the specific lighting task, dif-ferent filters and lenses are avail-



DALI control With Quintessence Light Clients, the Light Studio software automatically recognises the luminaire type making the relevant information and functions available.



Directional **luminaires** For accent lighting, which includes Darklight technology, the Quintessence directional luminaires are available as recessed luminaires.

Quintessence Recessed spotlight with LED and flush cassette





Housing: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

Flush cassette: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Anti-dazzle ring: cast aluminium, inside black lacquered, outside white (RAL9002) powder-coated. Replaceable LED module: high-power LEDs on metal-core PCB. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 332

46741.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.20kg LMF D 日本 ⑩

LED

h(m) E(Ix) D(m) 14514 0.28 3628 2 0.56 1613 907 1 12 581 1.41 E(Ix) D(m) h(m)

46740.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.20kg LMF D 日本 ⑩

Ø 206 → WILLIAM STATE OF THE S

LED

16° 16° 16° 16° 20.28 2 2923 0.56 3 1299 0.84 4 731 1.12 5 468 1.41

47739.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 1.20kg LMF D 日本 ⑩

LED

h(m) E(Ix) D(m) 16° 14514 0.28 2 3628 0.56 3 1613 0.84 1.12 5 581 1 4 1

47738.000 LED warm white LED 21W 1305Im 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Flush mounting detail Weight 1.20kg LMF D 日本 ⑩

Ø 210 → Z110 →

LED

E(Ix) D(m) h(m) 16° 11692 0.28 2 2923 0.56 3 1299 0.84 731 1 12 468 1.41

46743.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Covered mounting detail Weight 1.20kg LMF D 日本 ⑩

LED 300

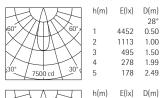
h(m) E(lx) D(m) 28° 0° 1 5527 0.50 2 1382 1.00 3 614 1.50 4 345 1.99 0° 7500 cd 30° 5 221 2.49

46742.000 LED warm white LED 21W 1305Im 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Covered mounting detail Weight 1.20kg LMF D 日本 ⑩

Ø 206 → 201

LED



5527 0.50

1382

614 1.50

345 1.99

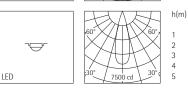
221 2.49

1.00

307

47741.000 LED daylight white LED 21W 1620Im 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Flush mounting detail Weight 1.20kg LMF D 日本 ⑩ <u>Ø210</u> → <u>Ø</u>



47740.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Flush mounting detail Weight 1.20kg LMF D 日本 ⑩ Ø210 Ø208 Ø208 Ø208



Quintessence Recessed spotlight with LED and regressed cassette





Covered mounting

Covered mounting

Weight 1.20kg LMF D

detail

日本 ⑩

detail Weight 1.20kg LMF D

日本①

Housing: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

Regressed cassette: plastic, white. Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

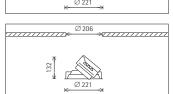
(RAL9002) powder-coated.

Replaceable LED module: high-power LEDs on metal-core PCB. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 332

Cable, L 500mm. Anti-dazzle ring: cast aluminium, inside black lacquered, outside white

46745.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens plastic, clear. Spherolit lens, spot.
46744.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens plastic, clear. Spherolit lens, spot.
47743.000 LED daylight white LED 21W 1620lm 5500K



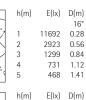


Ø 206



LED





h(m)

E(Ix)D(m)

14514

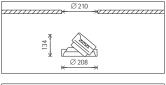
907 1.12

581 1.41

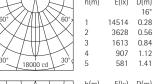
0.28 3628 0.56 1613 0.84

LED 21W 1620lm 5500K
Version 1
Lens system, spot: collimating lens,
plastic, clear. Spherolit lens, spot.



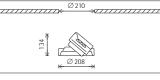




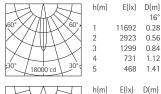






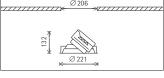




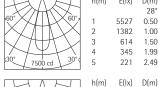






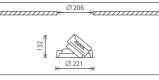




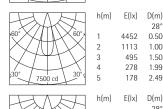












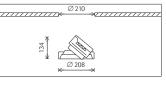
1.00

1.50

1.99

47745.000 LED daylight white LED 21W 1620lm 5500K
Version 1 Lens system, flood: collimating lens,
plastic, clear. Spherolit lens, flood.



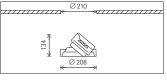




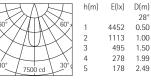
	30° 7500 cd 30°	5	178	2.49
1		h(m)	E(Ix)	D(m) 28°
	60° × 60°	1	5527	0.50
		2	1382	1.00
		3	614	1.50
		4	345	1.99
	30° 7500 cd 30°	5	221	2.49
	TA A	h(m)	E(Ix)	D(m) 28°

4//44.000 LED warm wn	ite
LED 21W 1305lm 3200K	
Version 1	
Lens system, flood: collima	
plastic, clear. Spherolit len	s, flood.









Quintessence Recessed spotlight with LED and flush cassette





DALL PLUG+ PLAY

Covered mounting detail

detail

LMF D

detail

detail Weight 1.85kg LMF D

Covered mounting

Covered mounting

Weight 1.85kg

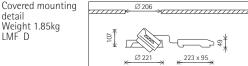
Housing: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

Flush cassette: plastic, white Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

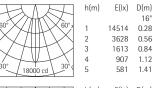
Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Anti-dazzle ring: cast aluminium, inside black lacquered, outside white (RAL9002) powder-coated. Replaceable LED module: high-power LEDs on metal-core PCB. Available from 3rd quarter 2010 Accessories page 332



Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

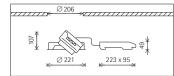


 \bigcirc LED

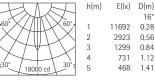


46842.000 LED warm white DALI LED 21W 1305lm 3200K Version 1

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

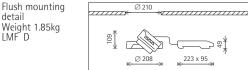




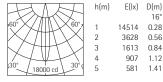


47841.000 LED daylight white DALI LED 21W 1620lm 5500K

detail Weight 1.85kg LMF D Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

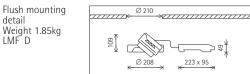




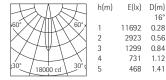


47840.000 LED warm white DALI LED 21W 1305lm 3200K

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

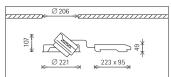




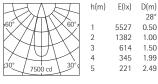


46845.000 LED daylight white DALI LED 21W 1620lm 5500K

detail Weight 1.85kg Lens system, flood: collimating lens, LMF D plastic, clear. Spherolit lens, flood.

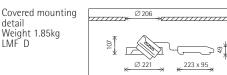




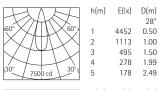


46844.000 LED warm white DALI LED 21W 1305lm 3200K

Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

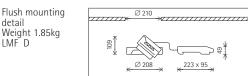




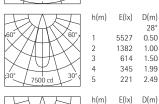


47843.000 LED daylight white DALI LED 21W 1620lm 5500K

Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.







0.50

1.00

1.50

1.99

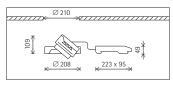
2.49

309

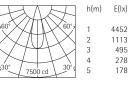
47842.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, flood: collimating lens,

plastic, clear. Spherolit lens, flood.

Flush mounting detail Weight 1.85kg LMF D







Quintessence Recessed spotlight with LED and regressed cassette





DALL PLUG+ PLAY

46847.000 LED daylight white DALI LED 21W 1620lm 5500K

Weight 1.85kg LMF D Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

46846.000 LED warm white DALI LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

47845.000 LED daylight white DALI LED 21W 1620lm 5500K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

47844.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

46849.000 LED daylight white DALI LED 21W 1620lm 5500K Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

46848.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

47847.000 LED daylight white DALI LED 21W 1620lm 5500K Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

47846.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Covered mounting detail

Covered mounting detail Weight 1.85kg LMF D

Flush mounting detail Weight 1.85kg LMF D

Flush mounting detail Weight 1.85kg LMF D

Covered mounting detail Weight 1.85kg LMF D

Covered mounting detail Weight 1.85kg LMF D

Flush mounting detail Weight 1.85kg LMF D

Flush mounting detail Weight 1.85kg LMF D

Size 7 Housing: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

Regressed cassette: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Änti-dazzle ring: cast aluminium, in-

LED

LED

LED

LED

LED

LED

side black lacquered, outside white (RAL9002) powder-coated. Replaceable LED module: high-power LEDs on metal-core PCB.
Available from 3rd quarter 2010
Accessories page 332

h(m)

h(m)

E(Ix)D(m)

14514 0.28

3628 0.56 0.84 1613 907 1.12

581 1.41

E(Ix) D(m)

11692 0.28

2923 0.56 0.84

> 468 1.41

E(Ix) D(m)

14514 0.28

3628 0.56 1613 0.84

581 1 4 1

16°

1.12

D(m)

0.28

0.56

0.84

1 12

1.41

D(m)

1.00

5527 0.50

1382

614 1.50

345 1.99

221 2.49

E(Ix) D(m)

4452 0.50

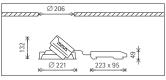
1113 1.00 1.50

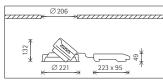
495 278 1.99

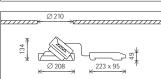
178 2.49

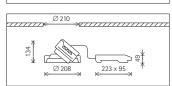
E(Ix) D(m)

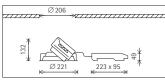
16°

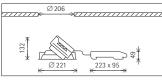


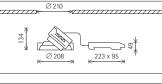


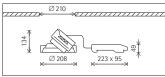




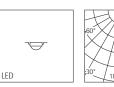




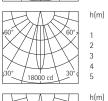


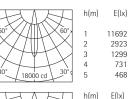




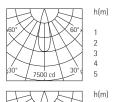


















4452 0.50 1113 1.00 495 1.50 278 1.99 178 2.49

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps



46043.000



Covered mounting detail Weight 0.46kg LMF D

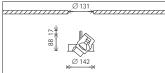
Size 4 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

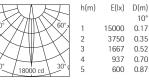
Cable, L 500mm. Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002) lacquered.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 331

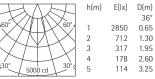








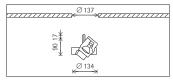




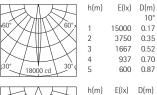
47044.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Flush mounting detail Weight 0.46kg LMF D 日本 ⑩ 爲







10°

0.65

1.30

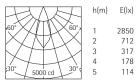
1.95

2.60

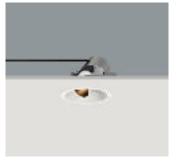
3.25

311





Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps





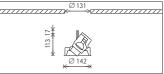
Size 4 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting

and 12.5-25mm with hush mounting detail.
Cable, L 500mm.
Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002)

Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 331**

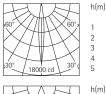
46041.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Covered mounting detail Weight 0.46kg LMF D 日本 ⑩ 爲



lacquered.







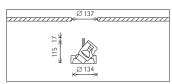
E(Ix) D(m)

2850 0.65 712 1.30 317 1.95 178 2.60

114 3.25

47042.000 OR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Flush mounting detail Weight 0.46kg LMF D 日本 ⑩ 爲





QR-CBC51-RE





D(m)

36°

0.65

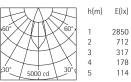
1.30

1.95

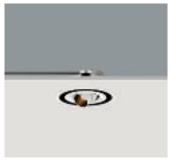
2.60

3.25





Quintessence Recessed spotlight with flush cassette and shadow gap for low-voltage halogen lamps





Size 5 Size 5
Lampholder carrier: cast aluminium,
0°-40° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Flush cassette for lampholder carriers:
plastic, white. Peripheral shadow gap:
plastic, black.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of
1-30mm with covered mounting detail
and 125-25mm with flush mounting

and 12.5-25mm with flush mounting detail. Cable, L 500mm.

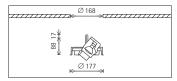
Anti-dazzle ring: plastic, internal black

lacquered, external white (RAL9002) lacquered. Transformer to EN 61558 or EN 61347 to be ordered separately.

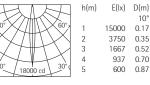
Accessories page 331

46044.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

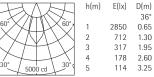
Covered mounting detail Weight 0.56kg LMF D 日本⑩卿





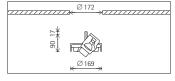


QR-CBC51-RE

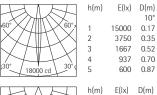


47045.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Flush mounting detail Weight 0.56kg LMF D 日本 ⑩ 爲







0.65

1.30

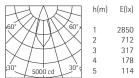
1.95

2.60

3.25

313





Quintessence Recessed spotlight with regressed cassette and shadow gap for low-voltage halogen lamps





Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Peripheral shadow

gap: plastic, black.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of
1-30mm with covered mounting detail
and 12.5-25mm with flush mounting
detail.

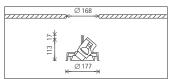
Cable, L 500mm.

Anti-dazzle ring: plastic, internal black

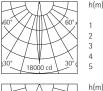
lacquered, external white (RAL9002) lacquered.
Transformer to FN 61558 or

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 331

46042.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Covered mounting detail Weight 0.56kg LMF D 日本 ⑩ ட









C

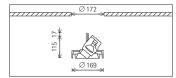
QR-CBC51-RE





E(Ix) D(m)

47043.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Flush mounting detail Weight 0.56kg LMF D 日本 ⑩ 爲













	h(m)	E(Ix)	D(m) 36°
۱°۶	1	2850	0.65
	2	712	1.30
	3	317	1.95
	4	178	2.60
)° (5	114	3.25

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white.

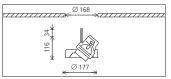
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–30mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Cable, L 500mm. Reflector: aluminium, anodised, mirrorfinish.

Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 331

46060.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot Covered mounting detail Weight 0.73kg LMF C 日本 ⑩ 圖

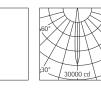






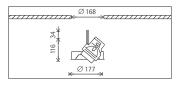


47061.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot Flush mounting detail Weight 0.73kg LMF C 日本 ⑩ ட © 172 ×





46061.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot Covered mounting detail Weight 0.73kg LMF C 日本 �� 爵





QT12-ax



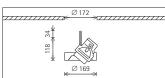
14°
1 12932 0.25
2 3233 0.49
3 1437 0.74
4 808 0.98
5 517 1.23

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps

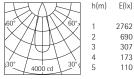
E(Ix) D(m) 47062.000 Reflector silver Flush mounting h(m) Ø 172 QT12-ax 75W 12V GY6.35 1575lm detail 12932 Weight 0.73kg LMF C 0.25 Spherolit reflector, spot Ü 3233 0.49 2 日本 ⑩ 爲 0.74 4 808 0.98 Ø 169 QT12-ax 5 517 1.23 46062.000 Reflector silver Covered mounting h(m) E(Ix) D(m) Ø 168 QT12-ax 75W 12V GY6.35 1575lm 30° detail Spherolit reflector, flood Weight 0.73kg 2762 0.54 IMF C 2 690 1.07 3 307 日本 ⑩ டு 173 2.14 Ø 177 QT12-ax 110 2 68 47063.000 Reflector silver h(m) E(Ix) D(m) Flush mounting Ø 172

47063.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Flush mounting detail Weight 0.73kg LMF C 日本 ⑩ இ







0.54

1.07

307 1.61 173 2.14

110 2.68

Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps





Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Reflector: aluminium, anodised, mirror-finish.

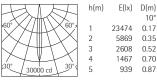
Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 331

46057.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot Covered mounting detail Weight 0.73kg LMF C 日本 ⑩ 爵

Ø 168 Ø 177 Ø 177

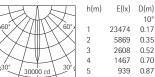




47058.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot Flush mounting detail Weight 0.73kg LMF C 日本 ⑩ 爲

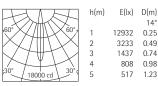
Ø 172 × Ø 169 × Ø 169 ×





46058.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot Covered mounting detail Weight 0.73kg LMF C 日本 ⑩ இ





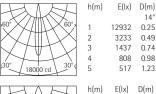
47059.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot Flush mounting detail Weight 0.73kg LMF C 日本 ⑩ இ

Ø 172 Ø 169 Ø 169



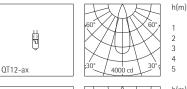
H

QT12-ax



46059.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood Covered mounting detail Weight 0.73kg LMF C 日本 ⑩ 卿

Ø 168



4000 cd

9° 4000 cd 30°	4 5	173 110	2.14	
	h(m)	E(Ix)	D(m)	
)° X (60°)	1	2762	0.54	
	2	690	1.07	
/ / 	3	307	1.61	
	4	173	2.14	

30°

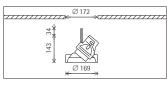
2762 0.54

690 1.07

110 2.68

315

47060.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood Flush mounting detail Weight 0.73kg LMF C 日本 (※)



Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





Size 7 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers:

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

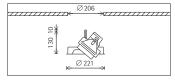
Cable, L 500mm. Reflector: aluminium, anodised, mirrorfinish.

Anti-dazzle ring: cast aluminium, in-

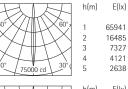
ternal black lacquered, external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 331

46066.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.03kg LMF C 日本 ⑩ 卿







D(m)

0.12

0.24

0.37

0.49

0.61

0.46

0.92

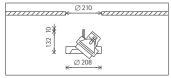
1.39

1.85

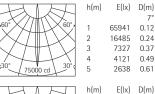
2.31

47067.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Flush mounting detail Weight 1.03kg IMF C 日本 ⑩ 卿

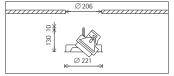




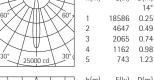


46067.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Covered mounting detail Weight 1.03kg LMF C 日本 ⑩ டி

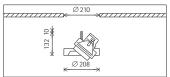




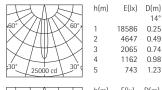


47068.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Flush mounting detail Weight 1.03kg LMF C 日本 ⑩ 卿

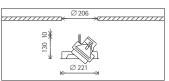




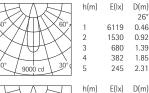


46068.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Covered mounting detail Weight 1.03kg LMF C 日本 ⑩ 卿

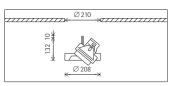




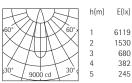


47069.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Flush mounting detail Weight 1.03kg LMF C 日本 ⑩ 卿







Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps





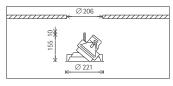
Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Reflector: aluminium, anodised, mirrorfinish Anti-dazzle ring: cast aluminium, in-

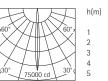
ternal black lacquered, external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 331

46063.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.03kg LMF C 日本命命







E(Ix) D(m) 65941 0.12 16485 0.24 0.37 7327 0.49 2638 0.61

Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps

E(Ix) D(m) 47064.000 Reflector silver Flush mounting h(m) Ø 210 QT12-ax 100W 12V GY6.35 2200lm detail 65941 0.12 Weight 1.03kg LMF C Spherolit reflector, narrow spot Ü 16485 0.24 2 日本 ⑩ 爲 7327 4 4121 0.49 Ø 208 QT12-ax 2638 0.61 D(m) 46064.000 Reflector silver Covered mounting h(m) E(Ix) Ø 206 QT12-ax 100W 12V GY6.35 2200lm detail Spherolit reflector, spot Weight 1.03kg 18586 0.25 4647 IMF C 2 0.49 155 3 2065 0.74 日本 ⑩ டு 1162 0.98 Ø 221 QT12-ax 743 1 23 47065.000 Reflector silver h(m) E(Ix)D(m) Flush mounting Ø 210 QT12-ax 100W 12V GY6.35 2200lm detail Spherolit reflector, spot Weight 1.03kg LMF C 18586 0.25 4647 0.49 2 157 日本 ⑩ 卿 2065 0.74 1162 0.98 Ø 208 5 QT12-ax 743 1.23 46065.000 Reflector silver Covered mounting E(Ix) D(m) h(m) Ø 206 QT12-ax 100W 12V GY6.35 2200lm detail 6119 Spherolit reflector, flood Weight 1.03kg 0.46 2 1530 0.92 IMF C 155 日本 ⑩ 爲 1.39 382 1.85 Ø 221 QT12-ax 245 2.31 47066.000 Reflector silver h(m) E(Ix) D(m) Flush mounting Ø 210 QT12-ax 100W 12V GY6.35 2200lm 26° detail Weight 1.03kg LMF C Spherolit reflector, flood 6119 0.46 2 0.92 1530 157 日本⑩爲 3 680 1.39 382 1.85 Ø 208

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





PLUG+ PLAY

Lampholder carrier: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation Flush cassette for lampholder carriers:

QT12-ax

plastic, white.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief.

Reflector: aluminium, anodised, mirrorfinish.

245 2.31

Anti-dazzle ring: cast aluminium, internal black lacquered, external white (RAL9002) powder-coated.

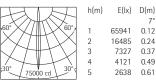
Accessories page 331

46267.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.21kg LMF C 口像

Ø 206 130 Ø 221 167 x 42





47267.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Flush mounting detail Weight 1.21kg LMF C

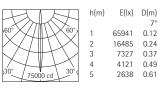
Ø210 132 167 x 42 Ø 208

Ø 206

Ø 221

130

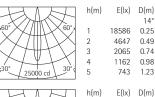




46268.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Covered mounting detail Weight 1.21kg LMF C 口像

QT12-ax



0.25

0.49

0.74

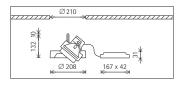
0.98

1.23

317

47268.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Flush mounting detail Weight 1.21kg LMF C



167 x 42

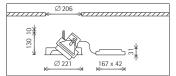


Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps

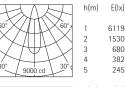
46269.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

47269.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

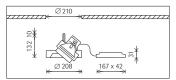
Covered mounting detail Weight 1.21kg LMF C



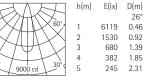




Flush mounting detail Weight 1.21kg LMF C







D(m)

26°

0.46

0.92

D(m)

0.12

0.24

0.37

0.49

0.61

0.25

0.49

0.74

0.98

1.23

382 1.85

245 2.31

Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps





DALI PLUG+ PLAY

Size 7 Lampholder carrier: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

Regressed cassette for lampholder carrier: plastic, white.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief.

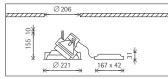
Reflector: aluminium, anodised, mirror-finish.

Anti-dazzle ring: cast aluminium, internal black lacquered, external white (RAL9002) powder-coated.

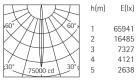
Accessories page 331

46264.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.21kg LMF C

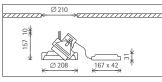




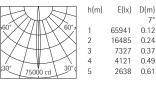


47264.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Flush mounting detail
Weight 1.21kg
LMF C

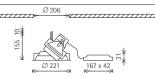




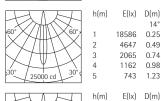


46265.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

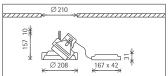
Covered mounting detail Weight 1.21kg LMF C







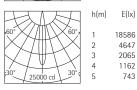
47265.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Flush mounting detail Weight 1.21kg LMF C





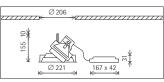
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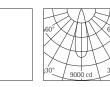
QT12-ax

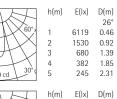


46266.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Covered mounting detail Weight 1.21kg LMF C

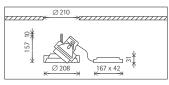


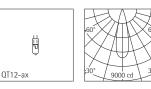




47266.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Flush mounting detail Weight 1.21kg LMF C





h(m) E(lx) D(m) 26° 60° 1 6119 0.46 2 1530 0.92 3 680 1.39 4 382 1.85 5 245 2.31

Quintessence Recessed spotlight with flush cassette for metal halide lamps



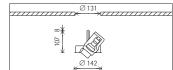


Covered mounting detail Weight 0.61kg LMF D 日本

Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

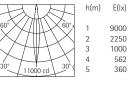
Cable with plug, L 500mm. Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002) lacquered.

Control gear to be ordered separately. Accessories page 331



Size 4





D(m)

12° 0.21

0.42

0.63

0.84

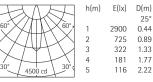
1.05

12°

1.05

319



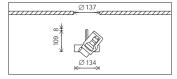


47450.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

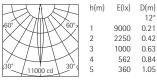
HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

46467.000

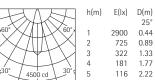
Flush mounting detail Weight 0.61kg LMF D 日本











Quintessence Recessed spotlight with regressed cassette for metal halide lamps



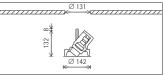


Size 4 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002)

Control gear to be ordered separately. Accessories page 331

46465.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.61kg LMF D 日本







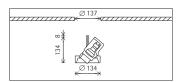


2900 0.44 725 0.89 322 1.33 181

116 2.22

47448.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

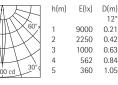
Flush mounting detail Weight 0.61kg LMF D 日本



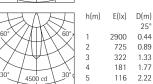


HIPAR51-CE-P









Quintessence Recessed spotlight with flush cassette and shadow gap for metal halide lamps





Size 5 Size 5
Lampholder carrier: cast aluminium,
0°-40° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Flush cassette for lampholder carriers:
plastic, white. Peripheral shadow gap:
plastic, black.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of
1-30mm with covered mounting detail
and 125-25mm with flush mounting

and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.

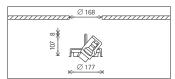
Anti-dazzle ring: plastic, internal black

lacquered, external white (RAL9002) lacquered.

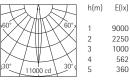
Control gear to be ordered separately. Accessories page 331

46468.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

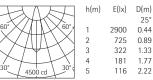
Covered mounting detail Weight 0.72kg LMF D 日本











D(m)

12° 0.21

0.42

0.63

0.84

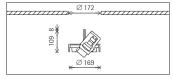
1.05

12°

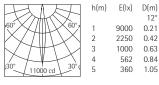
321

47451.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

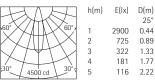
Flush mounting detail Weight 0.72kg LMF D 日本



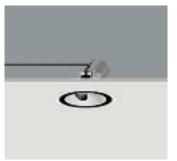








Quintessence Recessed spotlight with regressed cassette and shadow gap for metal halide lamps





Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Peripheral shadow

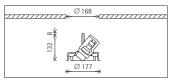
gap: plastic, black.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of
1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Cable with plug, L 500mm. Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002) lacquered.

Control gear to be ordered separately. Accessories page 331

46466.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.72kg LMF D 日本









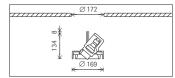
2900 0.44 725 0.89 322 1.33 181

116 2.22



47449.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

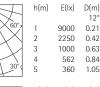
Flush mounting detail Weight 0.72kg LMF D 日本





HIPAR51-CE-P









	h(m)	E(Ix)	D(m)
			25°
)° x	1	2900	0.44
	2	725	0.89
	3	322	1.33
	4	181	1.77
)° (5	116	2.22

Quintessence Recessed spotlight with flush cassette for metal halide lamps



46457.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm

white Spherolit reflector, narrow spot



Covered mounting detail Weight 0.90kg LMF D 日本

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting Cable with plug, L 500mm.
Reflector: aluminium, anodised, mirrorfinish. Safety glass. Anti-dazzle ring: cast aluminium, in-

Lampholder carrier: cast aluminium,

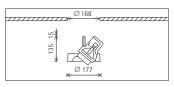
angles of tilt and rotation. Flush cassette for lampholder carriers:

Mounting ring: plastic, white (RAL9002).

0°-40° tilt, 360° rotation. Lockable

ternal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately.

Accessories page 331



Size 5

plastic, white.









60° 60°,

]	h(m)	E(Ix)	D(m)
			11°
1	1	30218	0.19
	2	7554	0.39
1	3	3358	0.58
	4	1889	0.77
1	5	1209	0.96
,			

Quintessence Recessed spotlight with flush cassette for metal halide lamps

duintessence necessed	spoungnt wit	in mush cassette for metal	nande lamps				
47440.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, narrow spot	Flush mounting detail Weight 0.90kg LMF D 日本	27.772 27.77	₩ HIT-TC-CE	60°, 30° 25000 cd 30°,	h(m) 1 2 3 4 5	E(lx) 16160 4040 1796 1010 646	D(m) 11° 0.19 0.39 0.58 0.77 0.96
			HIT-TC-CE	60°,	h(m) 1 2 3 4 5	E(lx) 30218 7554 3358 1889 1209	D(m) 11° 0.19 0.39 0.58 0.77 0.96
46458.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot	Covered mounting detail Weight 0.90kg LMF D 日本	2168 2177	HIT-TC-CE	60°, 30°, 12500 cd 30°,	h(m) 1 2 3 4 5	8234 2058 915 515 329	D(m) 16° 0.28 0.56 0.84 1.12 1.41
			HIT-TC-CE	60°, 30°, 25000 cd 30°,	h(m) 1 2 3 4 5	E(lx) 18810 4702 2090 1176 752	D(m) 15° 0.26 0.53 0.79 1.05 1.32
47441.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot	Flush mounting detail Weight 0.90kg LMF D 日本	© 172	HIT-TC-CE	60°, 60°, 30°, 12500 cd 30°,	h(m) 1 2 3 4 5	8234 2058 915 515 329	D(m) 16° 0.28 0.56 0.84 1.12 1.41
			HIT-TC-CE	60°,	h(m) 1 2 3 4 5	E(lx) 18810 4702 2090 1176 752	D(m) 15° 0.26 0.53 0.79 1.05 1.32
46459.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood	Covered mounting detail Weight 0.90kg LMF D 日本	Ø 168 SEL SEL Ø 177	HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	E(lx) 2673 668 297 167 107	D(m) 30° 0.54 1.07 1.61 2.14 2.68
			HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	5574 1393 619 348 223	D(m) 30° 0.54 1.07 1.61 2.14 2.68
47442.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood	Flush mounting detail Weight 0.90kg LMF D 日本	2172 2172 2189 2169 2169	HIT-TC-CE	60° 60° 4000 cd 30° 6	h(m) 1 2 3 4 5	E(Ix) 2673 668 297 167 107	D(m) 30° 0.54 1.07 1.61 2.14 2.68
			HIT-TC-CE	30° 7500 cd 30°	h(m) 1 2 3 4 5	E(lx) 5574 1393 619 348 223	D(m) 30° 0.54 1.07 1.61 2.14 2.68





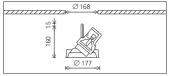
Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-

Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately. Accessories page 331

46454.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, narrow spot

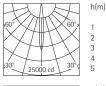
Covered mounting detail Weight 0.90kg LMF D 日本



Size 5

finish. Safety glass.







30218 0.19

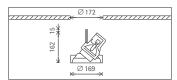
7554 0.39 0.58 1889 0.77

1209 0.96

E(Ix)D(m)

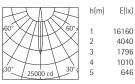
47437.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, narrow spot

Flush mounting detail Weight 0.90kg LMF D 日本



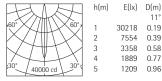


HIT-TC-CE



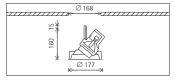
D(m) 16160 0.19 4040 0.39 1796 0.58 1010 0.77 646 0.96



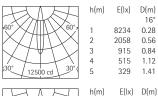


46455.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot

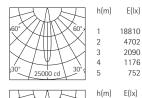
Covered mounting detail Weight 0.90kg IMF D 日本





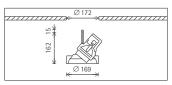


HIT-TC-CE



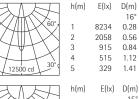
47438.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot

Flush mounting detail Weight 0.90kg LMF D 日本













18810 0.26 4702 0.53 2090 0.79 752 1.32

1.41

0.26

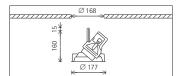
0.53

0.79 1.05

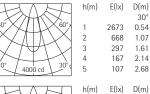
1.32

46456.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood

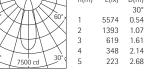
Covered mounting detail Weight 0.90kg LMF D 日本





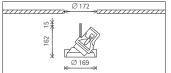




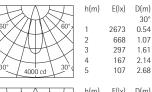


47439.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood

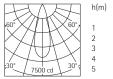
Flush mounting detail Weight 0.90kg LMF D 日本











E(Ix) D(m) 5574 0.54 1393 1.07 1.61 348 2.14 223 2.68

Quintessence Recessed spotlight with flush cassette for metal halide lamps





Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white,

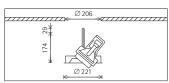
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Safety glass. Anti-dazzle ring: cast aluminium, internal black lacquered, external white (RAL9002) powder-coated.

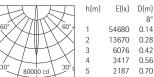
Control gear to be ordered separately. Accessories page 331

46511.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

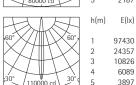
Covered mounting detail Weight 1.25kg LMF D 日本回





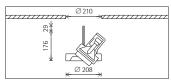


HIT-CE

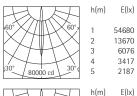


47529.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

Flush mounting detail Weight 1.25kg LMF D 日本 🗆











E(Ix) D(m) 97430 0.16 2 24357 0.31 3 10826 0.47 6089 3897 0.79

0.14

0.28

0.42

0.56

0.70

D(m)

0.16

0.31

0.47

0.63

0.79

D(m)

0.14

0.28

0.42

0.70

325

danitessence necess	ca spottigite with	til liasii cassette foi fileta	manac minps	,
46512.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot	Covered mounting detail Weight 1.25kg LMF D 日本 🗅	Ø 206 80 11 12 13 14 15 16 17 18 18 18 18 18 18 18 18 18 18	AA () HIT-CE	60° 1 19030 0.28 2 4758 0.56 3 2114 0.84 4 1189 1.12 30° 30000 cd 30° 5 761 1.41
			HIT-CE	60° 1 37445 0.28 2 9361 0.56 3 4161 0.84 4 2340 1.12 30° 50000 cd 30° 5 1498 1.41
47530.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot	Flush mounting detail Weight 1.25kg LMF D 日本 回	2210 82 82 82 82 82 82 82 82 82 82 82 82 82	HIT-CE	60° 1 19030 0.28 2 4758 0.56 3 2114 0.84 4 1189 1.12 30° 30000 cd 30° 5 761 1.41
			HIT-CE	60° 1 37445 0.28 2 9361 0.56 3 4161 0.84 4 2340 1.12 30° 50000 cd 30° 5 1498 1.41
46513.000 Reflector silver HIT-CE 35W G12 3500Im HIT-CE 70W G12 7300Im Spherolit reflector, flood	Covered mounting detail Weight 1.25kg LMF D 日本 回	© 206 ST 12 12 12 13 14 15 15 16 17 18 18 18 18 18 18 18 18 18 18	AÃ.	h(m) E(lx) D(m) 27° 1 7373 0.48 2 1843 0.96 3 819 1.44 4 461 1.92 30° 15000 cd 30° 5 295 2.40
			AA () HIT-CE	h(m) E(lx) D(m) 28° 1 14963 0.50 2 3741 1.00 3 1663 1.50 4 935 1.99 30° 22000 cd 30° 5 599 2.49
47531.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood	Flush mounting detail Weight 1.25kg LMF D 日本 🗉	Ø 210 Ø 208	AA () HIT-CE	h(m) E(lx) D(m) 27° 1 7373 0.48 2 1843 0.96 3 819 1.44 4 461 1.92 30° 15000 cd 30° 5 295 2.40
			AA () HIT-CE	60° 1 14963 0.50 22° 3741 1.00 3 1663 1.50 4 935 1.99 30° 22000 cd 30° 5 599 2.49





Size 7 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

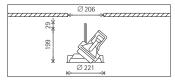
Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Safety glass.

Anti-dazzle ring: cast aluminium, in-

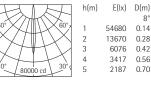
ternal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately. Accessories page 331

46508.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

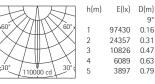
Covered mounting detail Weight 1.25kg LMF D 日本 🗆





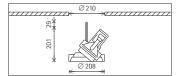




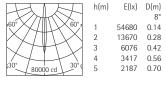


47526.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

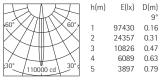
Flush mounting detail Weight 1.25kg LMF D 日本回







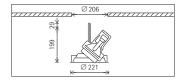




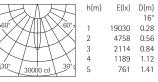
46509.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot

Spherolit reflector, spot

Covered mounting detail Weight 1.25kg LMF D 日本回







h(m)

2

3

D(m)

0.56

0.28

E(Ix) 37445 0.28

9361

4161 0.84

2340 1.12

1498 1.41

E(Ix) D(m)

19030

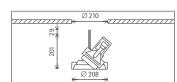
2340 1.12

1498 1 4 1

327

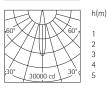


Flush mounting detail Weight 1.25kg LMF_D 日本口

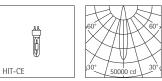




HIT-CE

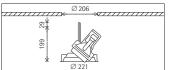


$\bigvee $	2	4758	0.56
/ / # / \ /	3	2114	0.84
. \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	4	1189	1.12
30000 cd 30°	5	761	1.41
	h(m)	E(Ix)	D(m)
\times			16°
.X 60°	1	37445	0.28
$\bigvee $	2	9361	0.56
	2	4161	0.04

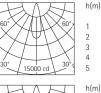


46510.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood

Covered mounting detail Weight 1.25kg LMF D 日本 🗆







27° 7373 0.48 1843 0.96 461 1.92 295 2.40

> E(Ix) 14963 0.50

3741 1.00 1663 1.50 935 1.99

> 599 2 49

E(Ix)D(m)

E(Ix)

D(m)

D(m)

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0.96

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2.40 D(m)

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1.00 1.50

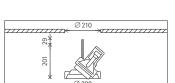
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47528.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Spherolit reflector, flood

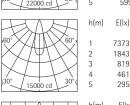
Flush mounting detail Weight 1.25kg LMF D 日本回



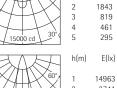


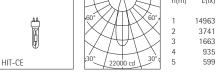
6

HIT-CE









Quintessence Recessed spotlight with flush cassette for high-pressure sodium vapour lamps





Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

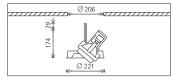
Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated.

Control gear to be ordered separately. Accessories page 331

46529.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.25kg LMF D







E(Ix) D(m) h(m) 27993 0.14 2 6998 0.28 3110 0.42 1750 0.56 1120 0.70

HST



h(m) E(Ix) D(m) 10° 31393 0.17 7848 0.35 3488 0.52 1962 0.70 1256 0.87

> E(Ix) D(m)

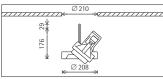
27993 0.14

6998 0.28

3110 0.42

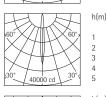
1120 0.70

47515.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot Flush mounting detail Weight 1.25kg LMF D





HST





E(Ix) D(m) h(m) 10° 31393 0.17 2 7848 0.35 3 3488 0.52 1962 1256 0.87

Quintessence Recessed spotlight with flush cassette for high-pressure sodium vapour lamps

	J	in mastreasserie for mg. ,		
46530.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot	Covered mounting detail Weight 1.25kg LMF D	2 221 × Ø 221 × Ø 221 × Ø 206	HST AA	h(m) E(lx) D(m) 16° 11 11389 0.28 2 2847 0.56 3 1265 0.84 4 712 1.12 30° 18000 cd 30° 5 456 1.41
			HST AA	h(m) E(lx) D(m) 17° 1 16867 0.30 2 4217 0.60 3 1874 0.90 4 1054 1.20 5 675 1.49
47516.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot	Flush mounting detail Weight 1.25kg LMF D	© 210 × 210	HST AA	60° 1 11389 0.28 2 2847 0.56 3 1265 0.84 4 712 1.12 30° 18000 cd 30° 5 456 1.41
			HST A&	h(m) E(lx) D(m) 17° 1 16867 0.30 2 4217 0.60 3 1874 0.90 4 1054 1.20 5 675 1.49
46531.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood	Covered mounting detail Weight 1.25kg LMF D	× Ø 2206 → Ø 221 → Ø 2206 → Ø 22	HST AA	h(m) E(lx) D(m) 26° 1 4919 0.46 2 1230 0.92 3 547 1.39 4 307 1.85 30° 8000 cd 30° 5 197 2.31
			HST AA	h(m) E(lx) D(m) 26° 1 8544 0.46 2 2136 0.92 3 949 1.39 4 534 1.85 30° 12000 cd 30° 5 342 2.31
47517.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood	Flush mounting detail Weight 1.25kg LMF D	© 210 SQ 92 92 © 208	HST AA	h(m) E(lx) D(m) 26° 1 4919 0.46 2 1230 0.92 3 547 1.39 4 307 1.85 30° 8000 cd 30° 5 197 2.31
			AA.	h(m) E(lx) D(m) 26° 1 8544 0.46 2 2136 0.92 3 949 1.39 4 534 1.85

Quintessence Recessed spotlight with regressed cassette for high-pressure sodium vapour lamps

Size 7

detail.

finish.



46526.000 Reflector silver

HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm

Spherolit reflector, narrow spot



Covered mounting detail Weight 1.25kg LMF D

Ø 206 2 199



Lampholder carrier: cast aluminium,

0°-40° tilt, 360° rotation. Lockable

angles of tilt and rotation. Regressed cassette for lampholder

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-

Anti-dazzle ring: cast aluminium, in-

carrier: plastic, white.





ternal black lacquered, external white

Control gear to be ordered separately.

(RAL9002) powder-coated.

Accessories page 331



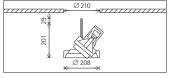




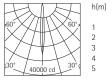


47512.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot

Flush mounting detail Weight 1.25kg LMF D









E(Ix) D(m)

31393 0.17 7848 0.35 3488 0.52 1962 0.70

1256 0.87

E(Ix) D(m)

4217 0.60 1874 0.90 1054 1.20

675 1.49

0.30 16867

D(m)

0.28

0.56

0.84

1.41

10°

h(m)

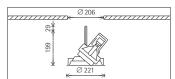


46527.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot

HST 100W GX12-1 4900lm

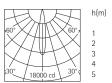
Spherolit reflector, spot

Covered mounting detail Weight 1.25kg LMF D





HST

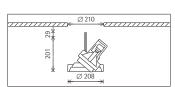




h(m)

47513.000 Reflector silver HST 50W GX12-1 2400lm

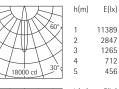
Flush mounting detail Weight 1.25kg LMF D

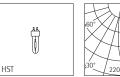




HST





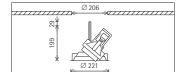




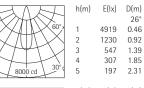
E(Ix) D(m) h(m) 16867 0.30 4217 0.60 1874 0.90 1054 1.20 675 1.49

Quintessence Recessed spotlight with regressed cassette for high-pressure sodium vapour lamps

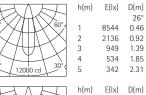
46528.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood Covered mounting detail Weight 1.25kg LMF D





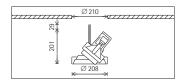




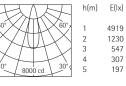


47514.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood















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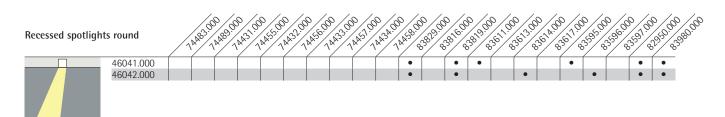
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Quintessence Accessories

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47439.000												•											
47440.000	•		•		•		•		•			•											
47441.000	•		•		•		•		•			•											
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83817.000

DALI



83691.000 Control gear for LED

220-240V, 50-60Hz. 700mA, 25W, switchable. Max. ambient temperature

Secondary voltage 3–30V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection Available from 2nd quarter 2010 Weight 0.52kg



Available from 2nd quarter 2010

Weight 0.52kg



DALI DALI control gear for LFD 220-240V, 50-60Hz. 700mA, 25W. Max. ambient temperature of 50°C. Secondary voltage 3–30V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 3rd quarter 2010 Weight 0.65kg

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 90mm Weight 0.18kg **W**¹ □ · ○ ○ ○ SELV ♥ ♥ TS-115

















83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing.

Use dimmers for electronic transformers (trailing edge). For interference suppression to

VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 70mm Weight 0.19kg

⋘ ♠ □ 🗑 🛈 🖯 SELV ♥♥TS-115

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V controllable

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 125mm

83669.000

Control gear for HIT-TC-CE 20W, G8.5 and GU6.5 and HIT-CE 20W, G12 and HIPAR51-CE-P 20W, GX10.

Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg

83655.000

Control gear for HIT-TC-CE 35W, GU6.5 and HIT-CE 35W, G12. Metal, black powder-coated.

Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg





83656.000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg



83659.000 Control gear for HST 50W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



83658.000 Control gear for HST 100W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



70692.000 77185.000 Sculpture lens



70649.000 Softec lens



70688.000 77198.000 UV filter



70689.000 77196.000



74482.000 74488.000 Skintone filter



253

70647.000 70648.000 Food filter



74483.000 74489.000 Daylight conversion filter



253 110 5 **

74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue

CO 131

360 ★

380



74434.000 74458.000 Interference colour filter Night blue



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



83816.000
DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching
ohmic, inductive and capacitive loads
max 16A.
DALI interface with two independent
addresses.
Mounting on DIN rail.
Weight 0.21kg



83819.000 Overvoltage protection device for max. 10 electronic transformers. L 45mm, B 25mm, H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



83611.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.10kg



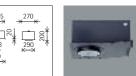


83613.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.00kg



83614.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.20kg

CO 168 3 K 430



83617.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.40kg



83595.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete Weight 0.07kg

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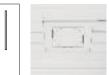




83596,000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.10kg



83597.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.15kg



82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



18¥ 📺 \$‡

380

83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.

Quintessence Recessed spotlight with LED and flush cassette





36716.000 LED daylight white LED 21W 1620lm 5500K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

36714.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Covered mounting detail Weight 1.20kg LMF D 日本①

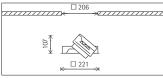
Covered mounting detail Weight 1.20kg LMF D 日本 ⑩

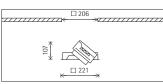
Size 7 Housing: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette: plastic, white.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mount-ing detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Anti-dazzle ring: cast aluminium, inside black lacquered, outside white (RAL9002) powder-coated.

Replaceable LED module: high-power LEDs on metal-core PCB. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 362







LED



	h(m)	E(Ix)	D(m)	
			16°	
60°,	1	14514	0.28	
\times	2	3628	0.56	
$ \bot $	3	1613	0.84	
7	4	907	1.12	
30° (5	581	1.41	

E(lx) D(m) h(m) 11692 0.28 2 2923 0.56 3 0.84 1299 1.12 468 1.41

Quintessence Recessed spotlight with LED and flush cassette

37716.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Flush mounting detail Weight 1.20kg LMF D 日本 ��	□ 210 □ 210 □ 209 × □ 209	LED	60°	2	E(lx) 14514 3628 1613 907 581	D(m) 16° 0.28 0.56 0.84 1.12 1.41
37714.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Flush mounting detail Weight 1.20kg LMF D 日本 ��	□ 210 ∞ □ 209 × □ 209	LED	60°	2	E(lx) 11692 2923 1299 731 468	D(m) 16° 0.28 0.56 0.84 1.12 1.41
36720.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 1.20kg LMF D 日本 ��	□ 206 □ 206 □ 221	LED	60°	1 5	E(lx) 5527 1382 614 345 221	D(m) 28° 0.50 1.00 1.50 1.99 2.49
36718.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 1.20kg LMF D 日本 �	□ 206 □ 206 □ 221 × □ 221	LED	60°	1 4	E(lx) 4452 1113 495 278 178	D(m) 28° 0.50 1.00 1.50 1.99 2.49
37720.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Flush mounting detail Weight 1.20kg LMF D 日本 ⊕	210 → 21	LED	60°	1 5	E(lx) 5527 1382 614 345 221	D(m) 28° 0.50 1.00 1.50 1.99 2.49
37718.000 LED warm white LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Flush mounting detail Weight 1.20kg LMF D 日本 ��	<u>2110</u> → 2110 → 2100 → 2100 → 2100 → 2100 → 2100 → 2100 → 2100 → 2100 → 21	LED	60°	1 4	E(lx) 4452 1113 495 278 178	D(m) 28° 0.50 1.00 1.50 1.99 2.49

Quintessence Recessed spotlight with LED and regressed cassette





Size 7 Housing: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt Regressed cassette: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail. Cable, L 500mm. Anti-dazzle ring: cast aluminium, side black lacquered, outside white (RAL9002) powder-coated.

LED

Replaceable LED module: high-power LEDs on metal-core PCB. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 362

36717.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.20kg LMF D 日本 ⑩

detail

日本 ⑩

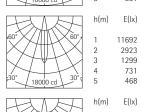
□ 221



E(lx) D(m) h(m) 14514 0.28 3628 0.56 0.84 1613 581 1.41 h(m) E(Ix) D(m) 16°

36715.000 LED warm white LED 21W 1305lm 3200K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

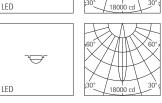
Covered mounting □ 206 Weight 1.20kg LMF D □ 221



37717.000 LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 1.20kg LMF D 日本 ⑩

□ 209



581

14514 0.28

3628 0.56 1613 0.84

3

0.28

0.56

0.84

1.41

D(m)

1.12

1.41

Quintessence Recessed spotlight with LED and regressed cassette

D(m) 37715.000 LED warm white Flush mounting h(m) E(Ix) □ 210 LED 21W 1305lm 3200K 16° detail 11692 Weight 1.20kg LMF D 0.28 Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. 2923 0.56 \Box 2 1299 731 1.12 □ 209 LED 5 468 1.41 36721.000 LED daylight white Covered mounting h(m) E(Ix) D(m) □ 206 LED 21W 1620lm 5500K 28° detail Version 1 Weight 1.20kg 5527 0.50 Lens system, flood: collimating lens, IMF D 2 1382 1.00 \bigcirc plastic, clear. Spherolit lens, flood. 3 614 1.50 日本 ⑩ 345 1.99 LED 221 2 49 36719.000 LED warm white Covered mounting h(m) E(Ix) D(m) □ 206 LED 21W 1305lm 3200K detail Weight 1.20kg LMF D 4452 Version 1 0.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 1113 2 1.00 \bigcirc 495 1.50 日本 ⑩ 278 1 99 5 LED 178 2.49 37721.000 LED daylight white Flush mounting E(Ix) D(m) h(m) LED 21W 1620lm 5500K detail Version 1 Weight 1.20kg 5527 0.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. IMF D 2 1382 1.00 日本① 345 1.99 □ 209 LED 221 2.49 37719.000 LED warm white h(m) E(Ix) D(m) Flush mounting □ 210 LED 21W 1305lm 3200K 28° detail Weight 1.20kg 4452 0.50 2 1113 1.00 Lens system, flood: collimating lens, 3 495 1.50 plastic, clear. Spherolit lens, flood. 日本 ⑩ 278 1.99 □ 209 LED 178 2 49

Quintessence Recessed spotlight with LED and flush cassette





PLUG-PLAY

Housing: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation

Flush cassette: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. . Anti-dazzle ring: cast aluminium, inside black lacquered, outside white (RAL9002) powder-coated. Replaceable LED module: high-power LEDs on metal-core PCB.

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36819.000 LED daylight white DALI LED 21W 1620lm 5500K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.85kg LMF D

□ 206 223 x 95 □ 221

223 x 95

223 x 95

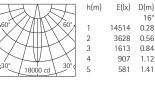
∵ş‡

□ 206

□ 221

209

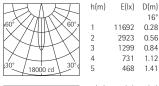




36817.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.85kg LMF D

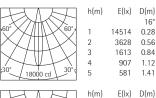
LED



37831.000 LED daylight white DALI LED 21W 1620lm 5500K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 1.85kg LMF D

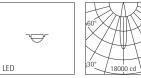
LED



37830.000 LED warm white DALI LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 1.85kg LMF D

□ 210 ≂¶‡ □ 209 223 x 95



0.28

0.56

0.84 1.12

1.41

339

Quintessence Recessed spotlight with LED and flush cassette

36823.000 LED daylight white DALI Covered mounting E(Ix) D(m) LED 21W 1620lm 5500K 28° detail Weight 1.85kg LMF D 5527 0.50 Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 1382 1.00 \bigcirc 223 x 95 345 1 99 □ 221 LED 221 2.49 36821.000 LED warm white DALI Covered mounting E(Ix) D(m) □ 206 LED 21W 1305lm 3200K detail Weight 1.85kg LMF D Version 1 4452 0.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 1113 1.00 1.50 495 □ 221 278 1.99 223 x 95 LED 178 2 49 37833.000 LED daylight white DALI E(Ix)D(m) Flush mounting LED 21W 1620lm 5500K detail 5527 Weight 1.85kg 0.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 1382 1.00 LMF D \bigcirc 614 1.50 345 1 99 □ 209 223 x 95 LED 221 2.49 37832.000 LED warm white DALI Flush mounting E(Ix) D(m) h(m) □ 210 LED 21W 1305lm 3200K detail Weight 1.85kg LMF D Version 1 4452 0.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 1.00 1113 1.50

□ 209

Quintessence Recessed spotlight with LED and regressed cassette





DALI PI UG+

223 x 95

Housing: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

LED

Regressed cassette: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail.
Including DALI control gear with plug
and play connectivity. Through-wiring
possible. 5-pole terminal block. Änti-dazzle ring: cast aluminium, in-

side black lacquered, outside white (RAL9002) powder-coated. Replaceable LED module: high-power LEDs on metal-core PCB. Available from 3rd quarter 2010 Accessories page 362

278 1.99

178 2.49

36820.000 LED daylight white DALI LED 21W 1620lm 5500K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.85kg LMF D

□ 206 □ 221 223 x 95





E(Ix) D(m) h(m) 14514 0.28 3628 0.56 1613 0.84 1.12 581 1.41

36818.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Covered mounting detail Weight 1.85kg LMF D

223 x 95

□ 210

□ 209

□ 209



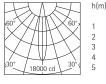


h(m) E(Ix) D(m) 16° 11692 0.28 2923 0.56 1299 0.84 468 1.41

37835.000 LED daylight white DALI LED 21W 1620Im 5500K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 1.85kg LMF D





E(Ix) D(m) 14514 0.28 3628 0.56 1613 0.84 1.12 581 1.41

37834.000 LED warm white DALI LED 21W 1305lm 3200K Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Flush mounting detail Weight 1.85kg LMF D

,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, 223 x 95

223 x 95



E(Ix) D(m) h(m) 16° 11692 0.28 2 2923 0.56 3 1299 0.84 731 468 1.41 E(Ix) D(m)

36824.000 LED daylight white DALI LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens,

plastic, clear. Spherolit lens, flood.

Covered mounting detail Weight 1.85kg LMF D

223 x 95 □ 221



LED

h(m)

5527 0.50 1382 1.00 614 1.50 221 2.49

Quintessence Recessed spotlight with LED and regressed cassette

36822.000 LED warm white DALI Covered mounting E(Ix) D(m) h(m) □ 206 LED 21W 1305lm 3200K 28° detail 4452 0.50 Version 1 Weight 1.85kg 1113 1.00 Lens system, flood: collimating lens, LMF D \Box 2 plastic, clear. Spherolit lens, flood. 4 278 1 99 □ 221 223 x 95 LED 178 2.49 37837.000 LED daylight white DALI D(m) Flush mounting h(m) E(Ix) □ 210 LED 21W 1620lm 5500K 28° detail Version 1 Weight 1.85kg LMF D 5527 0.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 2 1382 1.00 3 345 1.99 223 x 95 □ 209 LED 221 2 49 37836.000 LED warm white DALI Flush mounting h(m) E(Ix) D(m) □ 210 LED 21W 1305lm 3200K detail 4452 0.50 Version 1 Weight 1.85kg Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 1113 1.00 2 LMF D 495 278 1 99 □ 209 223 x 95 LED 178 2.49

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





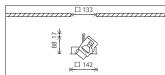
Size 4
Lampholder carrier: cast aluminium,
0°-30° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Flush cassette for lampholder carriers:
plastic, white.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.
Cable, L 500mm.

Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002)

EN 61347 to be ordered separately. Accessories page 361

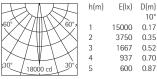
Transformer to EN 61558 or

36036.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Covered mounting detail Weight 0.51kg LMF D 日本 ⑩ 爲

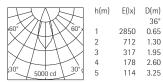


lacquered.









D(m)

10°

0.17

0.35

0.70

0.87

D(m)

0.65

1.30

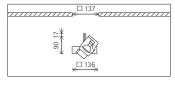
1.95

2.60

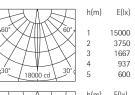
3.25

341

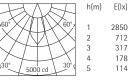
37036.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Flush mounting detail Weight 0.51kg LMF D 日本 ⑩ 衛











Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps



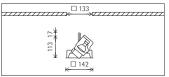


Size 4
Lampholder carrier: cast aluminium,
0°-40° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Regressed cassette for lampholder
carrier: plastic, white.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.
Cable, L 500mm.
Anti-dazzle ring: plastic, internal black
lacquered, external white (RAL9002)

Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 361**

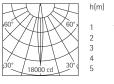
36034.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Covered mounting detail Weight 0.51kg LMF D 日本 ⑩ 爵



lacquered.





h(m) E(lx) D(m) 10° 1 15000 0.17 2 3750 0.35 3 1667 0.52 4 937 0.70 5 600 0.87





 h(m)
 E(lx)
 D(m)

 36°
 36°

 1
 2850
 0.65

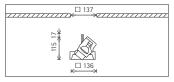
 2
 712
 1.30

 3
 317
 1.95

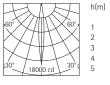
 4
 178
 2.60

 5
 114
 3.25

37034.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Flush mounting detail Weight 0.51kg LMF D 日本 ⑩ 爲

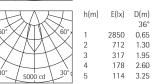












Quintessence Recessed spotlight with flush cassette and shadow gap for low-voltage halogen lamps



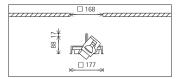


Size 5 Lampholder carrier: cast aluminium, 0°-30° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white. Peripheral shadow gap: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mount-

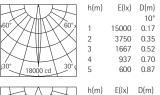
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm. Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002) lacquered.
Transformer to EN 61558 or EN 61347 to be ordered separately.
Accessories page 361

36037.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 衛







2

3

2850 0.65

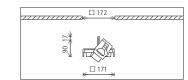
712 1.30

114 3.25

317 1.95 178 2.60

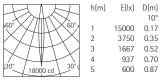
343

37037.000QR-CBC51-RE 50W 12V GU5.3 10°
QR-CBC51-RE 50W 12V GU5.3 36°
United State of the Meight O.65kg LMF D 日本 ◆ △

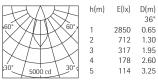




QR-CBC51-RE







Quintessence Recessed spotlight with regressed cassette and shadow gap for low-voltage halogen lamps





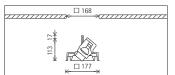
Size 5
Lampholder carrier: cast aluminium,
0°-40° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Regressed cassette for lampholder carrier: plastic, white. Peripheral shadow
gap: plastic, black.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.
Cable, L 500mm.
Anti-dazzle ring: plastic, internal black

lacquered, external white (RAL9002) lacquered. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 361

36035.000

QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Covered mounting detail Weight 0.62kg LMF D 日本 ⑩ ட







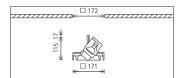








37035.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Flush mounting detail Weight 0.62kg LMF D 日本 ⑩ 爵













	П(ПП)	E(IX)	D(III)
			36°
)° x	1	2850	0.65
	2	712	1.30
1	3	317	1.95
	4	178	2.60
)° (5	114	3.25

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white.

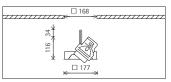
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Reflector: aluminium, anodised, mirrorfinish. Anti-dazzle ring: cast aluminium, in-

(RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 361

ternal black lacquered, external white

36049.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot Covered mounting detail Weight 0.81kg LMF C 日本 ⑩ இ









37049.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot Flush mounting detail Weight 0.81kg LMF C 日本 ⑩ 爲

□ 172 → Z.....





h(m)	E(Ix)	D(m)
		10°
1	23474	0.17
2	5869	0.35
3	2608	0.52
4	1467	0.70
5	939	0.87
h(m)	E(Ix)	D(m)

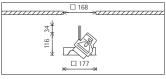
3233 0.49

517 1.23

0.25

1437 0.74 808 0.98

36050.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot Covered mounting detail Weight 0.81kg LMF C 日本 �� 爵





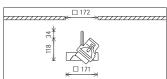
HAMA	h(m)	E(Ix)
60°	1 2	12932 3233
	3	1437
	4	808
30° (18000 cd 30° (5	517

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps

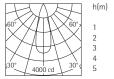
E(Ix) D(m) 37050.000 Reflector silver Flush mounting h(m) □ 172 QT12-ax 75W 12V GY6.35 1575lm detail 12932 Weight 0.81kg LMF C 0.25 Spherolit reflector, spot Ü 3233 0.49 2 日本 ⑩ 爲 4 808 0.98 □ 171 QT12-ax 5 517 36051.000 Reflector silver Covered mounting h(m) E(Ix) D(m) □ 168 QT12-ax 75W 12V GY6.35 1575lm detail Spherolit reflector, flood Weight 0.81kg 2762 0.54 IMF C 2 690 1.07 3 307 日本 ⑩ டு 173 2.14 □ 177 QT12-ax 110 2 68 E(Ix) D(m)

37051.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Flush mounting detail Weight 0.81kg LMF C 日本 ⑩ 卿







0.74

1.23

30°

0.54

2762

690 1.07

307 1.61 173 2 14

110 2.68

Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps



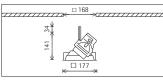


Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.
Regressed cassette for lampholder carrier: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

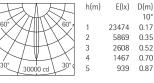
Reflector: aluminium, anodised, mirrorfinish. Anti-dazzle ring: cast aluminium, internal black lacquered external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 361

36046.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot

Covered mounting detail Weight 0.81kg IMF C 日本 ⑩ 卿





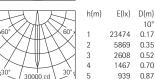


37046.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, narrow spot

Flush mounting detail Weight 0.81kg LMF C 日本 ⑩ 孫

143 □ 171



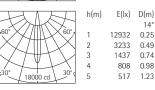


36047.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Covered mounting detail Weight 0.81kg LMF C 日本命命

□ 168



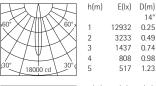


37047.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Flush mounting detail Weight 0.81kg IMF C 日本命の

□ 171

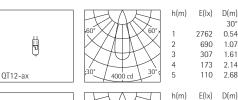




36048.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

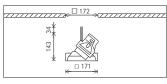
Covered mounting detail Weight 0.81kg LMF C 日本 ⑩ ட

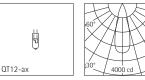
□ 168



37048.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Flush mounting detail Weight 0.81kg LMF C 日本⑩ 僫





345

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





Size 7 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white.

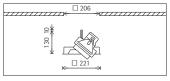
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm. Reflector: aluminium, anodised, mirror-

finish. Anti-dazzle ring: cast aluminium, in-

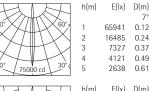
ternal black lacquered, external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 361

36055.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot



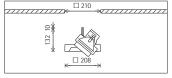




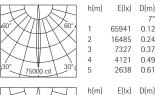


37055.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot



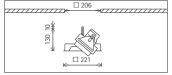




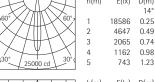


36056.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot



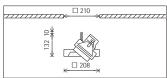




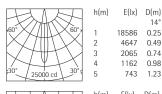


37056.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot



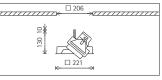




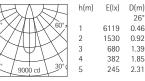


36057.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood



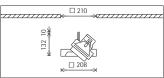






37057.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood









h(m)	E(Ix)	D(m)
		26°
1	6119	0.46
2	1530	0.92
3	680	1.39
4	382	1.85
5	245	2.31
	1 2 3 4	1 6119 2 1530 3 680 4 382

Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps





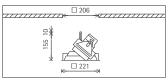
Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Reflector: aluminium, anodised, mirrorfinish Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 361

36052.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.13kg LMF C 日本命命







I	h(m)	E(Ix)	D(m)
C00			7°
V 7	1	65941	0.12
X	2	16485	0.24
\vee	3	7327	0.37
1	4	4121	0.49
30°	5	2638	0.61

Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps

E(Ix) D(m) 37052.000 Reflector silver Flush mounting h(m) 210 QT12-ax 100W 12V GY6.35 2200lm detail 65941 0.12 Weight 1.13kg LMF C Spherolit reflector, narrow spot Ü 16485 0.24 2 日本 ⑩ 爲 7327 4 4121 0.49 □ 209 QT12-ax 5 2638 0.61 D(m) 36053.000 Reflector silver Covered mounting h(m) E(Ix) □ 206 QT12-ax 100W 12V GY6.35 2200lm detail Spherolit reflector, spot Weight 1.13kg 18586 0.25 4647 IMF C 2 0.49 155 3 2065 0.74 日本 ⑩ டு 1162 0.98 QT12-ax 743 1 23 37053.000 Reflector silver h(m) E(Ix)D(m) Flush mounting QT12-ax 100W 12V GY6.35 2200lm detail Spherolit reflector, spot Weight 1.13kg LMF C 18586 0.25 4647 0.49 2 日本 ⑩ 卿 2065 0.74 1162 0.98 □ 209 5 QT12-ax 743 1.23 36054.000 Reflector silver Covered mounting E(Ix) D(m) h(m) □ 206 QT12-ax 100W 12V GY6.35 2200lm detail 6119 Spherolit reflector, flood Weight 1.13kg 0.46 2 1530 0.92 IMF C 155 日本 ⑩ 爲 1.39 382 1.85 □ 221 QT12-ax 245 2.31 37054.000 Reflector silver h(m) E(Ix) D(m) Flush mounting □ 210 QT12-ax 100W 12V GY6.35 2200lm 26° detail Weight 1.13kg LMF C Spherolit reflector, flood 6119 0.46 2 0.92 1530 157 日本⑩爲 3 680 1.39 382 1.85 □ 209

Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps





PLUG+ PLAY

Lampholder carrier: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation

QT12-ax

Flush cassette for lampholder carriers: plastic, white.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief.

Reflector: aluminium, anodised, mirrorfinish.

245 2.31

Anti-dazzle ring: cast aluminium, internal black lacquered, external white (RAL9002) powder-coated.

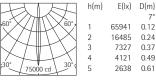
Accessories page 361

36255.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.31kg LMF C 口像

□ 206 130 □ 221 167 x 42





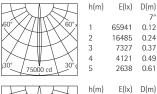
37255.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Flush mounting detail Weight 1.31kg LMF C

132 □ 209 167 x 42



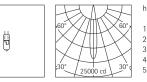
QT12-ax



36256.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Covered mounting detail Weight 1.31kg LMF C 口像

□ 206 167 x 42 □ 221



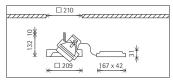
4647 0.49 3 2065 0.74 743 1.23 D(m) h(m) E(Ix) 18586 0.25 4647 2 0.49

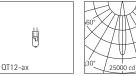
347

18586 0.25

37256.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Flush mounting detail Weight 1.31kg LMF C



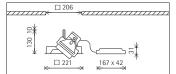


Quintessence Recessed spotlight with flush cassette for low-voltage halogen lamps

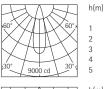
36257.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

37257.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Covered mounting detail Weight 1.31kg LMF C







h(m) E(lx) D(m)
26°
1 6119 0.46
2 1530 0.92
3 680 1.39
4 382 1.85
5 245 2.31

D(m)

26°

0.46

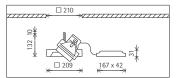
0.92

1.39

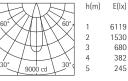
1.85

2.31

Flush mounting detail Weight 1.31kg LMF C







Quintessence Recessed spotlight with regressed cassette for low-voltage halogen lamps





DALI PLUG+ PLAY Size 7 Lampholder carrier: cast aluminium, with connection cable L 500mm. 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation.

Regressed cassette for lampholder carrier: plastic, white.

Mounting frame: plastic, white

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Including 230/240/12V DALI trans-

former, with plug and play connectivity. Terminal block with strain relief.

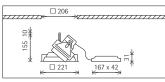
Reflector: aluminium, anodised, mirrorfinish.

Anti-dazzle ring: cast aluminium, internal black lacquered, external white (RAL9002) powder-coated.

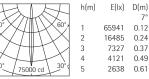
Accessories page 361

36252.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.31kg LMF C

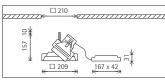




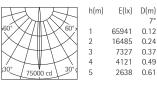


37252.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot

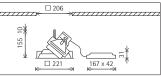
Flush mounting detail Weight 1.31kg LMF C



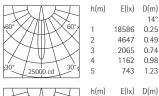




36253.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Covered mounting detail Weight 1.31kg LMF C



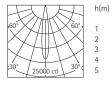




37253.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Flush mounting detail Weight 1.31kg LMF C

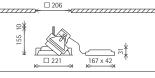
7/////	<u> </u>	Z
157 10	□ 209	

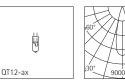


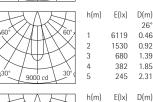


36254.000 Reflector silver DALI OT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

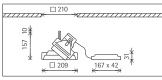
Covered mounting detail Weight 1.31kg LMF C



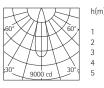




37254.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Flush mounting detail Weight 1.31kg LMF C







26° 1 6119 0.46 2 1530 0.92 3 680 1.39 4 382 1.85 30° 5 245 2.31

18586 0.25 4647 0.49 2065 0.74

1162 0.98

743 1.23

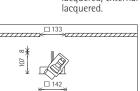




Covered mounting detail Weight 0.66kg LMF D 日本



Cable with plug, L 500mm.
Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002) lacquered.



Size 4

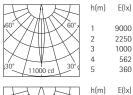
plastic, white.

mounting detail.

Lampholder carrier: cast aluminium, 0°-30° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers:

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush





D(m)

12° 0.21

0.42

0.63

0.84

1.05

D(m)

0.44

0.89

1.33 1.77

2.22

D(m)

0.21

0.42

0.63

0.84

1.05

D(m)

25°

0.44 0.89

1.33

1.77

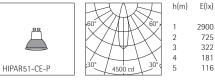
2.22

349

12°

Control gear to be ordered separately.

Accessories page 361

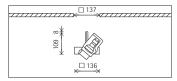


37457.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

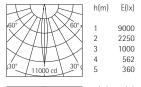
HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

36444.000

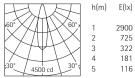
Flush mounting detail Weight 0.66kg LMF D 日本













36442.000

HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

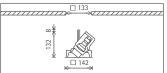


Covered mounting detail

Size 4 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.
Anti-dazzle ring: plastic, internal black lacquered, external white (RAL9002)

Control gear to be ordered separately. Accessories page 361





lacquered.







2900 0.44 725 0.89 322 1.33 181

116 2.22

D(m)

25°

0.44 0.89

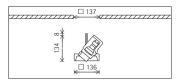
1.33

1.77

2.22

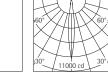
37455.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

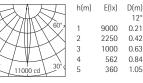
Flush mounting detail Weight 0.66kg LMF D 日本



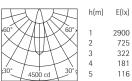


HIPAR51-CE-P









Quintessence Recessed spotlight with flush cassette and shadow gap for metal halide lamps





Size 5 Size 5
Lampholder carrier: cast aluminium,
0°-30° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Flush cassette for lampholder carriers:
plastic, white. Peripheral shadow gap:
plastic, black.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

ing detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.

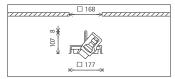
Anti-dazzle ring: plastic, internal black

lacquered, external white (RAL9002) lacquered.

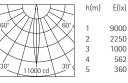
Control gear to be ordered separately. Accessories page 361

36445.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.80kg LMF D 日本







D(m)

12° 0.21

0.42

0.63

0.84

1.05

D(m)

0.44

0.89

1.33 1.77

2.22

25°

0.44 0.89

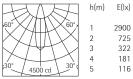
1.33

1.77

2.22

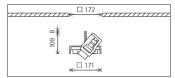
351



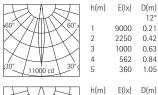


37458.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

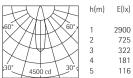
Flush mounting detail Weight 0.80kg LMF D 日本













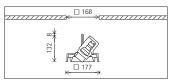


Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Peripheral shadow gap: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Anti-dazzle ring: plastic, internal black

lacquered, external white (RAL9002) lacquered. Control gear to be ordered separately. Accessories page 361

36443.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.77kg LMF D 日本







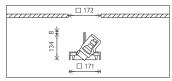


2900 0.44 725 0.89 322 1.33 181

116 2.22

37456.000			
HIPAR51-CE-P	20W	GX10	12°
HIPAR51-CE-P	20W	GX10	25°

Flush mounting detail Weight 0.76kg LMF D 日本



Size 5



HIPAR51-CE-P









ternal black lacquered, external white

Control gear to be ordered separately.

(RAL9002) powder-coated.

Accessories page 361

	h(m)	E(Ix)	D(m)
			25°
۲	1	2900	0.44
	2	725	0.89
	3	322	1.33
10	4	181	1.77
)° (5	116	2.22

Quintessence Recessed spotlight with flush cassette for metal halide lamps





36432.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm Covered mounting detail Weight 0.98kg LMF D white Spherolit reflector, narrow spot 日本



Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-

Anti-dazzle ring: cast aluminium, in-

finish. Safety glass.



HIT-TC-CE



A	h(m)	E(lx)	D(m)
60°	1	16160	0.19
\sim	2	4040	0.39
$\backslash J$	3	1796	0.58
1	4	1010	0.77
30° (5	646	0.96
	h(m)	E(Iv)	D(m)

E(Ix) D(m) 30218 0.19 7554 0.39 3 3358 0.58 1889 0.77 1209 0.96

177

Quintessence Recessed	spotlight wi	th flush cassette for metal	nalide lamps			
37445.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, narrow spot	Flush mounting detail Weight 0.98kg LMF D 日本	□ 172 □ 172 □ 171	HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 11° 16160 0.19 4040 0.39 1796 0.58 1010 0.77 646 0.96
			ніт-тс-се	60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 11° 30218 0.19 7554 0.39 3358 0.58 1889 0.77 1209 0.96
36433.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot	Covered mounting detail Weight 0.98kg LMF D 日本	2 168 × 1777 × 1	HIT-TC-CE	60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 16° 8234 0.28 2058 0.56 915 0.84 515 1.12 329 1.41
			HIT-TC-CE	60°,	h(m) 1 2 3 4 5	E(lx) D(m) 15° 18810 0.26 4702 0.53 2090 0.79 1176 1.05 752 1.32
37446.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot	Flush mounting detail Weight 0.98kg LMF D 日本	22 × 1771 × 1771	HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 16° 8234 0.28 2058 0.56 915 0.84 515 1.12 329 1.41
			HIT-TC-CE	60°,	h(m) 1 2 3 4 5	E(lx) D(m) 15° 18810 0.26 4702 0.53 2090 0.79 1176 1.05 752 1.32
36434.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood	Covered mounting detail Weight 0.98kg LMF D 日本	168 × 1777 × 177	HIT-TC-CE	60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 30° 2673 0.54 668 1.07 297 1.61 167 2.14 107 2.68
			HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	E(lx) D(m) 30° 5574 0.54 1393 1.07 619 1.61 348 2.14 223 2.68
37447.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood	Flush mounting detail Weight 0.98kg LMF D 日本	□ 172 □ 172 □ 171 □ 171	HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 30° 2673 0.54 668 1.07 297 1.61 167 2.14 107 2.68
			HIT-TC-CE	60° 60°,	h(m) 1 2 3 4 5	E(Ix) D(m) 30° 5574 0.54 1393 1.07 619 1.61 348 2.14 223 2.68

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36429.000 Reflector silver

white Spherolit reflector, narrow spot

HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm



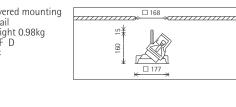
Covered mounting detail Weight 0.98kg LMF D 日本

Size 5 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-

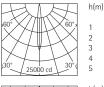
Anti-dazzle ring: cast aluminium, in-

finish. Safety glass.

ternal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately. Accessories page 361







		1.1
1	16160	0.19
2	4040	0.39
3	1796	0.58
4	1010	0.77
5	646	0.96
h(m)	E(Ix)	D(m)

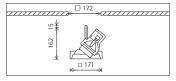
30218 0.19 7554 0.39 3358 1889 0.77

1209 0.96

E(lx) D(m)

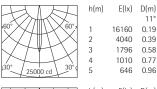
37442.000 Reflector silver
HIT-TC-CE 20W GU6.5 1615lm
HIT-TC-CE 35W GU6.5 3400lm warm
white
Spherolit reflector, narrow spot



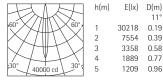




HIT-TC-CE

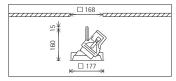




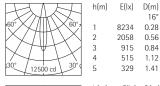




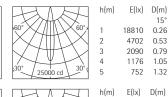






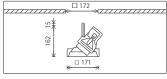






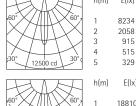
37443.000 Reflector silver
HIT-TC-CE 20W GU6.5 1615lm
HIT-TC-CE 35W GU6.5 3400lm warm
white
Spherolit reflector, spot

Flush mounting detail Weight 0.98kg LMF D 日本





HIT-TC-CE







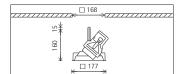
0.28

0.56

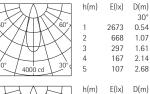
0.84

1.41

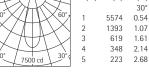
36431.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood Covered mounting detail Weight 0.98kg LMF D 日本



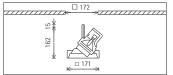




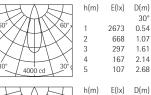




37444.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood Flush mounting detail Weight 0.98kg LMF D 日本







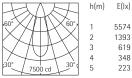
0.54

1.07

619 1.61 348 2.14

223 2.68





Quintessence Recessed spotlight with flush cassette for metal halide lamps





Size 7
Lampholder carrier: cast aluminium,
0°-40° tilt, 360° rotation. Lockable
angles of tilt and rotation.
Flush cassette for lampholder carriers:
plastic, white.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.
Cable with plug, L 500mm.

Reflector: aluminium, anodised, mirror-

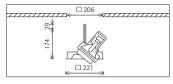
Anti-dazzle ring: cast aluminium, in-

finish. Safety glass.

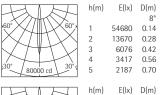
ternal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately. **Accessories page 361**

36521.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.35kg LMF D 日本 回







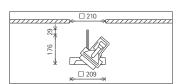
2

3

5

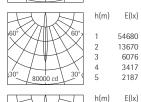
37507.000 Reflector silver HIT-CE 35W G12 3500Im HIT-CE 70W G12 7300Im Spherolit reflector, narrow spot

Flush mounting detail Weight 1.35kg LMF D 日本 回





HIT-CE







 h(m)
 E(Ix)
 D(m)

 9°
 9°

 1
 97430
 0.16

 2
 24357
 0.31

 3
 10826
 0.47

 4
 6089
 0.63

 5
 3897
 0.79

97430 0.16

24357 0.31

10826 0.47 6089 0.63

3897 0.79

D(m)

0.14

0.28

0.42

0.70

355

Quintessence necesse	a spottigite wi	tii ilasii eassette ioi illetai	nanac lamps	
36522.000 Reflector silver HIT-CE 35W G12 3500Im HIT-CE 70W G12 7300Im Spherolit reflector, spot	Covered mounting detail Weight 1.35kg LMF D 日本 回	206 ×	AA (I)	h(m) E(lx) D(m) 16° 1 19030 0.28 2 4758 0.56 3 2114 0.84 4 1189 1.12 5 761 1.41
			HIT-CE	h(m) E(lx) D(m) 16° 16° 1 37445 0.28 2 9361 0.56 3 4161 0.84 4 2340 1.12 5 1498 1.41
37508.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot	Flush mounting detail Weight 1.35kg LMF D 日本 回	210 × 210 ×	AA () HIT-CE	h(m) E(lx) D(m) 16° 16° 1 19030 0.28 2 4758 0.56 3 2114 0.84 4 1189 1.12 5 761 1.41
			AA () HIT-CE	h(m) E(lx) D(m) 16° 16° 1 37445 0.28 2 9361 0.56 3 4161 0.84 4 2340 1.12 5 1498 1.41
36523.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood	Covered mounting detail Weight 1.35kg LMF D 日本 回	206 221	AA () HIT-CE	h(m) E(lx) D(m) 27° 1 7373 0.48 2 1843 0.96 3 819 1.44 4 461 1.92 5 295 2.40
			AA () HIT-CE	h(m) E(lx) D(m) 28° 1 14963 0.50 2 3741 1.00 3 1663 1.50 4 935 1.99 5 599 2.49
37509.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood	Flush mounting detail Weight 1.35kg LMF D 日本 回	210 209 209	AA U	h(m) E(lx) D(m) 27° 1 7373 0.48 2 1843 0.96 3 819 1.44 4 461 1.92 5 295 2.40
			HIT-CE	60° 1 14963 0.50 2 3741 1.00 3 1663 1.50 4 935 1.99 5 599 2.49

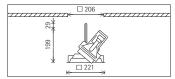




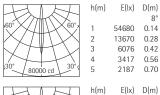
Size 7 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Safety glass. Anti-dazzle ring: cast aluminium, internal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately. **Accessories page 361**

36518.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.35kg LMF D 日本 回







97430 0.16

24357 0.31

10826 0.47 6089 0.63

3897 0.79

E(lx) D(m)

97430 0.16

24357

10826 0.47 6089 0.63

761 1.41

E(lx) D(m)

37445 0.28

9361

4161 0.84

2340 1.12

1498 1.41

0.56

D(m)

16°

0.28

0.56

0.84

1.12

1.41

357

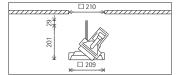
0.31



Spherolit reflector, spot

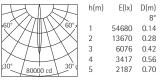
Spherolit reflector, spot

Flush mounting detail Weight 1.35kg LMF D 日本 回





HIT-CE



h(m)

2

3

5

2

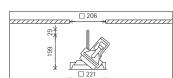
3

h(m)

2

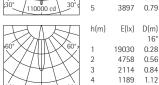


Covered mounting detail Weight 1.35kg LMF D 日本 回



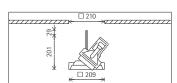


HIT-CE

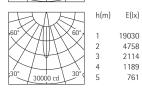




Flush mounting detail Weight 1.35kg LMF D 日本 回







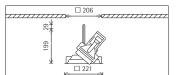




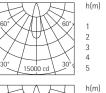
h(m) E(lx) D(m) 16° 1 37445 0.28 2 9361 0.56 3 4161 0.84 4 2340 1.12 5 1498 1.41

36520.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood

Covered mounting detail Weight 1.35kg LMF D 日本 🗆







D(m) E(Ix) 27° 7373 0.48 1843 0.96 461 1.92 295 2.40

> E(Ix) 14963 0.50

3741 1.00 1663 1.50 935 1.99

> 599 2 49

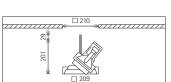
E(Ix)D(m)

D(m)

37506.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

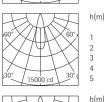
Spherolit reflector, flood

Flush mounting detail Weight 1.35kg LMF D 日本回





6











Quintessence Recessed spotlight with flush cassette for high-pressure sodium vapour lamps





Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Flush cassette for lampholder carriers: plastic, white. Mounting frame: plastic, white

(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-

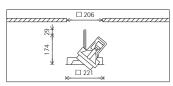
Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated.

Control gear to be ordered separately. Accessories page 361

36511.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.35kg LMF D







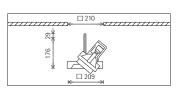


Flush mounting

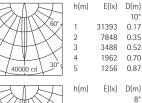
detail

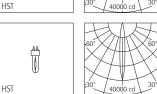
LMF D

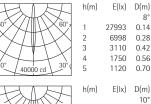
Weight 1.35kg











D(m) 10° 31393 0.17 2 7848 0.35 3 3488 0.52 1962 1256 0.87

37523.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot

Quintessence Recessed spotlight with flush cassette for high-pressure sodium vapour lamps

	spoting			۲
36512.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot	Covered mounting detail Weight 1.35kg LMF D	206 ACCOUNTS	HST AA	h(m) E(lx) D(m) 16° 1 11389 0.28 2 2847 0.56 3 1265 0.84 4 712 1.12 30° 18000 cd 30° 5 456 1.41
			HST AA	h(m) E(lx) D(m) 17° 1 16867 0.30 2 4217 0.60 3 1874 0.90 4 1054 1.20 5 675 1.49
37524.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot	Flush mounting detail Weight 1.35kg LMF D	210 x	HST AA	h(m) E(lx) D(m) 16° 1 11389 0.28 2 2847 0.56 3 1265 0.84 4 712 1.12 30° 18000 cd 30° 5 456 1.41
			HST AA	h(m) E(lx) D(m) 17° 1 16867 0.30 2 4217 0.60 3 1874 0.90 4 1054 1.20 5 675 1.49
36513.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood	Covered mounting detail Weight 1.35kg LMF D	206 EST 221	HST AA	h(m) E(lx) D(m) 26° 1 4919 0.46 2 1230 0.92 3 547 1.39 4 307 1.85 5 197 2.31
			HST A	h(m) E(lx) D(m) 26° 1 8544 0.46 2 2136 0.92 3 949 1.39 4 534 1.85 30° 12000 cd 30° 5 342 2.31
37525.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood	Flush mounting detail Weight 1.35kg LMF D	210 220 209	HST AA	h(m) E(lx) D(m) 26° 1 4919 0.46 2 1230 0.92 3 547 1.39 4 307 1.85 30° 8000 cd 30° 5 197 2.31
			AA.	h(m) E(lx) D(m) 26° 1 8544 0.46 2 2136 0.92 3 949 1.39 4 534 1.85

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359

Quintessence Recessed spotlight with regressed cassette for high-pressure sodium vapour lamps





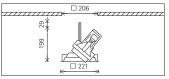
Size 7 Lampholder carrier: cast aluminium, 0°-40° tilt, 360° rotation. Lockable angles of tilt and rotation. Regressed cassette for lampholder carrier: plastic, white. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish.

Anti-dazzle ring: cast aluminium, in-

ternal black lacquered, external white (RAL9002) powder-coated. Control gear to be ordered separately. Accessories page 361

36508.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot

Covered mounting detail Weight 1.35kg LMF D









31393 0.17

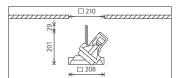
7848 0.35 3488 1962 0.70

1256 0.87

10°

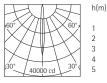
37520.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, narrow spot

Flush mounting detail Weight 1.35kg LMF D





HST





E(Ix) D(m)

31393 0.17 7848 0.35 3488 0.52 1962 0.70

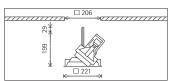
1256 0.87

10°

h(m)

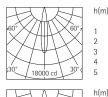








HST





E(Ix) D(m)

4217 0.60 1874 0.90 1054 1.20

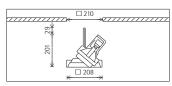
675 1.49

0.30 16867



Spherolit reflector, spot

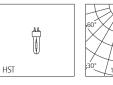
Flush mounting detail Weight 1.35kg LMF D

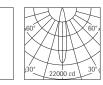


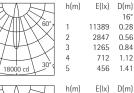


HST

HST





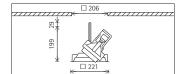


h(m)

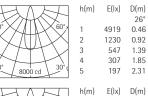
16867 0.30 4217 0.60 1874 0.90 1054 1.20 675 1.49

Quintessence Recessed spotlight with regressed cassette for high-pressure sodium vapour lamps

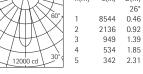
36510.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood Covered mounting detail Weight 1.35kg LMF D



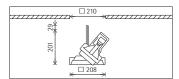




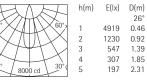




37522.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood Flush mounting detail Weight 1.35kg LMF D













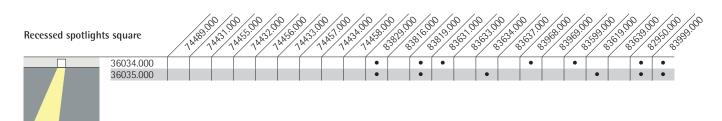
361

Quintessence Accessories

Recessed spotlights square	838y 838	83. 1995.	83879 80 199	383/39 89/100	8396 333.000	83642 300/6	83.02.0 80 \ 0	36,99	36 / V	06970	11850	0649.0	0688/1	1980	2689/V	1969	N 19 1	NA 488 19	06470	0648.00	10 /s
20024.000	/ & / & /	/ % / 6	6 / 6	•	/ 83/	87	82/9	b ³ / 9	63/^	<u> </u>	<u> </u>	\ <u>\</u>			<u>/</u>	$\sum_{i=1}^{n}$	~^	$\sum_{i=1}^{n}$	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		~
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36035.000																					
36038.000		•	•	•																	
36046.000		•		•						•	•										
36047.000		•	•	•						•	•		•			•		•		•	
36047.000				•									•			•					
36049.000		•	•	•						•	•		•			•		•		•	
36050.000		•	•	•						•	•		•			•		•		•	
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36510.000							•	•													
36511.000							•	•	•										•		
36512.000							•	•	•										•		
36513.000							•	•											•		
36518.000						•			•			•		•			•		•		
36519.000									•			•		•			•		•		
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36521.000						•			•												
36522.000					•	•			•												
36523.000					•	•															

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cessed spotlig	hts square	/	369/6	3636	3695	38/19	383/8	3833.	99696	365	36,26	3639	3638.0	0637	1185/1	0649/1	0688/1	1198.0	06831	11960	M87.0	A488.0	1064 J	0648,00 0648,00
, ,	•	/ 8	36/9	36/9	36/9	38/9	39/4	30/9	38/0	30/9	30/9	30/4	36/1	100/1	1 / 1	100/1	00/1	1/1	\n\\!\	1 / 1	$N^{\prime\prime}/\gamma$	\ ^{\(\)} \/1	1/00/1	100 / VX
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	36715.000	•	•	•																				
	36716.000 36717.000	•	•	•																				
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	36719.000	•	•	•																				
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	36817.000																							
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83817.000

DALI



83691.000 Control gear for LED

220-240V, 50-60Hz. 700mA, 25W, switchable. Max. ambient temperature

Secondary voltage 3–30V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection Available from 2nd quarter 2010 Weight 0.52kg





DALI control gear 220-240V, 50-60Hz. 700mA, 25W. Max. ambient temperature of 50°C. Secondary voltage 3–30V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 3rd quarter 2010 Weight 0.65kg

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V Installation in ceiling voids, showcases, furniture. Plastic housing. Primary and secondary

cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared. Overload and overheat protection:

automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 90mm Weight 0.18kg **W**¹ □ · ○ ○ ○ SELV ♥ ♥ TS-115







Weight 0.52kg











83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is

cleared. Overload and overheat protection: automatic load-sensing.

Use dimmers for electronic transformers (trailing edge).

For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 70mm Weight 0.19kg

⋘ ♠ □ 🗑 🛈 🖯 SELV ♥♥TS-115

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V controllable

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 125mm

83669.000

Control gear for HIT-TC-CE 20W, G8.5 and GU6.5 and HIT-CE 20W, G12 and HIPAR51-CE-P 20W, GX10.

Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg

83655.000

Control gear for HIT-TC-CE 35W, GU6.5 and HIT-CE 35W, G12. Metal, black powder-coated.

Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg





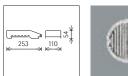
83656.000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg



83659.000 Control gear for HST 50W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



83658.000 Control gear for HST 100W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



70692.000 77185.000 Sculpture lens



70649.000 Softec lens



70688.000 77198.000 UV filter



70689,000 77196.000 IR filter



74482.000 74488.000 Skintone filter



253 110 5 *

70647.000 70648.000 Food filter

83816.000



74483.000 74489.000 Daylight conversion filter



74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue

CO 133

380

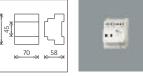
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74434.000 74458.000 Interference colour filter Night blue



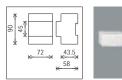
83829.000 DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg

270

CO 168 430



83819.000 Overvoltage protection device for max. 10 elec-tronic transformers. L 45mm, B 25mm, H 22mm. 2x1.5mm². L 80mm. Weight 0.05kg

→ 360

380

CO 206



83631.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 3.10kg



83633.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 3.00kg

CQ 168 430



83634.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 3.20kg



83637.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 3.40kg



83968.000 Mounting frame, 2x Plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Covered mounting detail. Recess depth: 260mm for directional luminaires and 220mm for downlights and recessed spotlights. Weight 0.30kg

9

220

















83969.000

83969.000
Mounting frame, 2x
Plastic, white (RAL9002). Mounting for ceiling thicknesses of 12.5-25mm. Flush mounting detail.
Recess depth: 260mm for directional luminaires and 220mm for downlights and recessed spotlights.
Weight 0.30kg

83599.000 Spacer plate Aluminium.
For flush-mounting of downlights in exposed concrete Weight 0.09kg

83619.000 Spacer plate
Aluminium.
For flush-mounting of downlights in concrete housings in exposed concrete Weight 0.14kg

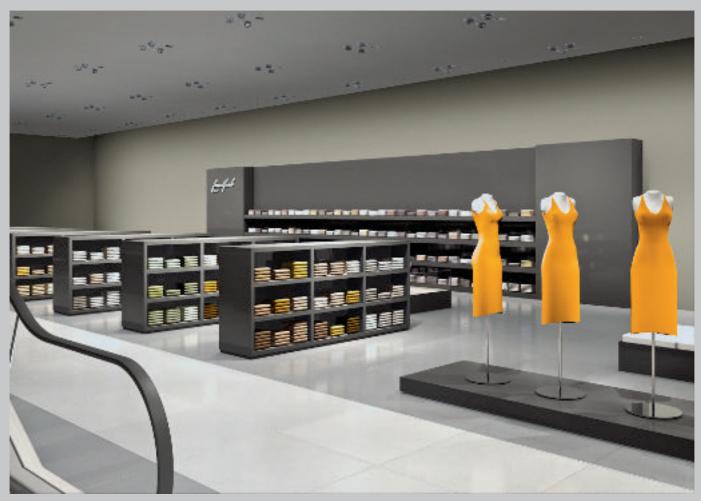
83639.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.20kg







83999.000 Cover frame Metal, white. For covering the gap where ceiling cut-outs are too big. Please state internal and external dimensions when ordering.



Logotec recessed spotlights provide energy-efficient accent lighting in sales areas and are ideal for combination with the Quintessence range.

The Logotec range of recessed spotlights excels due to efficient lighting technology, a clear use of forms, a sturdy design and excellent user-friendliness. The innovative Spherolit technology has resulted in highly uniform light beams with a slightly soft edge and a high light output ratio. The Logotec system structure is particularly optimised for the special requirements of sales area lighting and is a cost-efficient option for effective planning and design. The range includes varieties from narrow spot to wide flood for accentuation and even a recessed floodlight or recessed Spherolit wallwasher for vertical illuminance. This makes Logotec a lighting tool for a wide range of uses, specifically in sales areas.

The metal halide lamps are effective and efficient lighting options for the designer. Antidazzle rings ensure excellent visual comfort. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software. Logotec is also available as spotlight for track.



The Logotec range includes recessed spotlights, recessed floodlights and recessed Spherolit wall-washers in two sizes. The luminaires can be operated in four installation positions and tilted by 90° as well as rotated through 360°. The housings are made of cast aluminium and powder-coated in white. Amongst the accessories are colour filters and filters to reduce both IR and UV radiation.

Recessed spotlights



Logotec recessed spotlights have attachments that can be removed without tools for quick lamp replacement. The various Spherolit reflectors produce very narrow to wide light distribution. The spotlight range in two sizes features low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 70W and high-pressure sodium vapour lamps up to 100W.

Application

Very narrow to wide beam, rotationally symmetrical light distribution for accent lighting in sales and promotional areas and in art galleries.

Recessed floodlights



The oval flood Spherolit reflector is designed to produce an axially symmetrical light distribution for floodlighting. The recessed floodlights are available for low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 70W, and high-pressure sodium vapour lamps up to 100W.

Application

Wide-beam, axially symmetrical light distribution for background lighting in shop windows and exhibitions as well as for all presentation and display areas in sales rooms, multifunction rooms and private residences.

Recessed Spherolit wallwashers



With the Spherolit technique for wallwashing, the reflectors are formed so as to produce an asymmetrical light distribution for wallwashing with focal emphasis in the upper area of the wall. The recessed Spherolit wallwashers are available for low-voltage halogen lamps up to 100W/12V, metal halide lamps up to 70W, and high-pressure sodium vapour lamps up to 100W.

Application

Asymmetrical light distribution for wallwashing with focal emphasis in the upper area, for applications including sales and promotional areas.

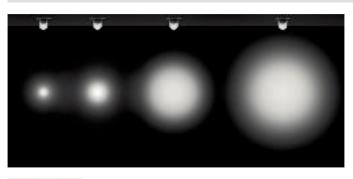
369

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Design

The clean lines of the Logotec recessed spotlights emphasise their essential character as particularly economical and uncomplicated lighting tools. They are, nevertheless, uncompromisingly designed in terms of lighting quality, functionality and durability. The compact spotlight heads have a neutral, smooth-surfaced design and can be retracted into the recessed housing either partially or completely as required.
The common mounting rings
mean that Logotec recessed spotlights can be perfectly combined with the Quintessence downlight system. The sturdy hinges, powder-coated, cast-aluminium bracket and housing make Logotec recessed spotlights a valuable investment.





















Narrow spot Beam angle < 10°.

Spot Beam angle 10°-20°.

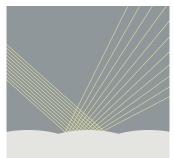
Flood Beam angle 25°-35°.

Wide flood Beam angle > 45°.

Recessed floodlights The Spherolit reflector oval flood produces a wide-beam, axially symmet-

rical light distribution, which is oval and has a beam angle of approx. 30° by approx. 90°.

Recessed Spherolit wallwashers A Softec lens ensures a soft edge to the beam.





The innovative, patented Spherolit reflectors are ideal for the creation of brilliant light with an evenly distrib-uted brightness pattern. Their sur-faces consist of computer-calculated, spherically domed segments.



Anti-dazzle ring The black plastic anti-dazzle ring provides optimum visual comfort. Together with the reflector, it forms a single unit that attaches to the spotlight housing with a bayonet fixing.



replacement Lamp replace-ment is simplified as the anti-dazzle ring and reflector form a unit which is completely removable. In the versions for metal halide lamps, this means

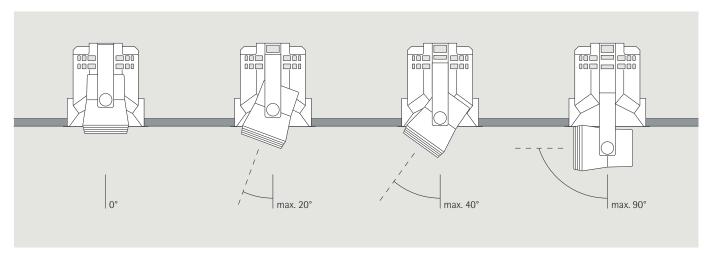
that the reflec-tor's lamp aper-

ture is optimised for maximum luminous flux.



Joint and bracket Logotec recessed spotlights have robusť mechanisms and a par-ticularly wide range of tilt. The black connection cable is routed externally between the spotlight head and the recessed housing.

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Tilt positions
The spotlight
head of the
Logotec recessed
spotlight can
be adjusted out
of the recessed
housing to a
number of fixed
positions. The
various positions
set a different
angle of tilt.



Position 1 0° tiltable, for a vertically downward, accentuating beam. Rotatable through 360°.



Position 2 < 20° tiltable. The 20° position is the ideal setting for the use of recessed Spherolit wallwashers. Rotatable through 360°.



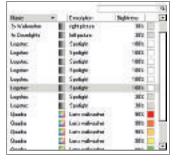
Position 3 < 40° tiltable, for general product presentation purposes. Rotatable through 360°.



Position 4 < 90° tiltable, for special lighting tasks. Rotatable through 360°.



Logotec recessed spotlights for low-voltage halogen lamps have a new design of anti-dazzle cap. It consists of coiled wire and provides high visual comfort.



Logotec Light Clients Many recessed spotlights in the Logotec product range are available as Light Clients, i.e. with DALI-compatible, factory encoded control gear. They are automatically recognised by Light System DALI (plug and play).





Mounting
The advantage
of the ERCO system design: the
same mounting
rings are used for
Logotec recessed
spotlights as for
the Quintessence
range of recessed
luminaires. They
provide convenient and logical
manual mounting.

Note: Logotec spotlights begin on page 110.



Logotec Recessed spotlight for low-voltage halogen lamps

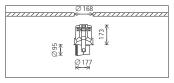




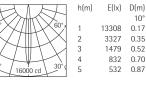
SIZE 5
Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation.
Mounting ring: plastic, white (RAL9002).
Mounting without tools for ceiling thicknesses up to 30mm.
Connection cable, L 500mm.
Reflector: aluminium, silver, mirrorfinish anodised.
Anti-dazzle ring: plastic, black.
Transformer to EN 61558 or EN 61347 to be ordered separately.

Accessories page 382

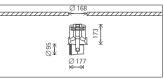
81204.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, narrow spot Anti-dazzle cap



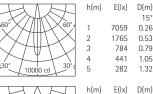




81205.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, spot Anti-dazzle cap Weight 0.84kg LMF D ⊕ ∰







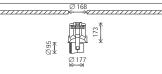
0.55

1.11

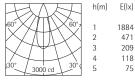
1.66

2 77

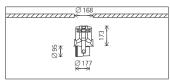
81206.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, flood Anti-dazzle cap Weight 0.84kg LMF D ⊕ ∰



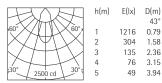




81207.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, wide flood Weight 0.84kg LMF D ⊕ ®





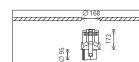






Weight 0.84kg LMF_D Size 5
Recessed housing and spotlight
with bracket: cast aluminium, white
(RAL9002) powder-coated. Remove
spotlight from the ceiling in three
stages. 0°-90° tilt, 360° rotation.
Mounting ring: plastic, white (RAL9002).
Mounting without tools for ceiling
thicknesses up to 30mm.
Connection cable, L 500mm.
Anti-dazzle ring: plastic, black. Softec
lens.
Transformer to EN 61558 or
EN 61347 to be ordered separately.

Accessories page 382









D(m)

1.15

2.31

3.46 4.62

5.77



	h(m)	E(Ix)
60° 60°,	1 2 3 4 5	1287 322 143 80 51

81202.000	
QR-CBC51-RE 50W 12V GU5.3 QR-CBC51-RE 50W 12V GU5.3	

\$6	₹ £	QR-

Logotec Recessed spotlight for low-voltage halogen lamps



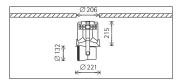


Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Anti-dazzle ring: plastic, black. Transformer to EN 61558 or EN 61347 to be ordered separately.

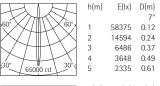
Accessories page 382

81216.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Anti-dazzle cap

Weight 1.32kg LMF D

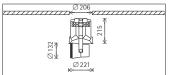




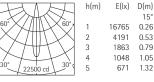


81217.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Anti-dazzle cap

Weight 1.32kg LMF D (n) (A)

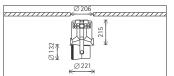




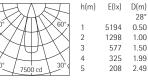


81218.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Anti-dazzle cap

Weight 1.32kg LMF D

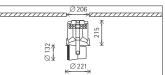






81219.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood

Weight 1.32kg LMF D





E(Ix) D(m) h(m) 47° 2105 0.87 2 526 1.74 234 2.61 132 3 48 84 4.35



PLUG+

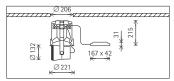
Size 7 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated, with connection cable L 500mm. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation.

Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Reflector: aluminium, silver, mirrorfinish anodised.

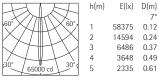
Anti-dazzle ring: plastic, black. Accessories page 382

81228.000 Reflector silver DALL QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Anti-dazzle cap

Weight 1.58kg LMF D

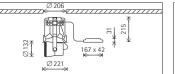




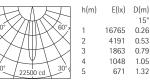


81229.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Anti-dazzle cap

Weight 1.58kg LMF D







81230.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Anti-dazzle cap

Weight 1.58kg LMF D

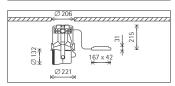
QT12-ax



h(m) E(Ix) D(m) 28° 5194 0.50 2 1298 1.00 3 577 1.50 1.99 208 2.49 D(m)

81231.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood

Weight 1.58kg LMF D



167 x 42

Ø 206

1

Ø 221



0.87

1.74

2.61

3.48

4.35

Logotec Recessed spotlight for metal halide lamps

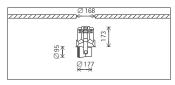




81210.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, narrow spot

Weight 0.88kg LMF D

Size 5 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002).
Mounting without tools for ceiling thicknesses up to 30mm. Connection cable with plug, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Safety glass. Anti-dazzle ring: plastic, black. Control gear to be ordered separately. Accessories page 382



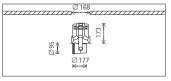




h(m) E(Ix)D(m) 23450 0.14 5862 0.28 0.42 2606 1466 0.56 938 0.70

81211.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, spot

Weight 0.88kg LMF D



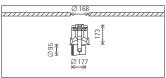




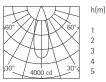
E(Ix) D(m) h(m) 10971 0.26 2743 0.53 0.79 686 1.05 439 1.32

81212.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, flood

Weight 0.88kg LMF C 日本







E(Ix) D(m) 32° 2879 0.57 720 1.15 1.72 320 180 2.29 115 2 87

D(m)

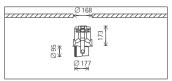
43°

0.79 368 1.58 163 2.36 92 3.15

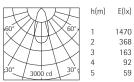
59 3.94

81213.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im Spherolit reflector, wide flood

Weight 0.88kg LMF D











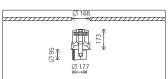
Size 5 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable with plug, L 500mm. Anti-dazzle ring: plastic, black. Softec

Control gear to be ordered separately.

Accessories page 382

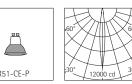
81203.000 HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°

Weight 1.32kg LMF D





HIPAR51-CE-P





7	h(m)	E(Ix)	D(m)
			10°
7	1	9900	0.17
	2	2475	0.35
	3	1100	0.52
	4	619	0.70
9	5	396	0.87

E(Ix) D(m) h(m) 40° 1530 0.73 382 1.46 2.18 170 2.91 61 3.64

Logotec Recessed spotlight for metal halide lamps



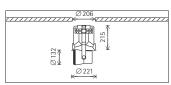


81222.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot

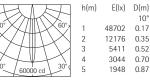
Weight 1.40kg

LMF C

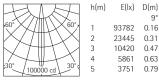
Size 7
Recessed housing and spotlight
with bracket: cast aluminium, white
(RAL9002) powder-coated. Remove
spotlight from the ceiling in three
stages. 0°-90° tilt, 360° rotation.
Mounting ring: plastic, white (RAL9002).
Mounting without tools for ceiling
thicknesses up to 30mm.
Connection cable with plug, L 500mm.
Reflector: aluminium, silver, mirrorfinish anodised. Safety glass.
Anti-dazzle ring: plastic, black.
Control gear to be ordered separately.
Accessories page 382





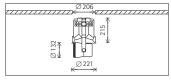




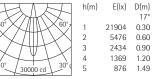


81223.000 Reflector silver HIT-CE 35W G12 3500Im HIT-CE 70W G12 7300Im Spherolit reflector, spot

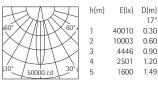
Weight 1.40kg LMF C







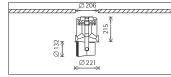




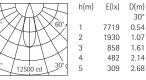
81224.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood

Weight 1.40kg LMF C

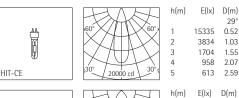
Weight 1.40kg LMF C



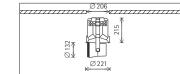




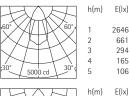












0.93

1.87 2.80

3.73

4.66

D(m)

375

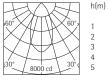
5503 0.93

1376 1.87

611 2.80 344 3.73

220 4.66





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Logotec Recessed spotlight for metal halide lamps



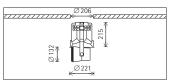
81234.000

HIR111-CE-P 35W GX8,5 10° HIR111-CE-P 35W GX8,5 40° HIR111-CE-P 70W GX8,5 10° HIR111-CE-P 70W GX8,5 40°



Weight 1.32kg LMF D

Size 7
Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation.
Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm.
Connection cable with plug, L 500mm. Anti-dazzle ring: plastic, black.
Control gear to be ordered separately.
Accessories page 382

























h(m) E(lx) D(m) 40° 1 6500 0.73 2 1625 1.46 3 722 2.18 4 406 2.91 5 260 3.64

Logotec Recessed spotlight for high-pressure sodium vapour lamps



81235.000 Reflector silver

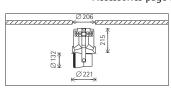
Spherolit reflector, narrow spot

HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm



Weight 1.34kg LMF D

Size 7
Recessed housing and spotlight
with bracket: cast aluminium, white
(RAL9002) powder-coated. Remove
spotlight from the ceiling in three
stages. 0°-90° tilt, 360° rotation.
Mounting ring: plastic, white (RAL9002).
Mounting without tools for ceiling
thicknesses up to 30mm.
Connection cable with plug, L 500mm.
Reflector: aluminium, silver, mirrorfinish anodised.
Anti-dazzle ring: plastic, black.
Control gear to be ordered separately.
Accessories page 382









h(m)

E(lx) D(m)



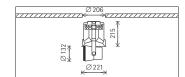


11°
1 36776 0.19
2 9194 0.39
3 4086 0.58
4 2299 0.77
5 1471 0.96

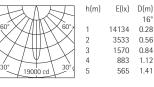
Logotec Recessed spotlight for high-pressure sodium vapour lamps

81236.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot

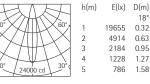
Weight 1.34kg LMF D





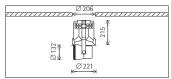




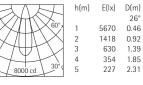


81237.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood

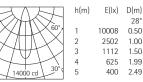
Weight 1.34kg LMF D





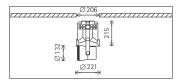




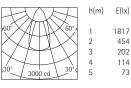


81238.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, wide flood













E(Ix) D(m) h(m) 47° 3451 0.87 2 863 1.74 3 383 2.61 216 3.48 138 4.35

D(m)

48°

0.89

1.78

2.67

3.56

4 45

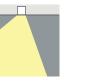
Logotec Recessed floodlight for low-voltage halogen lamps







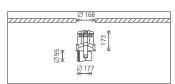
Weight 0.84kg LMF D



(I)

Size 5 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Anti-dazzle ring: plastic, black.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 382







h(m) E(lx) D(m) 83° 744 1.77 0.79 2 186 3.54 1.58 3 5.31 2.36 83 47 7.08 30 8.85 3.94

377

www.erco.com ERCO Program 2010/11

Logotec Recessed floodlight for low-voltage halogen lamps



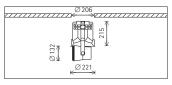


Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softee lens. Anti-dazzle ring: plastic, black.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 382

81220.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, oval flood







h(m) E(Ix) D(m)

Accessories page 382

84° 39° 1430 1.80 0.71 3.60 1.42 357 159 5.40 2.12 89 7.20 2.83 9.00 3.54



Weight 1.58kg LMF D

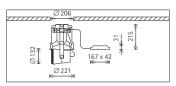
with bracket: cast aluminium, white (RAL9002) powder-coated, with connection cable L 500mm. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm.

Recessed housing and spotlight

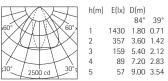
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Reflector: aluminium, silver, mirror-

finish anodised, adjustable through 90°. Softec lens. Anti-dazzle ring: plastic, black.









Logotec Recessed floodlight for metal halide lamps



81214.000 Reflector silver

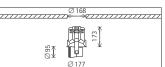
HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, oval flood



Weight 0.88kg LMF D

Size 5 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm.
Connection cable with plug, L 500mm.
Reflector: aluminium, silver, mirrorfinish anodised, adjustable through 90°. Softec lens. Anti-dazzle ring: plastic, black.

Control gear to be ordered separately.







Accessories page 382

7	h(m)	E(Ix)	D(m)	
			79°	42°
7	1	972	1.65	0.77
	2	243	3.30	1.54
1	3	108	4.95	2.30
	4	61	6.59	3.07
'∜	5	39	8 24	3.84

Logotec Recessed floodlight for metal halide lamps



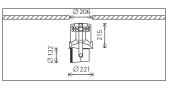




Weight 1.40kg

Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable with plug, L 500mm. Reflector: aluminium, silver, mirror-finish anodised, adjustable through 90°. Softec lens.

Anti-dazzle ring: plastic, black. Control gear to be ordered separately.





HIT-CE



Accessories page 382

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h(m) E(lx) D(m) 1844 180 087 461 3.60 1.74 205 5.40 2.61 115 7.20 3.48 74 9.00 4.35

h(m) E(Ix) D(m) 3781 1.68 0.87 2 945 3.36 1.74 420 5.03 2.61 236 6.71 3.48 151 8.39 4.35

Logotec Recessed floodlight for high-pressure sodium vapour lamps



81239.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, oval flood

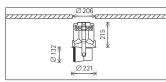


Weight 1.34kg LMF D

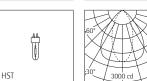


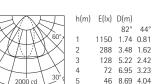
Softec lens

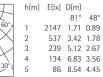
Anti-dazzle ring: plastic, black. Control gear to be ordered separately.











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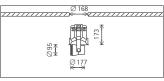
Logotec Recessed Spherolit wallwasher for low-voltage halogen lamps





81209.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, wallwash





Size 5

Size 7 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting without tools for ceiling thicknesses up to 30mm. Connection cable, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black. Transformer to EN 61558 or

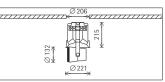


Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation.

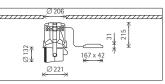
Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black. Transformer to EN 61558 or EN 61347 to be ordered separately.

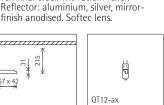
Mounting ring: plastic, white (RAL9002).





Size 7 Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated, with connection cable L 500mm. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief.





H

QT12-ax

Mean illuminance E_n (lx)

Accessories page 382

Angle of tilt 25° Wall height (m) Offset from wall (m) 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.50 Illuminance En (Ix) 159 109

Accessories page 382

Mean illuminance E_n (lx)

4.0

1.25 1.25 1.50 1.50

1.25 1.50 1.50 1.75

219 183 162 140

Angle of tilt 23°

Wall height (m)

Offset from wall (m)

Luminaire spacing (m) Illuminance E_n (Ix)

Anti-dazzle ring: plastic, black.

Accessories page 382





Weight 1.32kg LMF D

(n) (2)

DALI PLUG+ PLAY

81233.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wallwash

Weight 1.58kg LMF D

Mean illuminance En (Ix)

Angle of tilt 23° Wall height (m) Offset from wall (m)

1.25 1.25 1.50 1.50 1.25 1.50 1.50 1.75 Luminaire spacing (m) Illuminance E_n (Ix) 219 183 162 140

Logotec Recessed Spherolit wallwasher for metal halide lamps





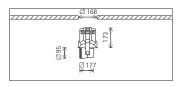
81215.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, wallwash



Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable with plug, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black. Control gear to be ordered separately. Accessories page 382

Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable with plug, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Softec lens. Anti-dazzle ring: plastic, black. Control gear to be ordered separately.

Accessories page 382









Weight 1.40kg LMF D

ht 1.40kg D



 Mean illuminance En (lx)

 Angle of tilt 20°
 0

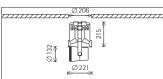
 Wall height (m)
 6.0

 Offset from wall (m)
 1.50
 1.75
 2.00

 Luminaire spacing (m)
 1.50
 1.75
 2.00

 Illuminance En (lx)
 163
 130
 105

81241.000 Reflector silver HIT-CE 70W G12 7300lm Spherolit reflector, wallwash Weight 1.40kg LMF D 日本





Logotec Recessed Spherolit wallwasher for high-pressure sodium vapour lamps

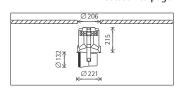


81240.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, wallwash



Weight 1.34kg LMF C

Size 7
Recessed housing and spotlight with bracket: cast aluminium, white (RAL9002) powder-coated. Remove spotlight from the ceiling in three stages. 0°-90° tilt, 360° rotation. Mounting ring: plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Connection cable with plug, L 500mm. Reflector: aluminium, silver, mirrorfinish anodised. Softee lens. Anti-dazzle ring: plastic, black. Control gear to be ordered separately. Accessories page 382





 Mean illuminance E_n (lx)

 Angle of tilt 20°
 6.0

 Wall height (m)
 6.0

 Offset from wall (m)
 1.50
 1.75
 2.00
 1.20

 Luminaire spacing (m)
 1.50
 1.75
 2.00
 1.50

 Illuminance E_n (lx)
 113
 88
 69
 125



 Mean illuminance En (lx)

 Angle of tilt 15°
 8.0

 Wall height (m)
 1.50
 1.75
 2.00

 Offset from wall (m)
 1.50
 1.75
 2.00

 Luminaire spacing (m)
 1.50
 1.74
 114
 93

381

Logotec Accessories

Recessed spotligh	ts	/	8387	8383/ 100/	8383 000	100 100 100 100 100 100 100 100 100 100	/00/ 00/ 00/ 00/ 00/ 00/ 00/ 00/ 00/ 00	8365 100/20	8363 100/3	9363	0686	11/98	1068	1196	M87	M89	M83	100 100 100 100 100 100 100 100 100 100	100/g	100/s	M37	100 (S	100/ 1433/	100 100 100 100 100 100 100 100 100 100	000	1443	0620	1062	9399	90 JO
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	81203.000				•																									
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Recessed floodlig	jhts	/	8387	8383 (00)	9397 100/	936) 00/69		8367 100/		8362 300/	1000	11/99	1066	11/95	14487	000 000 000 000 000 000 000 000 000 00	1483 100/3	000	1443	100 (100)	100 /s) }}	000 000	1434 1434	100 100	1065 1000	1001 1001	9387 °	30,00
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	81239.000							•	•	•																•			

Recessed Spherolit wallwashers	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	38/2	383	383	36/3	8367 3007	36.26 30,26		363/ 303/	100g) 100g	1199	1000	1136	1448) 000	1448	1448	000	143	1445)	W33/	1455 100	(M)	1445)	14434	000	1005 100	1005	938/4 100/6	3813/00
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81215.000				•						•															•			•	
81221.000	•	•	•						•																	•	•	•	
81227.000					•				•																	•			
81233.000									•																	•			
81240.000							•	•	•																	•			
81241.000						•			•																	•			

Logotec Accessories

















83817.000 DALI

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 90mm Weight 0.18kg

® □ □ P SELV WWTS-115

83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture. Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic

out-out, reconnect once short-circuit is cleared.
Overload and overheat protection: automatic load-sensing.
Use dimmers for electronic transformers (trailing edge).

For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 70mm Weight 0.19kg

⋘ △ □ 🗑 🗆 🖯 SELV ♥♥TS-115

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V controllable.

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 125mm Weight 0.20kg

® △ □ ♥ B SELV ♥♥TS-115

83669.000

Control gear for HIT-TC-CE 20W, G8.5 and GU6.5 and HIT-CE 20W, G12 and HIPAR51-CE-P 20W, GX10

Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg

110 A

















83655.000 Control gear for HIT-TC-CE 35W, GU6.5 and HIT-CE 35W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg





83658.000 Control gear for HST 100W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg

Logotec Accessories



70688.000 77198.000 UV filter



70689.000 77196.000 IR filter



74482.000 74488.000 Skintone filter



74483.000 74489.000 Daylight conversion filter



74431.000 74455.000 Interference colour filter Magenta



74432.000 74456.000 Interference colour filter Amber



74433.000 74457.000 Interference colour filter Sky blue



74434.000 74458.000 Interference colour filter Night blue



70620.000 70621.000 Filter holder Plastic.



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



83819.000 Overvoltage protection device for max. 10 electronic transformers. L 45mm, B 25mm, H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



Victorinox Flagship Store, London. Architect: Retailpartners AG, Wetzikon, Daniel Wettstein. Lighting design: neuco AG, Zurich.

385

High illuminances for accent lighting, brilliant light, a clear and uniform ceiling layout, as well as tiltable and rotatable luminaires – these are the features required by retailers to hold the focus of their customers on the products and present them in the right light. The reorganisation of shelves and displays marks the beginning of each new season, and flexible lighting equipment makes them ideal for the new lighting tasks. Designed for this purpose, the Compar recessed spotlight range offers a combination of innovative lighting technology, rational detail solutions and flexible system design.

technology, rational detail solutions and flexible system design.

The recessed spotlights are fitted with Spherolit reflectors to provide the highest quality of light. These reflectors are available with a rotationally symmetrical, narrow spot, spot, flood and wide flood light distribution, along with a recessed Spherolit wallwasher with asymmetrical light distribution. One of the special features in the ERCO Program is the Compar recessed spotlight with display lens. This lighting tool produces an oval-shaped beam of light and is suitable for the highly efficient illumination of product presentations with large luminaire spacings. Fitted either with metal halide lamps or high-pressure sodium vapour lamps, each is available in two economical lamp versions, both of which can be used to highlight different types of product.

www.erco.com ERCO Program 2010/11



Compar recessed spotlights can be rotated up to 360° and tilted by 30°. The housings are cast aluminium. The mounting rings, which are visible from below, are also cast aluminium, powder-coated white. The Spherolit reflectors with a facetted surface are also aluminium and silver anodised. The inside of the anti-dazzle ring is powder-coated black. The necessary control gear for the lamps have to be ordered separately. The directional luminaires can be mounted without tools.

Recessed spotlights



The Compar recessed spotlights are available in a single size for metal halide lamps of 35 and 70W and for high-pressure sodium vapour lamps of 50 and 100W all of which have Spherolit reflectors. They are available with very narrow to wide light distribution. In the Spherolit spot or flood version, a display lens is used to produce an oval-shaped light beam.

Application Very narrow to wide beam, rotationally symmetrical light distribution for ambient lighting in sales, food display and waiting rooms.

Recessed Spherolit wallwashers



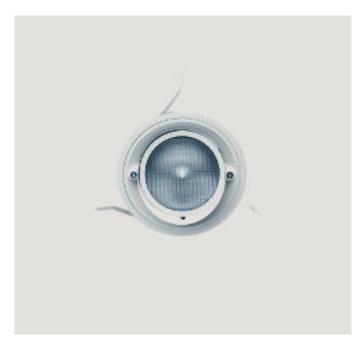
The Compar recessed Spherolit wallwashers are available in a single size for metal halide lamps of 35 and 70W and for high-pressure sodium vapour lamps of 50 and 100W all of which have Spherolit reflector, wallwash, with focal emphasis.

Application

Asymmetrical light distribution for wallwashing with focal emphasis in the upper area especially of high walls, for applications including sales and promotional areas.



UPIM department store, Milan. Architect: UPIM/Maria Grazia Travo, Milan.



Compar design

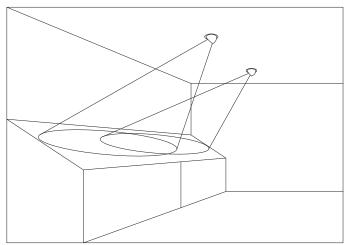
The development of the Compar recessed spotlights was based to a degree on the requirements of the retail sector in the area of shop lighting. The Compar range provides a combination of innovative lighting technology, rational detail solutions and flexible system design. As a result, all the spotlights have Spherolit reflectors for a superior quality of light. The light distribution patterns include the rotationally symmetrical narrow spot, spot, flood and wide flood reflectors and the Spherolit reflector, wallwash, for asymmetrical light distribution. Compar is complemented by a recessed spotlight with display

lens: depending on the version with flood or spot reflector, this lighting tool produces an ovalshaped beam of different dimensions and is suitable for the highly efficient illumination of product presentations with wide luminaire spacing. Fitted with economical, long-life lamps, the luminaires are available for either HIT or HST.



The display lens produces a brilliant, precise, horizontally spread beam of light. In contrast to the sculpture lens, its only structuring are the grooves for light distribution, and it features an anti-dazzle cap for defined visual comfort.

The beam angles vary depending on whether the display lens is combined with a spot or a flood reflector.



Spherolit technology

Compar forms a system of recessed ceiling spotlights with an as yet unparalleled variety of seven dif-ferent light distribution patterns. Producing a uniform, aesthetic appearance in the ceiling, the Compar can be used effectively for complex lighting tasks. Different spotlight characteristics in Spherolit technology ensure flexibility to produce extraordinary highlights, while the recessed Spherolit wallwasher emphasises the vertical room surfaces. The spotlights with display lens are particularly suitable for the efficient illumination of product presentations in a linear arrangement, such as tables and shelves. The selection of light sources - both metal halide lamps and high-pressure sodium vapour lamps - and wattages provide additional design possibilities.



Compar recessed spotlight with Spherolit narrow spot reflector



Compar recessed spotlight with Spherolit spot reflector



Compar recessed spotlight with Spherolit flood reflector



Compar recessed spotlight with Spherolit wide flood reflector



Compar recessed Spherolit wallwasher with Spherolit wallwash reflector



The innovative and patented Spherolit reflectors are ideal to produce brilliant light with a highly uniform brightness pattern. Their surfaces consist of computer-calculated, spherically domed segments.



Compar recessed spotlight with Spherolit spot reflector and display lens





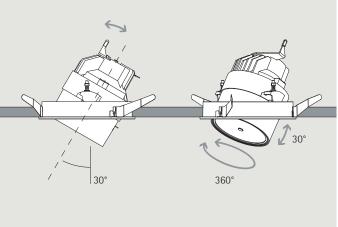
The powerful, bright light of the HIT lamps makes fresh products in selfservice areas appear natural and appetising.



Designed for use in the retail sector, Compar is also available for HST 50/100W lamps to highlight specific types of products optimally with warm light tones.







The cast aluminium mounting ring can be mounted in false ceilings without tools by using three bracing springs. The luminaires can be tilted up to 30° and rotated through 360°.

Compar Recessed spotlight for metal halide lamps

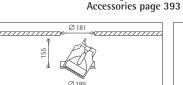


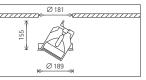


88160.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, narrow spot



Weight 1.34kg 日本 む 🅸 🤓 🕞





Size 6

25mm

finish. Safety glass.

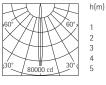
Luminaire with heat sink: cast aluminium, white (RAL9002) powder-coated. 0°-30° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing

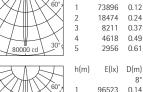
springs for ceiling thickness max.

Connection cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-

Anti-dazzle ring: cast aluminium, external white (RAL9002) powder-coated. Control gear to be ordered separately.







2

E(Ix) D(m)

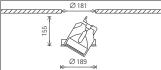
24131 0.28

6033 0.56

3861 0.70

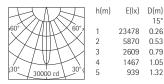
88161.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot

Weight 1.34kg LMF D 日本 🌯 🅸 🤓 🔞





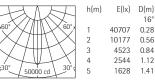
HIT-CE





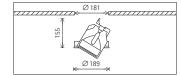




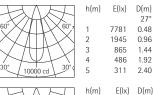


88162.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood

Weight 1.34kg LMF D 日本 🌃 🅸 🕮 📵







2

3

h(m)

15196 0.50

3799 1.00

1688 1.50 950 1.99

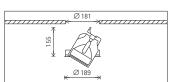
608 2.49

E(Ix) D(m)

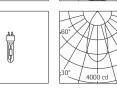
389

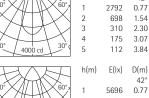




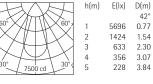












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Compar Recessed spotlight with display lens for metal halide lamps





minium, white (RAL9002) powder-coated. 0°-30° tilt, 360° rotation.
Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing springs for ceiling thickness max. 25mm. Connection cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Anti-dazzle cap attached to

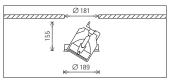
Luminaire with heat sink: cast alu-

display lens. Anti-dazzle ring: cast aluminium, ex-ternal white (RAL9002) powder-coated. Control gear to be ordered separately.

Accessories page 393

88165.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot

Weight 1.34kg LMF D 日本 🌑 🅸 🕮 🕞









15° 59° 12125 0.26 1.13

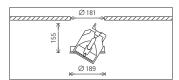
3031 0.53 2.26 1347 0.79 3.39 758 1.05 4.53

485 1.32 5.66



Spherolit reflector, flood







HIT-CE









h(m)	E(Ix)	D(m)	
		26°	60°
1	6051	0.46	1.15
2	1513	0.92	2.31
3	672	1.39	3.46
4	378	1.85	4.62
5	242	2.31	5.77

Compar Recessed spotlight for high-pressure sodium vapour lamps



88167.000 Reflector silver

Spherolit reflector, narrow spot

HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm



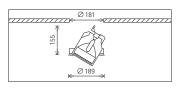
Weight 1.34kg LMF D

Size 6 Size 6 Luminaire with heat sink: cast aluminium, white (RAL9002) powder-coated. 0°-30° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing springs for ceiling thickness max. 25mm.

Connection cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Safety glass.

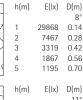
Anti-dazzle ring: cast aluminium, ex-ternal white (RAL9002) powder-coated. Control gear to be ordered separately.

Accessories page 393











|--|

h(m)	E(lx)	D(m)			
		11°			
1	33391	0.19			
2	8348	0.39			
3	3710	0.58			
4	2087	0.77			
5	1336	0.96			

Compar Recessed spotlight for high-pressure sodium vapour lamps

Weight 1.34kg LMF D 88168.000 Reflector silver h(m) E(lx) D(m) Ø 181 HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm 15° 0.26 13570 3393 0.53 2 Spherolit reflector, spot 1508 0.79 4 848 1.05 Ø 189 HST 543 1.32 E(lx) D(m) h(m) 16° 20154 0.28 2 5038 0.56 3 2239 0.84 1260 1.12 HST 806 1.41 Weight 1.34kg LMF D 88169.000 Reflector silver h(m) E(Ix) D(m) Ø 181 HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm 25° 0.44 5343 **₹**0 <u>∞</u> <u>∞</u>0 1336 0.89 2 Spherolit reflector, flood 594 1.33 334 1 77 HST 214 2.22 E(Ix) D(m) h(m) 9320 0.46 0.92 2 2330 1.39 1.85 HST 373 2.31 88170.000 Reflector silver Weight 1.34kg LMF D h(m) E(Ix) D(m) Ø 181 42° 0.77 HST 50W GX12-1 2400lm 1804 HST 100W GX12-1 4900lm **₹**10 <u>@</u> <u>@</u> <u>@</u> 2 451 1.54 Spherolit reflector, wide flood 3 200 2.30 3.07 Ø 189 HST 72 3.84 E(Ix) D(m) h(m) 42° 0.77 3650 Ü 1.54

> Compar recessed luminaires with their wide range of characteristics are ideal for the illumination of product presentations and the room periphery.



HST

2

3

912

406 2.30 228 3.07

146 3.84

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Compar Recessed spotlight with display lens for high-pressure sodium vapour lamps



88172.000 Reflector silver

HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm

88173.000 Reflector silver

HST 50W GX12-1 2400lm

HST 100W GX12-1 4900lm

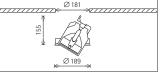
Spherolit reflector, flood

Spherolit reflector, spot



Weight 1.34kg LMF D





Size 6

25mm

Luminaire with heat sink: cast alu-Luminaire with neat sink: cast aluminium, white (RAL9002) powder-coated. 0°-30° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing

springs for ceiling thickness max.

Connection cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Anti-dazzle cap attached to display lens. Anti-dazzle ring: cast aluminium, ex-ternal white (RAL9002) powder-coated. Control gear to be ordered separately.





Accessories page 393

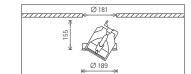






h(m) E(lx) D(m)16° 43° 5916 0.28 0.79 1479 0.56 1.58 657 0.84 2.36 370 1.12 3.15 237 1.41 3.94









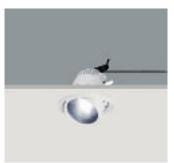






h(m) E(lx) D(m) 25° 61° 3384 0.44 1.18 846 0.89 2.36 376 1.33 3.53 211 1.77 4.71 135 2.22 5.89

Compar Recessed Spherolit wallwasher for metal halide lamps





88164.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, wallwash

Weight 1.34kg LMF D 日本 鑑 @ @



25mm. Connection cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Softec lens.

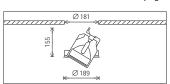
coated. 0°-30° tilt, 360° rotation.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing springs for ceiling thickness max.

Luminaire with heat sink: cast aluminium, white (RAL9002) powder-

Anti-dazzle ring: cast aluminium, external white (RAL9002) powder-coated. Control gear to be ordered separately.

Accessories page 393



Size 6



Mean illuminance En (Ix) Angle of tilt 15° Wall height (m) 40

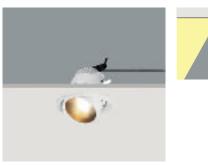
Mean illuminance E_n (lx)

0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 396 299 244 196

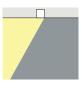


Angle of tilt 12° Wall height (m) 1.20 1.20 1.50 1.50 1.20 1.50 1.50 1.80 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 345 279 243 203

Compar Recessed Spherolit wallwasher for high-pressure sodium vapour lamps







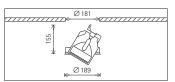
Weight 1.34kg LMF D **₹**0 <u>∞</u> <u>∞</u>0

Size 6

Size 6 Luminaire with heat sink: cast aluminium, white (RAL9002) powder-coated. 0°-30° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing springs for ceiling thickness max. 25mm.

Connection cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Softec lens.

Anti-dazzle ring: cast aluminium, external white (RAL9002) powder-coated. Control gear to be ordered separately. Accessories see below





Mean illuminance E_n (lx)

Angle of tilt 15° Wall height (m)
Offset from wall (m) 40 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (lx) 227 171 136 109



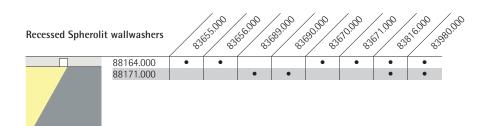
Mean illuminance E_n (lx) Angle of tilt 12°

Wall height (m) 6.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 274 209 180 146

393

Compar Accessories

Recessed spotligh	nts	835 835	555,000	656,000	889,000	90,00	510,000	67,00	816.000 83°	180,00
	88160.000	•	•			•	•	•	•	
	88161.000	•	•			•	•	•	•	
	88162.000	•	•			•	•	•	•	
	88163.000	•	•			•	•	•	•	
	88165.000	•	•			•	•	•	•	
	88166.000	•	•			•	•	•	•	
	88167.000			•	•			•	•	
	88168.000			•	•			•	•	
	88169.000			•	•			•	•	
	88170.000			•	•			•	•	
	88172.000			•	•			•	•	
	88173.000			•	•			•	•	



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Compar Accessories





83655.000 Control gear for HIT-TC-CE 35W, GU6.5 and HIT-CE 35W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50–60Hz. 5–pole terminal block. Strain relief. Through–wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg



223 95 × 95

83656.000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg









83689.000 Control gear for HST 50W. Housing: cast aluminium. Electronic control gear 220-240V, 50-60Hz. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp.

Weight 0.90kg

















83670.000 Control gear for HIT and HIPAR 35W. Metal, black powder-coated. Control gear 230V, 50Hz/60Hz, with temperature controller, timer-ignitor, Not for concrete housing. Weight 2.00kg **⋘** △ ♥♥TS-115



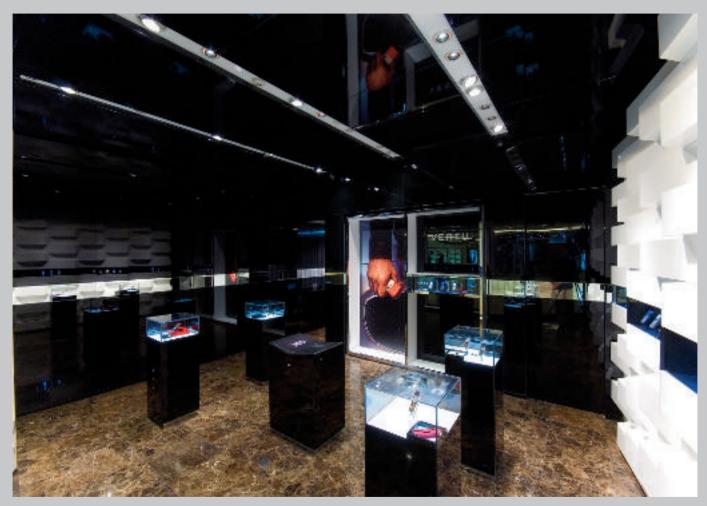
DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg

83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.



Efficient illumination of vertical displays in retail architecture: a typical area of use for Compar recessed luminaires.

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Vertu Shop, Wafi Mall, Dubai. Architect/Lighting designer: Vertu Interior Design Team.

395

Geronimo Cardano, a multi-talented intellectual of the 16th century, is remembered by mathematicians for his method of solving third degree equations. Much better known, however, is a more tangible invention of Cardano: the cardanic suspension named after him also known as a gimbal. Originally designed for keeping a ship's compass horizontal independent of it's motion, cardanic joints and cardanic shafts now find use in countless other applications.

Cardanic suspensions have two crossed axis. Both hinged rings can move in different directions, the combination allows an object suspended on such a cardanic joint to be pointed in any direction.

to be pointed in any direction.
ERCO makes use of cardanic suspension in a product range of recessed spotlights. Recessed spotlights can be used as downlights to illuminate horizontal surfaces, but they can also be tilted to light vertical surfaces. They can also be used for accent or display lighting of randomly placed objects. Since the cardanic suspension of Gimbal recessed spotlights is positioned at ceiling level, the beam direction can be angled in any direction up to 40° from the vertical. This allows the beam to be aimed at almost any area of the room, to provide the intended accent lighting.

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Gimbal



Gimbal recessed spotlights are cardanically suspended and the joints are made of black powdercoated cast aluminium and black plastic. The white mounting rings are plastic. The luminaires' cardanic suspensions in the mounting ring allows a tilt of up to 40° in almost all directions.

Recessed spotlights



Gimbal recessed spotlights are available in sizes 3 to 5. The extensavailable in sizes 3 to 5. The extensive range of lamp options extends from low-voltage halogen and reflector lamps to metal halide lamps. Narrow-beam spot reflectors and medium beam flood reflectors in aluminium are available. Transformers and control gear for high-intensity discharge lamps are high-intensity discharge lamps are to be ordered separately. Concrete housings, plaster rings and cover rings are available as accessories.

ApplicationRotationally symmetrical, very narrow to wide beam light distribution, especially for accent lighting of exhibits either in exhibitions or free-standing glass cabinets.



Bailly Diehl boutique, Darm-stadt. Architeckt: Kandora + Meyer Architekten, Frank-furt.

ERCO Program 2010/11 www.erco.com

Gimbal Recessed spotlight for low-voltage halogen lamps





88100.000 QR-CBC35 20W 12V GU4 10° QR-CBC35 20W 12V GU4 38°

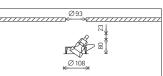


Weight 0.25kg 日本 《 命 ® ●

Luminaire: cast aluminium, black powder-coated. Heat sink: black Mounting ring: plastic, white (RAL9002), with multigroove baffle, cast alu-minium, black powder-coated. Fixing springs for ceiling thickness max. 25mm. Cardanic suspension of the luminaire in the mounting ring. 0°-40° tilt. Pivots are to be locked. Cable, L 500mm.

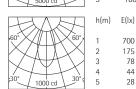
Anti-dazzle ring as lamp retainer: plastic, black.

. Transformer according to EN 61558 or EN 61347 to be ordered separately.









Accessories page 400

Transformer according to EN 61558 or EN 61347 to be ordered separately.

h(m) E(Ix) D(m)

2

10° 4500

0.35 500

D(m)

1.42

39°

1125

281 0.70

180 0.87

700 0.71

78 2.12 44 2.83

28 3.54

Accessories page 400

Size 4 Luminaire: cast aluminium, black powder-coated. Heat sink: black.
Mounting ring: plastic, white (RAL9002),
with multigroove baffle, cast aluminium, black powder-coated. Fixing
springs for ceiling thickness max. 25mm. Cardanic suspension of the luminaire in the mounting ring. 0°-40° tilt. Pivots are to be locked. Cable, L 500mm. Reflector: aluminium, anodised, mirror-

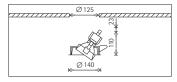
Anti-dazzle ring: plastic, black.



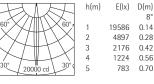






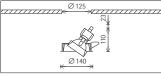














h(m) E(Ix) D(m) 3919 0.44 2 980 0.89 3 1.33 435 245 1.77 157 2.22

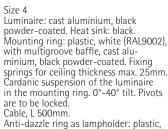
Accessories page 400



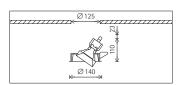
88120.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

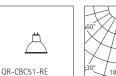


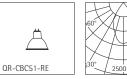
Weight 0.45kg LMF E 日本 《 命 ® ●



black Transformer according to EN 61558 or EN 61347 to be ordered separately.







J 1 1 1 1	h(m)	E(Ix)	D(m)
\times			10°
X60°,	1	15000	0.17
$\checkmark/ \mathbb{T} \setminus \checkmark $	2	3750	0.35
/ / / 	3	1667	0.52
	4	937	0.70
18000 cd 30°	5	600	0.87

E(Ix) D(m) h(m) 60° 1430 1.15 2 357 2.31 3 159 3.46 4.62 5.77

Gimbal Recessed spotlight for low-voltage halogen lamps





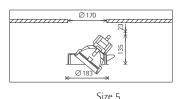
Weight 0.95kg LMF D 88130.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spot reflector

日本 🌑 🅸 🖭 🕪

Weight 0.95kg LMF_D 日本 🚳 🕸 🕪

Reflector: aluminium, anodised, mirror-finish. Anti-dazzle cap attached to safety glass. Anti-dazzle ring: plastic, black.

Cable, L 500mm.



QT12-ax

QT12-ax



Accessories page 400

h(m) E(Ix)D(m) 0.09 50382 12596 0.17 5598 0.26 3149 0.35 2015 0.44

Transformer according to EN 61558 or EN 61347 to be ordered separately.

Accessories page 400

	h(m)	E(Ix)	D(m)
			26°
1	1	6788	0.46
$\sqrt{}$	2	1697	0.92
1	3	754	1.39
	4	424	1.85
٥,	5	272	2.31
_			



88131.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm

Flood reflector



88135.000 QR-111 50W 12V G53 4° QR-111-RE 50W 12V G53 24°

Weight 0.95kg LMF D 日本 🌯 🙆 🌚

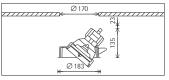


Luminaire with heat sink: cast alu-

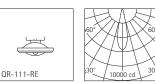
Luminaire with heat sink: cast aluminium, black powder-coated.

Mounting ring: plastic, white (RAL9002), with multigroove baffle, cast alu-

minium, black powder-coated. Fixing springs for ceiling thickness max. 25mm. Cardanic suspension of the luminaire in the mounting ring. 0°-40° tilt. Pivots are to be locked.









	4	2500	0.35
0° (5	1600	0.44
	h(m)	E(Ix)	D(m)
0°,	1	5800	0.43
\vee	2	1450	0.85
/	3	644	1.28
Ž.	4	362	1.70
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E(Ix) D(m)

40000 0.09

10000 0.17 4444 0.26

h(m)



Diesel Boutique, Stockholm. Architect: Diesel Interior Design Department. Molvena.

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Gimbal Recessed spotlight for metal halide lamps





88147.000 Reflector silver Weight 0.60kg HIT-TC-CE 20W PGJ5 1650lm Spherolit reflector, narrow spot 日本 🚳 🕸 🕑

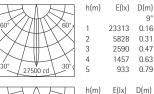
88148.000 Reflector silver HIT-TC-CE 20W PGJ5 1650lm Weight 0.60kg LMF D Spherolit reflector, flood 日本 🚳 🕸 🕙



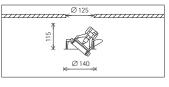
Luminaire: cast aluminium, black powder-coated. Heat sink: black Mounting ring: plastic, white (RAL9002), with multigroove baffle, cast alu-minium, black powder-coated. Fixing springs for ceiling thickness max. 25mm. Cardanic suspension of the luminaire in the mounting ring. 0°-40° tilt. Pivots are to be locked. Cable with plug, L 500mm. Reflector: aluminium, anodised, mirror-finish. Safety glass. Anti-dazzle ring: plastic, black. Control gear to be ordered separately.

Size 4





Accessories page 400



Ø 125



E(Ix) D(m) 2791 0.57 2 698 1.15 1.72 174 2.29 112 2.87





Size 5 Luminaire with heat sink: cast aluminium, black powder-coated.
Mounting ring: plastic white (RAL9002), with multigroove baffle, cast aluminium, black powder-coated. Fixing springs for ceiling thickness max. 25mm. Cardanic suspension of the luminaire in the mounting ring. 0°-40° tilt. Pivots are to be locked. Cable with plug, L 500mm.

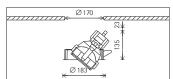
Reflector: aluminium, anodised, mirror-finish. Safety glass. Anti-dazzle ring: cast aluminium, black

powder-coated, with anti-dazzle cylinder, metal, black-chromed. Control gear to be ordered separately. Recess depth 175mm for control gear 83670.000, 83671.000.

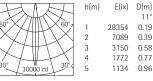
Accessories page 400

88145.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spot reflector

















h(m)

E(Ix) D(m)

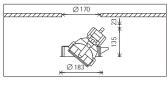
1.11

1.66 2.22

2.77

399

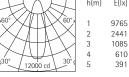












88146.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Flood reflector

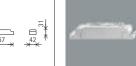
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Gimbal Accessories

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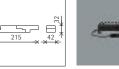
















83817.000 DALI

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 90mm

Weight 0.18kg **W**'□ □ □ □ SELV ₩₩TS-115

83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. Use dimmers for electronic transformers

(trailing edge). For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed denth 70mm Weight 0.19kg

⋘ ♠ □ ♥ □ ♥ SELV ♥♥TS-115

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V control-

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 125mm

Weight 0.20kg **⋘** △ □ 🗑 🖯 SELV ♥♥TS-115

83679.000

Control gear for HIT-IC-CE 20W, PGJ5. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg











223 95 **







83671.000 Control gear for HIT and HIPAR 70W. Metal, black powder-coated. Control gear 230V. 50Hz/60Hz, with temperature controller, timer-ignitor, capacitor.

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Gimbal Accessories







83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



→ ¥3.5 × 58





83819.000 Overvoltage protection device for max. 10 elec-tronic transformers. L 45mm, B 25mm, H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



83579.000 Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete. Weight 2.80kg

240 CO 93 * 260 S*

345

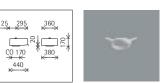




83580.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 4.60kg



83584.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.60kg



83956.000 83952.000 83959.000 Plaster ring Metal, white. Height 20mm.





Ø 140

COØ 144









83980,000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Recessed luminaires

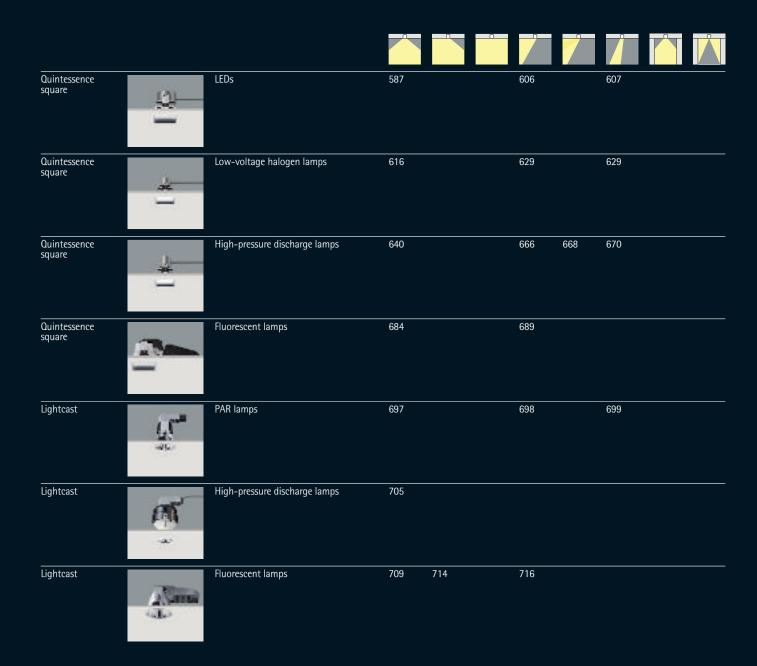


Recessed luminaires are completely subordinate to the light they emit. They are so fully integrated in the ceiling that they hardly register as a design feature. The most important factor determining the effect created by space and objects is the play of light on surfaces. Light emitted by downlights can vary from very narrow beams to diffuse wall illumination.

					П				
Quintessence round	÷	LEDs	430	449	452	456		460	
Quintessence round	*	Low-voltage halogen lamps	471	484	486	488	490	492	
Quintessence round	1	High-pressure discharge lamps	504	530	535	540	545	550	
Quintessence round	(A)	Fluorescent lamps	567	572	574	578			

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Recessed luminaires



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Recessed luminaires



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Quintessence Recessed luminaires Introduction



1000 new lighting tools for efficient visual comfort

The philosophers of the ancient world referred to the omnipresent energy of life as the fifth element or "quinta essentia". Today, the term "quintessence" is understood as the synopsis of the essential, the end result. ERCO's new Quintessence product range is literally the quintessence of 40 years of experience in ceiling-integrated lighting; yet, at the same time, it also looks forward, formulating a future-proof system framework for the further development of recessed luminaires.

The energy requirements of the architecture of tomorrow were an essential consideration when deciding on the development of Quintessence. It is the first recessed luminaire product range to be uncompromisingly designed for efficient visual comfort. The result is that Quintessence includes a particularly large variety of differentiated tools for vertical illuminance, the crucial factor for the impression of brightness in a room. The emphasis of this product range is placed on efficient, future-proof light sources. This is also apparent from the high proportion of articles with LEDs - around 300 in total. Innovative lighting engineering elements developed by ERCO such as Spherolit lenses and reflectors direct the luminous flux of the modern light sources effectively to the target surface. Thermally optimised components help ensure

that well-established and newly developed light sources all work to their optimum – for maximum efficiency and functional life. Electronic control gear contribute to energy-efficiency and allow for other digital interfaces. This option enables Quintessence luminaires to be connected, via plug and play, to intelligent control systems, providing additional potential for even greater efficiency.

Ceiling-integrated lighting concepts, in which the light sources are simply inconspicuous details in the ceiling, are the epitome of ERCO's philosophy of "Light, not luminaires". The Quintessence product range is able to cover all the essential sub-tasks of a lighting concept - from vertical illuminance and ambient lighting to highlighting and scenographic effects. The consistent system design and the logical structure of the product range simplify planning and designing with Quintessence. Consequently, installation and maintenance of the luminaires are easier and more logical than ever before.

System design for lighting tasks both general and specific: the differentiated toolbox of Quintessence enables convincing lighting solutions providing efficient visual comfort to both user and operator alike.

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Quintessence Recessed luminaires Design & inherent quality





System design consistency is a characteristic of Quintessence. Modular design allows many different variations to be made with identical mounting details. Similarly, accessories such as lenses and filters are common and digitally controllable Light Clients can be connected to Light System DALI. All Quintessence recessed luminaires use the same design principle for mounting rings, meaning that the different lamp types and characteristics are not only easy to combine but also to interchange.

With high-quality design and perfect lighting technology, Quintessence sets new standards for recessed luminaires. Whether round or square or fitted with a special mounting detail, Quintessence suits all situations which relate to ceiling mounting details.



Luminaire trim and mounting detail

Unique architecture requires unique lighting solutions - not just with respect to light distribution but also the mounting detail. In addition to the option of a round or square luminaire, the extensive Quintessence range also offers two further distinctive characteristics: the mounting and luminaire trim details. The mounting ring or mounting frame options allow the installation to be finished with either a visible mounting ring or a flush mounting trim detail. For each luminaire three variations exist: standard, with a shadow gap and with a varychrome ring for colour changing.





Luminaire trim: standard
The installation of Quintessence recessed luminaires without a shadow gap or varychrome ring creates a direct transition between ceiling and luminaire, reducing this detail to a minimum.





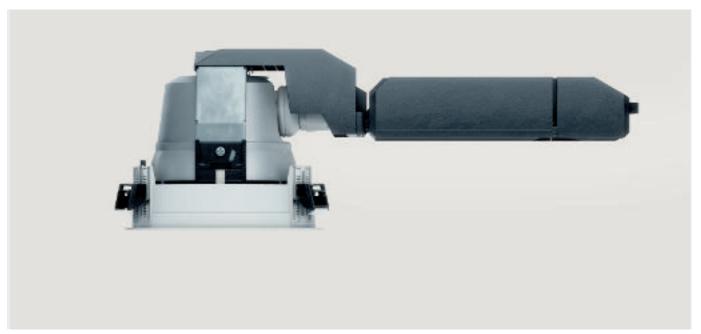
Luminaire trim: shadow gap
The dark gap between the ceiling and the reflector distinguishes the luminaire from the ceiling. This black ring creates a defined contrast between the specular reflector and the ceiling.





Luminaire trim: varychrome ring The coloured light from the LEDs in the trim detail of the luminaire creates a decorative effect in the ceiling's appearance and subtly shifts the colour tone in the room.

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Quintessence is distinguished by its robust luminaire housing, precise manufacture and hinged control gear which make it easy to install in shallow ceiling voids.



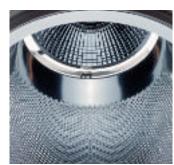


407

Spherolit upper reflectors, diffusers and darklight reflectors all contribute to a unique light quality. The result is the highest visual comfort, precise lighting technology and optimum efficiency.



Darklight reflector and diffuser for high visual comfort The darklight reflector ensures maximum visual comfort with optimum light output ratio. Furthermore, to prevent glare, the high luminance of the light source is dispersed using the diffuser technology.



calculated, spher-

ically domed seg-

ments.

Spherolit technology The design of the innovative spherolites in the reflector is ideal for producing brilliant light. In this photo the diffuser has been removed to reveal the detail. The surface consists of computer-



Heat management
The heat management of
Quintessence creates the optimum conditions for continuous operation. This enables the light source and heat-sensitive components to achieve their full service

life and emit maximum luminous flux.

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Quintessence Recessed luminaires Photometric characteristics

The Quintessence range of luminaires offers a comprehensive spectrum of characteristics, providing solutions for all the most important, indoor lighting tasks. These photometrically optimised lighting tools are suitable both for vertical and for horizontal visual tasks. The light distributions required for these tasks vary between narrow-symmetrical, wide-symmetrical and includes various asymmetric patterns. This

results either in a high degree of uniformity or allows additional accentuation to be included in the washlight illumination produced with downlights or wallwashers. The result is that Quintessence provides a versatile palette of light, ranging from wallwashing and ambient lighting to accent lighting.

Double-focus downlight The lighting technology of the double-focus downlights produces a wide, downwardly pro-

jected light distribution. The twin focal points enable a very small light aperture.







Downlight with wide diffuser The downlights with a wide diffuser emit a conical beam of light downwards. They provide ambient lighting; ideal for rooms with ceiling heights of up to 3-4m, achieving good and uniform horizontal illuminance.





Downlight with focal diffuser The clear centre of the focal diffuser allows part of the light to pass through with high brilliance and intensity. The frosted edge creates a peripheral zone with a softly decreasing gradient for high visual comfort.





The beam angle of the downlight with focal diffuser is the same as that of the downlight with wide diffuser. Typical applications are shops or restaurants.

Downlight with narrow diffuser The narrow diffuser focuses the light into a narrow, downwardly projected beam. It enables accent light to be projected from above in order to highlight objects in their surroundings using brightness contrast.





Downlights with narrow diffusers are used for example, for ambient lighting in rooms with ceiling heights of more than 3m.

Directional luminaire

Directional luminaires are used in applications where objects on walls or in the room are to be accentuated such as in exhibitions or in shops. The beams can be tilted up to 30° from the vertical axis and rotated through 360°.







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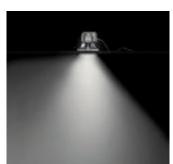
Quintessence wallwasher characteristics

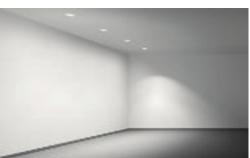
One emphasis of the Quintessence product range is on differentiated tools for energy-efficient vertical illuminance – for applications ranging from shops, admin buildings and circulation areas (e.g. corridors and aisles) to galleries and museums.



Washlight

The integrated Spherolit reflector segment of the washlights directs the light uniformly on to the wall surface, while retaining the downlight effect within the room. Washlights are frequently used in combination with downlights for the peripheral area of a room.







Double washlightDouble washlights are offered for uniform illumination of parallel walls as well as the floor area in hallways. The light is controlled using a darklight reflector which has two integral Spherolit reflector segments.



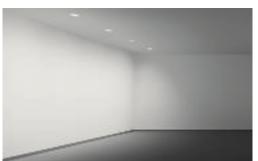




Lens wallwasher

Special lens reflector systems ensure highly uniform wall illumination. The darklight reflectors which are visible from below are glare-free. The lens wallwashers are ideal for numerous applications including lighting in museums, exhibitions or other prestigious venues.



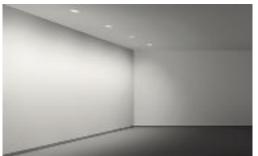




Focal lens wallwasher

The lens wallwashers with a focused section of the beam are designed for the illumination of walls in sales and presentation areas. They add an additional highlight in the upper third of the illuminated wall. An application is the illumination of displays above shelves.







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Quintessence Recessed luminaires Efficient visual comfort

ERCO developed the Quintessence recessed luminaires especially for efficient visual comfort. As a result, this product range features a particularly wide selection of articles for vertical illuminance. The scope ranges from luminaires satisfying high-quality requirements in museums to powerful wallwashers for shops. In addition, the many characteristics and the wide range of varychrome luminaires are ideal for a variety of

concepts for qualitative lighting design. Effective lighting technology optimally utilises the potential of the efficient light sources. While the incorporation into lighting control systems such as Light System DALI with energy management makes an additional contribution to the economic-efficiency of Quintessence.

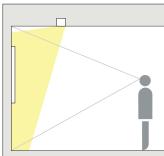


Vertical lighting Through Quintessence, ERCO offers a highly versatile range of luminaires

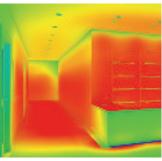
for vertical illuminance. The spectrum extends from luminaires for extremely homogenous wallwashing, as required for museums or exhibitions, through functional washlights to washlighting with a focal emphasis. The latter is used to provide an additional accent for applications such as retail displays. Vertical illuminance is far more important for the subjective impression of brightness than light on horizontal surfaces. For this reason ERCO offers a wide range of lighting solutions for wall illumination, all of which are designed to save energy.



Architecture
Vertical illuminance makes
spatial proportions visible due
to the bright
walls and gives
the observer a
clear and open
impression of
the room. At
the same time,
objects on the
walls can either
be accentuated
or the material
nature of the
walls can be
emphasised.



Perception
Due to the alignment of the
human field of
vision, vertical
surfaces constitute a major part
of our perception
in indoor areas.
This therefore
has a considerable influence on
the impression of
brightness.



Efficiency
This false colour diagram shows the uniformity of vertical lighting. The efficiency and quality of uniformity depend on the design of the wallwashers, their offset from the wall and spacing.



Qualitative lighting design

Perception orientated lighting design starts with the requirements

of the users. Since highly differentiated requirements arise within architecture, great importance was attached to giving Quintessence an extensive system design. The available light distributions and light sources are designed for uniform and economical ambient luminescence, an accentuating focal glow or a decorative play of brilliance using LED varychrome recessed luminaires.



Ambient luminescence
This refers to the uniform general lighting of vertical or horizontal surfaces. This type of lighting enables users and observers to get their bearings and provides a feeling of safety.



Focal glow
This typifies
accent lighting
used to emphasise objects, areas
and specific zones
in a space and to
create hierarchies
of perception. It
is a central means
of attracting the
observer's atten-



Play of brilliants This is the decorative light, the light that attracts attention; it is light as an aesthetic object. Light effects such as dynamic colour progressions are used to increase the quality of the visual experience.

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Effective lighting technology Modern lighting

technology such as Spherolit reflectors

and optoelectronic systems contribute to Quintessence's unique combination of high light output ratio and visual comfort. The highly diversified toolbox of the Quintessence product range enables the lighting distribution to be tuned to suit the specific lighting task – an essential prerequisite for efficient lighting solutions. Light sources with exceptional luminous efficacy and long functional life are available in the form of high-power LEDs, high-pressure discharge lamps and compact fluorescent lamps. Quintessence's innovative light guidance systems optimally exploit the potential of these light sources.



The collimat-

ing lens firstly

into a parallel

beam and then

the Spherolit lens

precisely produces

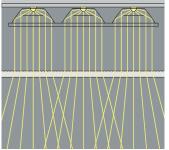
the required beam

angle.

directs the light

Spherolit lenses and collimating lenses

The lighting technology behind LED light sources is within the ambit of ERCO's core competences. The Quintessence directional luminaires with LEDs feature lens systems designed and built by ERCO.



Spherolit reflectors ERCO's patented reflector technology optimally combines visual comfort and

efficiency. They are used both as upper reflectors and as wallwasher segments in the darklight reflectors. The different geometries of the computer-calculated spherolites on the reflector surface enable the reflector characteristics to be exactly controlled over a wide range.

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Intelligent lighting control

Every Quintessence Light Client, i.e. every Quintessence

recessed luminaire with DALI control gear, is factory-encoded with a unique digital code in its DALI control gear. This luminaire ID contains the article number and serial number, intrinsic to Light System DALI's special userfriendly functions. The Light Studio software recognises the specific luminaire and relates this to specific information and functions.



Hardware and software interact smoothly and seamlessly in the Light System DALI. The Light Clients, i.e. the DALI-compati-ble Quintessence luminaires, have a factory-pro-grammed code in their DALI control gear. Combined with plug and

play technology, this code enables them to be displayed automatically in the Light Studio and to be conveniently controlled.



Efficient light sources

The search for ever greater efficiency finds expression in the

large proportion of Quintessence LED products. The advantages of high-power LEDs include excellent luminous efficacy, long life, good colour rendition and optimum dimmability. The Quintessence range also includes well-proven, efficient light sources such as metal halide lamps and compact fluorescent lamps. Exceptional heat management confirms that Quintessence luminaires are designed for optimum continuous operation.



Quintessence LEDs LFDs have already

attained high luminous efficacy and hold still fur-ther potential, which means that they will become firmly established as the sustainable light sources of the future. To maximise the efficiency, ERCO



produces special optoelectronic modules.

management ERCO's develop-ment engineers use computer simulations to optimise the heat management of Quintessence. This is required

to protect the

heat-sensitive

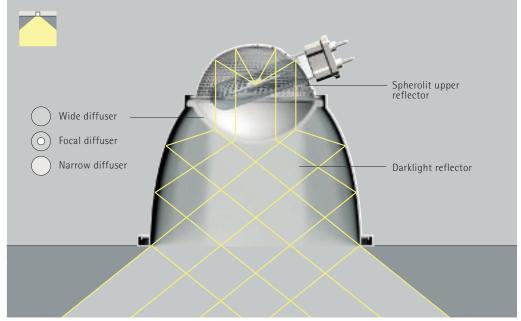
electronic components even when used in continuous operation and improves the performance and life of the light

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Quintessence Recessed luminaires Downlight technology

Downlights

In Quintessence downlights there are three components used to guide the light: the Spherolit upper reflector, the diffuser and the darklight reflector. The mirror-finish upper reflector directs the light as tightly as possible towards the diffuser. The diffuser improves the visual comfort and, depending on the degree of diffusion produces a wide or less wide beam or a beam with a focused centre. Darklight reflectors with a 40° cut-off angle provide high glare control and good visual comfort. Darklight reflectors with a 30° cut-off angle result in a wider light distribution, shallower recess depth and a higher light output ratio.



Cut-off angle

Using modern simulation programs, the Quintessence reflectors have been optimised for efficient visual comfort. The ERCO darklight reflectors combine max-imum visual comfort, high light output ratio and a balanced relationship between the horizontal and the vertical illuminance. As long as the light source lies within the reflector's cut-off area, there will be no high lumi-nances on the darklight reflector and glare will not be experienced. For higher visual comfort, it is recommended that the higher cut-off angle is selected, especially in high-ceilinged, prestigious rooms or for desk activities for instance.



30° cut-off angle Quintessence luminaires with a cut-off angle of 30° achieve high vertical illuminance with highly uniform illuminance on the floor even with low ceiling heights. This cutoff angle provides sufficient glare



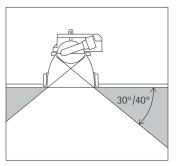
control combined

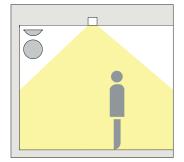
with a very high light output

40° cut-off angle The recessed luminaires with a cut-off angle of 40° provide a balanced ratio of horizontal and vertical illuminances and good uniformity for the horizontal illuminance. The very good UGR values are docu-

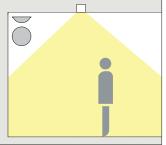


mentary evidence of excellent visual comfort.





Double-focus downlight
The double-focus
downlight fitted with the wide diffusor produces a beam angle of about 60°. The second focal point enables a small light aperture.



Wide diffuser downlights The diffuser not only disperses the high luminance of the light source for better visual comfort, but also produces a wide beam angle of about 70° to 80° depending on the lamp. A softly decreasing gradient at the edge of



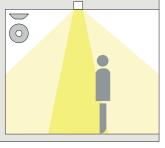
the beam is per-

fect for ambient

lighting in rooms

with low ceilings.

Focal diffuser downlights The clear centre of the focal diffuser allows part of the light to pass through with high brilliance and intensity – for effective accent lighting on goods and materials. The frosted edge creates a peripheral zone with a softly



decreasing gra-Narrow diffuser dient, ensuring downlight The narrow dif-fuser produces high visual comfort with a beam a beam angle of about 50° to 60°. angle around 70° to 80°. The narrower beam allows the aspect of visual comfort to be further improved. Since, in comparison with the downlight with

wide diffuser, less



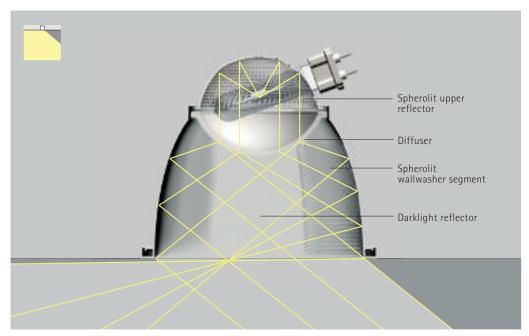
light is emitted to the sides, the possibility of dazzling the observer is minimised.

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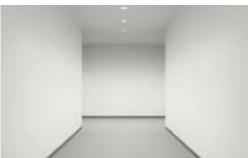
Quintessence Recessed luminaires Wallwasher technology

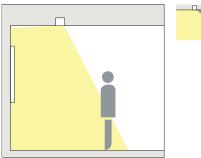
Washlights and double washlights

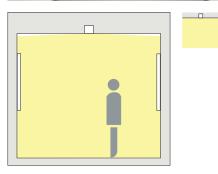
Quintessence washlights combine horizontal and vertical illuminance for the peripheral area of rooms. The lighting technology is based on three components: the Spherolit upper reflector, the diffuser and the darklight reflector with Spherolit wallwasher segment. The Spherolit-technology upper reflector efficiently directs the light towards the diffuser. The diffuser and the darklight technology ensure good visual comfort. To enable the full power of a lamp emitting light in all direc-tions to be utilised, mirror-finish spherolites in the upper reflector redirect the light down towards the diffuser. To enhance the visual comfort, translucent diffusers reduce the high luminance of the lamp distributing it over the entire surface of the diffuser. The darklight reflector beneath the diffuser prevents the observer from experiencing glare as long as the diffuser is shielded by the reflector. This optical system results in a wide rotationally symmetrical light intensity distribution ideal for ambient lighting in rooms. To achieve uniform brightness on the vertical plane as required for wallwashing, one segment of the darklight reflector has spherolites. This patented reflector technology guides the beam so that it strikes the wall beginning just beneath the ceiling. In contrast to standard washlights, double washlights have two Spherolit wallwasher segments positioned opposite each other. This enables parallel walls in corridors to be illuminated uniformly and efficiently.











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Washlights Washlights combine horizontal and vertical illuminance for the peripheral area of rooms. Looking into the room, a classic downlight effect can be seen, while the wall itself is given a uniform light distribution extending up to the ceiling.

Double washlights
In double washlights there are two opposing
Spherolit reflector segments to produce uniform light on the walls of corridors.

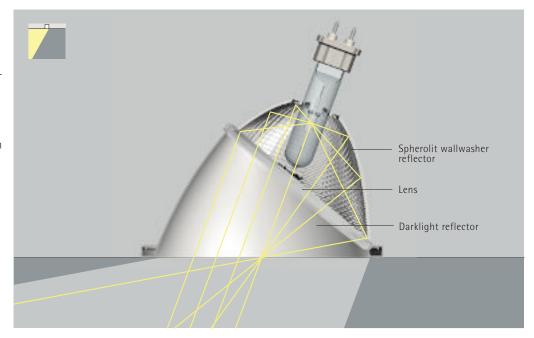
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Quintessence Recessed luminaires Wallwasher technology

Lens wallwashers

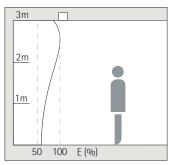
Lens wallwashers provide exclusively vertical illuminance. The combination of two different Spherolit reflectors and the wallwasher lens has enabled the development of two efficient lighting tools for vertical illuminance: a lens wallwasher for the uniform illumination of walls and, as an alternative, a lens wallwasher for a focal emphasis. The mirror-finish Spherolit reflector, which directs the beam exclusively towards the wall, creates an asymmetric light intensity distribution. Depending on the distribution and curvature of the spherolites, it is possible either to obtain a very homogenous wallwashing, e.g. for lighting pictures in museums. The alternative is to produce focal emphasis on the upper third of the wall, as with lens wallwashers. This would be used, for instance, to illuminate displays above shelves in retail outlets. The specially designed wallwasher lens spreads the beam so that a high uniformity is visible over the breadth of the wall from lens wallwashers arranged in a row. The darklight reflector beneath the wallwasher lens inhibits glare provided the lens is not visible through the reflector aperture. This detail makes an important contribution to visual comfort. ERCO's lighting engineers have calculated the Spherolit reflector so that the upper part of the beam meets the wall just beneath the ceiling and the beam extends all the way down to the floor. For optimum light distribution on the vertical surface, it is recommended that the distance between the wall and the luminaire is set at one third of the room height. This distance can generally also be used for the spacing between the individual

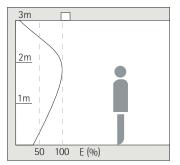
Quintessence lens wallwashers.











Lens wallwashers With its uniform brightness gradients, the lens wallwasher achieves a verv high degree of uniformity on the vertical pĺane. This makes it ideal for applications where the wall is to be presented as an entity, e.g. in entrance areas, or where good homogeneity is

demanded, e.g. for pictures in an exhibition.

Focal lens wallwashers In contrast to the lens wallwashers with their continuous brightness gradient, the lens wallwashers with focal emphasis produce a high-light in the upper third. This focal highlight can be used very effec-tively to empha-sise displays above shelves in retail outlets for instance - this is

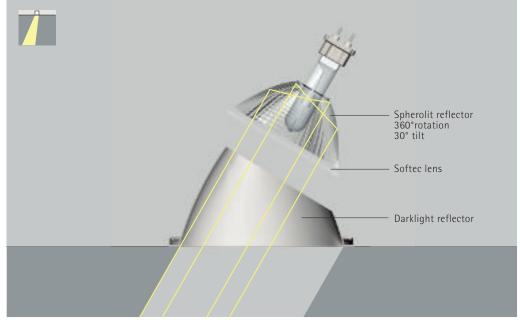
a valuable detail of vertical illuminance.

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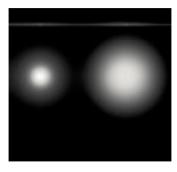
Quintessence Recessed luminaires Directional luminaire technology

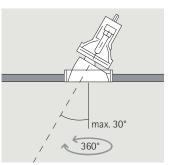
Directional luminaires

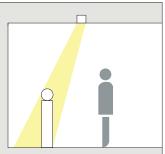
Quintessence directional luminaires are used for accent lighting. These directional luminaires can be rotated through 360° and tilted by up to 30° to provide high flexibility in exhibitions or product displays. The mirror-finish Spherolit reflector for accent lighting is available in the two beam angles spot or flood. The Softec lens produces a highly homogenous light distribution within the beam and a softer gradient at the edge. The darklight reflector beneath the Softec lens prevents glare as long as the lens is shielded through the reflector aperture – an important aspect when high visual comfort is required.













Spot F. The standard characteristic for accentuating all kinds of objects, especially for bringing out the three-dimensional shape. Beam angle 10°-20°.



Flood
For efficient
accent light on
larger objects or
for wider spread
lighting of areas
of a room. Beam
angle 25°-35°.





Recessed spotlights
As an alternative to directional luminaires, the recessed spotlights range includes
Quintessence recessed spotlights. These can be tilted by up to 40° .

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Quintessence Recessed luminaires Control technology



Light System DALI

The requirements of professional lighting quite naturally include the ability to conveniently switch, dim or change the light colour of luminaires (depending on their lamp type). Since DALI (Digitally Addressable Lighting Interface) has developed into a standard in architectural lighting, the vast majority of Quintessence recessed luminaires are already designed as DALI-compatible luminaires, known as Light Clients. The ERCO Light System DALI lighting control system uses an innovative approach. Intelligently applying DALI technology to individually addressable recessed luminaires is combined with the ERCO Light Studio software to form an integrated system for efficient visual comfort and scenographic lighting. The Light Clients result in electricity savings being achieved via the Light Keeper. Similarly, scenographic lighting effects can

be programmed, such as coloured light, dynamic progressions, light scenes and light sequences. This process has never been more economical than it is now. The installation work has been reduced enormously compared to other lighting control technology: DALI technology integrates the switching and dimming functions in the luminaire, i.e. in the control gear. The installer then simply connects the two-core control line in any suitable topology.

DALI PLUG+ PLAY

With Quintessence Light Clients, the Light Studio software automatically recognises the luminaire type and makes the corresponding information and functions available.



Attributes In the Light Studio sofware, the control options of the Quintessence luminaires are represented by symbols.



Switching
Recessed luminaires for highpressure discharge lamps can be switched on and off by a switching actuator which provides this attribute.



Dimming
Luminaires for
LEDs in warm
white or daylight white, lowvoltage halogen
lamps and even
fluorescent lamps
can be conveniently dimmed
using slider controls in the Light
Studio software.



Varychrome With LED varychrome luminaires such as the Quintessence varychrome lens wallwashers or luminaires with varychrome ring, the colour can be adjusted simply by using the colour wheel. Similarly, the 4-channel varychrome downlights also allow the colour temperature to be infinitely adjusted over a wide range.



The Light Changer is a control panel featuring touch screen technology providing access to the stored light scenes. The clear and convenient user guidance provides for easy daily operation.

Control gear

All Quintessence recessed luminaires require control gear and depending on the actual article, some control gear is connected to the luminaire. Luminaires which include control gear have the DALI control gear factory encoded. This enables the installer to operate the luminaires via plug and play because of the automatic recognition.



Luminaires with DALI control gear

Every luminaire with a DALI control gear provides the benefit of factory encoding. Through this encoding, the Light Studio software automatically recognises the luminaire and makes luminaire.

specific information and functions available, enabling easy commissioning that fully exploits the advantages of networking.



Separate control gear
The required DALI control gear units can be ordered separately. In this case, they will still be encoded, but the assignment of article or properties, which is required for improved overview in the Light Studio software,

must then be made manually. The control gear units will then perform as Light Clients.



DALI switching actuator
The DALI switching actuator
allows a group
of Quintessence
recessed luminaires to be integrated into the
Light System
DALI. The switching actuator has
two independent
addresses, enabling two groups

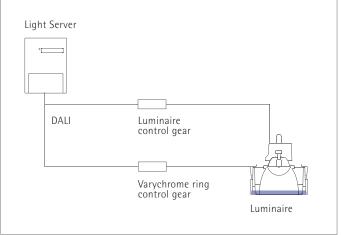
of luminaires to be controlled. To differentiate between several switching actuators, names are assigned manually in the Light Studio software.

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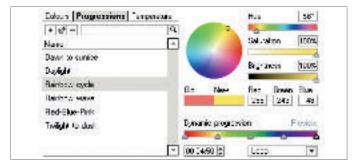
Control of varychrome rings

Quintessence recessed luminaires with varychrome rings can be conveniently programmed via the Light Studio software. Using the control gear connected to the luminaire, the intensity or light colour of the lamp can be adjusted. The Light Server saves the light scene data and can be connected with the Light Studio software via Light Server networks for programming. The colour wheel allows the light colour of the varychrome ring to be easily adjusted and dynamic progressions can be programmed with a few mouse clicks.





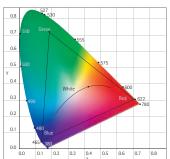
The Light Studio software permits intuitive operation of the varychrome rings: from selection via preset colours, individual adjustment via the col-our wheel to dynamic progressions for scenographic lighting.

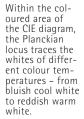


4-channel varychrome

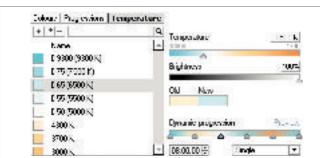
In the Quintessence downlight product range, ERCO presents luminaires with LEDs and now also 4-channel varychrome technology. By combining RGBW colour mixing with white LEDs, these luminaires can optionally produce either white light with variable colour temperature at high luminous flux and good colour rendition or coloured light ranging from differentiated pastel hues to highly saturated colours. Light Studio has a corresponding attribute for controlling these luminaires. This consists either of a colour circle (which will be familiar to users of previous varychrome luminaires) or a slider control to regulate the colour of white along the Planckian locus from cool to warm. The 4-chan-nel varychrome control gear units comply with the standardised DALI type and therefore only require one DALI address in spite of having four control channels.

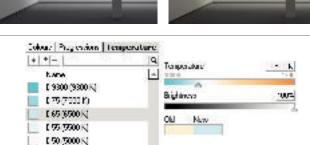












Light Clients with the 4-channel varychrome attribute allow the colour temperature to be finely adjusted over a wide range.



Quintessence Recessed luminaires Design criteria

In Quintessence, ERCO has developed an extensive range of around 1000 different recessed luminaires. Seven design criteria are used to identify the required luminaire from this extensive selection. Either lighting technology or aesthetic considerations can provide the starting point for a lighting design. The system design enables many different combinations, making Quintessence recessed luminaires an important lighting tool for efficient visual comfort. The seven design criteria are:

- Design
- Light source
- Characteristics
- Mounting detail - Cut-off angle
- Reflector
- Luminaire edge



Design Quintessence recessed luminaires in round or square formats allow the ceiling appearance to suit the architec-



ture and the style of the interior.

Characteristics

Quintessence covers all technical lighting characteristics for recessed lumi-naires: ambient lighting with downlights, vertical lighting with washlights, double washlights or lens wallwashers and accent lighting using direc-tional luminaires.



Double-focus downlights



Downlights -wide diffuser -focal diffuser -narrow diffuser



Washlights



Double washlights



Wallwashers, lens wallwashers



Focal lens wallwashers



Directional **luminaires**



Reflectors Reflectors for Quintessence range from sizes 3 to 8: from small openings for double-focus downlights to the large formats for high lumen packages.

Covered

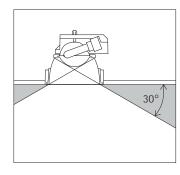


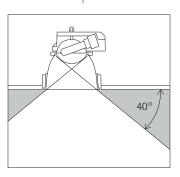
Mounting detail The mounting detail can be covered or flush depending on the mounting ring used

Flush



Cut-off angle Depending on whether a high light output ratio or visual comfort takes priority, the designer can select a cutoff angle of 30° or 40°





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Light sources Compact and powerful LEDs, low-voltage halogen lamps for perfect colour rendition, efficient high-pressure discharge lamps and compact fluorescent

lamps satisfy all requirements when it comes to selecting the light source.





Varychrome ring







Luminaire trim
The standard
version of luminaire trim with
Quintessence creates a direct transition between
the ceiling and
the luminaire.
The shadow gap
separates the
luminaire from
the ceiling surface. The varychrome ring

around the luminaire produces a decorative effect for styling the ceiling appearance.

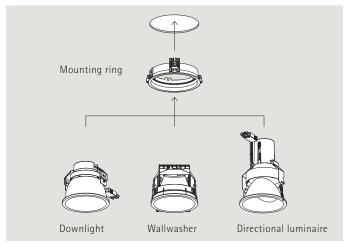
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Quintessence Recessed luminaires Planning notes and mounting

Flexibility

With a single mounting ring or frame, Quintessence's modular system allows for the installation of luminaires with different characteristics and light sources. If plans change during installation or subsequent amendments are required, these can be easily accommodated. With Quintessence it is, for instance, a simple matter to replace a downlight with a directional luminaire





Luminaire sizes

Whether round or square, the Quintessence product range covers all reflector sizes from 3 to 8. Choosing the shadow gap or varychrome ring will require a ceiling aperture which is one size larger than the version without the gap/ring.



Mounting without tools

The design brief for Quintessence recessed luminaires not only included excellent light quality but also simple and quick installation. The template enclosed with every luminaire allows the ceiling aperture to be marked out with speed and accuracy during dry construction. The separately enclosed mounting ring can be mounted quickly and efficiently without tools. In a subsequent building phase, the installer then inserts the luminaire housing and the light source - keeping the reflector dust-free throughout the dry construction phase. There are three mounting versions for the different luminaire sizes, each designed to allow the mounting ring or mounting frame to be removed from the ceiling aperture without using tools, even when renovating the ceiling.





With small recessed luminaires with cover mounting detail, the mounting without tools uses fixing springs. These springs are compressed onto the mounting ring and inserted and rotated into the ceiling aperture. A short counterrotation clamps the mounting ring in place.





Many luminaires have clamping mechanisms on the mounting ring, allowing them to be installed quickly and without tools in different ceiling thicknesses. To remove the luminaire during renovation simply pull open the

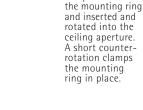
outer locking

lever.





For luminaires with flush mounting detail, the installation uses mounting brackets. These mounting brackets can be adjusted to suit various ceiling thicknesses simply by installing them in a different slot.







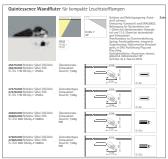
Clamping mechanism
The refined design of the Quintessence clamping mechanisms ensure quick installation by simply pressing the clamps down – and equally quick disassembly for renovation work. The combination of ratchet and leaf spring ensures that the luminaire is safely and permanently secured to ceiling of thickness from 1-30mm

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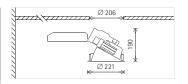
Quintessence Recessed luminaires Planning notes, mounting and accessories

Planning and mounting wallwashers

The wallwashers' asymmetrical light intensity distribution makes correct orientation towards the wall essential. ERCO simplifies the planning process by including in the Program scale drawings which are shown relative to the wall and that the luminaires are given a corresponding identification for installation.







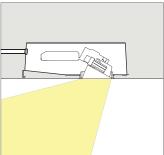
Illustrations as planning aids
All product photos and scale drawings in the Program and the product data sheets show the wallwashers in relation to the wall. The position of the lampholder housing or control gear housing pro-

vides a reference point for the orientation of the wallwasher.



Orientation towards the wall luminaires into the mounting ring, the "This side to wall" mark-

then be made by turning the luminaire in the mounting ring, after which the luminaire is then fixed in position in the mounting ring.



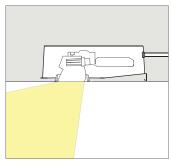
Mounting in concrete housing When using recessed luminaires in concrete housings, the housings

must be orien-

tated towards the wall in the

same direction as

tion of the lumi-



Variant luminaires may have different dimensions and require the concrete housing to be aligned differently.

Accessories

ing on the ring helps to orien-

tate the luminaire

correctly. A fine adjustment can

A wide range of accessories, including filters, concrete housings and mounting frames, are available for Quintessence recessed luminaires. These further expand the already extensive Quintessence system, for the realisation of highly individualised lighting solutions that places objects of all kinds in the right light.

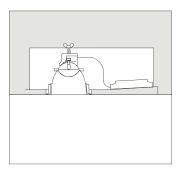


Double mounting frame The double mounting frame allows two characteristics to be mounted in one unit. For instance, a directional luminaire "spot" and a wallwasher can be combined together.



Colour filters and lenses UV filters provide protection for sensitive objects by limiting the spectral range. Skintone filters enhance warm, natural colours, especially skin colours. The food filter enhances the red and magenta spec-trum of meat and cold cuts. To adapt halogen lamps to the col-our temperature of daylight, the daylight conver-sion filter is used.

In addition, various interference colour filters in magenta, amber, sky blue and night blue are available for coloured lighting.



Concrete housing For the practical installation of luminaires in concrete ceilings, concrete housings are available, which are attached to the formwork. To provide better adhesion of the concrete, the undersides of the housings are

undercut. Empty

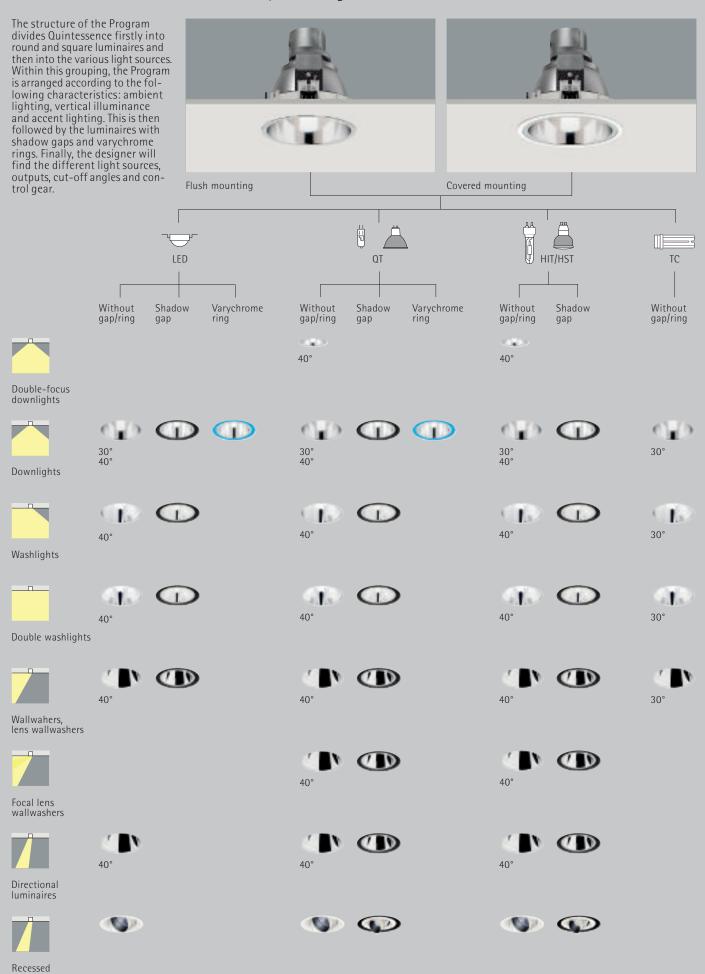
conduits for the

connection cables simplify the subsequent electrical

installation of the luminaires. The

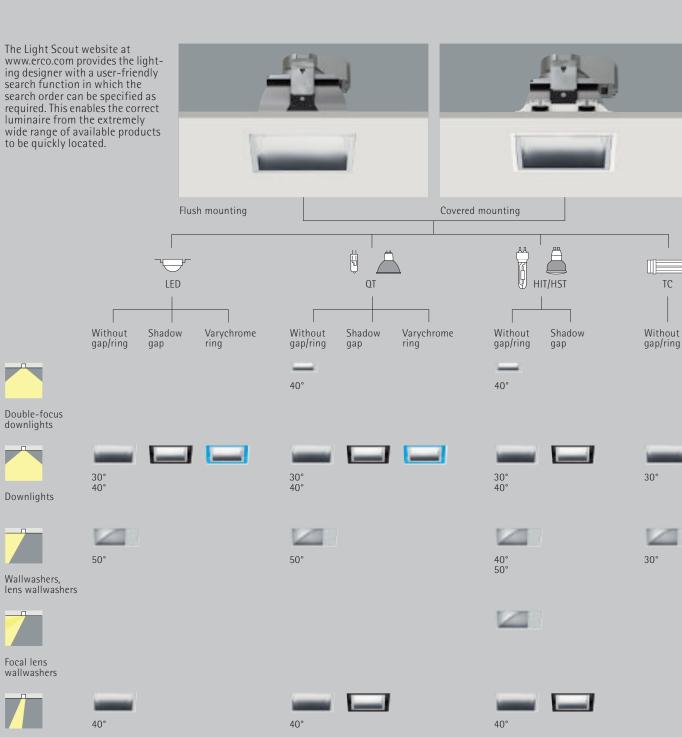
control gear units are all designed to operate in concrete housings. In addition, a spacer plate for the flush-mounting of downlights in fare face concrete is also available.

Quintessence Recessed luminaires System design



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spotlights



Directional luminaires

Recessed spotlights

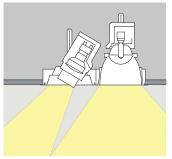
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Quintessence Recessed luminaires Planning notes for double mounting frames

The double mounting frames can either be used, for instance, with luminaires which have the same photometric characteristics in order to double the luminous flux for high-ceilinged rooms. Alternatively two different characteristics can be combined in order to link, for example, ambient lighting with accent lighting. The two tables show the available combinations for the covered and flush mounting details respectively.





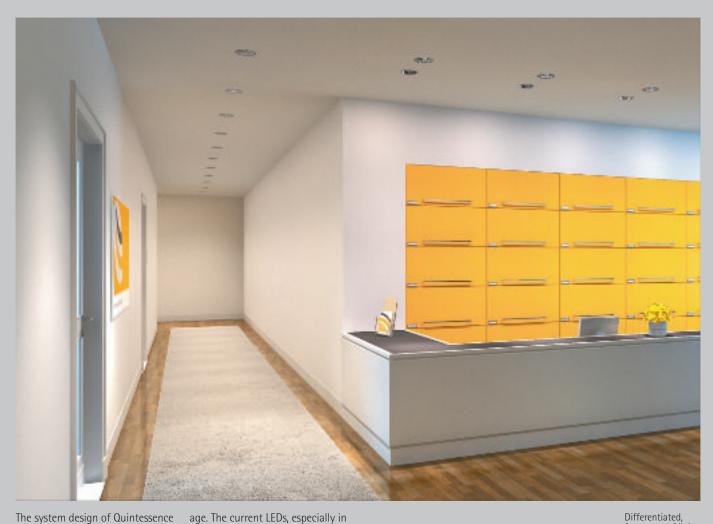
Flush mounting detail

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Covered mounting detail

			/_	/_	/_	/_	/_	/	/	/_	/_	/	/	/_	/_	/_	/	/	/	/	/_	/	/_	/	/_/	/ / /
		/2	2601 V	36024	2030 3000 3000	30%	.003A	5036	200°	300 (300 (30/	36409	90%	200/2	200/2	30%	3642 000	364A	900	300 300	30/	,00 ,00 ,5013	2000 2000	00%	26833 500/5	9834.0S
	/-		(O)	SOV,	63	63/			CYON	(40)	CAO	CVO.	CA)	(A)	(V)	(A)	SAAL	SAAL	300	301	3	(3)	800	8	(8)/(85°
	(5/ ^	5/ (5/ (5/ "	5/ "	5/ ^	5/ ^	5/ ^	5/ ^	5/ "	5/ (57 ^	57 ^	5/ ^	5/ "	5/ ^	5/ ^	5 °	~	5/ "	5/ ^	5/ ^	5/ (57 %	_
36013.000	•			•	•	•	•							•	•	•	•									
36014.000		•		•	•	•	•							•	•	•	•									
36024.000			•	•	•	•	•							•	•	•	•									
36030.000	•	•	•	•		•	•	•	•	•	•	•	•			•	•									
36032.000	•	•	•		•	•	•	•	•	•	•	•	•			•	•									
36034.000	•	•	•	•	•	•		•	•	•	•	•	•	•	•											
36036.000	•	•	•	•	•		•	•	•	•	•	•	•	•	•											
36406.000				•	•	•	•	•						•	•	•	•									
36407.000				•	•	•	•		•					•	•	•	•									
36408.000				•	•	•	•			•				•	•	•	•									
36409.000				•	•	•	•				•			•	•	•	•									
36418.000				•	•	•	•					•		•	•	•	•									
36419.000				•	•	•	•						•	•	•	•	•									
36425.000	•	•	•			•	•	•	•	•	•	•	•	•		•	•									
36427.000	•	•	•			•	•	•	•	•	•	•	•		•	•	•									
36442.000	•	•	•	•	•			•	•	•	•	•	•	•	•	•										
36444.000	•	•	•	•	•			•	•	•	•	•	•	•	•		•									
36706.000																		•								
36707.000																			•							
36730.000																				•						
36731.000																					•					
36809.000																						•				
36810.000																							•			
36833.000																								•		
36834.000																									•	

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provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. A special feature of the Quintessence range is the many options available for the installation detail. All luminaires are available with a covered or flush mounting detail. There are three options available for the luminaire edge: direct transition from ceiling to luminaire, shadow gap or even a varychrome ring illuminated in any required colour. Simple mounting makes for a highly economical installation.

The range of round recessed ceiling luminaires with LEDs includes downlights, washlights, double washlights, lens wallwashers and directional luminaires. LEDs excel due to their exceptionally high energy efficiency and low IR and UV radiation. They are comparable with metal halide lamps in terms of luminous efficacy, while being dimmable and capable of hot restart. Due to their reduced operating costs, LEDs are a cost-efficient option of illuminating even sensitive exhibits or products without dam-

age. The current LEDs, especially in warm white and with 4-channel varychrome technology, achieve an excellent colour rendition. Light colours for single-colour versions include warm white and daylight white, and for coloured luminaires, the RGB colour mixing technology. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Differentiated, future-proof lighting concepts with efficient visual comfort: the Quintessence LED range provides the right tools.

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The round Quintessence recessed ceiling luminaires for LEDs are available in versions with different light distributions, cut-off angles, reflector sizes, luminaire edges and installation details. The spectrum of light distributions includes downlights, washlights, double washlights, lens wallwashers and directional luminaires. Depending on the requirements as to visual comfort and recess depth, Quintessence includes cut-off angles of 30° or 40°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The two different mounting rings can be used either as a covered or a flush mounting detail. There are three options available for the luminaire edge: the conventional joint between ceiling and luminaire edge, shadow gap and varychrome

All Quintessence luminaires have

aluminium cooler housings which are designed to provide optimum

thermal properties according to their particular technical requirements. The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The aluminium reflector is mirror-finish silver anodised. The installation units required are available as accessories. The separate mounting ring supplied allows efficient installation on the construction site

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 3 to 5 with a cut-off angle of 30° or 40° with highpower LEDs in warm white, daylight white or varychrome. Lighting options for downlights include versions with wide diffuser for wide beam light distribution.

Application Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promo-

tional areas.

Washlights



The washlights are available in sizes 4 and 5 with a cut-off angle of 40° with high-power LEDs in warm white and daylight white. The darklight reflector has a special wallwasher segment in Spherolit technology for illuminating walls whilst simultaneously lighting the

Application Asymmetrical light distribution, directed downwards and for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

Double washlights



The double washlights are available in sizes 4 and 5 with a cut-off angle of 40° with high-power LEDs in warm white and daylight white. The darklight reflector has two special wallwasher segments for uniformly illuminating parallel walls whilst simultaneously lighting

Application Axially symmetrical light distribution for illumination of parallel walls including corridors and hallways.

Lens wallwashers



The lens wallwasher produces uniform light distribution over the whole wall. The range of lens wallwashers comprises luminaires in sizes 4 and 5 for high-power LEDs in warm white, daylight white or varychrome.

Application Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

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Directional luminaires



The Quintessence directional luminaires are available in the Spherolit lens versions spot or flood. The luminaires with a cut-off angle of 40° can be tilted up to 30° and rotated through 360°. The range comprises luminaires in size 5 for high-power LEDs in warm white or daylight white.

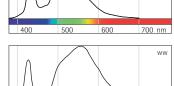
Application
Rotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Application areas include museums, trade fair stands, exhibitions, sales areas and promotional areas. promotional areas.

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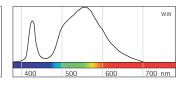


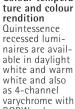






Colour tempera-





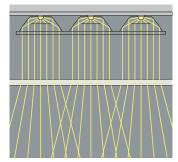
varychrome with RGBW colour mixing technol-ogy. The warm white version pro-duces a higher colour rendition quality than the daylight white model.



LED light mixer For the different downlight char-acteristics and the lens wallwashers, the light is directed by an 8-segment, mirror-finish reflector. The interreflections within the light mixer, especially in the RĠBW LÉD modules, result in



the best possible colour mixing beginning directly beneath the luminaire.



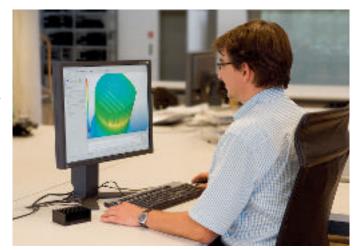
Directional luminaire

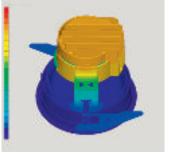
LED Spherolit lens and collimating lens The directional luminaires have lens systems designed and built by ERCO: the collimating lens creates a parallel beam, while a Spherolit lens produces the precise beam angle required.

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Heat management

Good heat management in the luminaire is crucial for continuous operation, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and material of the housing that all contribute to optimum heat management. Extensive simulations and tests during the development phase ensure the success of all the products in the range.





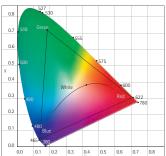
Two aspects make a major contribution to the performance of Quintessence LED luminaires: the contact surfaces between the LED's printed circuit board and the housing ensure good heat dissipation. The cooling fins on the housing fur-

ther dissipate the heat to achieve optimum conditions for continuous operation.

4-channel varychrome

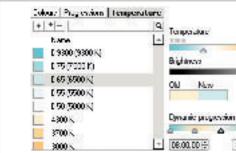
In the Quintessence recessed luminaires product range, ERCO introduces luminaires with LEDs and 4-channel varychrome technology. By combining RGBW colour mixing with white LEDs, these luminaires can optionally produce either white light with variable colour temperature at high luminous flux and good colour rendition or coloured light ranging from differentiated pastel hues to highly saturated colours. Light Studio has a corresponding attribute for controlling these luminaires. This consists either of a colour circle (which will be familiar to users of previous varychrome luminaires) or a slider control to regulate the colour of white along the Planckian locus from cool to warm. The 4-channel varychrome control gear units only require one DALI address despite having four control channels.





Within the coloured area of the CIE diagram, the Planckian locus traces the whites of different colour temperatures – from bluish cool white to reddish warm white.









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Quintessence Downlight with LED







Housing: cast aluminium, designed as Housing, cast aurimium, designed as heat sink. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for

finish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

mixing light: aluminium, silver, mirror-

Recess depth 180mm for installation units 83693.000, 83694.000. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 463

46701.000 Reflector silver LED day-LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩

Ø 113

 \bigcirc LED

0.68 UGR 200 cd/m² 65° <

46700.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg IMF D 日本①

Ø 113

LED

UGR

0.68 18.3 200 cd/m² 65° <

47757.000 Reflector silver LED day-LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg 日本 ⑩

Ø 108 Ø 105

 \bigcirc LED

0.68 UGR 19.0 200 cd/m² 65° <

47756.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg LMF D 日本 ⑩

 \Box LED

0.68 UGR 18.3 200 cd/m² 65° <

Number of luminaires per 100m2 for 100lx

200lx 300lx 500lx 46701.000 14 W 13 27 40 66 46700.000 14 W 49 17 33 81 47757.000 27 40 13 66 47756.000 14 W 33 49 81

Illuminance En (Ix) for module (m) 1.2x1.8 .8x2.4 2.4x2.4 1.8x1.8 46701.000 355 237 178 133 46700.000 14 W 107 286 191 143 47757.000 237 178 355 133 47756.000 14 W 286 191 107

Connected load without control gear 46701.000 14 W 46700 000 14 W 47757.000 14 W 47756.000

Connected load per 100b without control gear 46701.000 1.83 W/m² 46700 000 2.27 W/m² 47757.000 1.83 W/m 47756.000 2.27 W/m²

Number of luminaires per 100lx

46701.000 13.04 1/100m² 16.18 1/100m² 46700 000 47757.000 13.04 1/100m² 47756.000 16.18 1/100m²





DALI PLUG+



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30° Recess depth 180mm for DALI control

gear. Available from 2nd guarter 2010 Accessories page 463

46803.000 Reflector silver LED daylight white DALI LÉD 14W 1080lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D

234 x 79

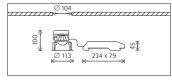




LOR 0.68 200 cd/m^2

46802.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D





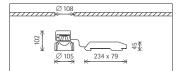


LOR 0.68 UGR 65° < 200 cd/m²

Quintessence Downlight with LED

47860.000 Reflector silver LED daylight white DALI LED 14W 1080Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D



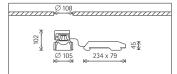
LED



UGR 19.0 200 cd/m² 65° <

47859.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D



LED

237

0.68 UGR 18.3 200 cd/m² 65° <

133

Number of luminaires per 100m2 fo	Number	of I	uminaires	per	100m ²	fo
-----------------------------------	--------	------	-----------	-----	-------------------	----

		100lx	200lx	300lx	500lx	
46803.000	14 W	13	27	40	66	46803.000
46802.000	14 W	17	33	49	81	46802.000
47860.000	14 W	13	27	40	66	47860.000
47859.000	14 W	17	33	49	81	47859.000

Illuminance E_n (lx) for module (m) 1.2x1.8 1.8x1.8 03 000 14 W 355 02.000 14 W 14 W

14 W

286	191	143	107
355	237	178	133
286	191	143	107
Numb	er of lumin	aires per 10	00lx

178

Connected load 46803.000 46802.000 17 W 47860.000 17 W P: 47859.000 17 W

Connected load per 100lx 46803.000 46802.000 2.75 W/m² 47860.000 2.22 W/m² 47859.000 2.75 W/m²

46803.000 . 13.04 1/100m² 46802.000 16.18 1/100m² 13.04 1/100m² 47860.000 16.18 1/100m² 47859.000







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

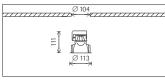
Cable, L 500mm. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Recess depth 180mm for installation units 83693.000, 83694.000. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 463

46715.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩







0.64 UGR 200 cd/m² 55° <

46714.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩

Ø 104





0.64 UGR 16.5 200 cd/m² 55° <

47713.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg LMF D 日本 ⑩

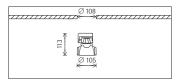




0.64 UGR 200 cd/m² 55° <

47712.000 Reflector silver LED warm white LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg LMF D 日本 ⑪





Illuminance E_n (Ix) for module (m)



LOR	0.64
UGR	16.5
55° <	200 cd/m ²

Number	of	luminaires	per	100m ²	for	
						_

		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46715.000	14 W	14	28	41	68	46715.000	14 W	340	227	170	128
46714.000	14 W	17	34	51	85	46714.000	14 W	274	183	137	103
47713.000	14 W	14	28	41	68	47713.000	14 W	340	227	170	128
47712.000	14 W	17	34	51	85	47712.000	14 W	274	183	137	103

Connected load				
without control gear				
46715.000	P:	14 W		
46714.000	P:	14 W		
47713.000	P:	14 W		
47712.000	P:	14 W		

Connected Io	ad per	100lx		
without control gear				
46715.000	P*:	1.91 W/m ²		
46714.000	P*:	2.37 W/m ²		
47713.000	P*:	1.91 W/m ²		
47712.000	P*:	2.37 W/m ²		

Number	of	luminaires	per	100lx

46715.000	n*:	13.61 1/100m ²
46714.000	n*:	16.89 1/100m ²
47713.000	n*:	13.61 1/100m ²
47712.000	n*:	16.89 1/100m ²





DALI PLUG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Recess depth 180mm for DALI control

gear. Available from 2nd guarter 2010 Accessories page 463

46817.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D

Ø 104 234 x 79

 \bigcirc LED

UGR 200 cd/m² 55° <

46816.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D

234 x 79

LED

0.64 UGR 16.5 200 cd/m² 55° <

47815.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D

Ø 108 234 x 79

 \bigcirc LED

0.64 UGR 200 cd/m² 55° <

47814.000 Reflector silver LED warm white DALI LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D

46816.000

47815 000

47814.000

Ø 108 } \$₹ 234 x 79

300lx

41

28

500lx

68

46816.000

47815 000

47814.000

LED

0.64 UGR 16.5 200 cd/m² 55° <

2.4x2.4

128

103

128

103

Number of luminaires per 100m2 for 100lx 200lx 46817.000 14 W 14 17 46816.000 14 W

34 51 47815.000 28 14 47814.000 14 W 17 51 Connected load 46817.000

17 W

17 W

17 W

85 68 85 Connected load per 100lx 46817.000 2.31 W/m²

2.87 W/m²

2.31 W/m

2.87 W/m²

Illuminance En (lx) for module (m) 1.2x1.8 1.8x1.8 46817.000 340 227 170 46816.000 14 W 274 137 183 47815.000 340 227 170 47814.000 14 W 274 183

> Number of luminaires per 100lx 46817.000 . 13.61 1/100m² 46816.000 16.89 1/100m² 47815 000 13.61.1/100m² 16.89 1/100m² 47814.000

Quintessence Downlight with LED and shadow gap







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting

detail. Cable, L 500mm. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-

Darklight reflector: aluminium, bright

anodised. Reflector size 3, cut-off angle

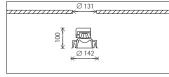
Recess depth 150mm for installation unit 83695.000 Control gear to be ordered separately.

Available from 2nd quarter 2010 Accessories page 463

finish anodised

46703.000 Reflector silver LED day-LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg IMF D 日本 ①







LOR 0.68 UGR 200 cd/m² 65° <

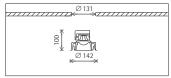
46702.000 Reflector silver LED warm white LED 14W 870lm 3200K Version 1

Wide diffuser: glass, frosted.

47701.000 Reflector silver LED day-LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

47700.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg LMF D

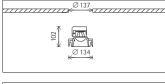






UGR 18.3 200 cd/m² 65° <

Flush mounting detail Weight 0.48kg 日本 ⑩







0.68 UGR 19.0 200 cd/m² 65° <

Flush mounting detail Weight 0.48kg LMF D 日本 ⑩

Connected load

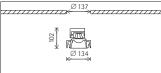
46703.000

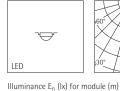
46702 000

47701.000

47700.000

without control gear





14 W

14 W

14 W

46703.000

46702.000

47701.000 47700.000



1.8x1.8

237

191

191

1.2x1.8

355

286

286

0.68 UGR 18.3 200 cd/m² 65° <

133

107

107

Number of luminaires per 100m² for

		100lx	200lx	300lx	500lx	
46703.000	14 W	13	27	40	66	
46702.000	14 W	17	33	49	81	
47701.000	14 W	13	27	40	66	
47700.000	14 W	17	33	49	81	

Connected load per 100b without control gear 46703.000 1.83 W/m² 2 27 W/m² 46702 000 47701.000 1.83 W/m² 47700.000 2.27 W/m²

Number of luminaires per 100lx

46703.000	n*:	13.04 1/100m ²
46702.000	n*:	16.18 1/100m ²
47701.000	n*:	13.04 1/100m ²
47700.000	n*:	16.18 1/100m ²

178

143

143







14 W

14 W

14 W

Size 4

Housing: cast aluminium, designed As heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

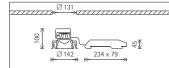
Darklight reflector: aluminium, bright anodised. Reflector size 3, cut-off angle

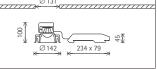
Recess depth 150mm for DALI control gear. Available from 2nd quarter 2010

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46805.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D





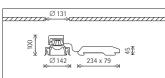




0.68 UGR 200 cd/m² 65° <

46804.000 Reflector silver LED warm white DALI LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D







0.68 UGR 18.3 200 cd/m² 65° <

47803.000 Reflector silver LED daylight white DALI LED 14W 1080Im 5500K Version 1 Wide diffuser: glass, frosted.

47802.000 Reflector silver LED warm

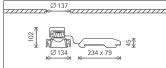
LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

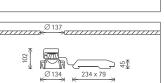
Flush mounting detail Weight 0.88kg LMF D

Flush mounting

Weight 1.10kg LMF D

detail









UGR 19.0 200 cd/m² 65° <

LOR 0.68 UGR 18.3 200 cd/m² 65° <

16.18 1/100m²

							LLD			1250 Cu	1		
Number of Iu	ıminaires p	er 100m²	for				Illuminance	E _n (lx) fo	r module (m)			
		100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
46805.000	14 W	13	27	40	66		46805.000	14 W	355	237	178	133	
46804.000	14 W	17	33	49	81		46804.000	14 W	286	191	143	107	
47803.000	14 W	13	27	40	66		47803.000	14 W	355	237	178	133	
47802.000	14 W	17	33	49	81		47802.000	14 W	286	191	143	107	
Connected Io	ad				Connected lo	oad per	100lx		Num	ber of lum	inaires per	100lx	
46805.000	P: 17 V	N			46805.000	P*:	2.22 W/m ²		4680	5.000	n*: 13.	04 1/100m ²	2
46804.000	P: 17 V	V			46804.000	P*:	2.75 W/m ²		4680	4.000	n*: 16.	18 1/100m ²	2
47803.000	P: 17 V	V			47803.000	P*:	2.22 W/m ²		4780	3.000	n*: 13.	04 1/100m ²	2

47802.000





47802.000 P: 17 W



Size 4 Housing: cast aluminium, designed as Mounting ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

2.75 W/m²

Cable, L 500mm.

Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright

anodised. Reflector size 3, cut-off angle

Recess depth 150mm for installation unit 83695.000
Control gear to be ordered separately.
Available from 2nd quarter 2010
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46717.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.
46716.000 Reflector silver LED warm white LED 14W 870Im 3200K

Version 1 Wide diffuser: glass, frosted.

47715.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

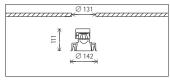
47714.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

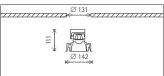
Covered mounting detail Weight 0.48kg LMF D 日本⑩



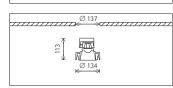
Flush mounting detail Weight 0.48kg LMF D 日本 ⑩

Flush mounting detail Weight 0.48kg LMF D 日本 ⑩





Ø 134





LED



47802.000

LOR 0.64 UGR 200 cd/m² 55° <

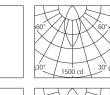
0.64

16.5

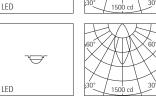
200 cd/m²

UGR

55° <



0.64 UGR 200 cd/m² 55° <



LOR 0.64 UGR 16.5 200 cd/m² 55° <

Number of Iu	minaires	per 100m²	for				Illuminance	E_n (Ix) fo	r module (m)		
		100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46717.000	14 W	14	28	41	68		46717.000	14 W	340	227	170	128
46716.000	14 W	17	34	51	85		46716.000	14 W	274	183	137	103
47715.000	14 W	14	28	41	68		47715.000	14 W	340	227	170	128
47714.000	14 W	17	34	51	85		47714.000	14 W	274	183	137	103
Connected lo	ad				Connected lo	oad per	100lx		Num	ber of lum	inaires per	100lx
without cont	rol gear				without con	trol gea	ar					
46717.000	P: 1	4 W			46717.000	P*:	1.91 W/m ²		4671	7.000	n*: 13	.61 1/100m ²
46716.000	P: 1	4 W			46716.000	P*:	2.37 W/m ²		4671	6.000	n*: 16	.89 1/100m ²
47715.000	P: 1	4 W			47715.000	P*:	1.91 W/m ²		4771	5.000	n*: 13	.61 1/100m ²
47714.000	P: 1	4 W			47714.000	P*:	2.37 W/m ²		4771	4.000	n*: 16	.89 1/100m ²





DALI PLUG+

PLAY



Size 4 Journal of the control of the contro

1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

detail.
Including DALI control gear with plug
and play connectivity. Through-wiring
possible. 5-pole terminal block.
Peripheral shadow gap: plastic, black.
Replaceable LED module: high-power
LEDs on metal-core PCB. Reflector for
mixing light: aluminium silver mixor. mixing light: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright anodised. Reflector size 3, cut-off angle

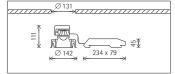
Recess depth 150mm for DALI control

gear. Available from 2nd quarter 2010

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46819.000 Reflector silver LED daylight white DALI LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D







0.64 UGR 17.3 200 cd/m² 55° <

46818.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D

Ø 131 Ø 142 234 x 79 → ₹¥





LOR 0.64 UGR 16.5 200 cd/m² 55° <

47817.000 Reflector silver LED daylight white DALI LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.10kg LMF D

Ø 137 Ø 134 234 × 79

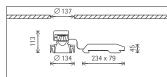




0.64 UGR 17.3 200 cd/m² 55° <

47816.000 Reflector silver LED warm white DALI LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.10kg LMF D







LOR 0.64 UGR 200 cd/m² 55° <

435

Number of Iu	minaires pe	er 100m²	tor
		100lx	200lx
46819.000	14 W	14	28
46818.000	14 W	17	34
47817.000	14 W	14	28
47816.000	14 W	17	34

rannanco pe					
	100lx	200lx	300lx	500lx	
14 W	14	28	41	68	
14 W	17	34	51	85	
14 W	14	28	41	68	
14 W	17	34	51	85	

LEI)		30°	1500 cd	30°							
Illuminance E _n (lx) for module (m)												
			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4						
468	19.000	14 W	340	227	170	128						
468	18.000	14 W	274	183	137	103						
478	17.000	14 W	340	227	170	128						

47816.000	14	4 W	17	34	51	85		47816.000	14 W	274	183	1	137	103
Connected I	oad					Connected lo	ad per	100lx		Numbe	r of lun	ninaire	s per 100	Olx
46819.000	P:	17 W				46819.000	P*:	2.31 W/m ²		46819.	000	n*:	13.61	1/100m ²
46818.000	P:	17 W				46818.000	P*:	2.87 W/m ²		46818.	000	n*:	16.89	1/100m ²
47817.000	P:	17 W				47817.000	P*:	2.31 W/m ²		47817.	000	n*:	13.61	1/100m ²
47816.000	P:	17 W				47816.000	P*:	2.87 W/m ²		47816.	000	n*:	16.89	1/100m ²







Housing: cast aluminium, designed as Housing, cast aurimium, designed as heat sink. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

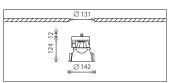
Recess depth 150mm for installation unit 83695.000

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 463

46721.000 Reflector silver LED day-LED 21W 1620lm 5500K Version 1

Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩



 \bigcirc LED



UGR 200 cd/m² 65° <

46720.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg IMF D 日本 ⑩

Ø 131 124 Ø 142

LED



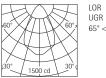
0.65 UGR 17.3 200 cd/m² 65° <

47719.000 Reflector silver LED day-LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg 日本 ⑩

Ø 137 126 Ø 134

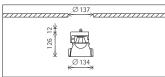




0.65 18.0 200 cd/m²

47718.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg LMF D 日本 ⑩



300lx

500lx





0.65 UGR 17.3 200 cd/m² 65° <

47719.000 10 47718.000 21 W 12 Connected load

Number of luminaires per 100m2 for

46721.000 46720.000 21 W 10 19 28 46 21 W 57 12 23 34 19 28 46 23 34 57

2001x

100lx

Illuminance En (Ix) for module (m) 46721.000 46720.000 21 W

47719.000

47718.000

21 W

1.2x1.8 2.4x2.4 1.8x1.8 .8x2.4 511 341 256 192 412 275 206 155 256 192 511 155

without control gear 46721.000 21 W 46720 000 21 W 47719.000 21 W 47718.000

Connected load per 100b without control gear 46721.000 1.90 W/m² 46720 000 2.36 W/m² 47719.000 1.90 W/m 47718.000 2.36 W/m²

Number of luminaires per 100lx

46721.000 9.05 1/100m² 11.24 1/100m² 46720.000 47719.000 9.05 1/100m² 11.24 1/100m² 47718.000





PLUG+



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30° Recess depth 150mm for DALI control

gear. Available from 3rd guarter 2010 Accessories page 463

46823.000 Reflector silver LED daylight white DALI LÉD 21W 1620lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D

Ø 131 124 223 x 95 Ø 142

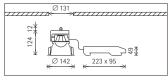




LOR 0.65 200 cd/m^2

46822.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D



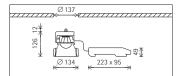




LOR 0.65 UGR 65° < 200 cd/m²

47821.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D



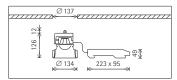




18.0 200 cd/m² 65° <

47820.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D







0.65 UGR 17.3 200 cd/m² 65° <

lumber	of	luminaires	per	$100 m^{2}$	for
				1001	2

Number of luminaires per 100m ² for					Illuminanc	Illuminance E _n (lx) for module (m)					
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46823.000	21 W	10	19	28	46	46823.000	21 W	511	341	256	192
46822.000	21 W	12	23	34	57	46822.000	21 W	412	275	206	155
47821.000	21 W	10	19	28	46	47821.000	21 W	511	341	256	192
47820.000	21 W	12	23	34	57	47820.000	21 W	412	275	206	155

Connected load 46823.000 46822.000 25 W 47821.000 25 W 47820.000 25 W

Connected load per 100lx 46823.000 2.26 W/m² 46822.000 2.81 W/m² 47821.000 2.26 W/m² 47820.000 2.81 W/m²

Number of luminaires per 100lx 46823.000 9.05 1/100m² 46822.000 11.24 1/100m² 47821.000 9.05 1/100m² 11.24 1/100m² 47820.000







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

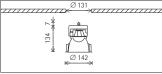
Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Recess depth 150mm for installation unit 83695.000

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 463

46707.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩







0.63 UGR 200 cd/m² 55° <

46706.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩

Ø 131 134





47705.000 Reflector silver LED day-LED 21W 1620lm 5500K Version 1

Flush mounting detail Weight 0.60kg LMF D

Ø 142

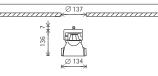




0.63 UGR 16.2 200 cd/m² 55° <

Wide diffuser: glass, frosted.

日本 ⑩



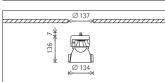




0.63 UGR 200 cd/m² 55° <

47704.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg LMF D 日本 ⑪





Illuminance E_n (Ix) for module (m)



0.63 UGR 16.2 55° < 200 cd/m²

Number	of	luminaires	per	100m ²	for	
						_

		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46707.000	21 W	10	19	28	47	46707.000	21 W	502	335	251	188
46706.000	21 W	12	23	35	58	46706.000	21 W	405	270	202	152
47705.000	21 W	10	19	28	47	47705.000	21 W	502	335	251	188
47704.000	21 W	12	23	35	58	47704.000	21 W	405	270	202	152

Connected	ioau		
without cor	ntrol gear		
46707.000	P:	21	W
46706.000	P:	21	W
47705.000	P:	21	W
47704.000	p.	21	\/\

Connected Id	oad per	100lx
without cont	trol gea	ır
46707.000	P*:	1.93 W/m ²
46706.000	P*:	2.40 W/m ²
47705.000	P*:	1.93 W/m ²
47704.000	P*:	2.40 W/m ²

Number of	iuminaires	per it	JUIX
46707.000	n*:	9.21	1/100

46707.000	n*:	9.21 1/100m ²
46706.000	n*:	11.44 1/100m ²
47705.000	n*:	9.21 1/100m ²
47704.000	n*:	11.44 1/100m ²





DALI PLUG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Recess depth 150mm for DALI control

gear. Available from 3rd guarter 2010 Accessories page 463

46809.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D

Ø 131 134 Ø 142 223 x 95

 \bigcirc LED

0.63 UGR 200 cd/m² 55° <

46808.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D

134 223 x 95 Ø 142

LED

0.63 UGR 16.2 200 cd/m² 55° <

47807.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D

Ø 137 136 223 x 95 Ø 134

 \bigcirc LED

0.63 UGR 200 cd/m² 55° <

47806.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D

Ø 137 136 ⊃ \$₹ Ø 134 223 x 95

300lx

28

500lx

47

47806.000

LED

21 W

21 W

46809.000

46808.000

47807.000

0.63 UGR 16.2 200 cd/m² 55° <

46809.000 21 W 46808.000 21 W 47807.000 47806.000 21 W

46808.000

47807 000

47806.000

Number of luminaires per 100m² for

25 W

25 W

25 W

12 23 35 58 10 19 47 28 12 23 35 58 Connected load 46809.000 46809.000

100lx

10

200lx

19

47806.000 Connected load per 100lx 2.30 W/m² 46808.000 2.86 W/m² 47807 000 2.30 W/m

2.86 W/m²

Illuminance En (lx) for module (m 1.2x1.8 2.4x2.4 502 335 251 188 405 270 202 152 502 251 188 335 405 270 152

> Number of luminaires per 100lx 46809.000 9.21 1/100m² 46808.000 11.44 1/100m² 47807 000 9 21 1/100m² 11.44 1/100m² 47806.000

Quintessence Downlight with LED and shadow gap







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

detail.

Cable, L 500mm. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised

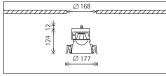
Darklight reflector: aluminium, bright

anodised. Reflector size 4, cut-off angle

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 463

46723.000 Reflector silver LED daylight white LÉD 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg IMF D 日本 ①







LOR 0.65 UGR 200 cd/m² 65° <

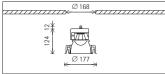
46722.000 Reflector silver LED warm white LED 21W 1305lm 3200K

Version 1 Wide diffuser: glass, frosted.

47721.000 Reflector silver LED day-LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

47720.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D

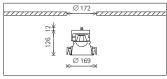






UGR 17.3 200 cd/m² 65° <

Flush mounting detail Weight 0.71kg 日本 ⑩







0.65 UGR 18.0 200 cd/m² 65° <

Flush mounting detail Weight 0.71kg LMF D 日本 ⑩

Connected load

46723.000

46722 000

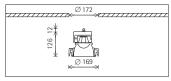
47721.000

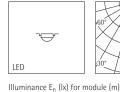
47720.000

DALI PLUG+

without control gear

P:





21 W

21 W

21 W

21 W

46723.000

46722.000

47721.000

47720.000



1.8x1.8

341

275

1.2x1.8

511

412

0.65 UGR 17.3 200 cd/m² 65° <

192

155

Number of luminaires per 100m2 for

21 W

21 W

21 W

		100lx	200lx	300lx	500lx
46723.000	21 W	10	19	28	46
46722.000	21 W	12	23	34	57
47721.000	21 W	10	19	28	46
47720.000	21 W	12	23	34	57

Connected load per 100b without control gear 46723.000 1.90 W/m² 2.36 W/m² 46722 000 47721.000 1.90 W/m² 47720.000 2.36 W/m²

412 275 206 155 Number of luminaires per 100lx

256

206

46723.000 9.05 1/100m² 46722 000 11.24 1/100m² 9.05 1/100m² 47721.000 47720.000 11.24 1/100m²







Size 5

Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for

mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle 30°.

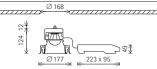
Available from 3rd quarter 2010 Accessories page 463

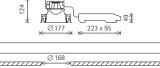
46825.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

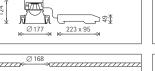
46824.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg LMF D

Covered mounting detail Weight 1.37kg LMF D



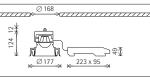








0.65 UGR 18.0 200 cd/m² 65° <







0.65 UGR 200 cd/m² 65° <

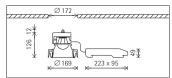
www.erco.com

47823.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1

Wide diffuser: glass, frosted.

47822.000 Reflector silver LED warm

Flush mounting detail Weight 1.37kg LMF D







UGR 18.0 200 cd/m² 65° <

LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D

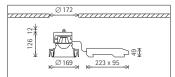
Connected load

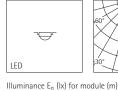
46825.000

46824.000

47823.000

47822.000





21 W

21 W

21 W

46825,000

46824.000

47823.000 47822.000



1.8x1.8

341

275

1.2x1.8

511

412

47822.000

LOR 0.65 UGR 17.3 200 cd/m² 65° <

2.4x2.4

11.24 1/100m²

192

155

lumber	of	luminaires	per	100m ²	for
				001	_

25 W

25 W

25 W

		100lx	200lx	300lx	500lx	
46825.000	21 W	10	19	28	46	
46824.000	21 W	12	23	34	57	
47823.000	21 W	10	19	28	46	
47822.000	21 W	12	23	34	57	
47823.000	21 W	10	19	28	46	

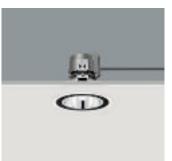
(Connected	load per	100lx	
4	16825.000	P*:	2.26	W/m ²
4	16824.000	P*:	2.81	W/m ²
2	17823.000	P*:	2.26	W/m ²

47822.000

412 275 206 155 Number of luminaires per 100lx 9.05 1/100m² 46825.000 46824.000 n*: 11.24 1/100m² 9.05 1/100m² 47823.000

256

206







Size 5 Housing: cast aluminium, designed as Mounting ring: plastic, black.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of
1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

2.81 W/m²

Cable, L 500mm.

Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

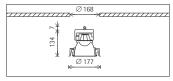
Darklight reflector: aluminium, bright

anodised. Reflector size 4, cut-off angle

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 463

46709.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑩







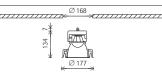
0.63 UGR 200 cd/m² 55° <

46708.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg 日本 ⑩

Flush mounting

detail







0.63 UGR 16.2 200 cd/m² 55° <

47707.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Weight 0.71kg LMF D 日本 ⑩

Ø 172 Ø 169

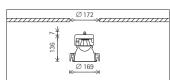




0.63 UGR 200 cd/m² 55° <

47706.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg IMF D 日本 ⑩





111111111111111111111111111111111111
HA/Λ
1 // // / /
(60° X / / \
100 / 1/1 1/2 \00.7
$1 \times 14+4/1$
$r \times r \times 1$
$1 \times 1 1 \times 1$
30° / 30°
1800 cd \30 (
7 1000 Cu

LOR 0.63 UGR 55° < 200 cd/m²

Number of luminaires per 100m² for

		100lx	200lx	300lx	500lx
46709.000	21 W	10	19	28	47
46708.000	21 W	12	23	35	58
47707.000	21 W	10	19	28	47
47706 000	21 W	12	23	35	58

	46709.000	21 W
	46708.000	21 W
	47707.000	21 W
	47706.000	21 W
d load per 100lx		

LED		1800 cd	1							
Illuminance E _n (lx) for module (m)										
	1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4						
46709.000 21 W	502	335	251	188						
46708.000 21 W	405	270	202	152						
47707.000 21 W	502	335	251	188						

270

Connected lo	oad		
without cont	trol gear		
46709.000	P:	21 W	
46708.000	P:	21 W	
47707.000	P:	21 W	
47706.000	P:	21 W	

Connected load per Toolx									
without control gear									
46709.000	P*:	1.93 W/m ²							
46708.000	P*:	2.40 W/m ²							
47707.000	P*:	1.93 W/m ²							
47706.000	P*:	2.40 W/m ²							

Number of lu	iminaires	per 100lx
46709.000	n*:	9.21 1/100m ²
46708.000	n*:	11.44 1/100m ²
47707.000	n*:	9.21 1/100m ²
47706.000	n*:	11.44 1/100m ²





DALI PLUG+ PLAY



Size 5 Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

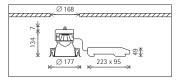
Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle

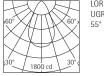
Available from 3rd quarter 2010 Accessories page 463



Covered mounting detail Weight 1.37kg LMF D





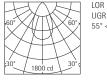


LOR 0.63 UGR 16.9 55° < 200 cd/m²

46810.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg LMF D

Ø 168 Ø 177 Ø LED



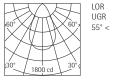
LOR 0.63 UGR 16.2 55° < 200 cd/m²

47809.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D

Ø 172 Ø 169 Ø 223 x 95 Ø 223 x 95





LOR 0.63 UGR 16.9 55° < 200 cd/m²

47808.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D

Ø 172 Ø 169 × 223 x 95





LOR 0.63 UGR 16.2 55° < 200 cd/m²

441

Number of luminaires per 100m ² for					Illuminance	Illuminance E _n (lx) for module (m)					
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46811.000	21 W	10	19	28	47	46811.000	21 W	502	335	251	188
46810.000	21 W	12	23	35	58	46810.000	21 W	405	270	202	152
47809.000	21 W	10	19	28	47	47809.000	21 W	502	335	251	188
47808.000	21 W	12	23	35	58	47808.000	21 W	405	270	202	152

4/809.0	00	2	1 VV	10	19	28	47		4/809.000	21 W	502	335	2	251	188
47808.0	00	2	1 W	12	23	35	58		47808.000	21 W	405	270	2	202	152
Connect	tod le	and					Connected lo	and nor	100ly		Numb	er of lum	inaira	nor 1	001v
46811.0	00	P:	25 W				46811.000	P*:	2.30 W/m ²		46811	.000	n*:	9.21	I 1/100m ²
46810.0	00	P:	25 W				46810.000	P*:	2.86 W/m ²		46810	.000	n*:	11.44	1/100m ²
47809.0	00	P:	25 W				47809.000	P*:	2.30 W/m ²		47809	.000	n*:	9.21	I 1/100m ²
47808.0	00	P:	25 W				47808.000	P*:	2.86 W/m ²		47808	.000	n*:	11.44	1/100m ²

www.erco.com ERCO Program 2010/11

Quintessence Downlight with LED and varychrome ring

DALI PLUG+ PLAY









Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral varychrome ring: plastic, white (RAL9010). Replaceable LED modwhite (RAL9010). Replaceable LED module, with connection cable, L 500mm. Including DALI control gear with plug and play connectivity for ERCO vary-chrome colour mixing. 4-pole terminal block. Through-wiring possible. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle

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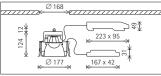
46827.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

46826.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

47825.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

47824.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

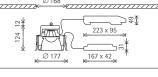
Covered mounting detail Weight 1.71kg LMF D



Ø 168

Ø 177

124



223 x 95

167 x 42





0.65 UGR 18.0 200 cd/m² 65° <

0.65

17.3

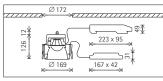
200 cd/m²

UGR

65° <

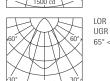
Covered mounting detail Weight 1.71kg LMF D





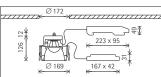


LED



0.65 18.0 200 cd/m^2 65° <

Flush mounting detail Weight 1.71kg LMF D







0.65 UGR 200 cd/m^2 65° <

Number of luminaires per 100m ² for										
		100lx	200lx	300lx	500l					
46827.000	21 W	10	19	28	46					
46826.000	21 W	12	23	34	57					
47825.000	21 W	10	19	28	46					
17824 000	21 W	12	23	34	57					

		100lx	200lx	300lx	500lx
46827.000	21 W	10	19	28	46
46826.000	21 W	12	23	34	57
47825.000	21 W	10	19	28	46
47824.000	21 W	12	23	34	57

			7	+							
Illuminance	Illuminance E _n (lx) for module (m)										
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4						
46827.000	21 W	511	341	256	192						
46826.000	21 W	412	275	206	155						
47825.000	21 W	511	341	256	192						
47024000	21 \//	412	275	206	100						

Connected le	oad		Connected	load per	100lx	Number of I	uminaire	s per 100lx
46827.000	P:	25 W	46827.000	P*:	2.26 W/m ²	46827.000	n*:	9.05 1/100m ²
46826.000	P:	25 W	46826.000	P*:	2.81 W/m ²	46826.000	n*:	11.24 1/100m ²
47825.000	P:	25 W	47825.000	P*:	2.26 W/m ²	47825.000	n*:	9.05 1/100m ²
47824.000	P:	25 W	47824.000	P*:	2.81 W/m ²	47824.000	n*:	11.24 1/100m ²

Quintessence Downlight with LED and varychrome ring

DALI PLUG+

PLAY









Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral varychrome ring: plastic, white (RAL9010). Replaceable LED modwhite (RAL9010). Replaceable LED mod-ule, with connection cable, L 500mm. Including DALI control gear with plug and play connectivity for ERCO vary-chrome colour mixing. 4-pole terminal block. Through-wiring possible. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle

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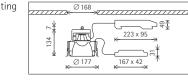
46813.000 Reflector silver LED daylight white DALI LÉD 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

46812.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

47811.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

47810.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.71kg LMF D



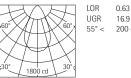
Ø 177

Ø 168 223 x 95 ... ♀Д



LED

 $rac{1}{2}$



16.9 200 cd/m² LOR 0.63

UGR

55° <

2.4x2.4

188

152

188

152

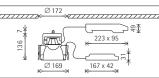
16.2

200 cd/m²

Covered mounting detail Weight 1.71kg LMF D

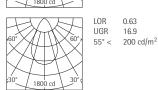


134

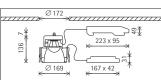


167 x 42

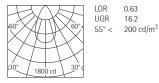




Flush mounting detail Weight 1.71kg LMF D







Number of luminaires per 100m² for Illuminance E_n (lx) for module (m) 100lx 200lx 300lx 500lx 1.2x1.8 1.8x1.8 21 W 46813.000 21 W 46813 000 10 19 28 47 502 335 251 46812.000 21 W 46812.000 202 12 23 35 58 21 W 405 270 21 W 21 W 47811.000 19 28 47 47811.000 502 335 251 10 47810.000 21 W 12 23 35 47810.000 21 W 405 270 202 Connected load Connected load per 100b Number of luminaires per 100lx

46813.000	D.	OF M	46813.000	D*.	2.20 M/m²	40012.000	*.	9.21 1/100m ²
46813.000	P:	25 VV						
46812.000	P:	25 W	46812.000	P*:	2.86 W/m ²	46812.000	n*:	11.44 1/100m ²
47811.000	P:	25 W	47811.000	P*:	2.30 W/m ²	47811.000	n*:	9.21 1/100m ²
47810.000	P:	25 W	47810.000	P*:	2.86 W/m ²	47810.000	n*:	11.44 1/100m ²

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Housing: cast aluminium, designed as Housing, cast aurimium, designed as heat sink. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

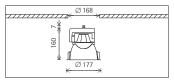
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Control gear to be ordered separately.

Available from 2nd quarter 2010 Accessories page 463

46727.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1

Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩



 \bigcirc LED

UGR 200 cd/m² 65° <

46726.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本①

Ø 168 160

LED

UGR 17.1 200 cd/m² 65° <

47725.000 Reflector silver LED day-LÉD 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg 日本 ⑩

 \bigcirc LED

UGR 17.8 200 cd/m² 65° <

47724.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩

Ø 172 M

LED

47725.000

47724.000

0.71 UGR 17.1 200 cd/m² 65° <

2.4x2.4

278

224

Number of luminaires per 100m2 for

		100lx	200lx	300lx	500lx
46727.000	28 W	7	13	19	32
46726.000	28 W	8	16	24	39
47725.000	28 W	7	13	19	32
47724.000	28 W	8	16	24	39

Illuminance En (Ix) for module (m) 1.2x1.8 1.8x1.8 46727.000 28 W 742 495 46726.000 28 W 598 399

28 W

28 W

Connected load without control gear 46727.000 28 W 46726 000 28 W 47725.000 28 W 47724.000 28 W

Connected load per 100b without control gear 46727.000 1.75 W/m² 46726 000 2 17 W/m² 47725.000 1.75 W/m² 2.17 W/m² 47724.000

742 495 371 278 598 399 299 224 Number of luminaires per 100lx

.8x2.4

371

299

46727.000 46726.000 7.74 1/100m² 47725.000 6.24 1/100m² 7.74 1/100m²





PLUG+



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30° Available from 3rd quarter 2010 Accessories page 463

46829.000 Reflector silver LED daylight white DALI LÉD 28W 2160lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D

Ø 168 091 223 x 95 Ø 177

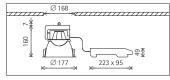




LOR 0.71 200 cd/m^2

46828.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D

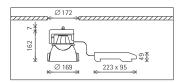






0.71 UGR 65° < 200 cd/m²

47827.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted. Flush mounting detail Weight 1.65kg LMF D



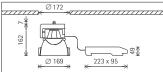




LOR 0.71 UGR 17.8 65° < 200 cd/m²

47826.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D







LOR 0.71 UGR 17.1 65° < 200 cd/m²

								LLD			7 2000 Cu	+	
Number of Iu	umin:	aires pe	er 100m	² for				Illuminance	E _n (lx) fo	r module (m)		
			100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46829.000	2	8 W	7	13	19	32		46829.000	28 W	742	495	371	278
46828.000	2	8 W	8	16	24	39		46828.000	28 W	598	399	299	224
47827.000	2	8 W	7	13	19	32		47827.000	28 W	742	495	371	278
47826.000	2	8 W	8	16	24	39		47826.000	28 W	598	399	299	224
Connected lo	oad					Connected lo	oad per	100lx		Num	ber of lum	inaires pe	r 100lx
46829.000	P:	32 W	I			46829.000	P*:	2.00 W/m ²		4682	9.000	n*: 6	.24 1/100m ²
46828.000	P:	32 W	1			46828.000	P*:	2.48 W/m ²		4682	8.000	n*: 7	.74 1/100m ²
47827.000	P:	32 W	I			47827.000	P*:	2.00 W/m ²		4782	7.000	n*: 6	.24 1/100m ²
47826.000	P:	32 W	I			47826.000	P*:	2.48 W/m ²		4782	6.000	n*: 7	.74 1/100m ²







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–30mm with covered mounting detail and 12.5–25mm with flush mounting detail.

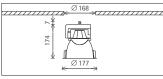
Cable, L 500mm.
Replaceable LED module: high-power
LEDs on metal-core PCB. Reflector for
mixing light: aluminium, silver, mirror-

finish anodised.
Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.
Control gear to be ordered separately.

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LOR 0.70 UGR 16.7 55° < 200 cd/m²

46712.000 Reflector silver LED warm white LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩ Ø 168

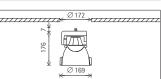




LOR 0.70 UGR 16.0 55° < 200 cd/m²

47711.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩





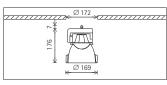
LED



LOR 0.70 UGR 16.7 55° < 200 cd/m²

47710.000 Reflector silver LED warm white LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail
Weight 1.00kg
日本⑩





60° (60°)
1° X XX
LXXXXX
X/Y/X
30° 2000 cd 30° s
1 2000 Cu

LOR	0.70
UGR	16.0
55° <	200 cd/m ²

Number of Iu	ıminaires p	oer 100m²	for			Illuminance	E _n (lx) fo	r module (m)		
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46713.000	28 W	7	13	19	32	46713.000	28 W	743	496	372	279
46712.000	28 W	8	16	24	39	46712.000	28 W	599	399	299	225
47711.000	28 W	7	13	19	32	47711.000	28 W	743	496	372	279
47710.000	28 W	8	16	24	39	47710.000	28 W	599	399	299	225
Connected lo					Connected lo	oad per 100lx		Num	ber of lumi	inaires per	100lx

without cont	rol gea	ar	without cont	rol gea	ır			
46713.000	P:	28 W	46713.000	P*:	1.74 W/m ²	46713.000	n*:	6.23 1/100m ²
46712.000	P:	28 W	46712.000	P*:	2.16 W/m ²	46712.000	n*:	7.73 1/100m ²
47711.000	P:	28 W	47711.000	P*:	1.74 W/m ²	47711.000	n*:	6.23 1/100m ²
47710.000	P:	28 W	47710.000	P*:	2.16 W/m ²	47710.000	n*:	7.73 1/100m ²





DALI PLUG+ PLAY



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–30mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Available from 3rd quarter 2010 Accessories page 463

46815.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D Ø 168





LOR 0.70 UGR 16.7 55° < 200 cd/m²

46814.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D

Ø 168 Ø 177 Ø 223 x 95 Ø





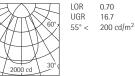
LOR 0.70 UGR 16.0 55° < 200 cd/m²

47813.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D

Ø 172 Ø 169 Ø 223 x 95 Ø 169





47812.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D Ø 169 × 223 x 95 ×





LOR 0.70 UGR 16.0 55° < 200 cd/m²

Number of	iuiiiiiaii cs pci	100111	101
	1	00lx	200lx
46815.000	28 W	7	13
46814.000	28 W	8	16
47813.000	28 W	7	13
47812.000	28 W	8	16

300lx 500lx 19 32 24 39 19 32 24 39 Illuminance En (Ix) for module (m) 1.2x1.8 .8x2.4 2.4x2.4 46815.000 46814.000 28 W 743 496 372 279 28 W 225 599 399 299 47813.000 28 W 743 496 372 279 47812.000 28 W 599 399 299 225

Connected loa	ad		Connected le	oad per	100lx	Number of lu	minaires	per 100lx
46815.000	P:	32 W	46815.000	P*:	1.99 W/m ²	46815.000	n*:	6.23 1/100m ²
46814.000	P:	32 W	46814.000	P*:	2.47 W/m ²	46814.000	n*:	7.73 1/100m ²
47813.000	P:	32 W	47813.000	P*:	1.99 W/m ²	47813.000	n*:	6.23 1/100m ²
47812.000	P:	32 W	47812.000	P*:	2.47 W/m ²	47812.000	n*:	7.73 1/100m ²

Quintessence Downlight 4-channel varychrome with LED

DALI PLUG+ PLAY









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Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail Including DALI control gear with plug

and play connectivity for ERCO 4channel varychrome colour mixing. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-finish anodised.

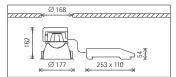
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
Only use with Light Server 64+, from version 5, and the Light Studio software, from version 5.

Available from 3rd quarter 2010

46800.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm

Version 1 Colour compensation for precise light colour. Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.90kg LMF D



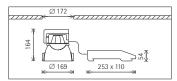




0.68 UGR 16.1 200 cd/m² 65° <

47800.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1 Colour compensation for precise light

colour. Wide diffuser: glass, frosted. Flush mounting detail Weight 1.90kg LMF D





Illuminance E_n (lx) for module (m)



Number of luminaires per 100lx

n*:

16.25 1/100m²

16.25 1/100m²

447

46800.000

47800.000

0.68 UGR 16.1 200 cd/m² 65° <

Number of luminaires per 100m2 for 100lx 200lx 300lx 500lx

1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 46800 000 46800 000 28 W 17 33 49 82 28 W 285 190 142 107 47800.000 47800.000 28 W 17 33 49 82 28 W 285 190 142 107

Connected load Connected load per 100lx 46800.000 32 W 46800.000 5.20 W/m² P: 47800.000 47800.000 5.20 W/m² 32 W

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Quintessence Downlight 4-channel varychrome with LED

DALI PLUG+ PLAY









Including DALI control gear with plug and play connectivity for ERCO 4channel varychrome colour mixing. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.
Only use with Light Server 64+, from version 5, and the Light Studio software, from version 5.

Available from 3rd quarter 2010

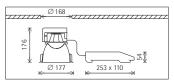
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46801.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1 Colour compensation for precise light

colour.

Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.90kg LMF D







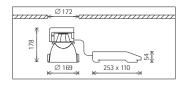
0.67 UGR 15.0 200 cd/m² 55° <

47801.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1

Colour compensation for precise light colour.

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.90kg LMF D







0.67 UGR 15.0 200 cd/m² 55° <

Number of luminaires per 100m² for

200lx 300lx 500lx 46801 000 28 W 17 33 49 82 47801.000 28 W 17 33 49 82 Illuminance E_n (lx) for module (m) 1.2x1.8

1.8x1.8 1.8x2.4 2.4x2.4 46801 000 28 W 284 189 142 106 47801.000 28 W 284 189 142 106

Connected load 46801.000 32 W P: 47801.000 32 W

Connected load per 100lx 46801.000 5.22 W/m² 47801.000 5.22 W/m²

Number of luminaires per 100lx 46801.000 n*: 16.30 1/100m² 47801.000 16.30 1/100m²

Quintessence Washlight with LED







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-finish anodised.

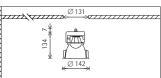
Darklight reflector with Spherolit tech-

nology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Recess depth 150mm for installation unit 83695.000

unit 83695.000 Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 464

46729.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩



LED

Mean illuminance E_n (lx)

46728.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩ Ø 131 × 1111 × 1



Mean illuminance E_n (lx)

 Wall height (m)
 3.0

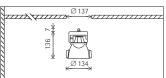
 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance E_n (lx)
 93
 66
 50

47731.000 Reflector silver LED daylight white LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg LMF D 日本 ⑩





Mean illuminance E_n (Ix)

 Wall height (m)
 3.0

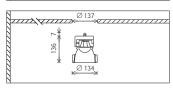
 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (k)
 115
 82
 62

47730.000 Reflector silver LED warm white LED 21W 1305Im 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg LMF D 日本 ⑩





Mean illuminance E_n (Ix)









Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Recess depth 150mm for DALI control gear.

 \bigcirc

LED

Available from 3rd quarter 2010
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Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (k)
 115
 82
 62

46831.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

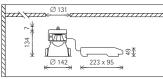
Covered mounting detail Weight 1.25kg LMF D

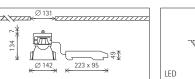
Covered mounting

Weight 1.25kg

detail

LMF D





Mean illuminance E_n (Ix)

 $\begin{array}{cccc} Wall \ height (m) & 3.0 \\ Offset \ from \ wall \ (m) & 0.60 & 0.90 & 0.90 \\ Luminaire \ spacing \ (m) & 0.90 & 0.90 & 1.20 \\ Illuminance \ E_n \ (k) & \mathbf{93} & \mathbf{66} & \mathbf{50} \end{array}$

449

46830.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

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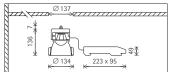
Quintessence Washlight with LED

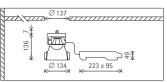
47833.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D

47832.000 Reflector silver LED warm white DALI detail LED 21W 1305lm 3200K Weight 1.25kg Version 1 LMF D LMF D







 ∇

LED

 Mean illuminance E_n (lx)

 Wall height (m)
 3.0
 0.90
 0.90
 0.90

 Offset from wall (m)
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 62

 Illuminance E_n (lx)
 115
 82
 62

Mean illuminance E_n (Ix)

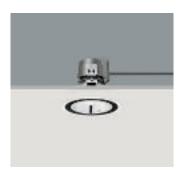
 Wall height (m)
 3.0

 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 93
 66
 50

Quintessence Washlight with LED and shadow gap







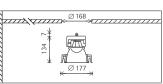
Size 5
Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction.
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.
Cable, L 500mm.

Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Reflector size 4, cutoff angle 40°.

off angle 40°. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 464

46737.000 Reflector silver LED daylight white LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑪





 Mean illuminance En (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.60
 0.90
 0.90

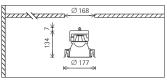
 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 115
 82
 62

46736.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

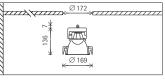
Covered mounting detail Weight 0.71kg LMF D 日本 ⑩





47727.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg LMF D 日本 ⊕





 Mean illuminance En (lx)

 Wall height (m)
 3.0

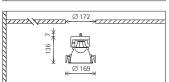
 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 115
 82
 62

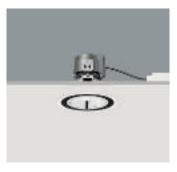
47726.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg LMF D 日本 ⑩





PLAY





Size 4 40° **DALI** PLUG+



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Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting Including DALI control gear with plug

and play connectivity. Through-wiring possible. 5-pole terminal block. . Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

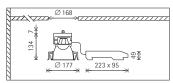
Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Reflector size 4, cutoff angle 40°

Available from 3rd quarter 2010

46839.000 Reflector silver LED daylight white DALI LÉD 21W 1620lm 5500K

Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg LMF D



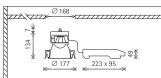


Mean illuminance E_n (Ix)

Wall height (m) 0.60 0.90 0.90 Offset from wall (m) Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (Ix)

46838.000 Reflector silver LED warm LED 21W 1305lm 3200K

Version 1 Wide diffuser: glass, frosted. Covered mounting detail Weight 1.37kg LMF D





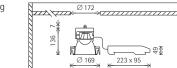
Mean illuminance E_n (lx) Wall height (m) 3.0

0.60 0.90 0.90 Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

47829.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D



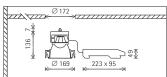


Mean illuminance E_n (lx) Wall height (m) 3.0

Offset from wall (m) 0.60 0.90 0.90 Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (Ix)

47828.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg IMF D





Mean illuminance E_n (lx) Wall height (m)

3.0 Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (lx) 93 66

Quintessence Washlight with LED







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

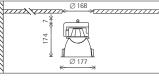
Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised

Darklight reflector with Spherolit tech-

nology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 464

46733.000 Reflector silver LED daylight white LÉD 28W 2160lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本①

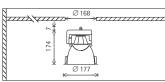




Mean illuminance E _n (lx)			
Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.2
Luminaire spacing (m)	0.90	1.20	1.20	1.5
Illuminance E _n (lx)	119	91	72	5

46732.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg IMF D 日本 ⑪





Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (lx)	119	91	72	58

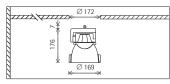
Mean illuminance E_n (lx) 4.0 Wall height (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 96 73 58

Quintessence Washlight with LED

47735.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩





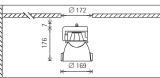
Mean illuminance En (Ix) Wall height (m) 40

0.90 0.90 1.20 1.20 Offset from wall (m) 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance En (Ix)

47734.000 Reflector silver LED warm LED 28W 1740lm 3200K

Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg 日本 ⑩





Mean illuminance E_n (lx)

Wall height (m) 4.0 Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 73 58





DALI

PLUG+ PLAY

Size 5 40°

Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for

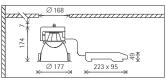
mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Available from 3rd quarter 2010

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46835.000 Reflector silver LED daylight white DALI LÉD 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D



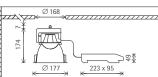


Mean illuminance E_n (lx)

Wall height (m) 0.90 0.90 1.20 1.20 Offset from wall (m) 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix)

46834.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D



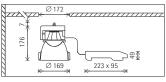


Mean illuminance E_n (lx)

Wall height (m) 40 Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance En (Ix)

47837.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg IMF D



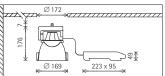


Mean illuminance E_n (lx)

Wall height (m) 4.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance En (Ix) 119 91 72 58

47836.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D





Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 73 58 96

Quintessence Double washlight with LED







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

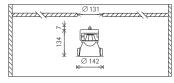
Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle Recess depth 150mm for installation

unit 83695.000 Control gear to be ordered separately. Available from 2nd quarter 2010

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46731.000 Reflector silver LED daylight white LÉD 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg IMF D 日本 ①





Mean illuminance En (Ix) Wall height (m) 3.0 Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix) 114 82 62

Quintessence Double washlight with LED

LED 21W 1305lm 3200K

Wide diffuser: glass, frosted.

Weight 1.25kg

LMF D

46730.000 Reflector silver LED warm Mean illuminance E_n (lx) Covered mounting white LED 21W 1305lm 3200K Wall height (m) 3.0 detail Weight 0.60kg LMF D Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Version 1 \Box Wide diffuser: glass, frosted. Illuminance E_n (Ix) LED Mean illuminance E_n (lx) 47733.000 Reflector silver LED day-Flush mounting Ø 137 Wall height (m) detail LED 21W 1620lm 5500K Weight 0.60kg Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) ∇ Wide diffuser: glass, frosted. Illuminance E_n (Ix) 日本 ⑩ LED 47732.000 Reflector silver LED warm Mean illuminance E_n (lx) Flush mounting Wall height (m) detail LED 21W 1305lm 3200K Weight 0.60kg LMF D 0.60 0.90 0.90 Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) Version 1 136 \bigcirc Wide diffuser: glass, frosted. Illuminance E_n (Ix) 日本 ⑩ LED Housing: cast aluminium, designed Accessories page 464 as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of Size 4 1-25mm with covered mounting detail 40° and 12.5-25mm with flush mounting DALI PLUG+ PLAY Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle Recess depth 150mm for DALI control gear. Available from 3rd guarter 2010 46833.000 Reflector silver LED day-Covered mounting Mean illuminance E_n (lx) Ø 131 Wall height (m) light white DALI detail Offset from wall (m) 0.60 0.90 0.90 LED 21W 1620lm 5500K Weight 1.25kg 0.90 0.90 1.20 Luminaire spacing (m) Version 1 IMF D \bigtriangledown 134 Illuminance E_n (lx) 114 82 62 Wide diffuser: glass, frosted. 223 x 95 Ø 142 LED Mean illuminance E_n (Ix) 46832.000 Reflector silver LED warm Covered mounting Ø 131 Wall height (m) detail Weight 1.25kg LMF D 0.60 0.90 0.90 LED 21W 1305lm 3200K Offset from wall (m) Luminaire spacing (m) 0.90 0.90 1.20 Version 1 \forall Illuminance E_n (lx) 66 Wide diffuser: glass, frosted. 223 x 95 Ø 142 LED 47835.000 Reflector silver LED day-Flush mounting Mean illuminance E_n (Ix) Ø 137 light white DALI Wall height (m) detail Offset from wall (m) 0.60 0.90 0.90 LED 21W 1620lm 5500K Weight 1.25kg 0.90 0.90 1.20 Luminaire spacing (m) Version 1 LMF D 136 Illuminance E_n (Ix) Wide diffuser: glass, frosted. 223 x 95 Ø 134 LED 47834.000 Reflector silver LED warm Flush mounting Mean illuminance En (Ix) Ø 137 white DALI Wall height (m) detail

223 x 95

LED

Ø 134

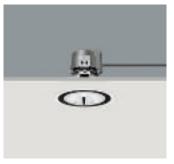
Offset from wall (m)

Illuminance E_n (lx)

Luminaire spacing (m)

0.60 0.90 0.90

0.90 0.90 1.20







Size 5
Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction.
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of

Mounting ring: plastic, white (RAL9002 Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

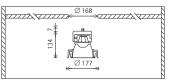
Cable, L 500mm.

Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Reflector size 4, cut-off angle 40°.

4, cut-off angle 40°. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 464

46739.000 Reflector silver LED daylight white LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑩





Mean illuminance E_n (lx)

 Wall height (m)
 3.0

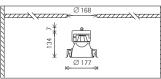
 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 114
 82
 62

46738.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑩





Mean illuminance E_n (Ix)

 Wall height (m)
 3.0

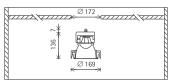
 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 92
 66
 50

47729.000 Reflector silver LED daylight white LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg LMF D 日本 ⑩





Mean illuminance E_n (lx)

 Wall height (m)
 3.0

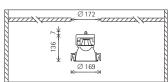
 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance E_n (lx)
 114
 82
 62

47728.000 Reflector silver LED warm white LED 21W 1305Im 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg LMF D 日本 ⑩



detail.



Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 92
 66
 50





DALI

PLUG+ PLAY

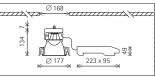


Size 5
Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of the beam direction.
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Reflector size 4, cut-off angle 40°. Available from 3rd quarter 2010 Accessories page 464

46841.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted. Covered mounting detail Weight 1.37kg LMF D

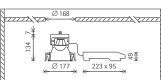




Mean illuminance E_n (lx)

46840.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg I MF D





Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.60
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance En (lx)
 92
 66
 50

47831.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

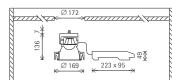
Flush mounting detail Weight 1.37kg LMF D

223 x 95 Ø 169

Mean illuminance E_n (lx) Wall height (m) 3.0 0.60 0.90 0.90 Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) Illuminance En (Ix)

47830.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg IMF D





 \Box

LED

Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Illuminance En (Ix)

Quintessence Double washlight with LED







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for

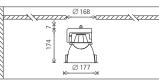
mixing light: aluminium, silver, mirror-finish anodised.

Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 464

46735.000 Reflector silver LED daylight white LÉD 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩

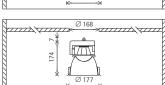




Mean illuminance E_n (Ix) Wall height (m) 40 Offset from wall (m) Luminaire spacing (m)

46734.000 Reflector silver LED warm white LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg IMF D 日本 ⑩

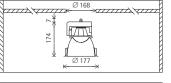




0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Illuminance E_n (Ix)

47737.000 Reflector silver LED davlight white LED 28W 2160lm 5500K Version 1

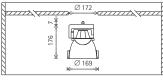
Flush mounting detail Weight 1.00kg LMF D





Mean illuminance E_n (lx) 4.0 Wall height (m) Offset from wall (m) 0.90 0.90 1.20 0.90 1.20 1.20 Luminaire spacing (m) Illuminance E_n (lx) 72 57

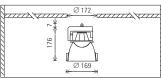
Wide diffuser: glass, frosted. 47736.000 Reflector silver LED warm 日本 ⑩





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (lx) 117 90 71

LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted. Flush mounting detail Weight 1.00kg IMF D 日本 ①





Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) 0.90 0.90 1.20 0.90 1.20 1.20 Luminaire spacing (m) Illuminance E_n (Ix)





PLUG+ PLAY



Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for

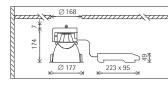
mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector with Spherolit technology wallwasher segments: alu-minium, bright anodised. Cut-off angle

Available from 3rd quarter 2010 Accessories page 464

46837.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D





Mean illuminance E_n (lx) 4.0 Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (lx) 117 90 71

Quintessence Double washlight with LED

46836.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1

Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D

Ø 168 174 223 x 95

 \Box LED

 ∇

Mean illuminance E_n (lx) Wall height (m) 40

Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) 0.90 1.20 1.20 Illuminance E_n (Ix)

47839.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D

Ø 172 9/1 223 x 95 LED Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m) 0.90 1.20 1.20 1.50 Illuminance E_n (Ix) 90 71

47838.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Flush mounting detail Weight 1.65kg LMF D Wide diffuser: glass, frosted.

223 x 95

 \bigcirc

LED

Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) 0.90 1.20 1.20 Illuminance E_n (Ix)

Quintessence Lens wallwasher with LED







Housing cast aluminium designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher reflector for mixing light: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Recess depth 150mm for installation unit 83695.000 Control gear to be ordered separately. Available from 2nd quarter 2010

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46749.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1

Covered mounting detail Weight 0.60kg IMF D 日本 ⑩

Ø 131 Ø 131



Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m)

110

Illuminance E_n (Ix)

46748.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1

Covered mounting detail Weight 0.60kg 日本 ⑩

Ø 131



Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

47747.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1

Flush mounting detail Weight 0.60kg LMF D 日本 ⑩

Ø 137 126



LED

Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

47746.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1

Flush mounting detail Weight 0.60kg IMF D 日本 ⑩

Ø 137

Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

Quintessence Lens wallwasher with LED





PLUG+ PLAY



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Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting Including DALI control gear with plug

and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher reflector for mixing light: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle

Recess depth 150mm for DALI control Available from 3rd quarter 2010

Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20

46852.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1

Covered mounting detail Weight 1.25kg LMF D

Ø 131 ⊋223 x 95



Illuminance E_n (Ix)

46851.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1

Covered mounting detail Weight 1.25kg IMF D

Ø 131 223 x 95 €



Mean illuminance E_n (lx) Wall height (m) 3.0 Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

47850.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1

Flush mounting detail Weight 1.25kg LMF D

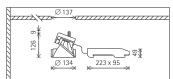
Ø 137 223 x 95 Ø 134



Mean illuminance E_n (Ix) Wall height (m) 3.0 Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

47849.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1

Flush mounting detail Weight 1.25kg IMF D





Mean illuminance E_n (lx) Wall height (m) 3.0 Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (lx) 88

Quintessence Lens wallwasher with LED and shadow gap







Size 5 Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher reflector for mixing light: aluminium, silver, mirror-finish anodised.

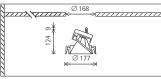
Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Reflector size 4, cut-off angle 40°.

Control gear to be ordered separately. Available from 2nd quarter 2010

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46753.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1

Covered mounting detail Weight 0.71kg IMF D 日本 ⑩

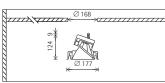




Mean illuminance En	(lx)	
Wall height (m)	3.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	110	66

46752.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1

Covered mounting detail Weight 0.71kg IMF D 日本 ⑩



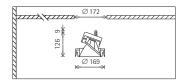
	7	
LED		

Mean illuminance En	(lx)	
Wall height (m)	3.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	88	54

Quintessence Lens wallwasher with LED and shadow gap

47751.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1

Flush mounting detail Weight 0.71kg LMF D 日本 ⑩

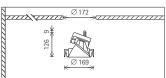




Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (lx)

47750.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1

Flush mounting detail Weight 0.71kg 日本 ⑩





Mean illuminance E_n (lx) Wall height (m) 3.0

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Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)





PLUG+ PLAY





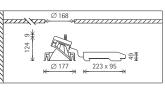
Size 5 Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher reflector for mixing light: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright Darkingfit felicecof. additionally original anodised, with upper wallwasher lens designed as safety glass. Reflector size 4, cut-off angle 40°. Available from 3rd quarter 2010

46856.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K

Version 1

Covered mounting detail Weight 1.37kg LMF D

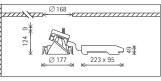




Mean illuminance E_n (Ix) Wall height (m) 3.0 Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (lx)

46855.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1

Covered mounting detail Weight 1.37kg IMF D

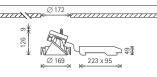




Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (lx) 88

47854.000 Reflector silver LED davlight white DALI LED 21W 1620lm 5500K Version 1

Flush mounting detail Weight 1.37kg LMF D

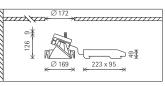




Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix) 110

47853.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1

Flush mounting detail Weight 1.37kg LMF D





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

Quintessence Lens wallwasher with LED







Housing: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

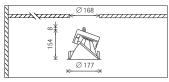
Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher reflector for mixing light: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 464

46751.000 Reflector silver LED day-LED 28W 2160lm 5500K Version 1

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩





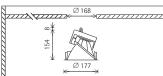
Mean illuminance E_n (Ix) Wall height (m) 40

Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

46750.000 Reflector silver LED warm LED 28W 1740lm 3200K

Version 1

Covered mounting detail Weight 1.00kg IMF D 日本①



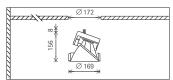


Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

47749.000 Reflector silver LED daylight white LÉD 28W 2160lm 5500K Version 1

Flush mounting detail Weight 1.00kg 日本 ⑩



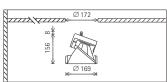


Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m) 0.90 1.20

Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

47748.000 Reflector silver LED warm white LED 28W 1740lm 3200K Version 1

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩





Mean illuminance E_n (Ix)

Wall height (m) 4.0 Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)





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Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing ring: plastic, black. Fixing of the beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

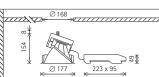
Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher

reflector for mixing light: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle

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46854.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1

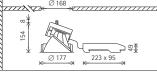
Covered mounting detail Weight 1.65kg LMF D





46853.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K

Covered mounting detail Weight 1.65kg





Mean illuminance E _n	(lx)	
Wall height (m)	4.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	147	96

Version 1

LMF D

Ø 168 154 ే చి 223 x 95 Ø 177



Mea	n illuminance E _n	(lx)	
Wall	height (m)	4.0	
Offse	et from wall (m)	0.90	1.20
Lumi	naire spacing (m)	0.90	1.20
Illum	inance E _n (lx)	118	78

47852.000 Reflector silver LED daylight white DALI LÉD 28W 2160lm 5500K Version 1

Flush mounting detail Weight 1.65kg LMF D

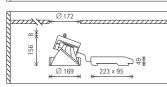
Ø 172 156 223 x 95 Ø 169



Mean illuminance E _n	(lx)	
Wall height (m)	4.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	147	96

47851.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1

Flush mounting detail Weight 1.65kg LMF D





vvan neight (m)	4.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	147	96

Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (lx) 118

Quintessence Lens wallwasher 4-channel varychrome with LED









156

Ø 177

Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity for ERCO 4channel varychrome colour mixing. Through-wiring possible. 5-pole ter-

Replaceable LED module: high-power LEDs on metal-core PCB. Wallwasher reflector for mixing light: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle

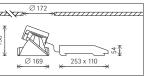
Only use with Light Server 64+, from

LED

version 5, and the Light Studio software, from version 5. Available from 3rd quarter 2010 Accessories page 464

Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance En (Ix)



Ø 168

253 x 110



Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

46850.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm

Version 1 Colour compensation for precise light colour.

47848.000 Reflector silver LED red. green, blue, warm white 4-channel DALI LED 28W 870lm Version 1

Colour compensation for precise light

colour.

Flush mounting detail Weight 1.90kg LMF D

Covered mounting

detail Weight 1.90kg LMF D

Quintessence Directional luminaire with LED







Housing: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360° Lockable angles of tilt and rotation. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Replaceable LED module: high-power LEDs on metal-core PCB. Control gear to be ordered separately.

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46755.000 Reflector silver LED dayliaht white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 0.90kg LMF D 日本 ⑩

Ø 168





E(Ix) D(m) h(m) 11092 0.26 2773 0.53 1232 0.79 1.05 444 1.32

46754.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens,

plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 0.90kg IMF D 日本 ⑪

LED



8935 0.26 2234 0.53 993 0.79 558 357 1.32 h(m) E(Ix) D(m)

E(Ix) D(m)

h(m)

47753.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens,

plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 0.90kg LMF D 日本 ⑩

LED



15° 11092 0.26 2773 0.53 3 1232 0.79 1.05 444 1.32 E(Ix) D(m)

> 993 0.79

357 1.32

0.26

0.53

1.05

47752.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 0.90kg IMF D 日本 ⑩

Ø 169



h(m) 8935 2234 3

Quintessence Directional luminaire with LED

46757.000 Reflector silver LED day- light white LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 0.90kg LMF D 日本 �	Ø 168 Ø 177	LED	h(m) E(lx) D(m) 26° 1 4039 0.46 2 1010 0.92 3 449 1.39 4 252 1.85 5 162 2.31
46756.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 0.90kg LMF D 日本 參	Ø 168 Ø 177 Ø 177	LED	h(m) E(lx) D(m) 26° 1 3253 0.46 2 813 0.92 3 361 1.39 4 203 1.85 5 130 2.31
47755.000 Reflector silver LED day- light white LED 21W 1620Im 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Flush mounting detail Weight 0.90kg LMF D 日本 參	20172 20172 20169,	LED	h(m) E(lx) D(m) 26° 1 4039 0.46 2 1010 0.92 3 449 1.39 4 252 1.85 5 162 2.31
47754.000 Reflector silver LED warm white LED 21W 1305Im 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Flush mounting detail Weight 0.90kg LMF D 日本 參	20 172 20 169 20 169	LED	h(m) E(lx) D(m) 26° 1 3253 0.46 2 813 0.92 3 361 1.39 30° 6000 cd 30° 5 130 2.31
	DALI PLUG+ PLAY	black, rotatable thro	onnection cable It. Fixing ring: plastic, ough 360°. Lockable station. Stic, white (RAL9002). g thicknesses of red mounting detail th flush mounting crol gear with plug ty. Through-wiring minal block. aluminium, bright	Replaceable LED module: high-power LEDs on metal-core PCB. Available from 3rd quarter 2010 Accessories page 465
46858.000 Reflector silver LED day- light white DALI LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Covered mounting detail Weight 1.55kg LMF D	Ø 168 Ø 177 Ø	LED	h(m) E(lx) D(m) 15° 15° 1 11092 0.26 2 2773 0.53 2 2773 0.53 3 1232 0.79 4 693 1.05 30° 14000 cd 30° 5 444 1.32
46857.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Covered mounting detail Weight 1.55kg LMF D	Ø 168 Ø 177 Ø	LED	h(m) E(lx) D(m) 15° 1 8935 0.26 2 2234 0.53 3 993 0.79 4 558 1.05 5 357 1.32
47856.000 Reflector silver LED day- light white DALI LED 21W 1620Im 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Flush mounting detail Weight 1.55kg LMF D	2172 20172 20169 223 x 95	LED	h(m) E(lx) D(m) 15° 11 11092 0.26 2 2773 0.53 3 1232 0.79 4 693 1.05 5 444 1.32
47855.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Flush mounting detail Weight 1.55kg LMF D	Ø 172 Ø 169 223 x 95	LED	h(m) E(lx) D(m) 15° 1 8935 0.26 2 2234 0.53 3 993 0.79 4 558 1.05 5 357 1.32
46860.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 1.55kg LMF D	Ø 168 Ø 177 Ø	LED	h(m) E(lx) D(m) 26° 1 4039 0.46 2 1010 0.92 3 449 1.39 4 252 1.85 5 162 2.31
46859.000 Reflector silver LED warm white DALI LED 21W 1305Im 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 1.55kg LMF D	Ø 168 Ø 177 Ø	LED	h(m) E(lx) D(m) 26° 1 3253 0.46 2 813 0.92 3 361 1.39 4 203 1.85 5 130 2.31

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Quintessence Directional luminaire with LED

47858.000 Reflector silver LED day-light white DALI LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

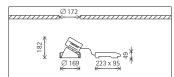
47857.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K

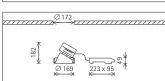
Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Flush mounting detail Weight 1.55kg LMF D

Flush mounting

detail Weight 1.55kg LMF D

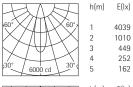






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LED



6000 cd 30 1	5	162	2.31
	h(m)	E(Ix)	D(m)
,60° X 60° ,	1	3253	0.46
\times / \square \ \times \	2	813	0.92
V7++V	3	361	1.39
	4	203	1.85
6000 cd 30°	5	130	2.31

D(m)

26° 0.46

0.92

1.85

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Washlights		635	997.100 935	91,00	693.000	636,000	9A,000	935,000	939	916.000	950 igo 939	180,00
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Double washlights		\$5°	937.00	91,00	93.00	98,00	94.000	95,00	97100	916,00	350,000	380.00°
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Directional lumi	naires	635	83 ^{2,000}	83 ¹ 000	93.00	98.00	834.100 835	975.100	97,000	916:000	950.000 935.	80.00
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83696,000



83692.000 Control gear for LED 220-240V, 50-60Hz. 700mA, 17W, switchable. Max. ambient temperature of 50°C. Secondary voltage 2-25V. Installation also in furniture. Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010 Weight 0.08kg 83691.000 Control gear for LED 220-240V, 50-60Hz. 700mA, 25W, switchable. Max. ambient temperature of 50°C. Secondary voltage 3-30V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010 Weight 0.52kg 83693.000 Installation unit, dimmable for LED 220-240V, 50-60Hz. 700mA, max. 36W. Max. ambient temperature of 50°C. Secondary voltage up to 48V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Use dimmer in trailing edge technology. Available from 2nd quarter 2010 Weight 0.52kg

Control gear for LED 220-240V, 50-60Hz. 700mA, 36W, switchable. Max. ambient temperature of 50°C. Secondary voltage 8-48V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010 Weight 0.52kg



83694.000

DALI control gear

for LED 220-240V, 50-60Hz. 700mA, 17W. Max.

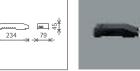
Housing: metal, black, powder-coated. 5-pole terminal block. Through-wiring possible. Short-circuit protection:

electronic overload protection. Available from 2nd quarter 2010 Weight 0.56kg

ambient temperature of 50°C.

DALI

















83816.000 DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg



82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83980.000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

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Quintessence round for low-voltage halogen lamps



The system design of Quintessence provides a wide range of recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. A special feature of the Quintessence range is the many options available for the installation detail. All luminaires are available with a covered or flush mounting detail. There are three options available for the luminaire edge: direct transition from ceiling to luminaire, shadow gap or even a varychrome ring illuminated in any required colour. Simple mounting makes for a highly economical installation.

The range for low-voltage halogen lamps with round recessed ceiling luminaires includes double-focus downlights, downlights, washlights, double washlights, lens wallwashers and directional luminaires. Low-voltage halogen lamps produce brilliant light, while their continuous spectrum results in excellent colour rendition. Dimming the light causes the light spectrum to shift towards the range of longer wavelengths. The halogens in the gas filling of the glass bulb increase the performance of the

lamp and improve its service life. The DALI-compatible luminaires have digital control gear which can address each luminaire individually for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Fitted with low-voltage halogen lamps, Quint-essence lens wallwashers, downlights and directional luminaires ensure maximum visual comfort and optimal colour rendition.

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Quintessence round for low-voltage halogen lamps



The round Quintessence recessed ceiling luminaires for low-voltage halogen lamps are available in versions with different light distributions, cut-off angles, reflector sizes, luminaire edges and installation details. The spectrum of light distributions includes double-focus downlights, downlights, washlights, double washlights, lens wallwashers and directional luminaires. Depending on the requirements as to visual comfort and recess depth, Quintessence includes cut-off angles of 30° or 40°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The two different mounting rings can be used either as a covered or a flush mounting detail. There are three options available for the luminaire edge: the conventional joint between ceiling and luminaire edge, shadow gap and varychrome ring. All Quintessence luminaires have

are designed to provide optimum thermal properties according to their particular technical requirements. The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The aluminium reflector is mirror-finish silver anodised. The transfomers required are available as accessories. The separate mounting ring supplied allows efficient installation on the construction

Double-focus downlights



The lighting technology with double focus allows for a minimal light aperture. The double-focus downlights thus are available in size 2 with a cut-off angle of 40° for low-voltage halogen lamps up to 90W.

aluminium cooler housings which

Application

Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 3 to 5 with a cut-off angle of 30° or 40° for 100W lowvoltage halogen lamps. Lighting options for downlights include versions with wide diffuser for wide beam light distribution, with focal diffuser for increased brilliance in the centre, and with narrow diffuser for narrow to medium wide light distribution.

Application

Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas

Washlights



The washlights are available in sizes 4 and 5 for low-voltage halogen lamps up to 100W. The darklight reflector has a special wallwasher segment in Spherolit technology for illuminating walls whilst simultaneously lighting the room.

Application

Asymmetrical light distribution, directed downwards and for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

Double washlights



The double washlights are available in sizes 4 and 5 for low-voltage halogen lamps up to 100W. The Spherolit reflector has two special wallwasher segments for uniformly illuminating parallel walls whilst simultaneously lighting the room.

Application

Axially symmetrical light distribution for illumination of parallel walls including corridors and hallways

Quintessence round for low-voltage halogen lamps

Lens wallwashers



The Quinessence lens wallwashers have special wallwasher reflectors with Spherolit segments. The lens wallwasher produces uniform light distribution over the whole wall. The range of lens wallwashers comprises luminaires in sizes 4 and 5 low-voltage halogen lamps up to 100W.

Application

Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Focal lens wallwashers



The Quinessence focal lens wallwashers have special wallwasher reflectors with Spherolit segments. Due to special spherolites, the focal lens wallwasher produces a focal emphasis in the upper area of the wall. The range of focal lens wallwashers comprises luminaires in sizes 4 and 5 for low-voltage halogen lamps up to 100W.

Application

Asymmetrical light distribution for wall lighting with focal emphasis, for applications including sales and promotional areas as well as trade fair stands and exhibitions.

Directional luminaires



The Quintessence directional luminaires are available with spot or flood Spherolit reflector. The luminaires above the darklight reflector with a cut-off angle of up to 40° can be tilted up to 30° and rotated through 360°. The range comprises luminaires in sizes 3 to 5 for low-voltage halogen lamps up to 100W.

ApplicationRotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Application areas include museums, trade fair stands, exhibitions, sales areas and promotional areas.

469

Quintessence round for low-voltage halogen lamps



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range allows many different versions to be produced by combining the mounting detail and the luminaire edge. Accessories such as lenses and filters allow the light to be adjusted to suit specific requirements. The incorporation of digitally controlla-ble DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mounting rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Double-focus downlight Downlight



Washlight



Double washlight



Lens wallwasher Focal lens wallwasher



Directional luminaire



Colour tempera-

ture and colour rendition The light from

low-voltage hal-

ogen lamps pro-

duces a continuous spectrum.

These lamps are

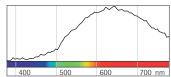
ideal for lighting

tasks where optimum colour ren-

dition is required,

such as museums.



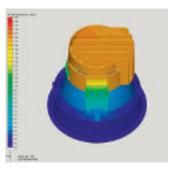




Good heat
management in
the luminaire is
crucial for continnous operation, allowing the
lamps to emit
their full power
throughout their
entire life. It is
the design, construction and
material of the
housing that
all contribute
to optimal heat
management.
Extensive simu-



lations and tests during the development phase ensure the success of all the products in the range.





The contact surfaces between the lampholder and the luminaire housing combined with the thermally conductive metal plate on the lamp cap efficiently conduct the heat of the low-voltage halogen lamp, channelling it away to the housing.

Quintessence Double-focus downlight for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

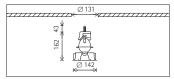
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

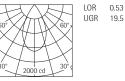
Ellipsoidal reflector: aluminium, bright anodised. Diffuser: glass, frosted. Darklight reflector: aluminium, bright anodised. Reflector size 2, cut-off angle Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46069.000 Reflector silver QT12-ax 90W 12V GY6.35 1800lm

Covered mounting detail Weight 0.55kg LMF D 日本 ⑩ 卿

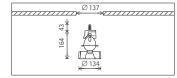




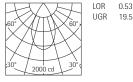


47029.000 Reflector silver QT12-ax 90W 12V GY6.35 1800lm

Flush mounting detail Weight 0.55kg LMF_D 日本⑩爲







Number of luminaires per 100m² for

		100lx	200lx	300lx	500lx	
46069.000	90 W	10	20	30	49	
47029.000	90 W	10	20	30	49	

Illuminance E_n (lx) for module (m)

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46069.000	90 W	474	316	237	178
47029.000	90 W	474	316	237	178

Connected load without control gear 46069.000 90 W 47029.000

Connected load per 100lx without control gear 46069.000 P*: 8.79 W/m² 47029.000 8.79 W/m² Number of luminaires per 100lx

46069.000 9.77 1/100m² 47029.000 9.77 1/100m²





PLUG+

PLAY



Size 4 Lampholder carrier: cast aluminium, designed as heat sink, with connection

cable L 500mm. Fixing ring: plastic, black

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

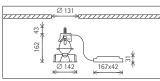
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Ellipsoidal reflector: aluminium, bright anodised. Diffuser: glass, frosted.

Darklight reflector: aluminium, bright anodised. Reflector size 2, cut-off angle

Accessories page 496

46229.000 Reflector silver DALI QT12-ax 90W 12V GY6.35 1800lm

Covered mounting detail Weight 0.73kg LMF D 日爵



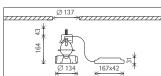




0.53 UGR

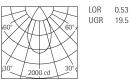
47229.000 Reflector silver DALI QT12-ax 90W 12V GY6.35 1800lm

Flush mounting detail Weight 0.73kg LMF D





47229.000



Number	of	luminaires	per	100m ²	for
					_

		100lx	200lx	300lx	500lx
46229.000	90 W	10	20	30	49
47229.000	90 W	10	20	30	49

Illuminance	Łn	(IX)	tor	module	(m
				1.2x1.8	
46229 000	C	n v	V	474	

	1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
90 W	474	316	237	178
90 W	474	316	237	178

Connected load 46229 000 95 W 47229.000 95 W

Connected load per 100lx 46229 000 9.28 W/m² 47229.000 9.28 W/m² Number of luminaires per 100lx 46229 000 9.77 1/100m² 9.77 1/100m² 47229.000

471







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

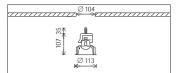
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

ised.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46001.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩ 爲



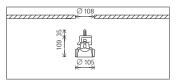




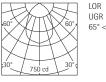
LOR 0.48 UGR 22.3 65° < 200 cd/m²

47001.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg LMF D 日本 ⑩ 爲



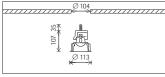




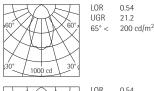
UGR 0.48 UGR 22.3 65° < 200 cd/m²

46000.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted.

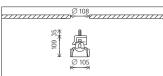
Covered mounting detail Weight 0.40kg LMF D 日本 ⑩ இ



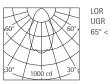




47000.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.40kg LMF D 日本 ⑩ இ







LUK	0.54
UGR	21.2
65° <	200 cd/m ²

					7
Number	of	luminaires	per	100m ²	f
				INNIV	

		100lx	200lx	300lx	500lx		
46001.000	50 W	17	33	49	82		
47001.000	50 W	17	33	49	82		
46000.000	50 W	15	29	44	72		
47000.000	50 W	15	29	44	72		

Illuminance	E _n (lx) fo	r module (m)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46001.000	50 W	285	190	143	107
47001.000	50 W	285	190	143	107
46000.000	50 W	322	215	161	121
47000 000	50 W	322	215	161	121

Connected lo without cont		ır
46001.000	P:	50 W
47001.000	P:	50 W
46000.000	P:	50 W
47000.000	P:	50 W

Conne	ected lo	oad per	100lx	
witho	ut cont	rol gea	ır	
46001	.000	P*:	8.11 W/m ²	
47001	.000	P*:	8.11 W/m ²	
46000	0.000	P*:	7.19 W/m ²	
47000	0.000	P*:	7.19 W/m ²	

Number of tu	iiiiiaii C.	s per room
46001.000	n*:	16.22 1/100m ²
47001.000	n*:	16.22 1/100m ²
46000.000	n*:	14.38 1/100m ²
47000 000	n*·	14.38 1/100m ²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

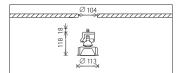
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Cable, L 500mm.

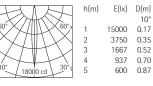
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46002.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

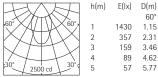
Covered mounting detail Weight 0.40kg LMF D 日本 ⑩ இ



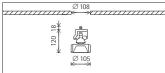




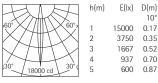




47002.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60° Flush mounting detail Weight 0.40kg LMF D 日本 ⑩ 爲







D(m)

60°

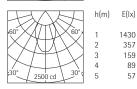
1.15

2.31

159 3.46 89 4.62

57 5.77





Quintessence Downlight with shadow gap for low-voltage halogen lamps







Size 4 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, bright

anodised. Reflector size 3, cut-off angle 30°

Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 496**

46004.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg LMF D 日本 ⑩ 魯

(5131) (5131) (5131) (5131) (5131) (5131)





UGR 0.48 UGR 22.3 65° < 200 cd/m²

47004.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted. Flush mounting detail Weight 0.48kg LMF D 日本 ⑩ இ Ø 137 Ø 134 Ø 134

QT12-ax-RE

60°,

LOR 0.48 UGR 22.3 65° < 200 cd/m²

473

Quintessence Downlight with shadow gap for low-voltage halogen lamps

46003.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted.

47003.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted.

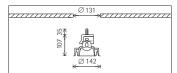
Covered mounting detail Weight 0.48kg LMF D 日本⑩爲

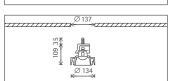
Flush mounting

Weight 0.48kg LMF D

detail

日本⑩爲









LOR UGR 212 200 cd/m² 65° <

LOR UGR 21.2 200 cd/m² 65° <

Number of	luminaires	per 100m ²	to
		100lx	2
46004.000	50 W	17	
17001000			

		100lx	200lx	300lx	500lx	
6004.000	50 W	17	33	49	82	
7004.000	50 W	17	33	49	82	
6003.000	50 W	15	29	44	72	
7003.000	50 W	15	29	44	72	

GITE GX III			\rightarrow
Illuminance E _n	(lx) for	module	(m)
		1.2x1.8	1

OT12-ay-RF

mummance En (ix) for module (iii)					
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46004.000	50 W	285	190	143	107
47004.000	50 W	285	190	143	107
46003.000	50 W	322	215	161	121
47003.000	50 W	322	215	161	121

46003.000

47003.000

Connected lo	ad	
without cont	rol gea	ır
46004.000	P:	50 W
47004.000	P:	50 W
46003.000	P:	50 W
47003.000	P:	50 W

Connected load per 100lx without control gear 46004.000 P*-8.11 W/m² 8.11 W/m² 47004.000 46003.000 7.19 W/m² 47003.000 7.19 W/m²

Number of luminaires per 100lx 46004 000 16.22 1/100m² 16.22 1/100m² 47004.000 n*:







Size 4 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, bright anodised. Reflector size 3, cut-off angle

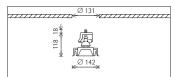
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

14.38 1/100m²

14.38 1/100m²



Covered mounting detail Weight 0.48kg LMF D 日本 ⑩ 卿







E(Ix) D(m) h(m) 10° 15000 0.17 3750 0.35 1667 0.52 937 0.70 600 0.87







10°

0.17

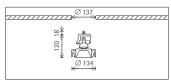
0.52

0.70

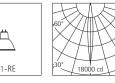
0.87

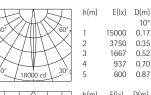
47005.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Flush mounting detail Weight 0.48kg LMF D 日本 ⑩ 卿













h(m)	E(Ix)	D(m) 60°
1	1430	1.15
2	357	2.31
3	159	3.46
4	89	4.62
5	57	5.77







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm.

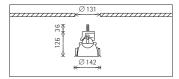
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46012.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿







UGR 21.3 200 cd/m² 65° <

47012.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿

Ø 137



UGR

0.58 21.3 200 cd/m² 65° <

46023.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.45kg LMF D 日本⑩爲

Ø 131 Ø 142



LOR UGR 65° <

0.60 20.1 200 cd/m²

47023.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.45kg LMF D 日本 ⑩ 爲

Ø 137

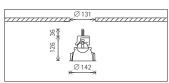




0.60 UGR 20.1 200 cd/m² 65° <

46011.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿



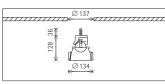




LOR 0.63 UGR 200 cd/m² 65° <

47011.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本⑩卿







447

447

0.63 UGR 20.3 200 cd/m² 65° <

252

252

6.90 1/100m²

Number	of	luminaires	per	100m ²	for
				100lx	2

		100lx	200lx	300lx	500lx	
46012.000	100 W	8	16	23	38	
47012.000	100 W	8	16	23	38	
46023.000	100 W	8	15	22	37	
47023.000	100 W	8	15	22	37	
46011.000	100 W	7	14	21	35	
47011.000	100 W	7	14	21	35	

Illuminance	E _n (lx) for	modu
		1.2x
46012.000	100 W	6
47012.000	100 W	6
46023.000	100 W	6
47023.000	100 W	6

100 W

100 W

671

671

47011.000

46011.000

47011.000

30°	1500 cd	30°	
ule (m)		
x1.8	1.8x1.8	1.8x2.4	2.4x2.4
611	407	305	229
611	407	305	229
641	427	320	240
641	427	320	240

336

336

Connected load without control gear				
46012.000	P:	100 W		
47012.000	P:	100 W		
46023.000	P:	100 W		
47023.000	P:	100 W		
46011.000	P:	100 W		
47011.000	P:	100 W		

Connected lo		
46012.000	P*:	7.58 W/m ²
47012.000	P*:	7.58 W/m ²
46023.000	P*:	7.23 W/m ²
47023.000	P*:	7.23 W/m ²
46011.000	P*:	6.90 W/m ²
47011.000	P*:	6.90 W/m ²

Number of fu	IIIIIIaiies	per rootx
46012.000	n*:	7.58 1/100m ²
47012.000	n*:	7.58 1/100m ²
46023.000	n*:	7.23 1/100m ²
47023.000	n*:	7.23 1/100m ²
46011.000	n*:	6.90 1/100m ²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm.

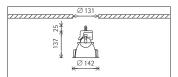
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

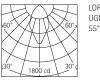
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46014.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿



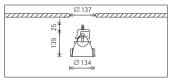




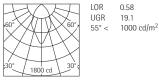
UGR 1000 cd/m² 55° <

47014.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg IMF D 日本 ⑩ 卿

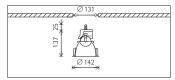




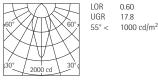


46024.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.45kg 日本⑩爲

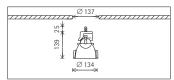






47024.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿

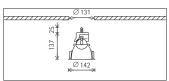




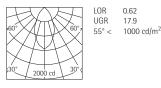


46013.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本⑩卿

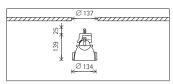




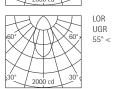


47013.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本⑩爲







I	LOR	0.62
\angle	UGR	17.9
60°	55° <	1000 cd/m ²
\sim		
$\backslash \backslash$		
$\overline{}$		

Number	of	luminaires	per	$100m^{2}$	for
--------	----	------------	-----	------------	-----

		100lx	200lx	300lx	500lx	
16014.000	75 W	11	22	32	53	
17014.000	75 W	11	22	32	53	
16024.000	75 W	11	21	31	51	
17024.000	75 W	11	21	31	51	
16013.000	75 W	10	20	30	49	
17013.000	75 W	10	20	30	49	

Illuminance E _n (lx) for module (m)					
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46014.000	75 W	438	292	219	164
47014.000	75 W	438	292	219	164
46024.000	75 W	457	305	229	172
47024.000	75 W	457	305	229	172
46013.000	75 W	476	317	238	178
47013.000	75 W	476	317	238	178

46014.000 P: 75 W
47014.000 P: 75 W
46024.000 P: 75 W
47024.000 P: 75 W
46013.000 P: 75 W
47013.000 P: 75 W

Connected lo		
46014.000	P*:	7.93 W/m ²
47014.000	P*:	7.93 W/m ²
46024.000	P*:	7.59 W/m ²
47024.000	P*:	7.59 W/m ²
46013.000	P*:	7.30 W/m ²
47013.000	P*:	7.30 W/m ²

Number of luminaires per 100lx					
10.58 1/100m ²					
10.58 1/100m ²					
10.12 1/100m ²					
10.12 1/100m ²					
9.73 1/100m ²					
9.73 1/100m ²					

Quintessence Downlight with shadow gap for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

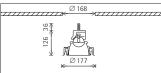
Darklight reflector: aluminium, bright

anodised. Reflector size 4, cut-off angle

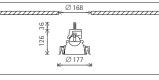
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46016.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

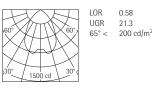
Covered mounting detail Weight 0.56kg LMF D 日本 ⑩ 卿





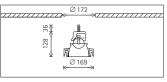




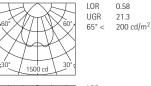


47016.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.56kg LMF D 日本 ⑩ 卿

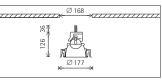




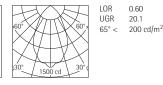


46025.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.56kg LMF D 日本⑩爲

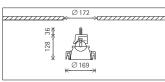




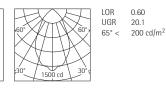


47025.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.56kg LMF D 日本 ⑩ 孫

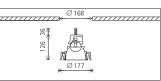




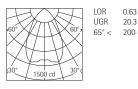


46015.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.56kg LMF D 日本 ⑩ ட



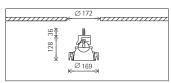




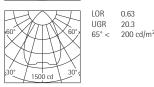
200 cd/m²

47015.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.56kg LMF D 日本⑩原







		100lx	200lx	300lx	500lx
46016.000	100 W	8	16	23	38
47016.000	100 W	8	16	23	38
46025.000	100 W	8	15	22	37
47025.000	100 W	8	15	22	37
46015.000	100 W	7	14	21	35
47015.000	100 W	7	14	21	35

illuminance	c _n (ix) for	module (m)
		1.2x1.8	1.8x1.8
46016.000	100 W	611	407
47016.000	100 W	611	407
46025.000	100 W	641	427
47025.000	100 W	641	427
46015.000	100 W	671	447
47015.000	100 W	671	447

30°	1500 cd	30°		
dule (m)			
2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
611	407	305	229	
611	407	305	229	
641	427	320	240	
641	427	320	240	
671	447	336	252	

336

252

Connected lo		ar
46016.000	P:	100 W
47016.000	P:	100 W
46025.000	P:	100 W
47025.000	P:	100 W
46015.000	P:	100 W
47015.000	P:	100 W

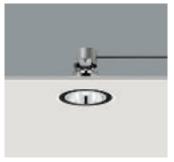
Number of luminaires per 100m2 for

Connected lo		
46016.000	P*:	7.58 W/m ²
47016.000	P*:	7.58 W/m ²
46025.000	P*:	7.23 W/m ²
47025.000	P*:	7.23 W/m ²
46015.000	P*:	6.90 W/m ²
47015.000	P*:	6.90 W/m ²

46016.000	n*:	7.58 1/100m ²
47016.000	n*:	7.58 1/100m ²
46025.000	n*:	7.23 1/100m ²
47025.000	n*:	7.23 1/100m ²
46015.000	n*:	6.90 1/100m ²
47015.000	n*:	6.90 1/100m ²

Number of luminaires per 100lx

Quintessence Downlight with shadow gap for low-voltage halogen lamps







Size 5 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

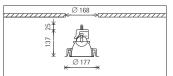
Darklight reflector: aluminium, bright

anodised. Reflector size 4, cut-off angle

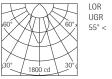
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46018.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.56kg LMF D 日本 ⑩ 卿



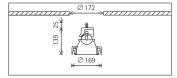




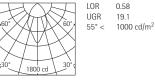
1000 cd/m²

47018.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.56kg LMF D 日本 ⑩ 卿

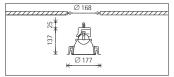






46026.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.56kg 日本⑩爲

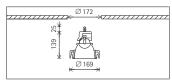






47026.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.56kg LMF D 日本⑩魚

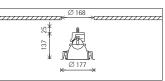




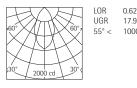


46017.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.56kg IMF D 日本⑩卿







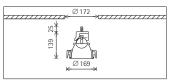
1000 cd/m² 0.62

17.9

1000 cd/m²

47017.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.56kg 日本⑩爲



	-
QT12-ax	

	LOR
	UGR
60°	55° <
1/444/1	
30° 2000 cd 30°	
7	

Number of lu	minaires pe	r 100m²	for
		100lx	2
46018.000	75 W	11	

		100lx	200lx	300lx	500lx
46018.000	75 W	11	22	32	53
47018.000	75 W	11	22	32	53
46026.000	75 W	11	21	31	51
47026.000	75 W	11	21	31	51
46017.000	75 W	10	20	30	49
47017.000	75 W	10	20	30	49

Illuminance	E_n (lx) for	· module (ı	m)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46018.000	75 W	438	292	219	164
47018.000	75 W	438	292	219	164
46026.000	75 W	457	305	229	172
47026.000	75 W	457	305	229	172
46017.000	75 W	476	317	238	178
47017.000	75 W	476	317	238	178

Connected lo	ad		Connected Ic	ad per	100lx	
vithout cont	rol gea	ar	without cont	rol gea	ar	
6018.000	P:	75 W	46018.000	P*:	7.93 W/m ²	
7018.000	P:	75 W	47018.000	P*:	7.93 W/m ²	
6026.000	P:	75 W	46026.000	P*:	7.59 W/m ²	
7026.000	P:	75 W	47026.000	P*:	7.59 W/m ²	
6017.000	P:	75 W	46017.000	P*:	7.30 W/m ²	
7017.000	P:	75 W	47017.000	P*:	7.30 W/m ²	

Number of luminaires per 100lx 10.58 1/100m² 46018.000 47018.000 10.58 1/100m² 46026.000 10.12 1/100m² 47026,000 n* 10.12 1/100m² 46017.000 n* 9.73 1/100m² 47017.000 9.73 1/100m²

Quintessence Downlight with varychrome ring for low-voltage halogen lamps

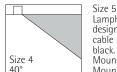




DALI PLUG+

PLAY





Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic,

black

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Peripheral varychrome ring: plastic, white (RAL9010). Revisable LED module, with connection cable, L 500mm. Including DALI control gear with plug and play connectivity for ERCO varychrome colóur mixing. 4-pole terminal block.

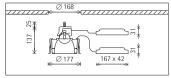
Through-wiring possible. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle

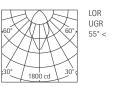
Accessories page 496

46022.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.20kg LMF D 日本 ⑩ 卿







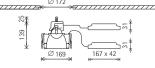
0.58

19.1

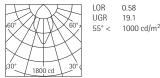
1000 cd/m²

47022.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.20kg LMF D 日本⑩爲

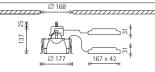




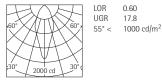


46028.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ டி

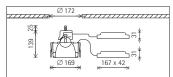




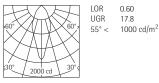


47028.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 1.20kg LMF D 日本 ⑩ 卿

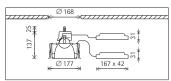




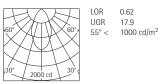


46021.000 Reflector silver DALI OT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Narrow diffuser: glass, frosted.

Covered mounting detail Weight 1.20kg LMF D 日本⑩魚







0.62

178

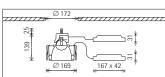
1000 cd/m²

47021.000 Reflector silver DALL QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Narrow diffuser: glass, frosted.

Flush mounting detail Weight 1.20kg 日本命命

4602

4702





75 W

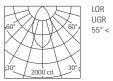
75 W

75 W

75 W

75 W

476



Number of lu	minaires p	er 100m ²	for
		100lx	200lx
46022.000	75 W	11	22
47022.000	75 W	11	22
46028.000	75 W	11	21
47029 000	7 E \//	11	21

		100lx	200lx	300lx	500lx
2.000	75 W	11	22	32	53
2.000	75 W	11	22	32	53
8.000	75 W	11	21	31	51
8.000	75 W	11	21	31	51
1.000	75 W	10	20	30	49
1.000	75 W	10	20	30	49

QT12-ax
Illuminance E _n (lx) for r

46022.000

47022.000

46028.000

47028.000

46021.000

47021.000

7 2000 tu						
r module (m)						
1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4			
438	292	219	164			
438	292	219	164			
457	305	229	172			
457	305	229	172			
476	317	238	178			

317

Connected lo	oad		
46022.000	P:	79 W	
47022.000	P:	79 W	
46028.000	P:	79 W	
47028.000	P:	79 W	
46021.000	P:	79 W	
47021.000	P:	79 W	

Connected lo	oad per	100lx
46022.000	P*:	8.36 W/m ²
47022.000	P*:	8.36 W/m ²
46028.000	P*:	8.00 W/m ²
47028.000	P*:	8.00 W/m ²
46021.000	P*:	7.69 W/m ²
47021.000	P*:	7.69 W/m ²

Number of	luminaires	
46022.000	n*:	10.58 1/100m ²
47022.000	n*:	10.58 1/100m ²
46028.000	n*:	10.12 1/100m ²
47028.000	n*:	10.12 1/100m ²
46021.000	n*:	9.73 1/100m ²
47021.000	n*:	9.73 1/100m ²

238







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm.

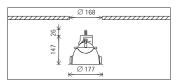
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46046.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 卿



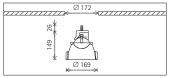




0.65 UGR 200 cd/m² 65° <

47047.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 卿



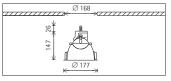




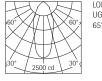
0.65 UGR 19.4 200 cd/m² 65° <

46049.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.65kg 日本⑩爲



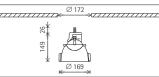




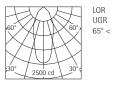
0.66 UGR 18.3 200 cd/m² 65° <

47050.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.65kg LMF D 日本⑩魚



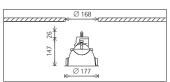




0.66 18.3 200 cd/m²

46045.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本⑩卿



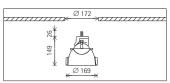




0.71 UGR 200 cd/m^2 65° <

47046.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg 日本⑩爲





46045.000

47046.000



0.71 UGR 17.3 200 cd/m² 65° <

2.4x2.4

256

256

263

263

285

285

341

341

351

351

379

Number	of I	luminaires	ner	$100m^{2}$	for

		100lx	200lx	300lx	500lx
46046.000	100 W	7	14	21	34
47047.000	100 W	7	14	21	34
46049.000	100 W	7	14	20	33
47050.000	100 W	7	14	20	33
46045.000	100 W	7	13	19	31
47046.000	100 W	7	13	19	31

Illuminance E _n (lx) for module (m)				
		1.2x1.8	1.8x1.8	
46046.000	100 W	682	455	
47047.000	100 W	682	455	
46049.000	100 W	702	468	
47050.000	100 W	702	468	

759

100 W

100 W

Connected lo		ar	
46046.000	P:	100 W	
47047.000	P:	100 W	
46049.000	P:	100 W	
47050.000	P:	100 W	
46045.000	P:	100 W	
47046.000	P:	100 W	

Connected load per 100lx					
without conf	without control gear				
46046.000	P*:	6.79 W/m ²			
47047.000	P*:	6.79 W/m ²			
46049.000	P*:	6.59 W/m ²			
47050.000	P*:	6.59 W/m ²			
46045.000	P*:	6.10 W/m ²			
47046.000	P*:	6.10 W/m ²			

759	506	379	2
Number	of lumina	ires ner 1Ω(λlv

506

46046.000	n*:	6.79 1/100m ²
47047.000	n*:	6.79 1/100m ²
46049.000	n*:	6.59 1/100m ²
47050.000	n*:	6.59 1/100m ²
46045.000	n*:	6.10 1/100m ²
47046.000	n*:	6.10 1/100m ²

DALI PLUG+

PLAY







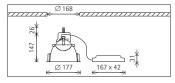
Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodDarklight reflector: aluminium, bright anodised. Cut-off angle 30°. Accessories page 496

46247.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.86kg LMF D







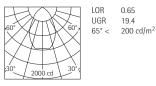
0.65 UGR 19.4 200 cd/m² 65° <

47247.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.86kg LMF D

149 167 x 42



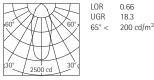


46250.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.86kg LMF D

Ø 168 147



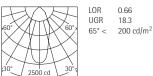


47250.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.86kg LMF D

149 167 x 42



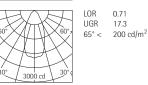


46246.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.86kg LMF D

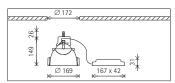
Ø 168 147 167 x 42





47246.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.86kg LMF D





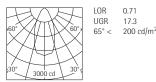
47247.000

46250.000

47250.000

46246.000

47246.000



Number of luminaires per 100m ² for				
		100lx	200lx	
46247.000	100 W	7	14	
47247.000	100 W	7	14	
46250.000	100 W	7	14	

		100lx	200lx	300lx	500lx
46247.000	100 W	7	14	21	34
47247.000	100 W	7	14	21	34
46250.000	100 W	7	14	20	33
47250.000	100 W	7	14	20	33
46246.000	100 W	7	13	19	31
47246.000	100 W	7	13	19	31

9	
QT12-ax	30° / 30
Illuminance E _n (lx) for	module (m)
46247.000 100 W	1.2x1.8 1. 682

100 W

100 W

100 W

100 W

100 W

759

30° 3000 cd 30° c								
odule (m	1)							
.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4					
682	455	341	256					
682	455	341	256					
702	468	351	263					
702	468	351	263					
759	506	379	285					

Connected lo	oad	
46247.000	P:	105 W
47247.000	P:	105 W
46250.000	P:	105 W
47250.000	P:	105 W
46246.000	P:	105 W
47246.000	P:	105 W

Connected lo	oad per	100lx
46247.000	P*:	7.12 W/m ²
47247.000	P*:	7.12 W/m ²
46250.000	P*:	6.92 W/m ²
47250.000	P*:	6.92 W/m ²
46246.000	P*:	6.41 W/m ²
47246.000	P*:	6.41 W/m ²

Number of lu	minaires	per 100lx
46247.000	n*:	6.79 1/100m ²
47247.000	n*:	6.79 1/100m ²
46250.000	n*:	6.59 1/100m ²
47250.000	n*:	6.59 1/100m ²
46246.000	n*:	6.10 1/100m ²
47246.000	n*:	6.10 1/100m ²

379

285

481

506







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

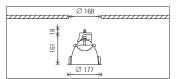
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 496**

46048.000 Reflector silver OT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 爵



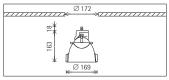




UGR 0.64 UGR 18.4 55° < 200 cd/m²

47049.000 Reflector silver OT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ இ



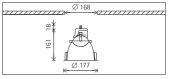




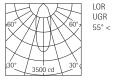
LOR 0.64 UGR 18.4 55° < 200 cd/m²

46050.000 Reflector silver OT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 爲



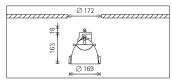




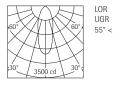
LOR 0.66 UGR 17.3 55° < 200 cd/m²

47051.000 Reflector silver OT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 爵



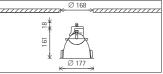




LOR 0.66 UGR 17.3 55° < 200 cd/m²

46047.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 岡

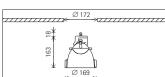






LOR 0.71 UGR 16.2 55° < 200 cd/m²

47048.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ இ







LOR 0.71 UGR 16.2 55° < 200 cd/m²

Number	of I	luminaires	ner	$100m^{2}$	for

		100lx	200lx	300lx	500lx	
46048.000	100 W	7	14	21	34	
47049.000	100 W	7	14	21	34	
46050.000	100 W	7	14	20	33	
47051.000	100 W	7	14	20	33	
46047.000	100 W	7	13	19	31	
47048.000	100 W	7	13	19	31	

QI12-ax	1
Illuminance E _n (lx) for r	nodule (m)
	1.2x1.8

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46048.000	100 W	685	457	343	257
47049.000	100 W	685	457	343	257
46050.000	100 W	706	471	353	265
47051.000	100 W	706	471	353	265
46047.000	100 W	764	509	382	286
47048.000	100 W	764	509	382	286

Connected lo		ar
46048.000	P:	100 W
47049.000	P:	100 W
46050.000	P:	100 W
47051.000	P:	100 W
46047.000	P:	100 W
47048.000	P:	100 W

Connected load per 100lx						
without con	trol gea	r				
46048.000	P*:	6.76 W/m ²				
47049.000	P*:	6.76 W/m ²				
46050.000	P*:	6.56 W/m ²				
47051.000	P*:	6.56 W/m ²				
46047.000	P*:	6.06 W/m ²				
47048.000	P*:	6.06 W/m ²				

Number	of	luminaires	per	100lx	

46048.000	n*:	6.76 1/100m ²
47049.000	n*:	6.76 1/100m ²
46050.000	n*:	6.56 1/100m ²
47051.000	n*:	6.56 1/100m ²
46047.000	n*:	6.06 1/100m ²
47048.000	n*:	6.06 1/100m ²

DALI PLUG+

PLAY







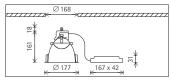
Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodDarklight reflector: aluminium, bright anodised. Cut-off angle 40°. Accessories page 496

46249.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.88kg LMF D







0.64 UGR 18.4 200 cd/m² 55° <

47249.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.88kg LMF D

Ø 172 163 167 x 42 Ø 169





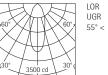
0.64 UGR 18.4 200 cd/m² 55° <

46251.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.88kg LMF D

Ø 168 161





0.66 17.3 200 cd/m²

47251.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.88kg LMF D

Ø 172 163 167 x 42



0.66 UGR 17.3 200 cd/m² 55° <

46248.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.88kg LMF D

Ø 168 191 167 x 42

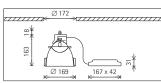




LOR 0.71 UGR 200 cd/m² 55° <

47248.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.88kg LMF D







0.71 UGR 16.2 200 cd/m² 55° <

286

483

Number	of luminaires	ner	100m²	for
IVUITIOCI	OI IUIIIIIIIIIICS		10011	101

		100lx	200lx	300lx	500lx
16249.000	100 W	7	14	21	34
17249.000	100 W	7	14	21	34
16251.000	100 W	7	14	20	33
17251.000	100 W	7	14	20	33
16248.000	100 W	7	13	19	31
17248.000	100 W	7	13	19	31

QT12-a	ix
Illumina	nce E _n (lx) for r

46249.000 47249.000

46251.000 47251.000 46248.000

47248.000

		3300 Cu	1						
(x) for module (m)									
	1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4					
100 W	685	457	343	257					
100 W	685	457	343	257					
100 W	706	471	353	265					
100 W	706	471	353	265					
100 W	764	509	382	286					

509

764

100 W

Connected lo	oad	
46249.000	P:	105 W
47249.000	P:	105 W
46251.000	P:	105 W
47251.000	P:	105 W
46248.000	P:	105 W
47248.000	P:	105 W

Connected	load per	100lx
46249.000	P*:	7.10 W/m ²
47249.000	P*:	7.10 W/m ²
46251.000	P*:	6.88 W/m ²
47251.000	P*:	6.88 W/m ²
46248.000	P*:	6.37 W/m ²
47248.000	P*:	6.37 W/m ²

Number of Iu	minaires	per 100lx
46249.000	n*:	6.76 1/100m ²
47249.000	n*:	6.76 1/100m ²
46251.000	n*:	6.56 1/100m ²
47251.000	n*:	6.56 1/100m ²
46248.000	n*:	6.06 1/100m ²
47248.000	n*:	6.06 1/100m ²

382







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm.

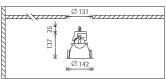
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised

Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

46029.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿



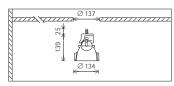


Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) 0.90 1.20 1.20 Illuminance E_n (Ix)

47030.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg IMF D 日本 ⑩ 卿

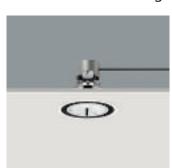




Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) 0.90 1.20 1.20 Illuminance E_n (Ix)

Quintessence Washlight with shadow gap for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Cable, L 500mm.

detail.

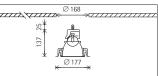
Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit tech-

nology wallwasher segment: aluminium, bright anodised. Reflector size 4, cutoff angle 40°.

46030.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg 日本⑩爲

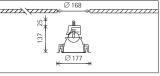


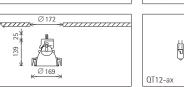


Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 496

47031.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本命命





Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 Luminaire spacing (m) 0.90 1.20 1.20 Illuminance E_n (Ix) 65 48 86

0.90 0.90 1.20

0.90 1.20 1.20

86

Mean illuminance En (Ix) Wall height (m) Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

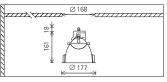
Cable, L 500mm. Spherolit technology upper reflector:

aluminium, silver, mirror-finish anodised.

Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 496**

46051.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

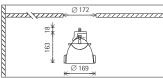
Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ ட





47052.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 爲









DALI PLUG+

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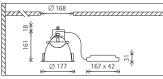
Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised

Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Accessories page 496





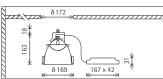




Mean illuminance E _n (I	x)			
Wall height (m)	3.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50

47252.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.88kg LMF D





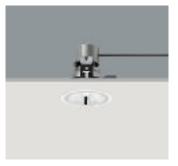
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance E_n (k)
 111
 84
 61
 49

WCan mummance Ln	(IA)			
Wall height (m)	3.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E. (ly)	111	9.4	61	40

485







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm.

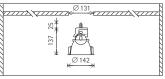
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46031.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿



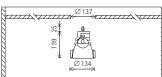


Mean illuminance E_n (lx)

Wall height (m) 0.60 0.90 0.90 1.20 Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m) Illuminance E_n (Ix) 112 85 64 47

47032.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg IMF D 日本 ⑩ 卿





Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.60 0.90 0.90 1.20 0.90 0.90 1.20 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

Quintessence Double washlight with shadow gap for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of

1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

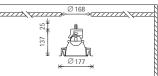
Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit tech-

nology wallwasher segments: aluminium, bright anodised. Reflector size 4, cut-off angle 40°.

46032.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg 日本⑩爲

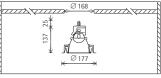


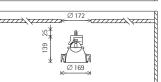


Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

47033.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本命命









Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.60 0.90 0.90 1.20 Luminaire spacing (m) 0.90 0.90 1.20 1.20 Illuminance E_n (Ix) 112 85 64 47

Mean illuminance En (Ix) Wall height (m) 0.60 0.90 0.90 1.20 Offset from wall (m) Luminaire spacing (m) 0.90 0.90 1.20 1.20 Illuminance E_n (Ix) 112 85







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle 40°.

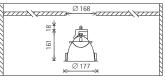
Transformer to EN 61558 or

Transformer to EN 61558 or EN 61347 to be ordered separately.

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46052.000 Reflector silver QT12-ax 100W 12V GY6.35 2200Im Wide diffuser: glass, frosted.

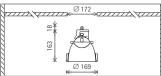






47053.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 爵









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Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

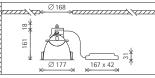
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodiced

Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle 40°.

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46253.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.



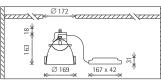




Mean illuminance E _n (Ix)						
Wall height (m)	3.0					
Offset from wall (m)	0.90	0.90	1.20	1.20		
Luminaire spacing (m)	0.90	1.20	1.20	1.50		
Illuminance E _n (lx)	110	84	61	49		

47253.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.88kg LMF D





Mean illuminance E _n	(lx)			
Wall height (m)	3.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (lx)	110	84	61	49

Quintessence Lens wallwasher for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting

Cable, L 500mm.

detail

Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish

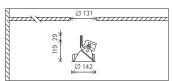
anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46033.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩ 卿



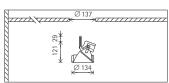


Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

47034.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Flush mounting detail Weight 0.60kg IMF D 日本 ⑩ 卿





Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 0.90 1.20 Luminaire spacing (m)

Illuminance E_n (Ix)

Quintessence Lens wallwasher with shadow gap for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

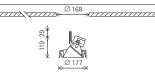
Cable, L 500mm.

detail.

Peripheral shadow gap: plastic, black. Spherolit technology wallwasher re-flector: aluminium, silver, mirror-finish Darklight reflector: aluminium, bright

46034.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Covered mounting detail Weight 0.71kg 日本⑩爲

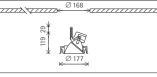


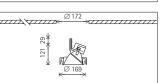


anodised, with upper wallwasher lens designed as safety glass. Reflector size 4, cut-off angle 40°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

47035.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Flush mounting detail Weight 0.71kg LMF D 日本命命







Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix) 192 111

QT12-ax

Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix) 192 111

Quintessence Lens wallwasher for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised.

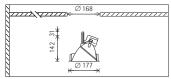
Darklight reflector: aluminium, bright anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 497**

46053.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm

Covered mounting detail Weight 0.70kg LMF D 日本 ⑩ ட

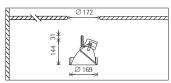




Mean illuminance E_n (lx)

47054.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm

Flush mounting detail Weight 0.70kg LMF D 日本 ⑩ இ





Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance En (kx)
 234
 178
 145
 116





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Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

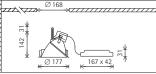
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle 40°.

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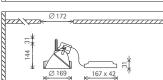
46254.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm





47254.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm

Flush mounting detail Weight 0.90kg LMF D





Luminaire spacing (m) 0.90 1.20 1.20 1.50 Illuminance En (lx) 234 178 145 116

Mean illuminance E_n (lx)

Wall height (m)

Offset from wall (m)

 Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50

 Illuminance E_n (lx)
 234
 178
 145
 116

4.0

0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50

489

OT12-ax

Quintessence Focal lens wallwasher for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable, L 500mm.

Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish

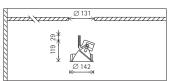
anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46035.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩ 卿



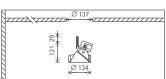


Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

47036.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Flush mounting detail Weight 0.60kg IMF D 日本 ⑩ 卿





Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

Quintessence Focal lens wallwasher with shadow gap for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Cable, L 500mm.

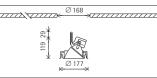
detail.

Peripheral shadow gap: plastic, black. Spherolit technology wallwasher re-flector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

anodised, with upper wallwasher lens designed as safety glass. Reflector size 4, cut-off angle 40°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

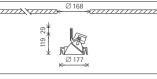
46036.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

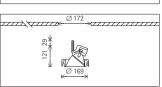
Covered mounting detail Weight 0.71kg 日本⑩爲



47037.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Flush mounting detail Weight 0.71kg LMF D 日本命命







QT12-ax

Mean illuminance En (Ix) Wall height (m) 3.0 Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix) 169

Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix) 169

Quintessence Focal lens wallwasher for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail Cable, L 500mm.

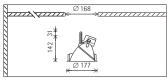
Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish

anodised. Darklight reflector: aluminium, bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46054.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm

Covered mounting detail Weight 0.70kg LMF D 日本 ⑩ 卿

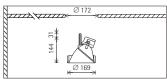




Mean illuminance E_n (lx) Wall height (m) 4.0 0.90 0.90 1.20 1.20 Offset from wall (m) 0.90 1.20 1.20 1.50 Luminaire spacing (m) 219 167 143 116

47055.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm

Flush mounting detail Weight 0.70kg LMF_D 日本⑩卿





Mean illuminance En (Ix)

Illuminance E_n (Ix)

Illuminance E _n (lx)	219	167	143	116
Luminaire spacing (m	0.90	1.20	1.20	1.50
Offset from wall (m)	0.90	0.90	1.20	1.20
Wall height (m)	4.0			





DALI PLUG+

PLAY



144

Ø 169

Lampholder carrier: cast aluminium designed as heat sink, with connection cable L 500mm. Fixing ring: plastic, black. Fixing of beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

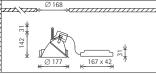
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium bright anodised, with upper wallwasher lens designed as safety glass. Cut-off angle

Accessories page 497

46255.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm

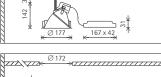






47255.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm

Flush mounting detail Weight 0.90kg LMF D



167 x 42



QT12-ax

Mean illuminance En (Ix)

,				
Illuminance E _n (lx)	219	167	143	116
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Offset from wall (m)	0.90	0.90	1.20	1.20
Wall height (m)	4.0			

Mean illuminance E_n (lx)

Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (lx)	219	167	143	116

Quintessence Directional luminaire for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angle of rotation.

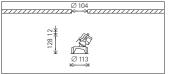
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
Transformer to EN 61558 or EN 61347 to be ordered separately.

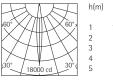
Accessories page 497

46009.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°













QR-CBC51-RE 30



h(m) E(IX) D(m) 36° 1 2850 0.65 2 712 1.30 3 317 1.95 4 178 2.60 5 114 3.25

D(m)

10°

0.17

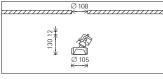
0.35

937 0.70

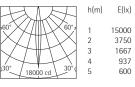
600 0.87

47009.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

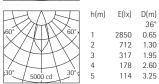
Flush mounting detail Weight 0.31kg LMF D 日本 ⑩ 爲











Quintessence Directional luminaire with shadow gap for low-voltage halogen lamps







Size 4 Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angle of rota-

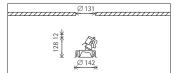
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, bright anodised. Reflector size 3, cut-off angle

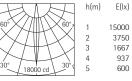
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46010.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩ 卿







D(m)

0.17

0.35

0.52

0.70

0.87

36°

0.65

1.30

1.95

2.60

3.25

19°

0.33

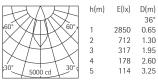
0.67

1.00

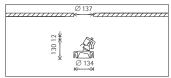
1.34

1.67

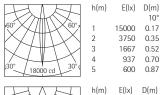




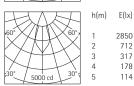
47010.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36° Flush mounting detail Weight 0.38kg LMF D 日本⑩爲











Quintessence Directional luminaire for low-voltage halogen lamps







Lampholder carrier: cast aluminium. designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Reflector: aluminium, anodised, mirror-finish. Softec lens.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

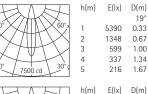
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46037.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Covered mounting detail Weight 0.52kg LMF C 日本命命

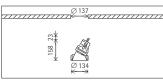
156 23 Ø 142



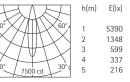


47038.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Flush mounting detail Weight 0.52kg LMF C 日本 ⑩ 卿





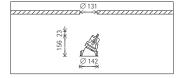


Quintessence Directional luminaire for low-voltage halogen lamps

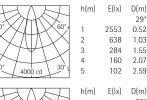
46039.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

47040.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Covered mounting detail Weight 0.52kg LMF C 日本⑩魚

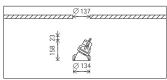




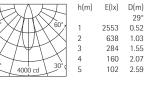


29°









Quintessence Directional luminaire with shadow gap for low-voltage halogen lamps







Size 5 Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

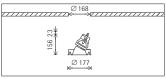
Cable, L 500mm. Peripheral shadow gap: plastic, black. Reflector: aluminium, anodised, mirrorfinish. Softec lens.

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle

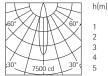
Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 497

46038.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Covered mounting detail Weight 0.62kg LMF C 日本⑩魚







19° 5390 0.33 1348 0.67 599 1.00 337 1.34 216 1.67

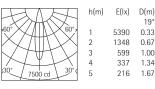
E(Ix) D(m)

47039.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Flush mounting detail Weight 0.75kg LMF C 日本 ⑩ 卿

Ø 172 ★ → ★ Ø 169

QT12-ax

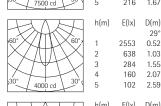


46040.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Covered mounting detail Weight 0.63kg LMF C 日本⑩爲

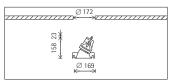
Ø 168 156 23 Ø 177





47041.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Flush mounting detail Weight 0.62kg LMF C 日本 ⑩ 卿





HAMA	h(m)	E(Ix)	D(m)
0° 60°,	1	2553	29° 0.52
\times	2	638	1.03
V TYT V		284	1.55
0° 4000 and 30°	4	160	2.07
4000 cd 30	5	102	2.59

Quintessence Directional luminaire for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

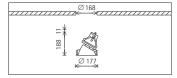
Cable, L 500mm.

Reflector: aluminium, anodised, mirrorfinish. Softec lens.

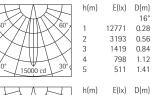
Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 497**

46055.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Covered mounting detail Weight 0.78kg LMF C 日本 ⑩ 爲



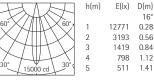




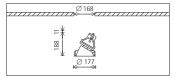
47056.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Flush mounting detail Weight 0.78kg LMF C 日本 ⑩ 爵

Ø 172 □ ★ Ø 169 Ø 169

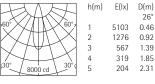




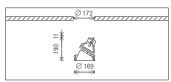
46056.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Covered mounting detail Weight 0.78kg LMF C 日本 ⑩ இ



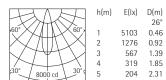




47057.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Flush mounting detail Weight 0.78kg LMF C 日本 ⑩ 爲











PLUG+ PLAY



Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. 0°-30° tilt. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

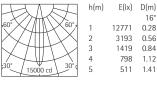
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Reflector: aluminium, anodised, mirrorfinish. Softec lens.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Accessories page 497

46256.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Covered mounting detail Weight 0.96kg LMF C Ø 168 8 Ø 177, 167 x 42 Ø 177, 167 x 42



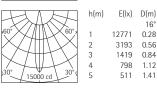


47256.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200Im Spherolit reflector, spot

Flush mounting detail Weight 0.96kg LMF C

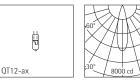
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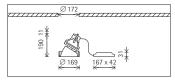
46257.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Covered mounting detail Weight 0.96kg LMF C

Ø 168 88 Ø 177 167 × 42



	h(m)	E(Ix)	D(m)
60°	1	5103	0.46
\times/\mathbb{M}	2	1276	0.92
K/744/J	3	567	1.39
	4	319	1.85
30° 8000 cd 30° 6	5	204	2.31
	h(m)	E(Ix)	D(m)

47257.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Flush mounting detail Weight 0.96kg LMF C





HAMA	h(m)	E(Ix
30° 8000 cd 30° c	1 2 3 4 5	5103 1276 567 319 204

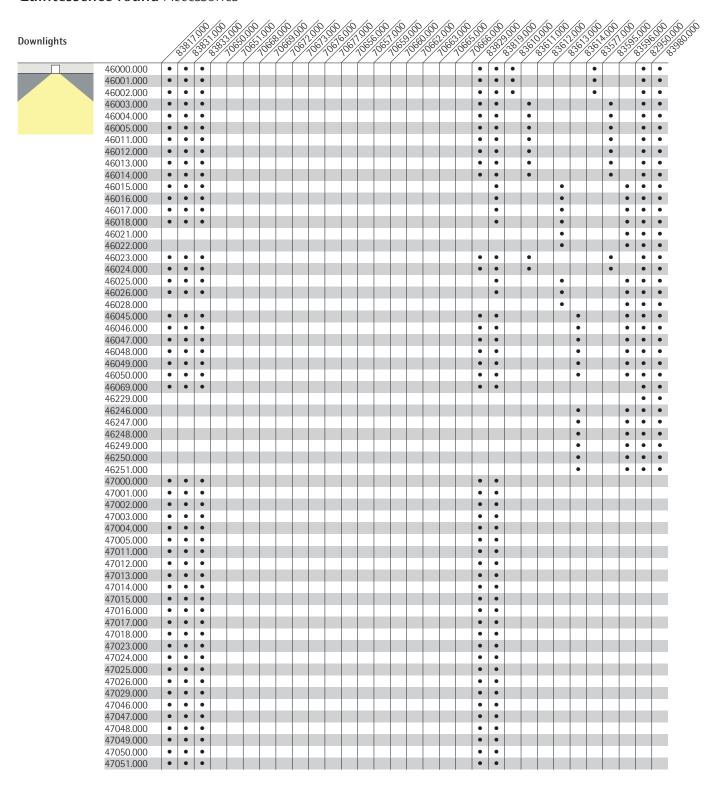
0.46

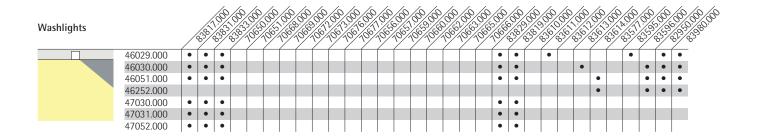
0.92

1.39

1.85

2.31





46031.000	
47053.000	
Lens wallwashers	
46033.000	
47034.000	
46035.000	
47037.000 • • • • • • • • •	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
46009.000 46010.000 46037.000 46038.000	
46039.000	
46056.000	
46257.000 47009.000 • • • • • • • • • • • • • • • • • •	• • •
47010.000	
47039.000 • • • • • • • • • • • • • • • • • •	
47041.000	
47056.000	
47256.000 47257.000	

www.erco.com ERCO Program 2010/11

497





83817.000 DALI

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed

depth 90mm Weight 0.18kg

®¹ □ • ○ ○ ○ SELV ♥♥TS-115





83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is

cleared. Overload and overheat protection: automatic load-sensing.

Use dimmers for electronic transformers (trailing edge). For interference suppression to VDE 0875, part 2, secondary conductor

length 2m max. For ceiling aperture ø 80mm, recessed depth 70mm

Weight 0.19kg **⋘** ♠ □ ♥ □ ♥ SELV ♥♥TS-115





83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20–105W at max. 50°C ambient temperature, 1V-10V control-

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared. Overload and overheat protection:

automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 125mm Weight 0.20kg

® △ □ ♥ A SELV ♥♥TS-115



70650.000 70651.000



70668.000 70669.000 Skintone filter



70672.000 70673.000 Food filter



70676.000 70677.000 Daylight conver-sion filter



70656.000 70657.000 Interference colour filter Magenta

90 235

345

240 ×

CO 104 260 SA



70659.000 70660.000 Interference colour filter Amher



70662.000 70663.000 Interference colour filter Skv blue

334

CO 131

360

¥ 280 24



70665.000 70666.000 Interference colour filter Night blue



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers.

Mounting on DIN rail.



83819.000 Overvoltage protection device for max. 10 electronic transformers. . 45mm, B 25mm, H 22mm. 2x1.5mm². L 80mm. Weight 0.05kg



83610.000 Concrete housing Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete. Weight 2.80kg



83611.000 Concrete housing Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete Weight 3.10kg



83612.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.30kg











83614.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.20kg

CO 168



83577.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.04kg

 $(\dot{\circ})$

Ø 114





83595.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.07kg





83596.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.10kg



82950.000
Mounting plate for panelled ceilings
Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



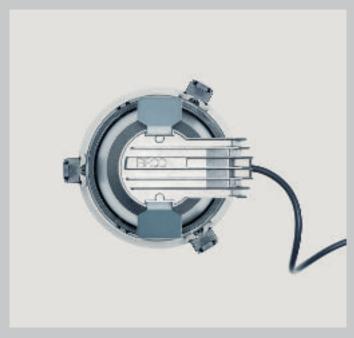
83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.



The system design of Quintessence provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. All luminaires are available with a covered or flush mounting detail.

The range for high-pressure discharge lamps with round recessed ceiling luminaires includes double-focus downlights, downlights, washlights, double washlights, lens wallwashers and directional luminaires. The high-pressure discharge lamps and particularly the metal halide lamps excel due to exceptionally high energy efficiency and a long service life resulting in low operating costs. The point-form light source produces brilliant light that is easy to direct using reflectors and lenses. Developments such as electronic control gear and ceramic discharge tube technology ensure improved ignition and switching properties, high colour stability and excellent colour rendition.

With a wealth of characteristics, especially for vertical illuminance, the Quintessence range provides complete, energy-efficient solutions for ceiling-integrated lighting.



Double-focus downlights

The round Quintessence recessed ceiling luminaires for high-pressure discharge lamps are available in versions with different light distributions, cut-off angles, reflector sizes, luminaire edges and installation details. The spectrum of light distributions includes double-focus downlights, downlights, washlights, double washlights, lens wallwashers and directional luminaires. Depending on the requirements as to visual comfort and recess depth, Quintessence includes cut-off angles of 30° or 40°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The two different mounting rings can be used either as a covered or a flush mounting detail. There are two options available for the luminaire edge: the conventional joint between ceiling and luminaire edge or a shadow

All Quintessence luminaires have aluminium cooler housings which

are designed to provide optimum thermal properties according to their particular technical requirements. The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The aluminium reflector is mirror-finish silver anodised. The installation units required are available as accessories. The separate mounting ring supplied allows efficient installation on the construction site.

The lighting technology with double focus allows for a minimal light aperture. The double-focus downlights thus are available in size 2 with a cut-off angle of 40° for 35W metal halide lamps.

Application

Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.





C173

The range includes Quintessence downlights with darklight reflectors in sizes 3 to 7 with a cut-off angle of 30° or 40° for metal halide lamps up to 150W or high-pressure sodium vapour lamps up to 100W. Lighting options for downlights include versions with wide diffuser for wide beam light distribution, with focal diffuser for increased brilliance in the centre, and with narrow diffuser for narrow to medium wide light distribution.

Application

Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Washlights

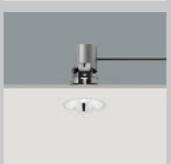


The washlights are available in sizes 4 to 7 for metal halide lamps up to 150W or for high-pressure sodium vapour lamps up to 100W. The darklight reflector has a special wallwasher segment in Spherolit technology for illuminating walls whilst simultaneously lighting the room.

Application

Asymmetrical light distribution, directed downwards and for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

Double washlights



The double washlights are available in sizes 4 to 7 for metal halide lamps up to 150W or for high-pressure sodium vapour lamps up to 100W. The Spherolit reflector has two special wallwasher segments for uniformly illuminating parallel walls whilst simultaneously lighting the room.

Application

Axially symmetrical light distribution for illumination of parallel walls including corridors and hallways.

501

Lens wallwashers



The Quinessence lens wallwashers have special wallwasher reflectors with Spherolit segments. The lens wallwasher produces uniform light distribution over the whole wall. The range of lens wallwashers comprises luminaires in sizes 4 to 7 for metal halide lamps up to 150W or high-pressure sodium vapour lamps up to 100W.

Application Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Focal lens wallwashers



The Quinessence focal lens wallwashers have special wallwasher reflectors with Spherolit segments. Due to special spherolites, the focal lens wallwasher produces a focal emphasis in the upper area of the wall. The range of focal lens wall-washers comprises luminaires in sizes 4 to 7 for metal halide lamps up to 150W or high-pressure sodium vapour lamps up to 100W.

Application

Asymmetrical light distribution for wall lighting with focal emphasis, for applications including sales and promotional areas as well as trade fair stands and exhibitions.

Directional luminaires



The Quintessence directional luminaires are available in the Spherolit reflector versions spot or flood. The luminaires above the darklight reflector with a cut-off angle of up to 40° can be tilted up to 30° and rotated through 360°. The range comprises luminaires in sizes 3 to 7 for metal halide lamps up to 150W or 100W high-pressure sodium vapour lamps.

Application

Rotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Application areas include museums, trade fair stands, exhibitions, sales areas and promotional areas.



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range allows many different versions to be produced by combining the mounting detail and the luminaire edge. Accessories such as lenses and filters allow the light to be adjusted to suit specific requirements. The incorporation of digitally controlla-ble DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mounting rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Double-focus downlight



Washlight



Double washlight

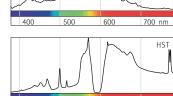


Lens wallwasher Focal lens wallwasher

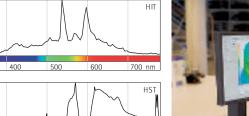


Directional luminaire

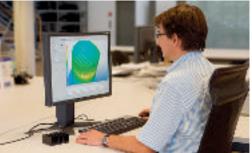


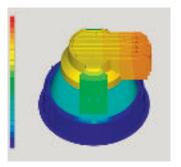


600



700 nm





503

Colour temperature and colour rendition Metal halide

HST

lamps (HIT) provide a colour rendition of more than 90, making them highly suit-able for lighting tasks where excel-lent colour rendition is required. The warm-col-oured light of the

high-pressure sodium vapour lamp (HST) shows certain types of merchandise to their best advantage, such as bak-ery products and leather goods.

ment Good heat management in the luminaire is crucial for continuous opera-tion, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and

material of the

Heat manage-

housing that all contribute to optimal heat management. Extensive simulations and tests during the devel-opment phase ensure the success of all the products in the range.

Quintessence Double-focus downlight for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black

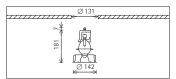
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Ellipsoidal reflector: aluminium, bright anodised. Diffuser: glass, frosted. Darklight reflector: aluminium, bright anodised. Reflector size 2, cut-off angle

Control gear to be ordered separately. Accessories page 557

46441.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white









0.42 UGR 1000 cd/m² 55° <

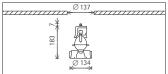




0.44 UGR 21.6 1000 cd/m² 55° <



Flush mounting detail Weight 0.60kg LMF D 日本







0.42 UGR 19.2 1000 cd/m² 55° <





LOR 0.44 UGR 21.6 1000 cd/m² 55° <

Number of lu	minaires p	er 100m²	for	
		100lx	200lx	300lx
46441.000	20 W	14	28	42
46441 000	35 W	7	13	19

14 7

28

300lx	500lx	
42	70	
19	32	
42	70	
19	32	

Illuminance E _n (lx) for module (m)							
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4		
46441.000	20 W	333	222	167	125		
46441.000	35 W	745	496	372	279		
47424.000	20 W	333	222	167	125		
47424.000	35 W	745	496	372	279		

47424.000

ad	
rol gea	ır
P:	20 W
P:	35 W
P:	20 W
P:	35 W
	rol gea P: P: P:

20 W

35 W

47424.000

47424.000

Connected load per 100lx without control gear 46441.000 2.78 W/m² 46441 000 2.18 W/m² 47424.000 2.78 W/m² 47424.000 2.18 W/m²

Number of luminaires per 100lx 46441.000 13.90 1/100m² 6.22 1/100m² 46441 000 47424.000

13.90 1/100m²

6.22 1/100m²

Quintessence Downlight for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

ised.

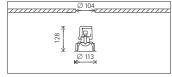
Darklight reflector: aluminium, bright

Cut off angle 30°. anodised. Cut-off angle 30°. Control gear to be ordered separately.

Accessories page 557

46418.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.









LOR 0.45 UGR 22.9 65° < 200 cd/m²

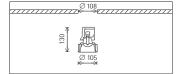
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47401.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

日本

46417.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Narrow diffuser: glass, frosted.

47400.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im Flush mounting detail Weight 0.45kg LMF D

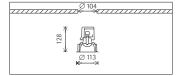






UGR 229 200 cd/m² 65° <

Covered mounting detail Weight 0.45kg LMF D 日本







0.50 UGR 21.8 200 cd/m² 65° <

Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本

Connected load

46418.000

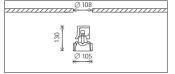
47401 000

46417.000

47400.000

without control gear

p.





46418.000

47401.000

46417.000

47400.000

Illuminance E_n (lx) for module (m)

20 W

20 W

20 W

20 W

1.2x1.8

344

344

388



1.8x1.8

230

230

259

0.50 UGR 21.8 200 cd/m² 65° <

129

129

146

Number of luminaires per 100m² for

20 W

20 W

20 W

20 W

		100lx	200lx	300lx	500lx	
46418.000	20 W	14	27	41	68	
47401.000	20 W	14	27	41	68	
46417.000	20 W	12	24	36	60	
47400.000	20 W	12	24	36	60	

Connected load per 100b without control gear 46418.000 2.69 W/m² 2 69 W/m² 47401 000 46417.000 2.38 W/m²

47400.000

Number of luminaires per 100lx

172

172

194

46418.000 13.45 1/100m² 47401 000 13.45 1/100m² 46417.000 11.92 1/100m² 47400.000 11.92 1/100m²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

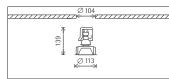
2.38 W/m²

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Control gear to be ordered separately. Accessories page 557

46460.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°









h(m) E(Ix) D(m) 12° 9000 0.21 2 2250 0.42 3 1000 0.63 0.84 360 1.05

> E(Ix) D(m)

> 1500 0.73

375 1.46 2.18 167 2.91

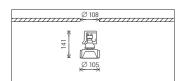
60 3.64

h(m)

2

47443.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°

Flush mounting detail Weight 0.45kg LMF D 日本





HIPAR51-CE-P









h(m) E(Ix) D(m) 40° 1500 0.73 2 375 1.46 3 167 2.18 60 3.64

505







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

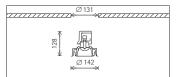
Darklight reflector: aluminium, bright

anodised. Reflector size 3, cut-off angle

Control gear to be ordered separately. Accessories page 557

46420.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.53kg LMF D 日本



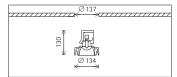




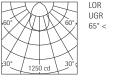
0.45 UGR 22.9 200 cd/m² 65° <

47403.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.53kg LMF D 日本



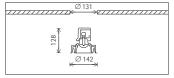




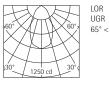
0.45 22.9 200 cd/m²

46419.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.53kg LMF D 日本





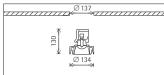


0.50 200 cd/m²

47402.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.53kg LMF D 日本

47402.000



300lx

500lx





LOR 0.50 UGR 21.8 200 cd/m² 65° <

Number of I	uminaires pe	r 100m²	for
		100lx	200lx
46420.000	20 W	14	27
47403.000	20 W	14	27
46419 000	20 W	12	24

12

24

20 W

UUIA	JUUIN	
41	68	46420.000
41	68	47403.000
36	60	46419.000
36	60	47402.000
	Connecte	ed load per 100lx

Illuminance E _n (lx) for module (m)							
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4		
46420.000	20 W	344	230	172	129		
47403.000	20 W	344	230	172	129		
46419.000	20 W	388	259	194	146		
47402 000	20 W	388	250	194	146		

Connected lo	ad	
without cont	rol gea	ır
46420.000	P:	20 W
47403.000	P:	20 W
46419.000	P:	20 W
47402.000	P:	20 W

Connected in	oad per	TUUIX
without con	trol gea	ır
46420.000	P*:	2.69 W/m ²
47403.000	P*:	2.69 W/m ²
46419.000	P*:	2.38 W/m ²
47402.000	P*:	2.38 W/m ²

er 100lx
3.45 1/100m ²
3.45 1/100m ²
1.92 1/100m ²
1.92 1/100m ²

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Size 4 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

black.
Mounting ring: plastic, white (RAL9002).
Mounting for ceiling thicknesses of
1–25mm with covered mounting detail
and 12.5–25mm with flush mounting

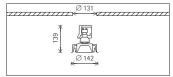
Cable with plug, L 500mm.
Peripheral shadow gap: plastic, black.
Darklight reflector: aluminium, bright anodised. Reflector size 3, cut-off angle 30°.

Control gear to be ordered separately.

Accessories page 557

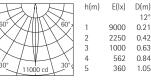
46461.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°



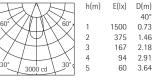


detail.



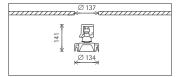




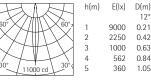




Flush mounting detail Weight 0.53kg LMF D 日本







D(m)

40°

0.73

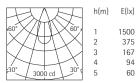
1.46

2.18

2.91

3.64





Quintessence Downlight for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

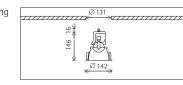
Cable with plug, L 500mm.

Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

ised.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
Control gear to be ordered separately.

Accessories page 557















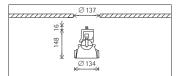
LOR 0.57 UGR 22.9 65° < 1000 cd/m²

507

47407.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本

Flush mounting







LOR UGR 20.1 200 cd/m² 65° <

0.57

22.9 1000 cd/m²

LOR

UGR

65° <

46435.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

centre of the beam.

Covered mounting detail Weight 0.55kg LMF D white Focal diffuser: glass, frosted, with clear 日本 centre to increase the brilliance at the

Ø 131 146

HIT-TC-CE

UGR 19.0 200 cd/m² 65° <

47418.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

Ø 142

HIT-TC-CE

HIT-TC-CE



0.59 UGR 21.8 1000 cd/m² 65° <

detail Weight 0.55kg LMF D white
Focal diffuser: glass, frosted, with clear
centre to increase the brilliance at the
centre of the beam. 日本

Ø 137 148

HIT-TC-CE



0.57 UGR 19.0 200 cd/m^2 65° <

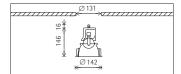




0.59 UGR 21.8 1000 cd/m² 65° <

46423.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本







UGR 19.1 200 cd/m² 65° <

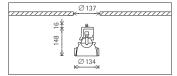
HIT-TC-CE



0.62 UGR 22.0 1000 cd/m² 65° <

47406.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本







UGR 19.1 200 cd/m² 65° <



47406.000 35 W



0.62 UGR 22.0 1000 cd/m² 65° <

Number	of	lum	inaires	per	100m ²	for
					1001	

varrioci or ic	iiiiiiiaiica p	CI IOOIII	101			
		100lx	200lx	300lx	500lx	
16424.000	20 W	12	23	34	56	
16424.000	35 W	5	10	16	26	
17407.000	20 W	12	23	34	56	
17407.000	35 W	5	10	16	26	
16435.000	20 W	11	21	32	52	
16435.000	35 W	5	10	15	24	
17418.000	20 W	11	21	32	52	
17418.000	35 W	5	10	15	24	
16423.000	20 W	11	21	31	51	
16423.000	35 W	5	10	14	23	
17406.000	20 W	11	21	31	51	
17406.000	35 W	5	10	14	23	

Illuminance	E _n (lx) fo	r module (m)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46424.000	20 W	417	278	209	157
46424.000	35 W	923	615	461	346
47407.000	20 W	417	278	209	157
47407.000	35 W	923	615	461	346
46435.000	20 W	445	297	222	167
46435.000	35 W	970	647	485	364
47418.000	20 W	445	297	222	167
47418.000	35 W	970	647	485	364
46423.000	20 W	460	307	230	173
46423.000	35 W	1013	675	506	380
47406.000	20 W	460	307	230	173

1013

675

Connected loa	nd	
without contr	ol gea	ar
46424.000	P:	20 W
46424.000	P:	35 W
47407.000	P:	20 W
47407.000	P:	35 W
46435.000	P:	20 W
46435.000	P:	35 W
47418.000	P:	20 W
47418.000	P:	35 W
46423.000	P:	20 W
46423.000	P:	35 W
47406.000	P:	20 W
47406.000	P:	35 W

Connected lo	ad per	100lx
without cont	rol gea	ır
46424.000	P*:	2.22 W/m ²
46424.000	P*:	1.76 W/m ²
47407.000	P*:	2.22 W/m ²
47407.000	P*:	1.76 W/m ²
46435.000	P*:	2.08 W/m ²
46435.000	P*:	1.67 W/m ²
47418.000	P*:	2.08 W/m ²
47418.000	P*:	1.67 W/m ²
46423.000	P*:	2.01 W/m ²
46423.000	P*:	1.60 W/m ²
47406.000	P*:	2.01 W/m ²
47406.000	P*:	1.60 W/m ²

Number of luminaires per 100lx 46424.000 11.09 1/100m² 5.02 1/100m² 11.09 1/100m² 46424.000 47407.000 47407.000 5.02 1/100m² 46435.000 10.40 1/100m² 46435.000 4.77 1/100m² 47418.000 10.40 1/100m² 47418.000 4.77 1/100m² 46423.000 10.05 1/100m² 46423 000 4.57 1/100m² 47406.000 10.05 1/100m² 47406.000 4.57 1/100m²

506

380







日本



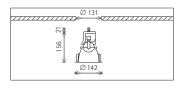
Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, bright

anodised. Cut-off angle 40° Control gear to be ordered separately.









LOR 0.53 UGR 1000 cd/m² 55° <

HIT-TC-CE

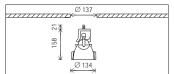


0.56 UGR 55° < 1000 cd/m²

www.erco.com

47409.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本







LOR UGR 189 1000 cd/m² 55° <

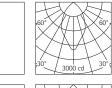
46436.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Focal diffuser: glass, frosted, with clear

centre to increase the brilliance at the

centre of the beam.

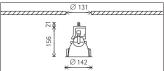
Covered mounting detail Weight 0.55kg LMF D



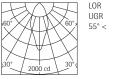


LOR 0.56 UGR 21.8 1000 cd/m² 55° <

日本







1000 cd/m²

0.58

20.5 $1000\;\text{cd/m}^2$

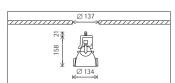
UGR

55° <



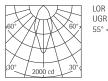
white
Focal diffuser: glass, frosted, with clear
centre to increase the brilliance at the
centre of the beam.

Flush mounting detail Weight 0.55kg LMF D 日本





HIT-TC-CE



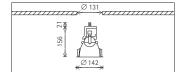






0.58 UGR 20.5 1000 cd/m² 55° <

46425.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.55kg LMF D 日本





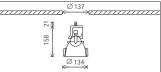


LOR 0.58 UGR 17.9 55° < 1000 cd/m²

60°,

LOR 0.62 UGR 20.8 55° < 1000 cd/m²

47408.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.55kg LMF D 日本





HIT-TC-CE



LOR 0.58 UGR 17.9 55° < 1000 cd/m²





LOR 0.62 UGR 20.8 55° < 1000 cd/m²

511

Number of lu	minaires p	er 100m²	for		
		100lx	200lx	300lx	500lx
46426.000	20 W	12	23	34	57
46426.000	35 W	6	11	16	26
47409.000	20 W	12	23	34	57
47409.000	35 W	6	11	16	26
46436.000	20 W	11	22	33	54
46436.000	35 W	5	10	15	25
47419.000	20 W	11	22	33	54
47419.000	35 W	5	10	15	25
46425.000	20 W	11	21	31	51
46425.000	35 W	5	10	14	23
47408.000	20 W	11	21	31	51
47408 000	35 W	5	10	14	23

Illuminance	E _n (lx) fo	r module (ı	n)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46426.000	20 W	411	274	206	154
46426.000	35 W	914	609	457	343
47409.000	20 W	411	274	206	154
47409.000	35 W	914	609	457	343
46436.000	20 W	429	286	214	161
46436.000	35 W	953	635	476	357
47419.000	20 W	429	286	214	161
47419.000	35 W	953	635	476	357
46425.000	20 W	455	303	228	171
46425.000	35 W	1018	678	509	382
47408.000	20 W	455	303	228	171
47408.000	35 W	1018	678	509	382

Connected Ic	ad		
without cont	rol gea	ır	
46426.000	P:	20 W	
46426.000	P:	35 W	
47409.000	P:	20 W	
47409.000	P:	35 W	
46436.000	P:	20 W	
46436.000	P:	35 W	
47419.000	P:	20 W	
47419.000	P:	35 W	
46425.000	P:	20 W	
46425.000	P:	35 W	
47408.000	P:	20 W	
47408.000	P:	35 W	

Connected lo	oad per	100lx
without con	trol gea	ır
46426.000	P*:	2.25 W/m ²
46426.000	P*:	1.77 W/m ²
47409.000	P*:	2.25 W/m ²
47409.000	P*:	1.77 W/m ²
46436.000	P*:	2.16 W/m ²
46436.000	P*:	1.70 W/m ²
47419.000	P*:	2.16 W/m ²
47419.000	P*:	1.70 W/m ²
46425.000	P*:	2.03 W/m ²
46425.000	P*:	1.59 W/m ²
47408.000	P*:	2.03 W/m ²
47408.000	P*:	1.59 W/m ²

minaire	s per 100lx
n*:	11.25 1/100m ²
n*:	5.07 1/100m ²
n*:	11.25 1/100m ²
n*:	5.07 1/100m ²
n*:	10.79 1/100m ²
n*:	4.86 1/100m ²
n*:	10.79 1/100m ²
n*:	4.86 1/100m ²
n*:	10.17 1/100m ²
n*:	4.55 1/100m ²
n*:	10.17 1/100m ²
n*:	4.55 1/100m ²
	n*:







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright

anodised. Reflector size 4, cut-off angle

Control gear to be ordered separately. Accessories page 557

46428.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.

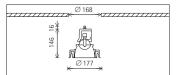
47411.000 Reflector silver

white Wide diffuser: glass, frosted.

HIT-TC-CE 20W GU6.5 1615lm

HIT-TC-CE 35W GU6.5 3400lm warm

Covered mounting detail Weight 0.66kg LMF D 日本









0.57

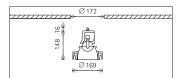
22.9 1000 cd/m²

UGR

65° <

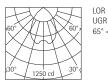
Flush mounting

detail Weight 0.56kg LMF D 日本





HIT-TC-CE







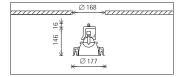


LOR 0.57 UGR 22.9 1000 cd/m² 65° <

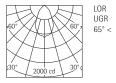
46437.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.66kg LMF D 日本







0.57 200 cd/m²

0.59

21.8 1000 cd/m²

LOR

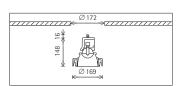
UGR

65° <

47420.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.66kg LMF D 日本





HIT-TC-CE







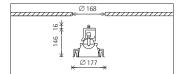


LOR 0.59 UGR 21.8 65° < 1000 cd/m²

ERCO Program 2010/11 www.erco.com

46427.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.66kg LMF D 日本







UGR 19.1 200 cd/m² 65° <

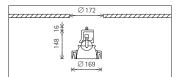
HIT-TC-CE



0.62 UGR 22.0 1000 cd/m² 65° <

47410.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.66kg LMF D 日本







0.59 UGR 19.1 200 cd/m² 65° <





0.62 UGR 22.0 1000 cd/m² 65° <

Number of Iu	ıminaires p	er 100m²	for	
		100lx	200lx	30
46428.000	20 W	12	23	
46428.000	35 W	5	10	
47411.000	20 W	12	23	
47411.000	35 W	5	10	
46437.000	20 W	11	21	
46437 000	35 W	5	10	

00lx 500lx 34 56 16 26 56 16 26 32 52 15 24 47420.000 20 W 32 52 47420.000 35 W 10 15 24 51 46427.000 20 W 11 21 31 46427.000 35 W 10 14 23 47410.000 20 W 47410.000 35 W 10 14 23 Illuminance En (Ix) for module (m) 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 46428 000 20 W 417 278 209 157 46428.000 35 W 615 461 923 346 47411.000 20 W 417 278 209 157 47411.000 923 615 461 346 46437 000 20 W 445 297 222 167 46437.000 35 W 970 647 485 364 47420.000 20 W 297 222 167 47420.000 35 W 970 647 485 364 230 46427.000 20 W 460 307 173 46427.000 1013 675 506 380 35 W 20 W 47410.000 307 47410.000 35 W 1013 675 506 380

Connected loa	ad	
without contr	ol gea	ır
46428.000	P:	20 W
46428.000	P:	35 W
47411.000	P:	20 W
47411.000	P:	35 W
46437.000	P:	20 W
46437.000	P:	35 W
47420.000	P:	20 W
47420.000	P:	35 W
46427.000	P:	20 W
46427.000	P:	35 W
47410.000	P:	20 W
47410.000	P:	35 W

Connected load per 100b without control gear 46428.000 2.22 W/m² 1.76 W/m² 2.22 W/m² 46428.000 47411.000 47411.000 1.76 W/m² 46437.000 2.08 W/m² 46437 000 1 67 W/m² 47420.000 2.08 W/m² 47420.000 1.67 W/m² 46427.000 2.01 W/m² 46427 000 1 60 W/m² 47410.000 2.01 W/m² 47410.000 1.60 W/m² Number of luminaires per 100lx 46428.000 11.09 1/100m² 5.02 1/100m² 11.09 1/100m² 46428.000 47411.000 5.02 1/100m² 47411.000 46437.000 10.40 1/100m² 46437 000 4 77 1/100m² 47420.000 10.40 1/100m² 47420.000 4.77 1/100m² 46427.000 10.05 1/100m² 46427 000 n* 4 57 1/100m² 47410.000 10.05 1/100m² 47410.000 4.57 1/100m²







detail

LMF D

日本

Weight 0.66kg



Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

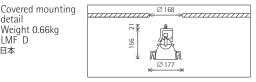
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, bright

anodised. Reflector size 4, cut-off angle

Control gear to be ordered separately. Accessories page 557







LOR 0.53 UGR 1000 cd/m² 55° <

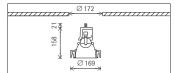




LOR 0.56 UGR 55° < 1000 cd/m²

47413.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warn white Wide diffuser: glass, frosted.
wide diffuser. glass, frosted.

Flush mounting detail Weight 0.66kg LMF D 日本







UGR 55° < 189 1000 cd/m²



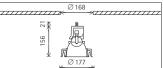


LOR 0.56 UGR 21.8 1000 cd/m² 55° <

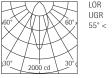
46438.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Focal diffuser: glass, frosted, with clear

centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.66kg LMF D 日本







1000 cd/m²



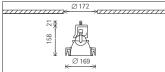


0.58 UGR 20.5 1000 cd/m² 55° <

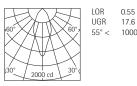
47421.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white
Focal diffuser: glass, frosted, with clear
centre to increase the brilliance at the
centre of the beam.

Flush mounting detail Weight 0.66kg LMF D 日本









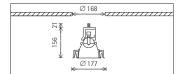


0.58 UGR 20.5 $1000\;\text{cd/m}^2$ 55° <

17.6

 $1000\;\text{cd/m}^2$

46429.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.66kg LMF D 日本







LOR 0.58 UGR 17.9 55° < 1000 cd/m²

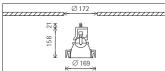
0.62

20.8 1000 cd/m²

UGR 55° <

Ø

47412.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.66kg LMF D 日本





HIT-TC-CE



LOR 0.58 UGR 17.9 55° < 1000 cd/m²





LOR 0.62 UGR 20.8 55° < 1000 cd/m²

515

Number of lu	ıminaires p	er 100m ²	for			
		100lx	200lx	300lx	500lx	
16430.000	20 W	12	23	34	57	
16430.000	35 W	6	11	16	26	
17413.000	20 W	12	23	34	57	
17413.000	35 W	6	11	16	26	
16438.000	20 W	11	22	33	54	
16438.000	35 W	5	10	15	25	
17421.000	20 W	11	22	33	54	
17421.000	35 W	5	10	15	25	
16429.000	20 W	11	21	31	51	
16429.000	35 W	5	10	14	23	
17412.000	20 W	11	21	31	51	
17412 000	35 W	5	10	14	23	

Illuminano	e E _n (lx) foi	r module (m)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46430.000	20 W	411	274	206	154
46430.000	35 W	914	609	457	343
47413.000	20 W	411	274	206	154
47413.000	35 W	914	609	457	343
46438.000	20 W	429	286	214	161
46438.000	35 W	953	635	476	357
47421.000	20 W	429	286	214	161
47421.000	35 W	953	635	476	357
46429.000	20 W	455	303	228	171
46429.000	35 W	1018	678	509	382
47412.000	20 W	455	303	228	171
47412.000	35 W	1018	678	509	382

Connected lo	ad	
without conti	rol gea	ır
46430.000	P:	20 W
46430.000	P:	35 W
47413.000	P:	20 W
47413.000	P:	35 W
46438.000	P:	20 W
46438.000	P:	35 W
47421.000	P:	20 W
47421.000	P:	35 W
46429.000	P:	20 W
46429.000	P:	35 W
47412.000	P:	20 W
47412.000	P:	35 W

Connected Id	oad per	100lx
without conf	trol gea	ır
46430.000	P*:	2.25 W/m ²
46430.000	P*:	1.77 W/m ²
47413.000	P*:	2.25 W/m ²
47413.000	P*:	1.77 W/m ²
46438.000	P*:	2.16 W/m ²
46438.000	P*:	1.70 W/m ²
47421.000	P*:	2.16 W/m ²
47421.000	P*:	1.70 W/m ²
46429.000	P*:	2.03 W/m ²
46429.000	P*:	1.59 W/m ²
47412.000	P*:	2.03 W/m ²
47412.000	P*:	1.59 W/m ²

Number of Iu	minaire	s per 100lx
46430.000	n*:	11.25 1/100m ²
46430.000	n*:	5.07 1/100m ²
47413.000	n*:	11.25 1/100m ²
47413.000	n*:	5.07 1/100m ²
46438.000	n*:	10.79 1/100m ²
46438.000	n*:	4.86 1/100m ²
47421.000	n*:	10.79 1/100m ²
47421.000	n*:	4.86 1/100m ²
46429.000	n*:	10.17 1/100m ²
46429.000	n*:	4.55 1/100m ²
47412.000	n*:	10.17 1/100m ²
47412.000	n*:	4.55 1/100m ²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

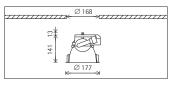
Cable with plug, L 500mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, bright

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Control gear to be ordered separately.

Accessories page 557

46401.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.









LOR 0.60 UGR 18.8 65° < 200 cd/m²





LOR 0.60 UGR 21.3 65° < 200 cd/m²

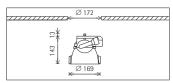




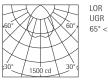
LOR 0.61 UGR 23.9 65° < 1000 cd/m²

47453.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D 日本













LOR 0.60 UGR 21.3 65° < 200 cd/m²

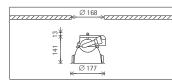




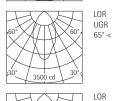
LOR 0.61 UGR 23.9 65° < 1000 cd/m²

46404.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.75kg LMF D 日本







LOR	0.63
UGR	20.2
65° <	200 cd/m ²

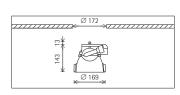
0.63

1000 cd/m²

UGR 65° <



Flush mounting detail Weight 0.75kg LMF D 日本





HIT-CE



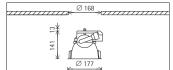


HIT-CE



LOR 0.63 UGR 22.7 65° < 1000 cd/m²

46400.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.75kg LMF D 日本







LOR 0.67 UGR 17.4 65° < 200 cd/m²





LOR 0.67 UGR 19.9 65° < 200 cd/m²

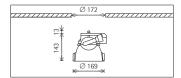




LOR 0.67 UGR 22.4 65° < 1000 cd/m²

47452.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D 日本







LOR 0.67 UGR 17.4 65° < 200 cd/m²





LOR 0.67 UGR 19.9 65° < 200 cd/m²





LOR 0.67 UGR 22.4 65° < 1000 cd/m²

Number of lu	minaires p	er 100m²	for		
		100lx	200lx	300lx	500lx
46401.000	20 W	10	19	29	48
46401.000	35 W	5	10	14	24
46401.000	70 W	3	5	7	11
47453.000	20 W	10	19	29	48
47453.000	35 W	5	10	14	24
47453.000	70 W	3	5	7	11
46404.000	35 W	5	9	13	22
46404.000	70 W	3	5	7	11
47456.000	35 W	5	9	13	22
47456.000	70 W	3	5	7	11
46400.000	20 W	9	17	26	43
46400.000	35 W	5	9	13	21
46400.000	70 W	2	4	6	10

17

2.4x2.4	1.8x2.4	1.8x1.8	1.2x1.8		
183	243	325	487	20 W	46401.000
376	502	669	1003	35 W	46401.000
788	1051	1401	-	70 W	46401.000
183	243	325	487	20 W	47453.000
376	502	669	1003	35 W	47453.000
788	1051	1401	-	70 W	47453.000
399	533	710	1065	35 W	46404.000
830	1106	1475	-	70 W	46404.000
399	533	710	1065	35 W	47456.000
830	1106	1475	-	70 W	47456.000
205	274	365	547	20 W	46400.000
423	564	751	1127	35 W	46400.000
884	1179	1572	-	70 W	46400.000
205	274	365	547	20 W	47452.000
423	564	751	1127	35 W	47452.000
884	1179	1572	-	70 W	47452.000

Connected lo	ad		
without cont	rol gea	ır	
46401.000	P:	20 W	
46401.000	P:	35 W	
46401.000	P:	70 W	
47453.000	P:	20 W	
47453.000	P:	35 W	
47453.000	P:	70 W	
46404.000	P:	35 W	
46404.000	P:	70 W	
47456.000	P:	35 W	
47456.000	P:	70 W	
46400.000	P:	20 W	
46400.000	P:	35 W	
46400.000	P:	70 W	
47452.000	P:	20 W	
47452.000	P:	35 W	
47452.000	P:	70 W	

20 W

70 W

47452.000

47452.000

Connected lo	ad per	100lx
without cont	rol gea	ır
46401.000	P*:	1.90 W/m ²
46401.000	P*:	1.62 W/m ²
46401.000	P*:	1.54 W/m ²
47453.000	P*:	1.90 W/m ²
47453.000	P*:	1.62 W/m ²
47453.000	P*:	1.54 W/m ²
46404.000	P*:	1.52 W/m ²
46404.000	P*:	1.46 W/m ²
47456.000	P*:	1.52 W/m ²
47456.000	P*:	1.46 W/m ²
46400.000	P*:	1.69 W/m ²
46400.000	P*:	1.44 W/m ²
46400.000	P*:	1.37 W/m ²
47452.000	P*:	1.69 W/m ²
47452.000	P*:	1.44 W/m ²
47452.000	P*:	1.37 W/m ²

43

26 13

46401.000	n*:	9.51 1/100m ²	
46401.000	n*:	4.61 1/100m ²	
46401.000	n*:	2.20 1/100m ²	
47453.000	n*:	9.51 1/100m ²	
47453.000	n*:	4.61 1/100m ²	
47453.000	n*:	2.20 1/100m ²	
46404.000	n*:	4.35 1/100m ²	
46404.000	n*:	2.09 1/100m ²	
47456.000	n*:	4.35 1/100m ²	
47456.000	n*:	2.09 1/100m ²	
46400.000	n*:	8.46 1/100m ²	
46400.000	n*:	4.11 1/100m ²	
46400.000	n*:	1.96 1/100m ²	
47452.000	n*:	8.46 1/100m ²	
47452.000	n*:	4.11 1/100m ²	

517

47452.000

Number of luminaires per 100lx







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

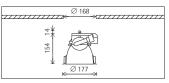
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail Cable with plug, L 500mm.

Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

anodised. Cut-off angle 40°. Control gear to be ordered separately. Accessories page 557

46403.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

















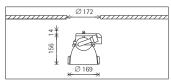




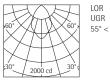
0.60 UGR 1000 cd/m² 55° <

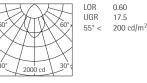
47455.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.80kg LMF D 日本

















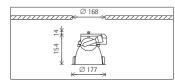




46405.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

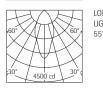
Covered mounting detail Weight 0.80kg LMF D 日本

日本





HIT-CE





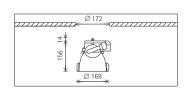
0.62

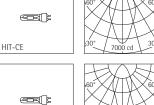
1000 cd/m²

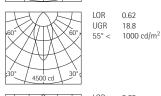
LOR

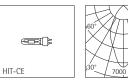
UGR 55° <

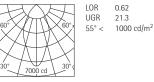








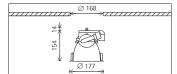




Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the

centre of the beam.

46402.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.80kg LMF D 日本







LOR 0.66 UGR 15.8 55° < 200 cd/m²





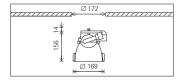
LOR 0.66 UGR 18.3 55° < 1000 cd/m²





LOR 0.66 UGR 20.8 55° < 1000 cd/m²

47454.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.80kg LMF D 日本







LOR 0.66 UGR 15.8 55° < 200 cd/m²





LOR 0.66 UGR 18.3 55° < 1000 cd/m²





LOR 0.66 UGR 20.8 55° < 1000 cd/m²

Number of lu	ıminaires p	er 100m²	for			
		100lx	200lx	300lx	500lx	
46403.000	20 W	10	19	29	48	
46403.000	35 W	5	10	14	23	
46403.000	70 W	3	5	7	12	
47455.000	20 W	10	19	29	48	
47455.000	35 W	5	10	14	23	
47455.000	70 W	3	5	7	12	
46405.000	35 W	5	9	14	22	
46405.000	70 W	3	5	7	11	
47457.000	35 W	5	9	14	22	
47457.000	70 W	3	5	7	11	
46402.000	20 W	9	17	26	42	
46402.000	35 W	5	9	13	21	
46402.000	70 W	2	4	6	10	
47454.000	20 W	9	17	26	42	
47454.000	35 W	5	9	13	21	

2

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2
46403.000	20 W	491	327	245	18
46403.000	35 W	1011	674	505	37
46403.000	70 W	-	1396	1047	78
47455.000	20 W	491	327	245	18
47455.000	35 W	1011	674	505	37
47455.000	70 W	-	1396	1047	78
46405.000	35 W	1055	703	527	39
46405.000	70 W	-	1476	1107	83
47457.000	35 W	1055	703	527	3
47457.000	70 W	-	1476	1107	83
46402.000	20 W	551	367	275	20
46402.000	35 W	1135	757	567	42
46402.000	70 W	-	1580	1185	8
47454.000	20 W	551	367	275	2
47454.000	35 W	1135	757	567	4:
47454.000	70 W	-	1580	1185	8

Connected load without control gear 46403.000 35 W 70 W 46403.000 46403.000 47455.000 20 W 47455.000 35 W 47455.000 70 W 46405.000 35 W 46405.000 70 W 47457.000 47457.000 70 W 46402.000 20 W 46402.000 35 W 46402.000 P: P: 70 W 47454 000 20 W 47454.000 35 W 47454.000 70 W

70 W

47454.000

Connected load per 100lx without control gear 46403.000 1.89 W/m² 1.60 W/m² 1.55 W/m² 46403.000 46403.000 47455.000 1.89 W/m² 47455.000 1.60 W/m² 47455.000 1.55 W/m² 46405.000 1.54 W/m² 46405.000 1.46 W/m² 47457.000 1.54 W/m² 47457.000 1.46 W/m² 46402.000 1.68 W/m² 46402.000 1.43 W/m² 46402.000 1.37 W/m² 1.68 W/m² 47454 000 47454.000 1.43 W/m² 47454.000 1.37 W/m²

10

Number of luminaires per 100lx 46403.000 9.44 1/100m² 46403.000 46403.000 4.58 1/100m² 2.21 1/100m² 47455.000 9.44 1/100m² 47455.000 4.58 1/100m² 47455.000 2.21 1/100m² 46405.000 4.39 1/100m² 46405.000 2.09 1/100m² 47457.000 4.39 1/100m² 47457.000 2.09 1/100m² 46402.000 8.41 1/100m²

4.08 1/100m²

1.95 1/100m²

8.41 1/100m²

4.08 1/100m²

1.95 1/100m²

519

46402.000

46402.000

47454 000

47454.000

47454.000







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

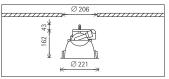
Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised

ised.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
Control gear to be ordered separately.

Accessories page 557

46409.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.









LOR 0.63 UGR 17.7 65° < 200 cd/m²





LOR 0.63 UGR 20.2 65° < 200 cd/m²





LOR 0.63 UGR 22.8 65° < 1000 cd/m²

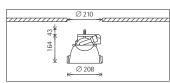




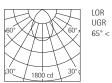
LOR 0.62 UGR 25.2 65° < 1000 cd/m²

47461.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本























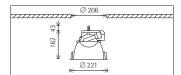


LOR 0.62 UGR 25.2 65° < 1000 cd/m²

520 ERCO Program 2010/11 www.erco.com

46412.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.95kg LMF D 日本







LOR 0.65 UGR 18.8 65° < 200 cd/m²





LOR 0.65 UGR 21.5 65° < 200 cd/m²

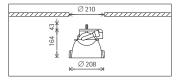




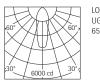
LOR 0.63 UGR 24.0 65° < 1000 cd/m²

47464.000 Reflector silver
HIT-CE 35W G12 3500lm
HIT-CE 70W G12 7300lm
HIT-CE 150W G12 15000lm
Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.95kg LMF D 日本







LOR 0.65 UGR 18.8 65° < 200 cd/m²





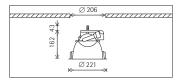
LOR 0.65 UGR 21.5 65° < 200 cd/m²





LOR 0.63 UGR 24.0 2 65° < 1000 cd/m²

46408.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.95kg LMF D 日本







LOR 0.69 UGR 16.0 65° < 200 cd/m²





LOR 0.69 UGR 18.5 65° < 200 cd/m²









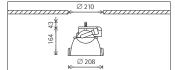


LOR 0.67 UGR 23.6 65° < 1000 cd/m²

521

47460.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本







LOR UGR 65° < 16.0 200 cd/m²





LOR 0.69 UGR 65° < 18.5 200 cd/m²





0.70 21.2 1000 cd/m² UGR 65° <





0.67 UGR 23.6 1000 cd/m² 65° <

Number of luminaires per 100m ² for							
		100lx	200lx	300lx	500lx		
46409.000	20 W	9	19	28	46		
46409.000	35 W	5	9	14	22		
46409.000	70 W	3	5	7	11		
46409.000	150 W	1	3	4	6		
47461.000	20 W	9	19	28	46		
47461.000	35 W	5	9	14	22		
47461.000	70 W	3	5	7	11		
47461.000	150 W	1	3	4	6		
46412.000	35 W	5	9	13	22		
46412.000	70 W	2	5	7	11		
46412.000	150 W	1	2	3	6		
47464.000	35 W	5	9	13	22		
47464.000	70 W	2	5	7	11		
47464.000	150 W	1	2	3	6		
46408.000	20 W	9	17	25	41		
46408.000	35 W	4	8	12	20		
46408.000	70 W	2	4	6	10		
46408.000	150 W	1	2	3	5		
47460.000	20 W	9	17	25	41		
47460.000	35 W	4	8	12	20		

Illuminance	E _n (lx) for	module (m	1)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46409.000	20 W	512	341	256	192
46409.000	35 W	1055	703	527	395
46409.000	70 W	-	1469	1102	826
46409.000	150 W	-	-	-	1655
47461.000	20 W	512	341	256	192
47461.000	35 W	1055	703	527	395
47461.000	70 W	-	1469	1102	826
47461.000	150 W	-	-	-	165
46412.000	35 W	1090	727	545	409
46412.000	70 W	-	1517	1138	853
46412.000	150 W	-	-	-	1709
47464.000	35 W	1090	727	545	409
47464.000	70 W	-	1517	1138	853
47464.000	150 W	-	-	-	1709
46408.000	20 W	565	377	283	212
46408.000	35 W	1164	776	582	437
46408.000	70 W	-	1644	1233	925
46408.000	150 W	-	-	-	1832
47460.000	20 W	565	377	283	212
47460.000	35 W	1164	776	582	437
47460.000	70 W	-	1644	1233	925
47460.000	150 W	-	-	-	1832

Connected lo	oad	
without con-	trol ge	ar
46409.000	P:	20 W
46409.000	P:	35 W
46409.000	P:	70 W
46409.000	P:	150 W
47461.000	P:	20 W
47461.000	P:	35 W
47461.000	P:	70 W
47461.000	P:	150 W
46412.000	P:	35 W
46412.000	P:	70 W
46412.000	P:	150 W
47464.000	P:	35 W
47464.000	P:	70 W
47464.000	P:	150 W
46408.000	P:	20 W
46408.000	P:	35 W
46408.000	P:	70 W
46408.000	P:	150 W
47460.000	P:	20 W
47460.000	P:	35 W
47460.000	P:	70 W

47460.000 P:

150 W

70 W

150 W

47460.000 47460.000

Connected lo	oad per	100lx	Nu
without con-	trol gea	ır	
46409.000	P*:	1.81 W/m ²	464
46409.000	P*:	1.54 W/m ²	464
46409.000	P*:	1.47 W/m ²	464
46409.000	P*:	1.57 W/m ²	464
47461.000	P*:	1.81 W/m ²	474
47461.000	P*:	1.54 W/m ²	474
47461.000	P*:	1.47 W/m ²	474
47461.000	P*:	1.57 W/m ²	474
46412.000	P*:	1.49 W/m ²	464
46412.000	P*:	1.42 W/m ²	464
46412.000	P*:	1.52 W/m ²	464
47464.000	P*:	1.49 W/m ²	474
47464.000	P*:	1.42 W/m ²	474
47464.000	P*:	1.52 W/m ²	474
46408.000	P*:	1.64 W/m ²	464
46408.000	P*:	1.39 W/m ²	464
46408.000	P*:	1.31 W/m ²	464
46408.000	P*:	1.42 W/m ²	464
47460.000	P*:	1.64 W/m ²	474
47460.000	P*:	1.39 W/m ²	474
47460.000	P*:	1.31 W/m ²	474

1.42 W/m²

10 5

47460.000 P*:

minaires	per 100lx
n*:	9.04 1/100m ²
n*:	4.39 1/100m ²
n*:	2.10 1/100m ²
n*:	1.05 1/100m ²
n*:	9.04 1/100m ²
n*:	4.39 1/100m ²
n*:	2.10 1/100m ²
n*:	1.05 1/100m ²
n*:	4.25 1/100m ²
n*:	2.03 1/100m ²
n*:	1.02 1/100m ²
n*:	4.25 1/100m ²
n*:	2.03 1/100m ²
n*:	1.02 1/100m ²
n*:	8.19 1/100m ²
n*:	3.98 1/100m ²
n*:	1.88 1/100m ²
n*:	0.95 1/100m ²
n*:	8.19 1/100m ²
n*:	3.98 1/100m ²
n*:	1.88 1/100m ²
n*:	0.95 1/100m ²
	n*:

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Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

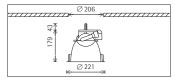
Cable with plug, L 500mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, bright

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Control gear to be ordered separately.

Accessories page 557

46411.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.









LOR 0.62 UGR 16.4 55° < 200 cd/m²





LOR 0.62 UGR 18.9 55° < 1000 cd/m²





LOR 0.62 UGR 21.4 55° < 1000 cd/m²

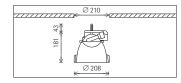




LOR 0.61 UGR 23.9 55° < 1000 cd/m²

47463.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本







UGR 0.62 UGR 16.4 55° < 200 cd/m²















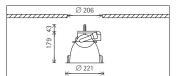


LOR 0.61 UGR 23.9 55° < 1000 cd/m²

523

46413.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.95kg LMF D 日本







LOR 0.64 UGR 17.5 55° < 200 cd/m²





LOR 0.64 UGR 20.1 55° < 1000 cd/m²

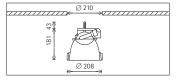




LOR 0.62 UGR 22.7 55° < 1000 cd/m²

47465.000 Reflector silver
HIT-CE 35W G12 3500lm
HIT-CE 70W G12 7300lm
HIT-CE 150W G12 15000lm
Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.95kg LMF D 日本







LOR 0.64 UGR 17.5 55° < 200 cd/m²





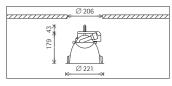
LOR 0.64 UGR 20.1 55° < 1000 cd/m²





LOR 0.62 UGR 22.7 55° < 1000 cd/m²

46410.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.95kg LMF D 日本







LOR 0.68 UGR 14.4 55° < 200 cd/m²





LOR 0.68 UGR 16.9 55° < 200 cd/m²









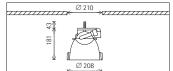


LOR 0.67 UGR 22.1 55° < 1000 cd/m²

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47462.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本







UGR 0.68 UGR 14.4 55° < 200 cd/m²





UGR 0.68 UGR 16.9 55° < 200 cd/m²





LOR 0.68 UGR 19.4 55° < 1000 cd/m²





LOR 0.67 UGR 22.1 55° < 1000 cd/m²

Number of luminaires per 100m ² for						
		100lx	200lx	300lx	500lx	
46411.000	20 W	10	19	28	46	
46411.000	35 W	5	9	14	23	
46411.000	70 W	3	5	7	11	
46411.000	150 W	2	3	4	6	
47463.000	20 W	10	19	28	46	
47463.000	35 W	5	9	14	23	
47463.000	70 W	3	5	7	11	
47463.000	150 W	2	3	4	6	
46413.000	35 W	5	9	13	22	
46413.000	70 W	2	5	7	11	
46413.000	150 W	1	2	3	6	
47465.000	35 W	5	9	13	22	
47465.000	70 W	2	5	7	11	
47465.000	150 W	1	2	3	6	
46410.000	20 W	9	17	25	41	
46410.000	35 W	4	8	12	20	
46410.000	70 W	2	4	6	10	
46410.000	150 W	1	2	3	5	
47462.000	20 W	9	17	25	41	
47462.000	35 W	4	8	12	20	
47462.000	70 W	2	4	6	10	
47462 000	150 W	1	2	3	5	

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2
46411.000	20 W	507	338	254	19
46411.000	35 W	1046	697	523	39
46411.000	70 W	-	1456	1092	81
46411.000	150 W	-	-	-	165
47463.000	20 W	507	338	254	19
47463.000	35 W	1046	697	523	39
47463.000	70 W	-	1456	1092	81
47463.000	150 W	-	-	-	165
46413.000	35 W	1094	729	547	4
46413.000	70 W	-	1517	1138	8
46413.000	150 W	-	-	-	17
47465.000	35 W	1094	729	547	4
47465.000	70 W	-	1517	1138	8
47465.000	150 W	-	-	-	17
46410.000	20 W	566	377	283	2
46410.000	35 W	1166	777	583	43
46410.000	70 W	-	1627	1220	91
46410.000	150 W	-	-	-	184
47462.000	20 W	566	377	283	2
47462.000	35 W	1166	777	583	43
47462.000	70 W	-	1627	1220	9
47462.000	150 W	_	_	_	184

Connected lo	204						
without cont							
46411.000	P:	20 W					
46411.000	P:	35 W					
46411.000	P:	70 W					
46411.000	P:	150 W					
47463.000	P:	20 W					
47463.000	P:	35 W					
47463.000	P:	70 W					
47463.000	P:	150 W					
46413.000	P:	35 W					
46413.000	P:	70 W					
46413.000	P:	150 W					
47465.000	P:	35 W					
47465.000	P:	70 W					
47465.000	P:	150 W					
46410.000	P:	20 W					
46410.000	P:	35 W					
46410.000	P:	70 W					
46410.000	P:	150 W					
47462.000	P:	20 W					
47462.000	P:	35 W					
47462.000	P:	70 W					
47462.000	P:	150 W					

Connected lo			Number of I
46411.000	roi gea	1.82 W/m ²	46411.000
46411.000	P*:	1.55 W/m ²	46411.000
46411.000	P*:	1.48 W/m ²	46411.000
46411.000	P*:	1.58 W/m ²	46411.000
47463.000	P*:	1.82 W/m ²	47463.000
47463.000	P*:	1.55 W/m ²	47463.000
47463.000	P*:	1.48 W/m ²	47463.000
47463.000	P*:	1.58 W/m ²	47463.000
46413.000	P*:	1.48 W/m ²	46413.000
46413.000	P*:	1.42 W/m ²	46413.000
46413.000	P*:	1.52 W/m ²	46413.000
47465.000	P*:	1.48 W/m ²	47465.000
47465.000	P*:	1.42 W/m ²	47465.000
47465.000	P*:	1.52 W/m ²	47465.000
46410.000	P*:	1.64 W/m ²	46410.000
46410.000	P*:	1.39 W/m ²	46410.000
46410.000	P*:	1.33 W/m ²	46410.000
46410.000	P*:	1.41 W/m ²	46410.000
47462.000	P*:	1.64 W/m ²	47462.000
47462.000	P*:	1.39 W/m ²	47462.000
47462.000	P*:	1.33 W/m ²	47462.000
47462.000	P*:	1.41 W/m ²	47462.000

Number of lu	minaires	per 100lx
46411.000	n*:	9.12 1/100m ²
46411.000	n*:	4.43 1/100m ²
46411.000	n*:	2.12 1/100m ²
46411.000	n*:	1.05 1/100m ²
47463.000	n*:	9.12 1/100m ²
47463.000	n*:	4.43 1/100m ²
47463.000	n*:	2.12 1/100m ²
47463.000	n*:	1.05 1/100m ²
46413.000	n*:	4.23 1/100m ²
46413.000	n*:	2.03 1/100m ²
46413.000	n*:	1.01 1/100m ²
47465.000	n*:	4.23 1/100m ²
47465.000	n*:	2.03 1/100m ²
47465.000	n*:	1.01 1/100m ²
46410.000	n*:	8.18 1/100m ²
46410.000	n*:	3.97 1/100m ²
46410.000	n*:	1.90 1/100m ²
46410.000	n*:	0.94 1/100m ²
47462.000	n*:	8.18 1/100m ²
47462.000	n*:	3.97 1/100m ²
47462.000	n*:	1.90 1/100m ²

0.94 1/100m²

525







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

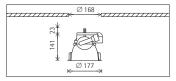
Cable with plug, L 750mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

anodised. Cut-off angle 30°.
Control gear to be ordered separately.

Accessories page 557

46515.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.







HST



LOR 0.58 UGR 19.8 65° < 200 cd/m²

0.50

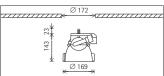
21.8 200 cd/m²

UGR

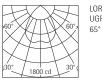
65° <



Flush mounting detail Weight 0.75kg LMF D

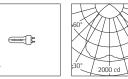






LOR 0.58 UGR 19.8 65° < 200 cd/m²

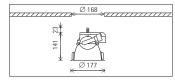




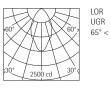


46518.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.









LOR 0.60 UGR 18.6 65° < 200 cd/m²

0.51

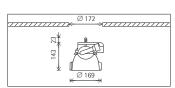
20.8 200 cd/m²

UGR

65° <



Flush mounting detail Weight 0.75kg LMF D









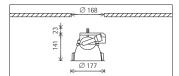




LOR 0.51 UGR 20.8 65° < 200 cd/m²

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46514.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.75kg LMF D







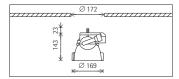
UGR 184 200 cd/m² 65° <

HST



0.55 UGR 20.6 200 cd/m² 65° <

47500.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.75kg LMF D







0.64 UGR 18.4 200 cd/m² 65° <



46514.000

47500.000

47500.000

100 W

50 W

100 W



0.55 UGR 20.6 200 cd/m² 65° <

251

434

251

434

258

454

258

454

280

490

280

490

Number	of luminai	res per	100m ²	for
			100lx	20

		100lx	2001x	300lx	500lx
46515.000	50 W	7	14	21	35
46515.000	100 W	4	8	12	20
47501.000	50 W	7	14	21	35
47501.000	100 W	4	8	12	20
46518.000	50 W	7	14	21	34
46518.000	100 W	4	8	12	20
47504.000	50 W	7	14	21	34
47504.000	100 W	4	8	12	20
46514.000	50 W	7	13	19	31
46514.000	100 W	4	8	11	18
47500.000	50 W	7	13	19	31
47500.000	100 W	4	8	11	18

Illuminance En (lx) for module (m) 1.2x1.8 1.8x2.4 2.4x2.4 46515.000 50 W 668 446 334 46515.000 100 W 771 1156 578 47501.000 50 W 668 334 47501.000 100 W 1156 771 578 46518 000 50 W 687 458 344 46518.000 100 W 606 1212 808 47504.000 50 W 687 458 47504.000 100 W 1212 808 606 46514.000 50 W 746 497 373

1306

1306

Connected load without control gear 46515.000 50 W 46515,000 100 W 47501.000 50 W 47501.000 100 W 46518.000 50 W 46518 000 100 W 47504.000 50 W 47504.000 100 W 46514.000 50 W 46514 000 100 W 47500.000 50 W 47500.000 100 W

Connected load per 100b without control gear 46515.000 3.46 W/m² 46515.000 4.00 W/m² 3.46 W/m² 47501.000 4.00 W/m² 47501.000 46518.000 3.37 W/m² 46518 000 3.82 W/m² 3.37 W/m² 47504.000 47504.000 3.82 W/m² 46514.000 3.10 W/m² 46514 000 3 54 W/m² 47500.000 3.10 W/m² 3.54 W/m² 47500.000

871 Number of luminaires per 100lx

871

653

653

46515.000	n*:	6.93 1/100m ²
46515.000	n*:	4.00 1/100m ²
47501.000	n*:	6.93 1/100m ²
47501.000	n*:	4.00 1/100m ²
46518.000	n*:	6.74 1/100m ²
46518.000	n*:	3.82 1/100m ²
47504.000	n*:	6.74 1/100m ²
47504.000	n*:	3.82 1/100m ²
46514.000	n*:	6.21 1/100m ²
46514.000	n*:	3.54 1/100m ²
47500.000	n*:	6.21 1/100m ²
47500.000	n*:	3.54 1/100m ²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic,

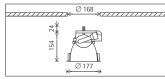
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 750mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, bright

anodised. Cut-off angle 40° Control gear to be ordered separately. Accessories page 557

46517.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.









LOR 0.57 UGR 18.5 200 cd/m²





LOR 0.49 UGR 20.6 55° < 1000 cd/m²

47503.000 Reflector silver Flush mounting LOR HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm UGR 55° < detail 18.5 Weight 0.80kg LMF D 200 cd/m² Wide diffuser: glass, frosted. HST LOR 0.49 20.6 1000 cd/m² UGR 55° < HST 46519.000 Reflector silver Covered mounting Ø 168 HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm detail UGR Weight 0.80kg LMF D 200 cd/m² 55° < Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the 154 centre of the beam. HST 0.51 UGR 19.4 1000 cd/m² 55° < HST 47505.000 Reflector silver Flush mounting 0.59 Ø 172 HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm detail UGR 17.3 Weight 0.80kg LMF D 200 cd/m² 55° < Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam. HST 0.51 UGR 19.4 $1000\;\text{cd/m}^2$ 55° <

HST

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47503.000

46519.000

46519 000

47505.000

47505.000

46516.000

46516,000

47502.000

47502.000

100 W

50 W

100 W

50 W

100 W

50 W

100 W

50 W

100 W

46516.000 Reflector silver Covered mounting Ø 168 HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm UGR 55° < 16.7 detail Weight 0.80kg LMF D 200 cd/m² Narrow diffuser: glass, frosted. HST 0.55 UGR 19.1 1000 cd/m² 55° < **HST** 47502.000 Reflector silver Flush mounting 0.63 Ø 172 HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm UGR detail 200 cd/m² Weight 0.80kg 55° < LMF D Narrow diffuser: glass, frosted. HST 0.55 UGR 19.1 1000 cd/m² 55° < HST Number of luminaires per 100m² for Illuminance En (Ix) for module (m) 100lx 200lx 300lx 500lx 1.2x1.8 1.8x2.4 2.4x2.4 46517 000 46517 000 50 W 50 W 14 21 35 663 442 331 249 46517.000 100 W 12 20 46517.000 100 W 435 8 1161 774 581 47503.000 50 W 47503.000 21 35 50 W 663 331 249 47503.000 100 W 12 20 47503.000 100 W 1161 774 581 435 46519 000 50 W 14 20 34 46519 000 50 W 694 462 347 260 46519.000 46519.000 100 W 19 100 W 610 12 1220 813 457 8 47505.000 50 W 20 34 47505.000 50 W 694 462 260 47505.000 100 W 8 12 19 47505.000 100 W 1220 813 610 457 46516.000 50 W 13 19 32 46516.000 50 W 745 497 373 279 46516.000 100 W 46516.000 100 W 18 1313 875 656 492 8 11 47502.000 50 W 13 32 47502.000 100 W 18 47502.000 100 W 1313 875 656 492 Connected load Connected load per 100b Number of luminaires per 100lx without control gear without control gear 46517.000 50 W 46517.000 3.49 W/m² 46517.000 6.98 1/100m² 46517.000 100 W 46517.000 3.99 W/m² 46517.000 3.99 1/100m² 47503.000 3.49 W/m² 47503.000 6.98 1/100m² 47503.000 50 W

3.99 W/m²

3.34 W/m²

3.80 W/m²

3.34 W/m²

3.80 W/m²

3.11 W/m²

3 53 W/m²

3.11 W/m²

3.53 W/m²

47503.000

46519.000

46519 000

47505.000

47505.000

46516.000

46516 000

47502.000

47502.000

47503.000

46519.000

46519 000

47505.000

47505.000

46516.000

46516 000

47502.000

47502.000

n*: n*: 3.99 1/100m²

6.67 1/100m²

3.80 1/100m²

6.67 1/100m²

3.80 1/100m²

6.21 1/100m²

3 53 1/100m²

6.21 1/100m²

3.53 1/100m²

529







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology upper reflector:

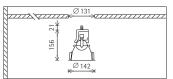
aluminium, silver, mirror-finish anod-

ised.
Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Control gear to be ordered separately. Accessories page 559

46442.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本





Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.60 0.90 0.90 Luminaire spacing (m)
Illuminance E_n (lx) 0.90 0.90 1.20

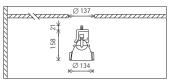


Mean illuminance E_n (Ix) Wall height (m)

0.90 0.90 1.20 1.20 0.90 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)

47425.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本





Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.60 0.90 0.90 Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (lx)



Mean illuminance E_n (lx)

Wall height (m) 4.0 Offset from wall (m) Luminaire spacing (m) 0.90 0.90 1.20 1.20 0.90 1.50 1.20 1.50 Illuminance E_n (Ix) 150







Size 4 40°

Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit tech-

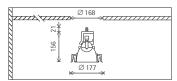
nology wallwasher segment: aluminium, bright anodised. Reflector size 4, cutoff angle 40°.

Control gear to be ordered separately.

Accessories page 559

Covered mounting detail

Weight 0.65kg LMF D 日本





Mean illuminance E_n (lx)

Wall height (m)	3.0		
Offset from wall (m)	0.60	0.90	0.90
Luminaire spacing (m)	0.90	0.90	1.20
Illuminance E _n (lx)	103	76	58



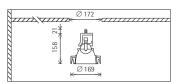
Mean illuminance E_n (lx)

Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.50	1.20	1.50
Illuminance E _n (lx)	150	93	93	75

47426.000 Reflector silver HIT-TC-CE 35W GU6.5 3400lm warm

white Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本





Mean illuminance E_n (lx)

Illuminance E _n (lx)	103	76	58
Luminaire spacing (m)	0.90	0.90	1.20
Offset from wall (m)	0.60	0.90	0.90
Wall height (m)	3.0		



Mean illuminance E_n (lx)

Illuminance E _n (lx)	150	93	93	75
Luminaire spacing (m)	0.90	1.50	1.20	1.50
Offset from wall (m)	0.90	0.90	1.20	1.20
Wall height (m)	4.0			

531







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology upper reflector:

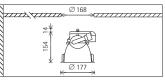
aluminium, silver, mirror-finish anodised.

ised.
Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°.

Control gear to be ordered separately. **Accessories page 559**

46406.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.80kg LMF D 日本





Mean illuminance E_n (lx)

 $\begin{array}{cccc} \text{Wall height (m)} & & 3.0 \\ \text{Offset from wall (m)} & & 0.90 & 0.90 & 1.20 \\ \text{Luminaire spacing (m)} & & 0.90 & 1.20 & 1.20 \\ \text{Illuminance E}_{\text{n}} \text{ (k)} & & \textbf{95} & \textbf{72} & \textbf{54} \\ \end{array}$



$\begin{array}{l} \text{Mean illuminance E}_n \text{ (lx)} \\ \text{Wall height (m)} \end{array}$

 Wall height (m)
 4.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance E_n (lx)
 175
 135
 109
 88



Mean illuminance E_n (Ix)

 Wall height (m)
 6.0

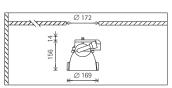
 Offset from wall (m)
 1.20
 1.20
 1.50
 1.50

 Luminaire spacing (m)
 1.20
 1.80
 1.50
 2.10

 Illuminance E_n (lx)
 193
 134
 138
 101



Flush mounting detail Weight 0.80kg LMF D 日本





Mean illuminance E_n (lx)



Mean illuminance E_n (Ix)

 Wall height (m)
 4.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance En (ix)
 175
 135
 109
 88



Mean illuminance E_n (lx)

 Wall height (m)
 6.0

 Offset from wall (m)
 1.20
 1.20
 1.50
 1.50

 Luminaire spacing (m)
 1.20
 1.80
 1.50
 2.10

 Illuminance En (lx)
 193
 134
 138
 101

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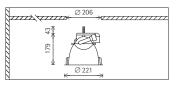
Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Control gear to be ordered separately. Accessories page 559

46415.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.







Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 1.20 1.20 Illuminance E_n (Ix)



Mean illuminance E_n (Ix) Wall height (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)



Mean illuminance E_n (Ix) Wall height (m) 6.0 1.20 1.20 1.20 1.50 1.20 1.50 1.80 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 200 163 137 140



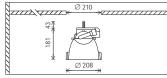
Mean illuminance E_n (Ix) Wall height (m) 8.0 1.50 1.50 1.50 1.80 1.50 1.80 2.10 1.80 Offset from wall (m) Luminaire spacing (m) 237 202 175 180



Illuminance E_n (lx)

47467.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本





Mean illuminance En	(lx)	
Wall height (m)	3.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	1.20	1.20
Illuminance E _n (lx)	68	51



Mean illuminance E _n (lx)					
Wall height (m)	4.0				
Offset from wall (m)	0.90	0.90	1.20	1.20	
Luminaire spacing (m)	0.90	1.20	1.20	1.50	
Illuminance F. (lx)	178	136	109	88	



Mean illuminance E _n	(lx)			
Wall height (m)	6.0			
Offset from wall (m)	1.20	1.20	1.20	1.50
Luminaire spacing (m)	1.20	1.50	1.80	1.50
Illuminance E _n (lx)	200	163	137	140



Ν

Mean illuminance E _n	(lx)			
Wall height (m)	8.0			
Offset from wall (m)	1.50	1.50	1.50	1.80
Luminaire spacing (m)	1.50	1.80	2.10	1.80
Illuminance E _n (lx)	237	202	175	180

533







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Cable with plug, L 750mm. Spherolit technology upper reflector:

aluminium, silver, mirror-finish anod-

ised.
Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 40°. Control gear to be ordered separately. Accessories page 559

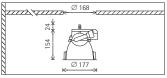
46520.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.

47506.000 Reflector silver

HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm

Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.80kg LMF D



detail



Mean illuminance E_n (lx)

Mean illuminance E_n (Ix) Wall height (m)

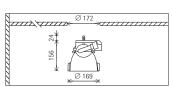
Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m)
Illuminance E_n (lx) 0.90 1.20 1.20 1.50

0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50



Flush mounting detail Weight 0.80kg LMF D





Mean illuminance E_n (Ix)

Wall height (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx)



HST

Mean illuminance E_n (Ix)

Wall height (m) 4.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 210 162 131 106

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Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

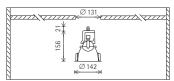
ised. Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle

Control gear to be ordered separately. Accessories page 559

46444.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本





Mean illuminance E_n (lx)

Wall height (m) 3.0 Offset from wall (m) 0.60 0.90 0.90 Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (Ix)



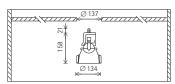
Mean illuminance E_n (Ix)

Wall height (m) 0.90 0.90 1.20 1.20 0.90 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)

47427.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本





Mean illuminance E_n (Ix)

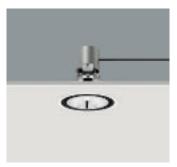
Wall height (m) 3.0 Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (lx) 103 77 59



Mean illuminance E_n (lx)

Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.50	1.20	1.50
Illuminance F _n (lx)	153	94	95	77

535







Size 5 Size 5 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of

1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector with Spherolit tech-

nology wallwasher segments: aluminium, bright anodised. Reflector size 4, cut-off angle 40°.

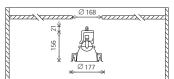
Control gear to be ordered separately.

Accessories page 559

46445.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本





Mean illuminance E_n (lx)

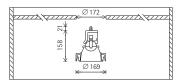
Wall height (m) Offset from wall (m) 0.60 0.90 0.90 Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (Ix)



Mean illuminance E_n (Ix) Wall height (m) 0.90 0.90 1.20 1.20 0.90 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)

47428.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本





Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.60 0.90 0.90 Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (lx)



Mean illuminance E_n (Ix)

Wall height (m) 4.0 0.90 0.90 1.20 1.20 0.90 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 153

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Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised. Darklight reflector with Spherolit tech-

nology wallwasher segments: alu-

minium, bright anodised. Cut-off angle

Control gear to be ordered separately. Accessories page 559

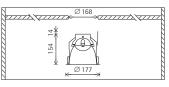
46407.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

47459.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm

Wide diffuser: glass, frosted.

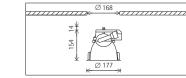
HIT-CE 70W G12 7300lm















6.0

1.20 1.20 1.50 1.50 1.20 1.50 1.80 2.10

191 157 116 100

Mean illuminance E_n (Ix) Wall height (m)

Offset from wall (m)

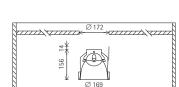
Illuminance E_n (lx)

Luminaire spacing (m)



detail

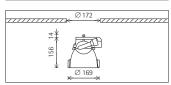
日本





HIT-CE

Mean illuminance En	(lx)		
Wall height (m)	3.0		
Offset from wall (m)	0.90	0.90	1.20
Luminaire spacing (m)	0.90	1.20	1.20
Illuminance E _n (lx)	94	71	54





Mean illuminance E _n	(lx)			
Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (lx)	171	131	108	87



Mean illuminance E _n (lx)					
Wall height (m)	6.0				
Offset from wall (m)	1.20	1.20	1.50	1.50	
Luminaire spacing (m)	1.20	1.50	1.80	2.10	
Illuminance E _n (lx)	191	157	116	100	

537







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

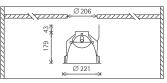
Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle

Control gear to be ordered separately. Accessories page 559

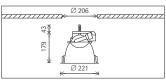
46416.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.95kg LMF D 日本

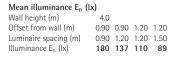




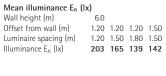
Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m)
Illuminance E_n (lx) 1.20 1.20









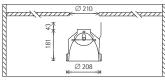




Mean illuminance E_n (Ix) Wall height (m) 8.0 1.50 1.50 1.50 1.80 1.50 1.80 2.10 1.80 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 240 204 177 183

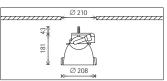
47468.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本





Mean illuminance E _n (lx)						
3.0						
0.90	1.20					
1.20	1.20					
70	51					
	3.0 0.90 1.20					





Mean illuminance En	(lx)			
Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (Ix)	180	137	110	89



Mean illuminance E _n	(lx)			
Wall height (m)	6.0			
Offset from wall (m)	1.20	1.20	1.20	1.50
Luminaire spacing (m)	1.20	1.50	1.80	1.50
Illuminance E _n (Ix)	203	165	139	142



Mean illuminance E_n	(lx)			
Wall height (m)	8.0			
Offset from wall (m)	1.50	1.50	1.50	1.80
Luminaire spacing (m)	1.50	1.80	2.10	1.80
Illuminance E _n (Ix)	240	204	177	183

ERCO Program 2010/11 www.erco.com







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised. Darklight reflector with Spherolit tech-

nology wallwasher segments: alu-

minium, bright anodised. Cut-off angle

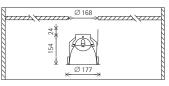
Control gear to be ordered separately. Accessories page 559

46521.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.

HST 50W GX12-1 2400lm

Wide diffuser: glass, frosted.

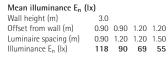




Ø 168



HST



Mean illuminance E_n (Ix)

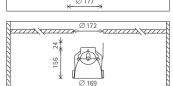
Wall height (m)

Offset from wall (m) Luminaire spacing (m)

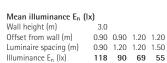
Illuminance E_n (Ix)





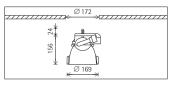






0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50

539





Mean illuminance E _n	(Ix)			
Wall height (m)	4.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance En (lx)	190	145	120	97

Quintessence Lens wallwasher for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

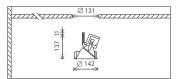
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46446.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Covered mounting detail Weight 0.60kg LMF D 日本



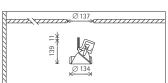


Mean illuminance E_n (Ix) Wall height (m)
Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (lx) 0.90 1.20 0.90 1.20

Mean illuminance E_n (lx) Wall height (m) Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (lx)

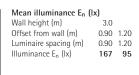


Flush mounting detail Weight 0.60kg LMF D 日本





HIT-TC-CE



1.20 1.50 1.20 1.50



Mean illuminance En	(lx)	
Wall height (m)	4.0	
Offset from wall (m)	1.20	1.50
Luminaire spacing (m)	1.20	1.50
IIIuminance E _n (Ix)	203	135

Quintessence Lens wallwasher with shadow gap for metal halide lamps







Size 4 40°

Size 5 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction.

Mounting ring: plastic, white (RAL9002).

Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology wallwasher re-flector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright

anodised, with upper wallwasher lens designed as safety glass. Reflector size 4, cut-off angle 40°.

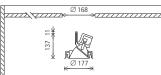
Control gear to be ordered separately.

Accessories page 560

Covered mounting detail Weight 0.71kg LMF D

日本







Mean illuminance E_n (lx)

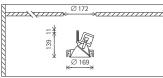
Wall height (m)	3.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	167	95

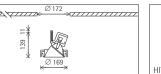


Mean illuminance E_n (Ix) Wall height (m) 4.0 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx)

47430.000 Reflector silver HIT-TC-CE 35W GU6.5 3400lm warm white

Flush mounting detail Weight 0.71kg LMF D 日本







Mean illuminance E_n (Ix) Wall height (m) 3.0 Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (lx)



Mean illuminance E_n (Ix) Wall height (m) 4.0 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx)

541

Quintessence Lens wallwasher for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

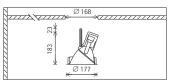
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46500.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Covered mounting detail Weight 0.80kg LMF D 日本 🗆





Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m)
Illuminance E_n (lx) 0.90 1.20



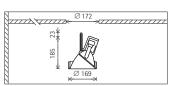
Mean illuminance E_n (lx) Wall height (m) 1.20 1.50 1.50 1.20 1.50 1.80 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)



Mean illuminance E_n (Ix) Wall height (m) 6.0 1.20 1.50 1.80 1.20 1.50 1.80 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx)

47518.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Flush mounting detail Weight 0.80kg LMF D 日本 🗆





Mean illuminance E_n (lx) Wall height (m) 3.0 0.90 1.20 0.90 1.20 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)



Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (lx) 1.20 1.50 1.50 1.20 1.50 1.80 209 138 115



Mean illuminance E _n (I	x)		
Wall height (m)	6.0		
Offset from wall (m)	1.20	1.50	1.80
Luminaire spacing (m)	1.20	1.50	1.80
Illuminance E _n (Ix)	361	260	192

Quintessence Lens wallwasher for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

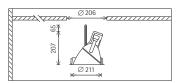
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46504.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm

Covered mounting detail Weight 0.88kg LMF D 日本 🗆





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 4.0 0.90 1.20 1.50 Luminaire spacing (m) 0.90 1.20 1.50 Illuminance E_n (Ix)







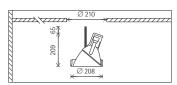
Mean illuminance E_n (lx) Wall height (m) 6.0 Offset from wall (m) 1.20 1.50 1.80 1.20 1.50 1.80 Luminaire spacing (m) Illuminance E_n (lx)



Mean illuminance E_n (Ix) Wall height (m) 8.0 1.80 1.80 2.10 2.10 1.80 2.10 2.10 2.40 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)

47522.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm

Flush mounting detail Weight 0.88kg LMF D 日本 回





Mean illuminance En	(lx)		
Wall height (m)	4.0		
Offset from wall (m)	0.90	1.20	1.50
Luminaire spacing (m)	0.90	1.20	1.50
Illuminance E _n (lx)	161	101	66



Mean illuminance E_n (lx) Wall height (m) 4.0 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 226 148



lx)		
6.0		
1.20	1.50	1.80
1.20	1.50	1.80
381	275	203
	6.0 1.20 1.20	•



Mean illuminance E _n	(lx)			
Wall height (m)	8.0			
Offset from wall (m)	1.80	1.80	2.10	2.10
Luminaire spacing (m)	1.80	2.10	2.10	2.40
Illuminance E _n (lx)	351	304	279	246

Quintessence Lens wallwasher for high-pressure sodium vapour lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

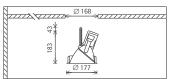
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46522.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm

Covered mounting detail Weight 0.80kg LMF D





HST

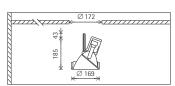
Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (lx) 0.90 1.20 0.90 1.20

1.20 1.50 1.20 1.50

Mean illuminance E_n (lx) Wall height (m) Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (lx)



Flush mounting detail Weight 0.80kg LMF D









Mean illuminance En	(lx)	
Wall height (m)	4.0	
Offset from wall (m)	1.20	1.50
Luminaire spacing (m)	1.20	1.50
Illuminance E _n (Ix)	244	162

Quintessence Focal lens wallwasher for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 500mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

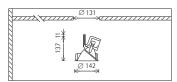
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46448.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Covered mounting detail Weight 0.60kg LMF D 日本





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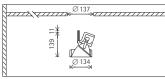
Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 3.0 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)



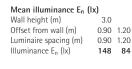
Mean illuminance E_n (Ix) Wall height (m) 4.0 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)

47431.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Flush mounting detail Weight 0.60kg LMF D 日本









Mean illuminance E _n (lx)			
Wall height (m)	4.0		
Offset from wall (m)	1.20	1.50	
Luminaire spacing (m)	1.20	1.50	
Illuminance E _n (lx)	174	115	

545

Quintessence Focal lens wallwasher with shadow gap for metal halide lamps







Size 5 Size 5 Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology wallwasher re-flector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright

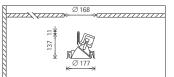
anodised, with upper wallwasher lens designed as safety glass. Reflector size 4, cut-off angle 40°. Control gear to be ordered separately.

Accessories page 560

46449.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white

Covered mounting detail Weight 0.71kg LMF D 日本





Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)

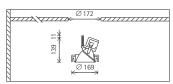


Mean illuminance E_n (lx)

Wall height (m) 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)

47432.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Flush mounting detail Weight 0.71kg LMF D 日本





Mean illuminance E_n (Ix) Wall height (m) 0.90 1.20 Offset from wall (m) Luminaire spacing (m) 0.90 1.20 Illuminance E_n (lx)



Mean illuminance E_n (lx)

Wall height (m) 4.0 Offset from wall (m) Luminaire spacing (m) 1.20 1.50 1.20 1.50 Illuminance E_n (Ix)

Quintessence Focal lens wallwasher for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

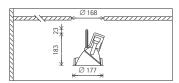
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46501.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Covered mounting detail Weight 0.80kg LMF D 日本回





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 3.0 0.90 1.20 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix)



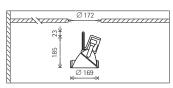




Mean illuminance E_n (Ix) Wall height (m) 6.0 Offset from wall (m) Luminaire spacing (m) 1.20 1.50 1.80 1.20 1.50 1.80 Illuminance E_n (lx) 307 226 171

47519.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

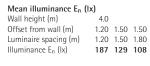
Flush mounting detail Weight 0.80kg LMF D 日本 🗆





Mean illuminance En ((lx)	
Wall height (m)	3.0	
Offset from wall (m)	0.90	1.20
Luminaire spacing (m)	0.90	1.20
Illuminance E _n (lx)	163	100







Mean illuminance E _n	(lx)		
Wall height (m)	6.0		
Offset from wall (m)	1.20	1.50	1.80
Luminaire spacing (m)	1.20	1.50	1.80
Illuminance E _n (lx)	307	226	17

547

Quintessence Focal lens wallwasher for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, bright

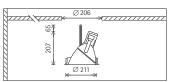
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46505.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm

Covered mounting detail Weight 0.88kg LMF D 日本 🗆





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 1.20 1.50 Luminaire spacing (m) 0.90 1.20 1.50 Illuminance E_n (Ix)



Mean illuminance E_n (lx) Wall height (m) 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)



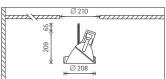
Mean illuminance E_n (lx) Wall height (m) 6.0 Offset from wall (m) 1.20 1.50 1.80 Luminaire spacing (m) 1.20 1.50 1.80 Illuminance E_n (lx)



Mean illuminance E_n (lx) Wall height (m) 8.0 1.80 1.80 2.10 2.10 1.80 2.10 2.10 2.40 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 321 278 258 228

47523.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm

Flush mounting detail Weight 0.88kg LMF D 日本回





Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m) 0.90 1.20 1.50 0.90 1.20 1.50 Luminaire spacing (m) Illuminance E_n (lx) 138 90 61



Mean illuminance E_n (lx) Wall height (m) 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 193 133



Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 1.20 1.50 1.80 Luminaire spacing (m)
Illuminance E_n (lx) 1.20 1.50 1.80



Mean illuminance E_n (lx) Wall height (m) 8.0 1.80 1.80 2.10 2.10 1.80 2.10 2.10 2.40 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 321 278 258 228

Quintessence Focal lens wallwasher for high-pressure sodium vapour lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing ring: plastic, black. Fixing of beam direction Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail

Cable with plug, L 750mm. Spherolit technology wallwasher reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, bright

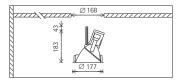
anodised, with upper wallwasher lens

designed as safety glass. Cut-off angle

Control gear to be ordered separately. Accessories page 560

46523.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm

Covered mounting detail Weight 0.80kg LMF D





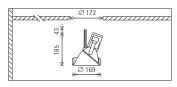
Mean illuminance E_n (lx) Wall height (m) Offset from wall (m)
Luminaire spacing (m)
Illuminance E_n (lx) 0.90 1.20 0.90 1.20



Mean illuminance E_n (Ix) Wall height (m) 4.0 1.20 1.50 1.20 1.50 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)

47509.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm

Flush mounting detail Weight 0.80kg LMF D









Mean illuminance E _n (Ix)				
Wall height (m)	4.0			
Offset from wall (m)	1.20	1.50		
Luminaire spacing (m)	1.20	1.50		
Illuminance E _n (lx)	218	151		

549

Quintessence Directional luminaire for metal halide lamps







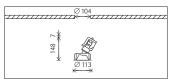
Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angle of rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-25mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Control gear to be ordered separately. Accessories page 561

46463.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.46kg LMF D 日本







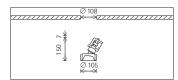


2900 0.44 725 0.89 322 1.33 181 1.77

116 2.22



Flush mounting detail Weight 0.46kg LMF D 日本



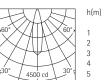


HIPAR51-CE-P









E(Ix) D(m) 25° 2900 0.44 725 0.89 322 1.33 181 1.77 116 2.22

Quintessence Directional luminaire with shadow gap for metal halide lamps







Size 4 Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angle of rota-

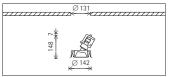
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, bright anodised. Reflector size 3, cut-off angle 30°.

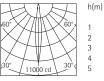
Control gear to be ordered separately. Accessories page 561

46464.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.54kg LMF D 日本







1 9000 0.21 2 2250 0.42 3 1000 0.63 4 562 0.84 5 360 1.05 h(m) E(lx) D(m)

25°

0.44

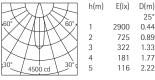
1.33

1 77

2.22

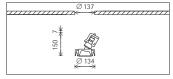
E(Ix) D(m)



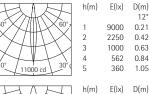




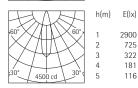
Flush mounting detail Weight 0.54kg LMF D 日本











Quintessence Directional luminaire for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–25mm with covered mounting detail and 12.5–25mm with flush mounting detail.

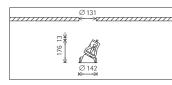
Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Softee lens.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

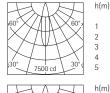
Control gear to be ordered separately. **Accessories page 561**

46450.000 Reflector silver
HIT-TC-CE 20W GU6.5 1615Im
HIT-TC-CE 35W GU6.5 3400Im warm
white
Spherolit reflector, spot











382 1.94

E(Ix)

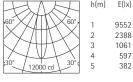
4563 0.37

D(m)

1.17

551

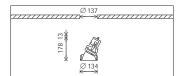




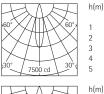
Quintessence Directional luminaire for metal halide lamps

47433.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot

Flush mounting detail Weight 0.69kg LMF D 日本







D(m) E(Ix) 4563 0.37 1141 0.74 507 285 1.48 183 1.85

> E(Ix) 9552 0.39

2388 0.78 1.17 597

382 1 94

D(m)

0.52

1.03

1.55

2.07

2 59

D(m)

30°

0.54 1.07

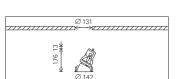
1.61

2.14

2.68

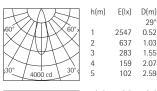
46452.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood

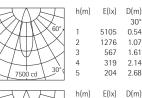
Covered mounting detail Weight 0.69kg LMF D 日本





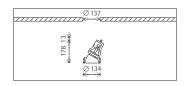
HIT-TC-CF





47435.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood

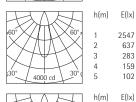
Flush mounting detail Weight 0.69kg LMF D 日本

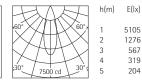




HIT-TC-CE

HIT-TC-CE





Quintessence Directional luminaire with shadow gap for metal halide lamps







Size 5 Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

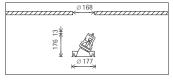
Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Reflector: aluminium, anodised, mirrorfinish. Softec lens.

Darklight reflector: aluminium, bright anodised. Reflector size 4, cut-off angle

Control gear to be ordered separately. Accessories page 561

46451.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot

Covered mounting detail Weight 0.80kg LMF D 日本







	h(m)	E(Ix)	D(m) 21°
)°,	1	4563	0.37
	2	1141	0.74
	3	507	1.11
	4	285	1.48
o° (5	183	1.85
	h(m)	E(Ix)	D(m)

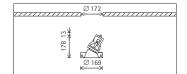




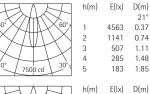
9552 0.39 2388 0.78 3 1061 1.17 382 1.94

Quintessence Directional luminaire with shadow gap for metal halide lamps

47434.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot Flush mounting detail Weight 0.80kg LMF D 日本







22°

0.39

0.78

1.17

1.56

194



h(m) E(lx)

9552
2 2388
3 1061
4 597
5 382

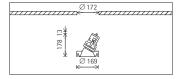
46453.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood Covered mounting detail Weight 0.80kg LMF D 日本

© 168 0 107 0 177 0 177 HIT-TC-CE

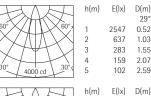
h(m) E(Ix) D(m) 29° 2547 0.52 637 2 1.03 283 1.55 4 5 159 2.07 102 2.59



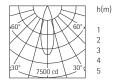
47436.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood Flush mounting detail Weight 0.80kg LMF D 日本



HIT-TC-CE







30° 1 5105 0.54 2 1276 1.07 3 567 1.61 4 319 2.14 5 204 2.68

Quintessence Directional luminaire for metal halide lamps

detail Weight 1.00kg LMF D

日本 🗆



HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Spherolit reflector, spot







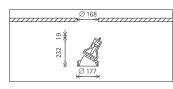
Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

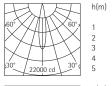
Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Softee lens.

Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Control gear to be ordered separately. Accessories page 561











4	071	1.20	
5	558	1.49	
h(m)	E(lx)	D(m)	
		18°	
1	24551	0.32	
2	6138	0.63	
3	2728	0.95	
4	1524	1 27	

982 1.58

553

13940 0.30

3485 0.60

1549 0.90

971 120

E(lx) D(m)

Quintessence Directional luminaire for metal halide lamps E(Ix)D(m) 47520.000 Reflector silver Flush mounting h(m) Ø 172 HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm detail Weight 1.00kg LMF D 13940 0.30 3485 0.60 Spherolit reflector, spot 234 1549 日本回 871 1.20 HIT-CE 558 1.49 E(Ix) D(m) 18° 24551 0.32 6138 0.63 2728 0.95 1534 1.27 HIT-CE 982 1.58 46503.000 Reflector silver Covered mounting h(m) E(Ix)D(m) Ø 168 HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm detail Weight 1.00kg LMF D 5618 0.50 61 1405 1.00 Spherolit reflector, flood 232 624 1.50 日本 🗆 351 1 99 HIT-CE 225 2.49 D(m) h(m) E(Ix) 11184 0.50 2796 1.00 1.50 699 1.99 HIT-CE 447 2.49 47521.000 Reflector silver Flush mounting h(m) E(Ix) D(m) HIT-CE 35W G12 3500lm detail Weight 1.00kg HIT-CE 70W G12 7300lm 5618 0.50 1405 1.00 Spherolit reflector, flood 234 日本 🗆 624 1.50 351 1.99 HIT-CE 225 2 49 E(Ix) D(m) h(m) 11184 0.50 2796 1.00 1243 1.50







Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation

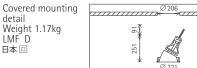
HIT-CE

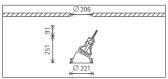
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.

Reflector: aluminium, anodised, mirror-finish. Softec lens. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.



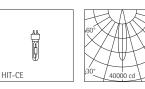






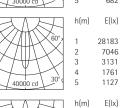














1066 1.20 682 1.49 E(Ix) D(m) 28183 0.33 7046 0.67 3131 1.00

1.67

D(m)

E(Ix) D(m)

17058 0.30 4264 0.60

> 1895 0.90

h(m)

h(m)

699 1.99

447 2.49

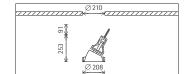
Control gear to be ordered separately. **Accessories page 561**

20° 50407 0.35 12602 0.71 5601 1.06 3150 2016 1.76

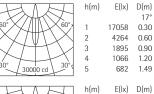
Quintessence Directional luminaire for metal halide lamps

47524.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, spot When using filters or lenses max. HIT-CE 70W.

Flush mounting detail Weight 1.17kg LMF D 日本回

















h(m) E(Ix) D(m) 20° 50407 0.35 12602 2 0.71 5601 4 5 3150 1.41 2016 1.76

D(m)

0.50

1.00

1.99

2.49

28°

0.50

1.00

1.50

1.99

2.49

D(m)

0.52

1.03

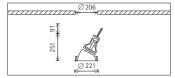
1.55

2.07

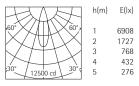
2.59

46507.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, flood When using filters or lenses max. HIT-CE 70W.

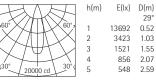
Covered mounting detail Weight 1.17kg LMF D 日本口



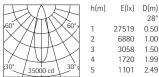






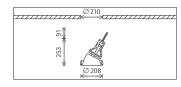




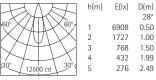


47525.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, flood When using filters or lenses max. HIT-

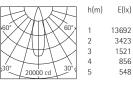
Flush mounting detail Weight 1.17kg LMF_D 日本回















h(m) E(Ix) D(m) 28° 27519 0.50 2 6880 1.00 3 3058 1.50 1720 1.99 1101 2.49

www.erco.com

Quintessence Directional luminaire for high-pressure sodium vapour lamps







Lampholder carrier: cast aluminium, designed as heat sink, 0°-30° tiltable. Fixing ring: plastic, black, rotatable through 360°. Lockable angles of tilt and rotation.

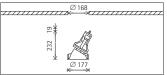
Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.

Reflector: aluminium, anodised, mirror-finish. Softec lens. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Control gear to be ordered separately. Accessories page 561

46524.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot

Covered mounting detail Weight 1.00kg LMF D









11716 0.33

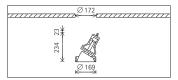
2929 0.67 1.00 732 1.34

469 1.67

h(m)

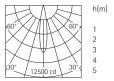
47510.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot

Flush mounting detail Weight 1.00kg LMF D



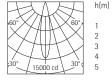


HST



E(Ix) D(m) 8172 0.32 2043 0.63 908 0.95 1.27 327 1.58

HST



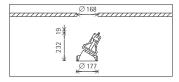


D(m)

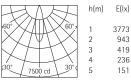
0.46

46525.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood

Covered mounting detail Weight 1.00kg LMF D



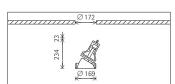






47511.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood

Flush mounting detail Weight 1.00kg LMF D





HST

HST







1733 0.92 770 1.39 433 1.85

277 2.31

E(Ix) D(m) h(m) 6933 0.46 1733 0.92 770 1.39 433 277 2.31

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Lens wallwashers		/ %	3689.00	3655.00	\$656.00°	362/00	3623106	3638.00	2620100	169/100	J653.00	365A.000	7668.00	1669.00	367,000	3672.100	5673.00	5675.000	16.000 pg	1000	556.00
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Focal lens wallwa	ashers	/ 6	3669,00	36450	3646.00	3657,00	3639.00	3658,00	3650,100°	3651,000	5653.000	365A,000	3668.IO	1669.00°	567,000	5672.000	5673,000	5675.00°	0676,000	DE1700	36,00
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Focal lens wallwa	shers	/1	365 ⁷ 190	1653.00°	560,00	3662.000	1663.00	1665.000	266.00	58 16.00°	3610100	36/1/90	367200	3613.00	5614.000	3956.00	\$17.00	3595.00 3595.00	5596,00	250,00	380.00
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Directional lumi	naires	/&	3663100	\$655,000	3656,000	3657100	9659.1dg	3658,000	1650.000	1657 Jag	J653.100	365A,000	J668.100	1669.000	1000 pg 1000	1672,000	5673.000	15,000	16,00	3617.00°	36,00
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Directional luminaires	/.	10657,000	100	660,000 106	662.000	1663.000	1665,000	9869'00	816,00	5610,00	61/100	61200	361300	261 W.000	3956,000	357100	3595,00	2596.000	950.00°	980,00
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83669.000 83655.000 Control gear for HIT-IC-CE 20W, G8.5 and GU6.5 and HIT-CE 20W, G12 and HIPAR51-CE-P 20W, GX10. Control gear for HIT-TC-CE 35W, GU6.5 and HIT-CE 35W, G12. Metal, black powder-coated. Metal, black powder-coated. Electronic control gear 220-240V, Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Luminaire connection cable with plug Weight 0.65kg connection, L 200mm.



110

253



83656.000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg



83657.000 Control gear for HIT-CE 150W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain

relief. Through-wiring possible. Connection cable with plug, L 200mm.

253

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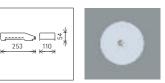
Weight 0.36kg **1**10 <u>(A)</u>



83659.000 Control gear for HST 50W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



83658.000 Control gear for HST 100W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



70650.000 70651.000 UV filter



223 95 **

70653.000 70654.000 IR filter



Weight 0.90kg

70668,000 70669.000 Skintone filter

43.5 <u>√</u>58



70671.000 70672.000 70673.000 Food filter



70675.000 70676.000 70677.000 Daylight conversion filter



70656,000 70657.000 Interference colour filter Magenta



70659.000 70660.000 Interference colour filter Amber



70662.000 70663.000 Interference colour filter Sky blue

> 360 ₺

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70665.000 70666.000 Interference colour filter Night blue



83816,000 DALI

334

440



→ 360





83610.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 2.80kg



83611.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.10kg



83612.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.30kg





83613.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.00kg





83614.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.20kg



83956.000 Plaster ring Metal, white. Height 20mm.



83577.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.04kg

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83595.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.07kg





83596.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.10kg



82950.000
Mounting plate
for panelled ceilings
Metal, white
(RAL9002)
powder-coated.
Individual design
of mounting
plates according
to ceiling type and
luminaire. Quote
ceiling type and
dimensions.



83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.

Quintessence round for compact fluorescent lamps



The system design of Quintessence provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. All luminaires are available with a covered or flush mounting detail. Simple mounting makes for a highly economical installation.

a highly economical installation.
The range for compact fluorescent lamps with round recessed ceiling luminaires includes downlights, washlights, double washlights and wallwashers. Compact fluorescent lamps have been enjoying triumphal success as energy-saving lamps for several years now. The essential advantages of this lamp are their exceptionally long service life and excellent luminous efficacy. They are thus ideal for use in recessed ceiling luminaires. To ensure that they match the setting, the compact fluorescent lamps are available in warm white, daylight white and neutral white. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

First-class light even for Economy passengers: Quintessence wallwashers and downlights for compact fluorescent lamps provide efficient visual comfort in cost-effective form

Quintessence round for compact fluorescent lamps



The round Quintessence recessed ceiling luminaires for compact fluorescent lamps are available in versions with different light distributions, cut-off angles, reflector sizes and installation details. The spectrum of light distributions includes downlights, washlights, double washlights and wallwashers. Quintessence have a low recess depth with a cut-off angle of 30°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The various mounting rings can be used as a covered or flush mounting detail.

The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The separate mounting ring supplied allows efficient installation on the construction site.

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 5 to 8 with a cut-off angle of 30° for compact fluorescent lamps up to 2x32W. The wide diffuser produces a wide beam light distribution.

Application Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promo-

tional areas.

Washlights



The washlights are available in sizes 5 to 8 for compact fluorescent lamps up to 2x32W. The darklight reflector has a special wallwasher segment in Spherolit technology for illuminating walls whilst simultaneously lighting the room.

Application
Asymmetrical light distribution, directed downwards and for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

Double washlights



The double washlights are available in sizes 5 to 8 for compact fluorescent lamps up to 2x32W. The darklight reflector has special wallwasher segments in Spherolit technology for illuminating parallel walls whilst simultaneously lighting the room.

Application Axially symmetrical light distribution for illumination of parallel walls including corridors and hall-

Wallwashers



The wallwashers in sizes 5 to 8 for compact fluorescent lamps up to 2x32W ensure a uniform light distribution on the wall.

Application

ways.

Asymmetrical light distribution for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

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Quintessence round for compact fluorescent lamps



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range features many different versions of the mounting detail. The incorporation of digit-ally controllable DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mount-ing rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Downlight





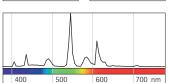
Double washlight

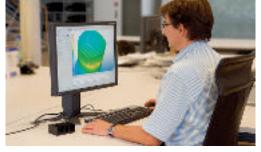


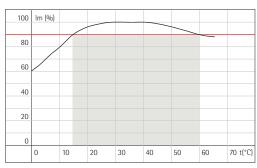
Wallwasher











Colour temperature and colour

rendition Compact fluorescent lamps have already proven themselves to be efficient light sources. They are available in warm white, daylight white and neutral white. This makes it possible for the colour tempera-ture to be selected to suit specific situations. Their multi-band spec-trum allows compact fluorescent lamps to achieve colour rendition index values of approximately 80.

Heat management

Good heat management in the luminaire is crucial for continuous operation, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and material of the housing that all contribute to optimal heat management. Extensive simu-

lations and tests during the devel-opment phase ensure the success of all the products in the range.

With Quintessence, the heat management for the compact fluorescent lamps has been designed so as to ensure that the lamp operates within the optimum temperature range and the relative luminous flux is above 90%.

DALI PLUG+ PLAY





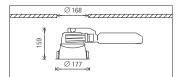


Housing and fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 580



Covered mounting detail Weight 1.30kg LMF D







UGR CO UGR C90 18.7 18.5 200 cd/m²

65° <

UGR CO

UGR C90

65° <

65° <

LOR

65° <

47626.000 Reflector silver ECG DALI 47624.000 Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg LMF D

Ø 172 ×.....





0.55 18.7 18.5 200 cd/m²

46627.000 Reflector silver ECG DALI 46625.000 Reflector silver ECG TC-TEL 14W GR14q-1 1050lm

Covered mounting detail Weight 1.30kg LMF C

Ø 168





0.61 UGR CO 19.3 UGR C90 191 200 cd/m²

47627.000 Reflector silver ECG DALI 47625.000 Reflector silver ECG TC-TEL 14W GR14q-1 1050lm

Flush mounting detail Weight 1.30kg LMF C

Ø 172

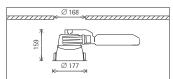




0.61 19.3 UGR C90 19.1 200 cd/m²

46602.000 Reflector silver ECG DALI 46600.000 Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.30kg LMF D



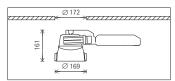




0.59 UGR CO 19.4 UGR C90 192 200 cd/m²

47602.000 Reflector silver ECG DALI **47600.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg LMF D







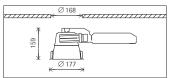
0.59 UGR CO 19.4 LIGR C90 192 200 cd/m² 65° <

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46603.000 Reflector silver ECG DALI **46601.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm

47603.000 Reflector silver ECG DALI 47601.000 Reflector silver ECG

Covered mounting detail Weight 1.20kg LMF C





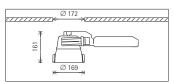


LIGR CO UGR C90 65° <

20.1 19.9 200 cd/m²

TC-TELI 18W GX24q-2 1200lm

Flush mounting detail Weight 1.20kg LMF C







0.64 UGR CO 20.1 UGR C90 19.9 65° < 200 cd/m²

Number of luminaires per 100m ² for						Illuminance	Illuminance E _n (lx) for module (m)							
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4			
46626.000	14 W	17	34	51	85	46626.000	14 W	272	182	136	102			
46624.000	14 W	17	34	51	85	46624.000	14 W	272	182	136	102			
47626.000	14 W	17	34	51	85	47626.000	14 W	272	182	136	102			
47624.000	14 W	17	34	51	85	47624.000	14 W	272	182	136	102			
46627.000	14 W	16	32	47	78	46627.000	14 W	297	198	148	111			
46625.000	14 W	16	32	47	78	46625.000	14 W	297	198	148	111			
47627.000	14 W	16	32	47	78	47627.000	14 W	297	198	148	111			
47625.000	14 W	16	32	47	78	47625.000	14 W	297	198	148	111			
46602.000	18 W	14	28	42	70	46602.000	18 W	330	220	165	124			
46600.000	18 W	14	28	42	70	46600.000	18 W	330	220	165	124			
47602.000	18 W	14	28	42	70	47602.000	18 W	330	220	165	124			
47600.000	18 W	14	28	42	70	47600.000	18 W	330	220	165	124			
46603.000	18 W	13	26	39	65	46603.000	18 W	359	239	180	135			
46601.000	18 W	13	26	39	65	46601.000	18 W	359	239	180	135			
47603.000	18 W	13	26	39	65	47603.000	18 W	359	239	180	135			
47601.000	18 W	13	26	39	65	47601.000	18 W	359	239	180	135			

Connected I	oad	
46626.000	P:	17 W
46624.000	P:	15 W
47626.000	P:	17 W
47624.000	P:	15 W
46627.000	P:	17 W
46625.000	P:	15 W
47627.000	P:	17 W
47625.000	P:	15 W
46602.000	P:	18 W
46600.000	P:	18 W
47602.000	P:	18 W
47600.000	P:	18 W
46603.000	P:	18 W
46601.000	P:	18 W
47603.000	P:	18 W
47601.000	P:	18 W

Connected load per 100lx 46626.000 2.89 W/m² 46624.000 2.55 W/m² 47626 000 2 89 W/m² 47624.000 2.55 W/m 46627.000 2.65 W/m² 46625.000 2.34 W/m² 47627.000 2.65 W/m 47625.000 2.34 W/m² 46602.000 2.52 W/m² 46600.000 2.52 W/m² 47602.000 2.52 W/m² 47600.000 2.52 W/m² 46603.000 2.32 W/m² 46601.000 2.32 W/m² 47603.000 2.32 W/m 47601.000 2.32 W/m²

Number of luminaires per 100lx 46626.000 16.99 1/100m² 46624.000 16.99 1/100m² 16.99 1/100m² 47626 000 47624.000 16.99 1/100m² 46627.000 15.61 1/100m² 46625.000 15.61 1/100m² 47627.000 15.61 1/100m² 47625.000 n*: 15.61 1/100m² 46602.000 14.01 1/100m² 46600.000 14.01 1/100m² 47602.000 14.01 1/100m² 47600.000 n*: 14.01 1/100m² 46603.000 12.89 1/100m² 46601.000 12.89 1/100m² 47603.000 12.89 1/100m² 47601.000 12.89 1/100m²





DALI PLUG+ PLAY

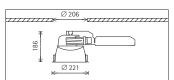


Housing and fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 580

46630.000 Reflector silver ECG DALI 46628.000 Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.60kg LMF D







0.66 UGR CO UGR C90 18.0 200 cd/m² 65° <

47630.000 Reflector silver ECG DALI **47628.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D

Ø 210 Ø 208

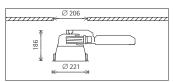
TC-TEL



LOR 0.66 UGR CO 18.1 UGR C90 18.0 200 cd/m² 65° <

46631.000 Reflector silver ECG DALI **46629.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm

Covered mounting detail Weight 1.50kg LMF C







0.71 UGR CO UGR C90 18.5 200 cd/m² 65° <

	_	·	·				
47629.	000 Reflector silver ECG DALI 000 Reflector silver ECG 17W GR14q-1 1250lm	Flush mounting detail Weight 1.50kg LMF C	Ø 210 Ø 208	TC-TEL	60°, 60°, 30°, 30°, 30°, 30°, 30°, 30°, 30°, 3	LOR UGR CO UGR C90 65° <	0.71 18.5 18.5 200 cd/m ²
46604. TC-TELI	000 Reflector silver ECG DALI 000 Reflector silver ECG 26W GX24q-3 1800lm ffuser: plastic, translucent.	Covered mounting detail Weight 1.60kg LMF D	Ø 206	TC-TELI	60° 60°,	LOR UGR CO UGR C90 65° <	0.54 18.7 18.6 200 cd/m ²
47604. TC-TELI	000 Reflector silver ECG DALI 000 Reflector silver ECG 26W GX24q-3 1800lm ffuser: plastic, translucent.	Flush mounting detail Weight 1.60kg LMF D	Ø 210 Ø 208	TC-TELI	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°	LOR UGR CO UGR C90 65° <	0.54 18.7 18.6 200 cd/m ²
46605.	000 Reflector silver ECG DALI 000 Reflector silver ECG 26W GX24q-3 1800lm	Covered mounting detail Weight 1.50kg LMF C	© 206	TC-TELI	60°,	LOR UGR CO UGR C90 65° <	0.56 19.0 19.0 200 cd/m ²
47605.	000 Reflector silver ECG DALI 000 Reflector silver ECG 26W GX24q-3 1800lm	Flush mounting detail Weight 1.50kg LMF C	© 210 © 208 © 208	TC-TELI	60°,	LOR UGR CO UGR C90 65° <	0.56 19.0 19.0 200 cd/m ²
46606. 2xTC-TE	000 Reflector silver ECG DALI 000 Reflector silver ECG Ll 18W GX24q-2 1200lm ffuser: plastic, translucent.	Covered mounting detail Weight 1.60kg LMF D	© 206 × 221 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 × 0 ×	2xTC-TELI	60°, 60°, 1000 cd 30°,	LOR UGR CO UGR C90 65° <	0.49 20.2 19.4 200 cd/m ²
47606. 2xTC-TE	000 Reflector silver ECG DALI 000 Reflector silver ECG Ll 18W GX24q-2 1200lm ffuser: plastic, translucent.	Flush mounting detail Weight 1.60kg LMF D	Ø 210 Ø 208	2xTC-TELI	60°,	LOR UGR CO UGR C90 65° <	0.49 20.2 19.4 200 cd/m ²
46607.	000 Reflector silver ECG DALI 000 Reflector silver ECG Ll 18W GX24q-2 1200lm	Covered mounting detail Weight 1.60kg LMF C	© 206 © 221	2xTC-TELI	60°, 60°, 1000 cd 30°,	LOR UGR CO UGR C90 65° <	0.53 20.9 19.7 200 cd/m ²
47607.	000 Reflector silver ECG DALI 000 Reflector silver ECG Ll 18W GX24q-2 1200lm	Flush mounting detail Weight 1.60kg LMF C	Ø 210	2xTC-TELI	60°, 60°, 60°, 1000 cd 30°,	LOR UGR CO UGR C90 65° <	0.53 20.9 19.7 200 cd/m ²
46608. 2xTC-TE	000 Reflector silver ECG DALI 000 Reflector silver ECG Ll 26W GX24q-3 1800lm ffuser: plastic, translucent.	Covered mounting detail Weight 1.60kg LMF D	© 206	2xTC-TELI	60°, 60°, 30° 1400 cd 30°	LOR UGR CO UGR C90 65° <	0.50 21.6 20.6 200 cd/m ²
47608. 2xTC-TE	000 Reflector silver ECG DALI 000 Reflector silver ECG Ll 26W GX24q-3 1800lm ffuser: plastic, translucent.	Flush mounting detail Weight 1.60kg LMF D	© 210 © 208	2xTC-TELI	60°, 60°, 60°, 1400 cd 30°,	LOR UGR CO UGR C90 65° <	0.50 21.6 20.6 200 cd/m ²

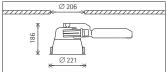
46615.000 Reflector silver ECG DALI **46609.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

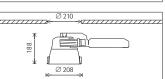
47615.000 Reflector silver ECG DALI **47609.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Covered mounting detail Weight 1.60kg LMF C

Flush mounting

Weight 1.60kg LMF C

detail









LOR UGR CO UGR C90 65° <

0.53 22.1 20.8 200 cd/m²



LOR UGR CO UGR C90 65° <

0.53 22.1 20.8 200 cd/m²

Number of Iu	ıminaires pe	for			Illuminance	E _n (lx) for r	nodule (m)				
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46630.000	17 W	12	24	36	60	46630.000	17 W	388	258	194	145
46628.000	17 W	12	24	36	60	46628.000	17 W	388	258	194	145
47630.000	17 W	12	24	36	60	47630.000	17 W	388	258	194	145
47628.000	17 W	12	24	36	60	47628.000	17 W	388	258	194	145
46631.000	17 W	12	23	34	56	46631.000	17 W	415	277	208	156
46629.000	17 W	12	23	34	56	46629.000	17 W	415	277	208	156
47631.000	17 W	12	23	34	56	47631.000	17 W	415	277	208	156
47629.000	17 W	12	23	34	56	47629.000	17 W	415	277	208	156
46610.000	26 W	11	21	31	51	46610.000	26 W	460	307	230	173
46604.000	26 W	11	21	31	51	46604.000	26 W	460	307	230	173
47610.000	26 W	11	21	31	51	47610.000	26 W	460	307	230	173
47604.000	26 W	11	21	31	51	47604.000	26 W	460	307	230	173
46611.000	26 W	10	20	30	49	46611.000	26 W	476	317	238	178
46605.000	26 W	10	20	30	49	46605.000	26 W	476	317	238	178
47611.000	26 W	10	20	30	49	47611.000	26 W	476	317	238	178
47605.000	26 W	10	20	30	49	47605.000	26 W	476	317	238	178
46612.000	2x18 W	9	17	26	42	46612.000	2x18 W	553	369	277	207
46606.000	2x18 W	9	17	26	42	46606.000	2x18 W	553	369	277	207
47612.000	2x18 W	9	17	26	42	47612.000	2x18 W	553	369	277	207
47606.000	2x18 W	9	17	26	42	47606.000	2x18 W	553	369	277	207
46613.000	2x18 W	8	16	24	39	46613.000	2x18 W	594	396	297	223
46607.000	2x18 W	8	16	24	39	46607.000	2x18 W	594	396	297	223
47613.000	2x18 W	8	16	24	39	47613.000	2x18 W	594	396	297	223
47607.000	2x18 W	8	16	24	39	47607.000	2x18 W	594	396	297	223
46614.000	2x26 W	6	12	17	28	46614.000	2x26 W	831	554	415	312
46608.000	2x26 W	6	12	17	28	46608.000	2x26 W	831	554	415	312
47614.000	2x26 W	6	12	17	28	47614.000	2x26 W	831	554	415	312
47608.000	2x26 W	6	12	17	28	47608.000	2x26 W	831	554	415	312
46615.000	2x26 W	6	11	16	26	46615.000	2x26 W	894	596	447	335
46609.000	2x26 W	6	11	16	26	46609.000	2x26 W	894	596	447	335
47615.000	2x26 W	6	11	16	26	47615.000	2x26 W	894	596	447	335
47609.000	2x26 W	6	11	16	26	47609.000	2x26 W	894	596	447	335

load	
P:	21 W
P:	18 W
P:	21 W
P:	18 W
P:	21 W
P:	18 W
P:	21 W
P:	18 W
P:	26 W
P:	36 W
P:	52 W
	Property of the property of th

47609.000 P: 52 W

Connected load per 100lx 46630.000 2.51 W/m² 46628.000 2.15 W/m² 47630.000 2.51 W/m² 47628.000 2.15 W/m² 46631.000 2.34 W/m² 46629.000 2.01 W/m² 47631.000 2.34 W/m 47629.000 2.01 W/m² 46610.000 2.62 W/m² 46604.000 2.62 W/m² 47610 000 2 62 W/m² 47604.000 2.62 W/m² 46611.000 2.53 W/m² 46605.000 47611.000 2.53 W/m² 2.53 W/m 47605.000 2.53 W/m² 46612.000 3.01 W/m² 46606.000 3.01 W/m² 47612.000 3.01 W/m² 47606.000 3.01 W/m² 46613.000 2.81 W/m² 46607.000 2.81 W/m² 47613.000 2.81 W/m² 47607.000 2.81 W/m² 46614.000 2.90 W/m² 46608.000 47614.000 2.90 W/m² 2.90 W/m² 47608.000 2.90 W/m² 46615.000 2.69 W/m² 46609.000 2.69 W/m²

2.69 W/m

2.69 W/m

Number of luminaires per 100lx 46630.000 11.95 1/100m² 46628.000 11.95 1/100m² 11.95 1/100m² 47630 000 47628.000 11.95 1/100m² 46631.000 11.15 1/100m² 46629.000 11.15 1/100m² 11.15 1/100m² 11.15 1/100m² 47631.000 47629.000 46610.000 10.06 1/100m² 46604.000 n*: n*: 10.06 1/100m² 47610 000 10.06 1/100m² n*: 47604.000 10.06 1/100m² 46611.000 9.73 1/100m² 46605.000 n*: n*: 9.73 1/100m² 47611.000 9.73 1/100m² 47605.000 n*: 9.73 1/100m² 46612.000 n*: n*: n*: n*: 8.37 1/100m² 46606.000 8.37 1/100m² 8.37 1/100m² 8.37 1/100m² 47612.000 47606.000 46613.000 7.80 1/100m² n*: n*: 46607.000 7.80 1/100m² 47613.000 7.80 1/100m² 47607.000 n*: 7.80 1/100m² 46614.000 5.57 1/100m² n*: n*: 46608.000 47614.000 5.57 1/100m² 5.57 1/100m² 47608.000 n*: 5.57 1/100m² 46615.000 5.18 1/100m² 46609.000 5.18 1/100m² 47615.000 5.18 1/100m²

5.18 1/100m²

47609.000

0 ERCO Program 2010/11 www.erco.com

47615.000

47609.000

DALI PLUG+ PLAY

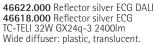




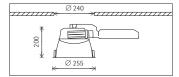


Housing and fixing ring: plastic, black. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 580



Covered mounting detail Weight 1.80kg LMF D







UGR CO UGR C90 18.6 183 200 cd/m²

65° <

UGR CO

UGR C90

65° <

65° <

LOR

65° <

LOR

47622.000 Reflector silver ECG DALI 47618.000 Reflector silver ECG TC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.80kg LMF D

Ø 244 202

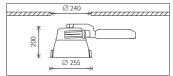




0.67 18.6 18.3 200 cd/m²

46623.000 Reflector silver ECG DALI 46619.000 Reflector silver ECG TC-TELI 32W GX24q-3 2400lm

Covered mounting detail Weight 1.70kg LMF C



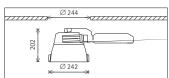




0.71 UGR CO 18.7 UGR C90 187 200 cd/m²

47623.000 Reflector silver ECG DALI 47619.000 Reflector silver ECG TC-TELI 32W GX24q-3 2400lm

Flush mounting detail Weight 1.70kg LMF C



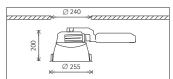




0.71 UGR CO 18.7 UGR C90 18.7 200 cd/m²

46620.000 Reflector silver ECG DALI 46616.000 Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.80kg LMF D



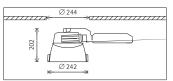




0.56 UGR CO 21.0 UGR C90 20.0 200 cd/m² 65° <

47620.000 Reflector silver ECG DALI **47616.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.80kg LMF D







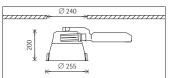
0.56 UGR CO 21.0 LIGR C90 20.0 200 cd/m² 65° <

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46621.000 Reflector silver ECG DALI 46617.000 Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

47621.000 Reflector silver ECG DALI 47617.000 Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Covered mounting detail Weight 1.80kg LMF C







LIGR CO UGR C90 65° <

21.4 20.0 200 cd/m²

Flush mounting detail Weight 1.80kg LMF C

46620.000

47620.000

46621.000

46617.000

47621.000

47617.000

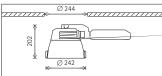
66 W 66 W

66 W

66 W

66 W

66 W







0.60 UGR CO 21.4 UGR C90 20.0 65° < 200 cd/m²

								ZAIC-ILLI		\perp	2200 Cu		
Number of I	umina	ires per	100m ²	for				Illuminance	E _n (lx) for r	nodule (m)			
		'	100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
46622.000	3	32 W	7	13	19	31		46622.000	32 W	761	507	380	285
46618.000	3	32 W	7	13	19	31		46618.000	32 W	761	507	380	285
47622.000	3	32 W	7	13	19	31		47622.000	32 W	761	507	380	285
47618.000	3	32 W	7	13	19	31		47618.000	32 W	761	507	380	285
46623.000	3	32 W	6	12	18	29		46623.000	32 W	801	534	401	301
46619.000	3	32 W	6	12	18	29		46619.000	32 W	801	534	401	301
47623.000	3	32 W	6	12	18	29		47623.000	32 W	801	534	401	301
47619.000	3	32 W	6	12	18	29		47619.000	32 W	801	534	401	301
46620.000	2x3	32 W	4	8	11	19		46620.000	2x32 W	1265	843	632	474
46616.000	2x3	32 W	4	8	11	19		46616.000	2x32 W	1265	843	632	474
47620.000	2x3	32 W	4	8	11	19		47620.000	2x32 W	1265	843	632	474
46621.000	2x3	32 W	4	7	11	18		46621.000	2x32 W	1355	903	677	508
46617.000	2x3	32 W	4	7	11	18		46617.000	2x32 W	1355	903	677	508
47621.000	2x3	32 W	4	7	11	18		47621.000	2x32 W	1355	903	677	508
47617.000	2x3	32 W	4	7	11	18		47617.000	2x32 W	1355	903	677	508
Connected le	nad					Connected I	oad per	100lx		Number	of lumina	ires per 10)Olx
46622.000	P:	35 W				46622.000	P*:	2.13 W/m ²		46622.0			1/100m ²
46618.000	P:	35 W				46618.000	P*:	2.13 W/m ²		46618.0			1/100m ²
47622.000	P:	35 W				47622.000	P*:	2.13 W/m ²		47622.0	000 n ¹	*: 6.09	1/100m ²
47618.000	P:	35 W				47618.000	P*:	2.13 W/m ²		47618.0	000 n ¹	*: 6.09	1/100m ²
46623.000	P:	35 W				46623.000	P*:	2.02 W/m ²		46623.0	000 n ¹	*: 5.78	1/100m ²
46619.000	P:	35 W				46619.000	P*:	2.02 W/m ²		46619.0	000 n	*: 5.78	1/100m ²
47623.000	P:	35 W				47623.000	P*:	2.02 W/m ²		47623.0	000 n ¹	*: 5.78	1/100m ²
47619.000	P:	35 W				47619.000	P*:	2.02 W/m ²		47619.0	000 n ¹	*: 5.78	1/100m ²

2.42 W/m²

2.42 W/m²

2.42 W/m²

2.26 W/m²

2.26 W/m²

2.26 W/m²

2.26 W/m²

46620.000

46616.000

47620.000

46621.000

46617.000

47621.000

47617.000

Quintessence Washlight for compact fluorescent lamps

PHUG+







Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010

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46620.000

46616.000

47620.000

46621.000

46617.000

47621.000

47617.000

n*: n*:

3.66 1/100m²

3.66 1/100m²

3.66 1/100m²

3.42 1/100m² 3.42 1/100m²

3.42 1/100m²

3.42 1/100m²

46657.000 Reflector silver ECG DALI **46656.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.30kg LMF D

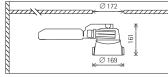
Ø 168 59



Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 0.90 Luminaire spacing (m) Illuminance E_n (lx) 0.90 1.20

47657.000 Reflector silver ECG DALI **47656.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.

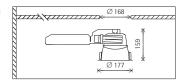
Flush mounting detail Weight 1.30kg LMF D





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 0.90 Luminaire spacing (m) 0.90 1.20 Illuminance E_n (Ix) 59 45

46633.000 Reflector silver ECG DALI **46632.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent. Covered mounting detail Weight 1.30kg LMF D

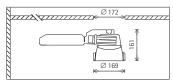




 $\begin{tabular}{llll} \textbf{Mean illuminance E}_n & \textbf{(lx)} \\ \textbf{Wall height (m)} & 3.0 \\ \textbf{Offset from wall (m)} & 0.90 & 0.90 \\ \textbf{Luminaire spacing (m)} & 0.90 & 1.20 \\ \textbf{Illuminance E}_n & \textbf{(lx)} & \textbf{51} & \textbf{39} \\ \end{tabular}$

47633.000 Reflector silver ECG DALI **47632.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg I MF D





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90

 Luminaire spacing (m)
 0.90
 1.20

 Illuminance E_n (lx)
 51
 39

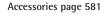




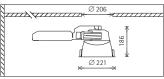
PLUG+ PLAY Size 7 30°

Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Junction box for through-wiring, 5-pole terminal block, integrated strain relief.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010



46661.000 Reflector silver ECG DALI **46660.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent. Covered mounting detail Weight 1.60kg LMF D

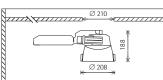




 $\begin{tabular}{ll} \textbf{Mean illuminance E}_n & \textbf{(lx)} \\ \textbf{Wall height (m)} & 3.0 \\ \textbf{Offset from wall (m)} & 0.60 & 0.90 & 0.90 \\ \textbf{Luminaire spacing (m)} & 0.90 & 0.90 & 1.20 \\ \textbf{Illuminance E}_n & \textbf{(lx)} & \textbf{95} & \textbf{75} & \textbf{58} \\ \end{tabular}$

47661.000 Reflector silver ECG DALI **47660.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent.

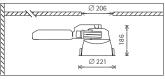
Flush mounting detail Weight 1.60kg LMF D





 $\begin{tabular}{ll} \begin{tabular}{ll} Mean illuminance E_n (lx) & & & & \\ Wall height (m) & 3.0 & 0.90 & 0.90 \\ Offset from wall (m) & 0.60 & 0.90 & 1.20 \\ Luminaire spacing (m) & 0.90 & 0.90 & 1.20 \\ Illuminance E_n (lx) & 95 & 75 & 58 \\ \end{tabular}$

46639.000 Reflector silver ECG DALI **46636.000** Reflector silver ECG TC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent. Covered mounting detail Weight 1.60kg LMF D

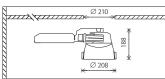




 $\begin{tabular}{ll} \textbf{Mean illuminance} & \textbf{E}_n \ \textbf{(lx)} \\ \textbf{Wall height (m)} & 3.0 \\ \textbf{Offset from wall (m)} & 0.90 \ 0.90 \ 1.20 \\ \textbf{Luminaire spacing (m)} & 0.90 \ 1.20 \ 1.20 \\ \textbf{Illuminance} & \textbf{E}_n \ \textbf{(lx)} & \textbf{84} & \textbf{65} & \textbf{52} \\ \end{tabular}$

47639.000 Reflector silver ECG DALI **47636.000** Reflector silver ECG TC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

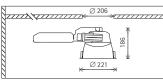
 Offset from wall (m)
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.20

 Illuminance E_n (lx)
 84
 65
 52

46640.000 Reflector silver ECG DALI **46637.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.60kg LMF D





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

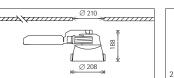
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance E_n (lx)
 100
 77
 63
 51

47640.000 Reflector silver ECG DALI **47637.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D

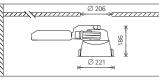




 $\begin{tabular}{ll} Mean illuminance E_n (lx) & & & & & & \\ Wall height (m) & & & & & & \\ Offset from wall (m) & & & & & \\ Uminaire spacing (m) & & & & & \\ Uminaire spacing (m) & & \\ Umi$

46641.000 Reflector silver ECG DALI **46638.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.60kg LMF D





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

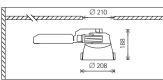
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50

 Illuminance E_n (lx)
 161
 125
 99
 81

47641.000 Reflector silver ECG DALI **47638.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50

 Illuminance E_n (lx)
 125
 99
 81

DALI PLUG+

PLAY



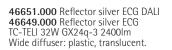




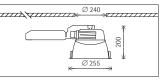
Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector with Spherolit technology wallwasher segment: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010

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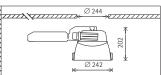
Covered mounting detail Weight 1.80kg LMF D





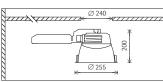
47651.000 Reflector silver ECG DALI **47649.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.80kg LMF D





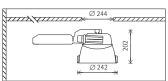
46650.000 Reflector silver ECG DALI **46648.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent. Covered mounting detail Weight 1.80kg LMF D





47650.000 Reflector silver ECG DALI **47648.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.80kg LMF D





 Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50

227 178 148 122

Illuminance En (Ix)

Quintessence Double washlight for compact fluorescent lamps





PLUG+ PLAY



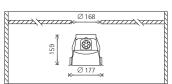
Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle 20°

Available from 2nd quarter 2010 **Accessories page 581**

46659.000 Reflector silver ECG DALI **46658.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.







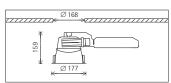
 Mean illuminance E_n (lx)

 Wall height (m)
 2.5

 Offset from wall (m)
 0.60
 0.90
 0.90

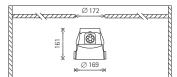
 Luminaire spacing (m)
 0.90
 0.90
 1.20

 Illuminance E_n (lx)
 83
 64
 49



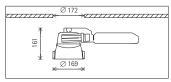
47659.000 Reflector silver ECG DALI **47658.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg LMF D

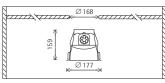




Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) 25 0.60 0.90 0.90 Luminaire spacing (m) 0.90 0.90 1.20 Illuminance E_n (lx)

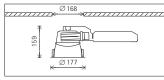


46635.000 Reflector silver ECG DALI Covered mounting **46634.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm detail Weight 1.30kg Wide diffuser: plastic, translucent. LMF D



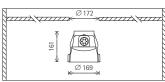


Mean illuminance E_n (lx) Wall height (m) 3.0 Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)



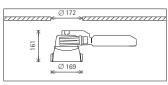
47635.000 Reflector silver ECG DALI 47634.000 Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg LMF D





Mean illuminance E_n (lx) Wall height (m) 3.0 Offset from wall (m) 0.60 0.90 0.90 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix)

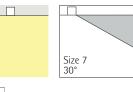




46663.000 Reflector silver ECG DALI Covered mounting 46662.000 Reflector silver ECG detail TC-TEL 17W GR14q-1 1250lm Weight 1.60kg

DALI PLUG+ PLAY

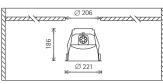
LMF D



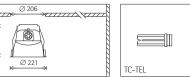
Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector with Spherolit tech-nology wallwasher segments: alu-minium, bright anodised. Cut-off angle

Available from 2nd quarter 2010 Accessories page 581



Ø 206



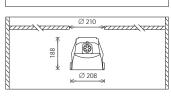
Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) Luminaire spacing (m)

0.60 0.90 0.90 1.20 0.90 0.90 1.20 1.20 Illuminance E_n (lx)

47663.000 Reflector silver ECG DALI **47662.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent.

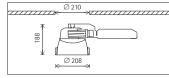
Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D



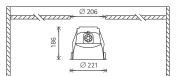


Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) 0.60 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (lx) 0.90 0.90 1.20 1.20 98 78 60 48



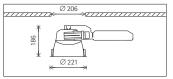
Quintessence Double washlight for compact fluorescent lamps

46645.000 Reflector silver ECG DALI **46642.000** Reflector silver ECG TC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent. Covered mounting detail Weight 1.60kg LMF D

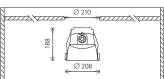




Mean illuminance E_n (lx)

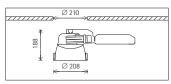


47645.000 Reflector silver ECG DALI **47642.000** Reflector silver ECG TC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent. Flush mounting detail Weight 1.60kg LMF D



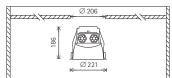


Mean illuminance E_n (lx)



46646.000 Reflector silver ECG DALI **46643.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.60kg LMF D





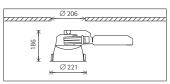
Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

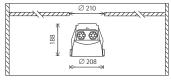
 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance En (kx)
 117
 90
 72
 59



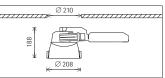
47646.000 Reflector silver ECG DALI **47643.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D



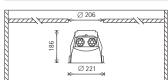


Mean illuminance E_n (lx)



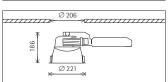
46647.000 Reflector silver ECG DALI **46644.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.60kg LMF D





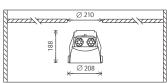
Mean illuminance E_n (Ix)

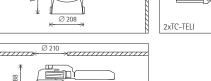


47647.000 Reflector silver ECG DALI **47644.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.

ERCO Program 2010/11

Flush mounting detail Weight 1.60kg LMF D







 $\begin{array}{ll} \text{Mean illuminance } E_n \text{ (Ix)} \\ \text{Wall height (m)} \end{array}$

 Waln reight (m)
 0.90
 0.90
 1.20
 1.20

 Offset from wall (m)
 0.90
 1.20
 1.20
 1.50

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance E_n (lx)
 174
 133
 107
 87

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Quintessence Double washlight for compact fluorescent lamps





DALI PLUG+

PLAY

Size 8 30°

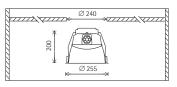
Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector with Spherolit technology wallwasher segments: aluminium, bright anodised. Cut-off angle

Available from 2nd quarter 2010 **Accessories page 581**

46655.000 Reflector silver ECG DALI **46653.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.80kg LMF D



Ø 240

200



 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

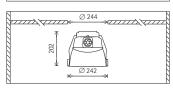
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50

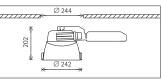
 Illuminance E_n (lx)
 162
 124
 99
 80



Flush mounting detail Weight 1.80kg LMF D





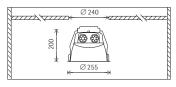


46654.000 Reflector silver ECG DALI **46652.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

2xTC-TELI 32W GX24q-3 2400lm

Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.80kg LMF D



Ø 240

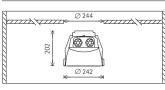
Ø 255



Mean illuminance E _n	(lx)		
Wall height (m)	4.0		
Offset from wall (m)	0.90	1.20	1.20
Luminaire spacing (m)	1.20	1.20	1.50
Illuminance E _n (lx)	178	152	124



Flush mounting detail Weight 1.80kg LMF D





 Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 1.20
 1.50

178 152 124

Illuminance E_n (Ix)

Ø 244 ⊗ 242 Ø 242

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Quintessence Wallwasher for compact fluorescent lamps

PLUG+ PLAY





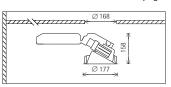
Size 5

Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 582

46677.000 Reflector silver ECG DALI **46676.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm

Covered mounting detail Weight 1.30kg LMF C



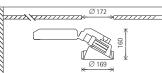


Mean illuminance E_n (lx)

Wall height (m)	2.5		
Offset from wall (m)	0.90	0.90	1.20
Luminaire spacing (m)	0.90	1.20	1.20
IIIuminance E _n (Ix)	99	76	59

47677.000 Reflector silver ECG DALI **47676.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm

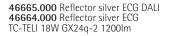
Flush mounting detail Weight 1.30kg LMF C



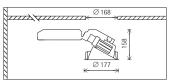


Mean illuminance E_n (lx)

Wall height (m)	2.5		
Offset from wall (m)	0.90	0.90	1.20
Luminaire spacing (m)	0.90	1.20	1.20
Illuminance E _n (lx)	99	76	59



Covered mounting detail Weight 1.20kg LMF C





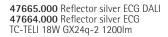
Mean illuminance E_n (lx)

 Wall height (m)
 3.0

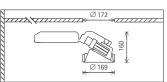
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance En (lx)
 110
 84
 69
 56



Flush mounting detail Weight 1.20kg LMF C





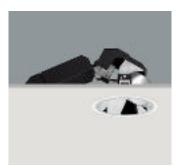
Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance En (lx)
 110
 84
 69
 56





PLUG+

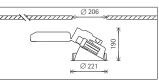


Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–30mm with covered mounting detail and 12.5–25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Available 2nd quarter 2010 Accessories page 582

46679.000 Reflector silver ECG DALI **46678.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm

Covered mounting detail Weight 1.50kg LMF D





Mean illuminance E_n (lx)

 Wall height (m)
 3.0

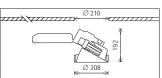
 Offset from wall (m)
 0.60
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.90
 0.90
 1.20
 1.20

 Illuminance En (lx)
 141
 119
 92
 76

47679.000 Reflector silver ECG DALI **47678.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm

Flush mounting detail Weight 1.50kg LMF D

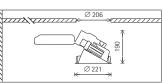




Mean illuminance E_n (lx) Wall height (m) 3.0 Offset from wall (m) 0.60 0.90 0.90 1.20 Luminaire spacing (m) 0.90 0.90 1.20 1.20 Illuminance E_n (ix) 141 119 92 76

46669.000 Reflector silver ECG DALI **46666.000** Reflector silver ECG TC-TELI 26W GX24q-3 1800lm

Covered mounting detail Weight 1.50kg LMF D

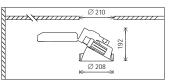




Mean illuminance E _n	(lx)		
Wall height (m)	3.0		
Offset from wall (m)	0.90	0.90	1.20
Luminaire spacing (m)	0.90	1.20	1.20
Illuminance E _n (Ix)	158	122	100

47669.000 Reflector silver ECG DALI **47666.000** Reflector silver ECG TC-TELI 26W GX24q-3 1800lm

Flush mounting detail Weight 1.50kg LMF D





Mean illuminance E_n (lx)
Wall height (m)

Wall height (m)	3.0		
Offset from wall (m)	0.90	0.90	1.20
Luminaire spacing (m)	0.90	1.20	1.20
Illuminance E _n (Ix)	158	122	100

Quintessence Wallwasher for compact fluorescent lamps

46670.000 Reflector silver ECG DALI Covered mounting Mean illuminance E_n (lx) 46667.000 Reflector silver ECG Wall height (m) 3.0 detail Offset from wall (m) 0.90 0.90 1.20 1.20 2xTC-TELI 18W GX24q-2 1200lm Weight 1.60kg 0.90 1.20 1.20 1.50 Luminaire spacing (m) LMF D Illuminance E_n (Ix) Ø 221 2xTC-TELI Mean illuminance E_n (Ix) 47670.000 Reflector silver ECG DALI Flush mounting Ø 210 47667.000 Reflector silver ECG Wall height (m) detail 2xTC-TELI 18W GX24q-2 1200lm Weight 1.60kg Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 IMF D Luminaire spacing (m) 192 Illuminance E_n (Ix) 154 120 97 2xTC-TELI 46671.000 Reflector silver ECG DALI Mean illuminance E_n (lx) Covered mounting Ø 206 4668.000 Reflector silver ECG Wall height (m) 3.0 detail Offset from wall (m) 0.90 0.90 1.20 1.20 2xTC-TELI 26W GX24q-3 1800lm Weight 1.60kg 0.90 1.20 1.20 1.50 Luminaire spacing (m) 190 LMF D Illuminance E_n (Ix) Ø 221 2xTC-TELI Mean illuminance E_n (Ix) 47671.000 Reflector silver ECG DALI Flush mounting Ø 210 47668.000 Reflector silver ECG Wall height (m) detail 2xTC-TELI 26W GX24q-3 1800lm Weight 1.60kg Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) LMF D 192 Illuminance E_n (lx) Ø 208 2xTC-TELI Housing and fixing ring: plastic, black. Fixing of the beam direction. Mounting ring: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail Size 8 and 12.5-25mm with flush mounting 30° Junction box for through-wiring, 5-pole terminal block, integrated strain relief. DALI PLUG+ Electronic control gear, plug and play PLAY connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 582 46675.000 Reflector silver ECG DALI Covered mounting Mean illuminance E_n (lx) ////X ->(///////// 46673.000 Reflector silver ECG Wall height (m) 3.0 detail Offset from wall (m) TC-TELI 32W GX24q-3 2400lm Weight 1.70kg 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 200 Luminaire spacing (m) IMF C Illuminance E_n (lx) 258 200 165 135 TC-TELI 47675.000 Reflector silver ECG DALI Mean illuminance E_n (lx) Flush mounting Ø 244 Wall height (m) 47673.000 Reflector silver ECG detail Weight 1.70kg LMF C TC-TELI 32W GX24q-3 2400lm Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) 202 Illuminance E_n (lx) 258 200 165 135 Ø 242 TC-TELI 46674.000 Reflector silver FCG DALL Covered mounting Mean illuminance E_n (Ix) Ø 240 46672.000 Reflector silver ECG Wall height (m) detail 2xTC-TELI 32W GX24q-3 2400lm Weight 1.80kg Offset from wall (m) 0.90 1.20 1.20 200 1.20 1.20 1.50 LMF C Luminaire spacing (m) Illuminance E_n (Ix) Ø 255 2xTC-TELI 47674.000 Reflector silver ECG DALI Flush mounting Mean illuminance E_n (lx) Ø 244 **47672.000** Reflector silver ECG 4.0 Wall height (m) detail 2xTC-TELI 32W GX24q-3 2400lm Weight 1.80kg Offset from wall (m) 0.90 1.20 1.20 LMF C 202 ₽ Luminaire spacing (m) 1.20 1.20 1.50 Illuminance E_n (lx) 307 269 221

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Ø 242

2xTC-TELI

Quintessence round Accessories

		/	816,00	615000	518,000	36.00	979	\$50.10 ⁰ 8395	000
Downlights		87.	3/6,5	875 875 875 875	6 ¹⁸¹	one of	31.5	Par Association	800
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	46623.000						•	•	
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	46626.000		•		•		•	•	
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	47629.000	•							

Quintessence round Accessories

Washlights		8.	816,00	675.00	18.00 83 ⁵	256.00	97.00	550.00 8395	80.00
	46632.000	•	•		•		•	•	
	46633.000		•		•		•	•	
	46636.000	•		•		•	•	•	
	46637.000	•		•		•	•	•	
	46638.000	•		•		•	•	•	
	46639.000			•		•	•	•	
	46640.000			•		•	•	•	
	46641.000			•		•	•	•	
	46648.000	•					•	•	
	46649.000	•					•	•	
	46650.000						•	•	
	46651.000						•	•	
	46656.000	•	•		•		•	•	
	46657.000		•		•		•	•	
	46660.000	•		•		•	•	•	
	46661.000			•		•	•	•	
	47632.000	•							
	47636.000	•							
	47637.000	•							
	47638.000	•							
	47648.000	•							
	47649.000	•							
	47656.000	•							
	47660.000	•							

Double washlights	5	8	816,000	5015,000	018,000	296,000	31,00	350,000	380,000
	46634.000	•	•		•		•	•	
	46635.000		•		•		•	•	
	46642.000	•		•		•	•	•	
	46643.000	•		•		•	•	•	
	46644.000	•		•		•	•	•	
	46645.000			•		•	•	•	
	46646.000			•		•	•	•	
	46647.000			•		•	•	•	
	46652.000	•					•	•	
	46653.000	•					•	•	
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	46655.000						•	•	
	46658.000	•	•		•		•	•	
	46659.000		•		•		•	•	
	46662.000	•		•		•	•	•	
	46663.000			•		•	•	•	
	47634.000	•							
	47642.000	•							
	47643.000	•							
	47644.000	•							
	47652.000	•							
	47653.000	•							
	47658.000	•							
	47662.000	•							

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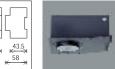
581

Quintessence round Accessories

Wallwashers		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	835	o15,000 / 835	i18.000 835	296.00	97,00	950,000 939 <u>9</u>	30,000
	46664.000	•	•		•		•	•	
	46665.000		•		•		•	•	
	46666.000	•		•		•	•	•	
	46667.000	•		•		•	•	•	
	46668.000	•		•		•	•	•	
	46669.000			•		•	•	•	
	46670.000			•		•	•	•	
	46671.000			•		•	•	•	
	46672.000	•					•	•	
	46673.000	•					•	•	
	46674.000						•	•	
	46675.000						•	•	
	46676.000	•	•		•		•	•	
	46677.000		•		•		•	•	
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	46679.000			•		•	•	•	
	47664.000	•							
	47666.000	•							
	47667.000	•							
	47668.000	•							
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	47676.000	•							
	47678.000	•							

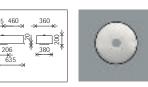














83816.000

DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg





83596.000 Spacer plate For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.10kg











83597.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.15kg

82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.

83980.000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Quintessence square with LED



The system design of Quintessence provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. A special feature of the Quintessence range is the many options available for the installation detail. All luminaires are available with a covered or flush mounting detail. There are three options available for the luminaire edge: direct transition from ceiling to luminaire, shadow gap or even a varychrome ring illuminated in any required colour. Simple mounting makes for a highly economical installation.

The range of square recessed ceiling luminaires with LEDs includes downlights, lens wallwashers and directional luminaires. LEDs excel due to their exceptionally high energy efficiency and low IR and UV radiation. They are comparable with metal halide lamps in terms of luminous efficacy, while being dimmable and capable of hot restart. Due to their reduced operating costs, LEDs are a cost-efficient option of illuminating even sensitive exhibits or products without damage. The current LEDs,

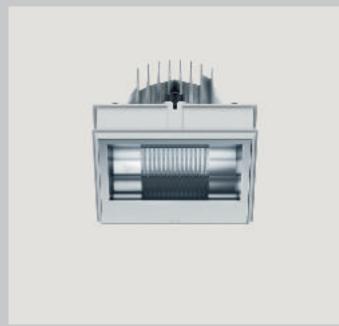
especially in warm white and with 4-channel varychrome technology, achieve an excellent colour rendition. Light colours for single-colour versions include warm white and daylight white, and for coloured luminaires, 4-channel varychrome with RGB colour mixing technology. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Fitted with energy-efficient LED lamps, the Quint-essence recessed luminaires produce both white light for ambient luminescence and coloured, highly effective light for a focal glow.

583

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Quintessence square with LED



The square Quintessence recessed ceiling luminaires for LEDs are available in versions with different light distributions, cut-off angles, reflector sizes, luminaire edges and installation details. The spectrum of light distributions includes downlights, lens wallwashers and directional luminaires. Depending on the requirements as to visual comfort and recess depth, Quintessence includes cut-off angles of 30° or 40°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The various mounting frames can be used as a covered or flush mounting detail. There are three options available for the luminaire edge: the conventional joint between ceiling and luminaire edge, shadow

gap and varychrome ring.
All Quintessence luminaires have aluminium cooler housings which are designed to provide optimum thermal properties according to their particular technical require-

ments. The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The aluminium reflector is mirror-finish silver anodised. The installation units required are available as accessories. The separate mounting frame supplied allows efficient installation on the construction site.

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 3 to 5 with a cut-off angle of 30° or 40° with high-power LEDs in warm white, daylight white or varychrome. Light white or downlights include versions with wide diffuser for wide beam light distribution.

Application

Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Lens wallwashers



The lens wallwasher produces uniform light distribution over the whole wall. The range of lens wallwashers comprises luminaires in sizes 4 and 5 with high-power LEDs in warm white, daylight white or varychrome.

Application

Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Directional luminaires



The Quintessence directional luminaires are available in the Spherolit lens versions spot or flood. The luminaires with a cut-off angle of 40° can be tilted up to 30° and rotated through 360°. The range comprises luminaires in size 5 for high-power LEDs in warm white or daylight white.

Application

Rotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Application areas include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Quintessence square with LED



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range allows many different versions to be produced by combining the mounting detail and the luminaire edge. The incorporation of digitally controllable DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mounting rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Downlight



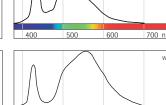
Lens wallwasher



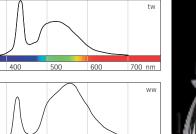
Directional luminaire

585



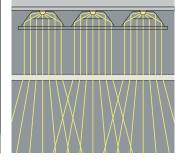


500



600





Colour temperature and colour rendition

LED ww

Quintessence recessed luminaires are avail-able in daylight white and warm white and also as 4-channel varychrome with RGBW colour mixing technology. The warm white version pro-duces a higher colour rendition quality than the daylight white model.

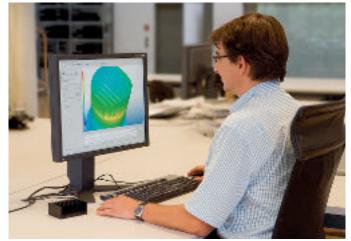
For the different downlight char-acteristics and the lens wallwashers, the light is directed by an 8-segment, mirror-finish reflector. The interreflections within the light mixer, especially in the RGBW LED modules, result in

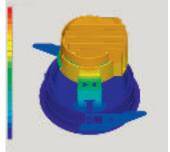
LED light mixer the best possible colour mixing beginning directly beneath the luminaire.

LED Spherolit lens and colli-mating lens The directional luminaires have lens systems designed and built by ERCO: the collimating lens creates a parallel beam, while a Spherolit lens produces the precise beam angle required.

www.erco.com ERCO Program 2010/11 Heat management

Good heat management in the luminaire is crucial for continuous operation, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and material of the housing that all contribute to optimum heat management. Extensive simulations and tests during the development phase ensure the success of all the products in the range.





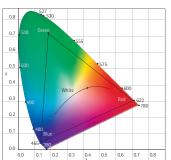
Two aspects make a major contribution to the performance of Quintessence LED luminaires: the contact surfaces between the LED's printed circuit board and the housing ensure good heat dissipation. The cooling fins on the housing fur-

ther dissipate the heat to achieve optimum conditions for continuous operation.

4-channel varychrome

In the Quintessence recessed luminaires product range, ERCO introduces luminaires with LEDs and 4-channel varychrome technology. By combining RGBW colour mixing with white LEDs, these luminaires can optionally produce either white light with variable colour temperature at high luminous flux and good colour rendi-tion or coloured light ranging from differentiated pastel hues to highly saturated colours. Light Studio has a corresponding attribute for controlling these luminaires. This consists either of a colour circle (which will be familiar to users of previous varychrome luminaires) or a slider control to regulate the colour of white along the Planckian locus from cool to warm. The 4-channel varychrome control gear units only require one DALI address despite having four control channels.





Within the coloured area of the CIE diagram, the Planckian locus traces the whites of different colour temperatures – from bluish cool white to reddish warm white.









W-









Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

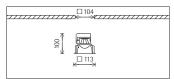
Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.

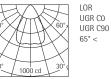
Recess depth 180mm for installation units 83693.000, 83694.000. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 610

36701.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩



 \bigcirc LED



18.9 188 1000 cd/m²

36700.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg IMF D 日本①

□ 113

LED

0.64 UGR CO 18.2 UGR C90 18.1 1000 cd/m² 65° <

37701.000 Reflector silver LED day-LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg 日本 ⑩

107

 \bigcirc LED

0.64 UGR CO 18.9 LIGR C90 188 1000 cd/m²

37700.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg LMF D 日本 ⑩

□ 107

 \bigcirc LED

37700.000

0.64 UGR CO 18.2 UGR C90 18.1 1000 cd/m² 65° <

Number of luminaires per 100m2 for 100lx 36701.000 14 W 14

200lx 300lx 500lx 28 42 70 36700.000 52 86 14 W 18 35 37701.000 28 42 70 14 37700.000 14 W 18 35 52 86

Illuminance En (Ix) for module (m) 1.2x1.8 1.8x1.8 36701.000 14 W 335 223 36700.000 14 W 270 180 37701.000

2.4x2.4 1.8x2.4 168 126 135 101 223 168 335 126 180 135 101

Number of luminaires per 100lx

Connected load without control gear 36701.000 14 W 36700 000 14 W 37701.000 14 W 37700.000

Connected load per 100b without control gear 36701.000 1.93 W/m² 2.40 W/m² 36700 000 37701.000 1.93 W/m² 37700.000 2.40 W/m²

36701.000 36700 000 17.15 1/100m² 13.82 1/100m² 37701.000 37700.000 17.15 1/100m²





PHIG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail.
Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30° Recess depth 180mm for DALI control

gear. Available from 2nd quarter 2010 Accessories page 610

36804.000 Reflector silver LED daylight white DALI LÉD 14W 1080lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D

234 x 79

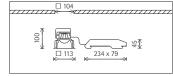




LOR 0.64 UGR CO UGR C90 18.8 1000 cd/m² 65° <

36803.000 Reflector silver LED warm white DALI LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D





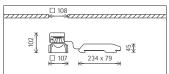


0.64 UGR CO 18.2 UGR C90 18 1 1000 cd/m² 65° <

37803.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1

Wide diffuser: glass, frosted.

Flush mounting detail







LIGR CO UGR C90 65° <

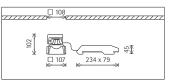
18.9 18.8 1000 cd/m²

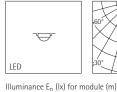
37802.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Weight 1.00kg LMF D

Flush mounting

detail Weight 1.00kg LMF D





LOR 0.64 UGR CO 18.2 UGR C90 18.1 65° < 1000 cd/m²

Number of luminaires per 100m² for

		1001X	2001X	300IX	5001X	
36804.000	14 W	14	28	42	70	
36803.000	14 W	18	35	52	86	
37803.000	14 W	14	28	42	70	
37802.000	14 W	18	35	52	86	

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36804.000	14 W	335	223	168	126
36803.000	14 W	270	180	135	101
37803.000	14 W	335	223	168	126
37802.000	14 W	270	180	135	101

Connected load 36804.000 36803.000 17 W 37803.000 17 W 37802.000 17 W

Connected load per 100lx 36804.000 2.35 W/m² 36803.000 2.92 W/m² 37803.000 2.35 W/m² 37802.000 2.92 W/m

Number of luminaires per 100lx 36804.000 . 13.82 1/100m² 36803.000 n*: 17.15 1/100m² 13.82 1/100m² 37803.000 17.15 1/100m² 37802.000







Housing cast aluminium designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

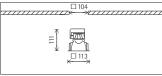
Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°.

Recess depth 180mm for installation units 83693.000, 83694.000. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 610

36725.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩







0.56 UGR CO 17.2 UGR C90 175 65° <

36724.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.40kg 日本 ⑩

□ 104

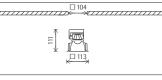




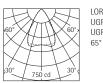
1000 cd/m²

37725.000 Reflector silver LED day-

Flush mounting detail Weight 0.40kg LMF D 日本 ⑩



LED



0.56 16.4 168 1000 cd/m²

liaht white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.





0.56 UGR CO 17.2 UGR C90 17.5 1000 cd/m²

65° <

37724.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.40kg IMF D 日本 ⑪

	□ 108 zx >v./////////
£=	□ 107 □ 107





LOR 0.56 UGR CO 16.4 UGR C90 16.8 1000 cd/m² 65° <

Number	of	luminaires	per	100m ²	for
					_

INUITION OF TU	mmancs p	CI IOOIII	101		
		100lx	200lx	300lx	500lx
36725.000	14 W	16	32	48	79
36724.000	14 W	20	40	59	98
37725.000	14 W	16	32	48	79
37724.000	14 W	20	40	59	98

	36725.000	14 W	
	36724.000	14 W	
	37725.000	14 W	
	37724.000	14 W	
100lx			

2.75 W/m²

LED	60°, 60°, 60°, 60°, 750 cd 30°,					
Illuminance E _n (lx) for module (m)						

195

157

195

110

89

110

Connected load

rol gea	r
P:	14 W
	P: P: P:

(Connected I	oad per 1	100lx	
١	without con	trol gear		
(36725.000	P*:	2.21	W/m ²
	36724.000	P*:	2.75	W/m ²
(37725.000	P*:	2.21	W/m ²

4.000	14 W	236	157	118	
		Numbe	er of lumin	aires per	100lx

1.2x1.8

293

236

293

36725.000	n*:	15.80 1/100m ²
36724.000	n*:	19.61 1/100m ²
37725.000	n*:	15.80 1/100m ²
37724.000	n*:	19.61 1/100m ²

1.8x2.4

147

118

147

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37724.000





DALI PLUG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing frame: plastic, black Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40° Recess depth 180mm for DALI control

gear. Available from 2nd quarter 2010 Accessories page 610

36828.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D

□ 113 234 x 79

 \bigcirc LED

UGR CO 17.2 LIGR C90 17.5 1000 cd/m²

65° <

UGR CO

65° <

36827.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D

234 x 79

LED

0.56 16.4 UGR C90 16.8 1000 cd/m²

37817.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D

□ 108 234 x 79 □ 107

 \bigcirc LED

65° <

0.56 UGR CO 17.2 LIGR C90 17.5 1000 cd/m²

37816.000 Reflector silver LED warm white DALI LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D

□ 108 234 x 79

59

 \bigcirc LED

36828.000

36827.000

37817.000

0.56 UGR CO 16.4 UGR C90 16.8 1000 cd/m²

Number of luminaires per 100m2 for 100lx 200lx 300lx 500lx 36828.000 14 W 16 32 48 79 36827.000 14 W 59 40 98 20 37817.000 48 16 32 79

40

20

17 W

17 W

98 37816.000 Connected load per 100lx 36828.000 36827.000 37817 000 2 69 W/m²

Illuminance En (lx) for module (m)

1.8x1.8

195

157

195

157

1.2x1.8

293

236

293

236

14 W

14 W

65° <

2.4x2.4

110

89

89

110

37816.000 14 W Connected load 36828.000 36827.000 37817 000 37816.000 17 W

2.69 W/m² 3.33 W/m² 37816.000 3.33 W/m² Number of luminaires per 100lx 36828.000 15.80 1/100m² 36827.000 19.61 1/100m² 37817 000 15.80 1/100m² 19.61 1/100m² 37816.000

1.8x2.4

147

118

118

Quintessence Downlight with LED and shadow gap







Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail. Cable, L 500mm. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-

Darklight reflector: aluminium, satin-

finish anodised.

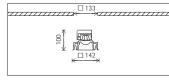
matt anodised. Reflector size 3, cut-off angle 30°.

Recess depth 150mm for installation unit 83695.000 Control gear to be ordered separately.

Available from 2nd quarter 2010 Accessories page 610

36703.000 Reflector silver LED day-LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg IMF D 日本 ⑪





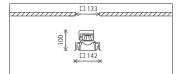


0.64 UGR CO 18.9 UGR C90 18.8 1000 cd/m² 65° <

36702.000 Reflector silver LED warm white LED 14W 870lm 3200K

Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg LMF D 日本 ⑩





LIGR CO 18.2 UGR C90 18.1 1000 cd/m² 65° <

37703.000 Reflector silver LED day-LED 14W 1080lm 5500K Wide diffuser: glass, frosted.

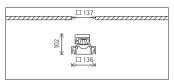
Flush mounting detail Weight 0.48kg 日本 ⑩

LED LED

LOR 0.64 UGR CO 18.9 UGR C90 18.8 65° < 1000 cd/m²

37702.000 Reflector silver LED warm white LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.48kg LMF D 日本 ⑩



 \bigcirc LED

 \bigcirc

LOR 0.64 UGR CO 18.2 LIGR C90 18 1 1000 cd/m² 65° <

Number of luminaires per 100m2 for

		100lx	200lx	300lx	500lx
36703.000	14 W	14	28	42	70
36702.000	14 W	18	35	52	86
37703.000	14 W	14	28	42	70
37702.000	14 W	18	35	52	86

Illuminance E_n (lx) for module (m)

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
36703.000	14 W	335	223	168	126	
36702.000	14 W	270	180	135	101	
37703.000	14 W	335	223	168	126	
37702.000	14 W	270	180	135	101	

Connected load without control gear 36703.000 14 W 36702 000 14 W 37703.000 14 W 37702.000

Connected load per 100lx without control gear 36703.000 1.93 W/m² 36702 000 2 40 W/m² 37703.000 1.93 W/m² 2.40 W/m² 37702.000

36703.000 13.82 1/100m² 17 15 1/100m² 36702 000 37703.000 13.82 1/100m² 37702.000 17.15 1/100m²

Number of luminaires per 100lx





DALI PLUG+ PLAY



Size 4 Housing: cast aluminium, designed as heat sink, with connection cable As read sink, with confection cable to 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mount-

ing detail and 12.5-25mm with flush mounting detail. Including DALI control gear with plug

and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Reflector size 3, cut-off angle 30°. Recess depth 150mm for DALI control

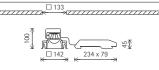
Available from 2nd quarter 2010

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36806.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

36805.000 Reflector silver LED warm white DALI LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D

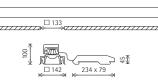






0.64 UGR CO 18.9 UGR C90 18.8 1000 cd/m² 65° <

Covered mounting detail Weight 1.10kg LMF D



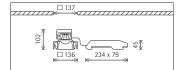




0.64 UGR CO 18.2 UGR C90 18 1 1000 cd/m² 65° <

37805.000 Reflector silver LED daylight white DALI LED 14W 1080Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.10kg LMF D





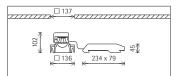


18.9 18.8 1000 cd/m²

37804.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.10kg LMF D

N







180

0.64 18.2 18.1 1000 cd/m²

UGR CO

UGR C90

101

65° <

umber of luminaires per 100m² fo	umber	of	luminaires	per	100m ²	fo
----------------------------------	-------	----	------------	-----	-------------------	----

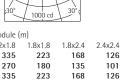
	100lx	200lx	300lx	500lx	
14 W	14	28	42	70	36806.000
14 W	18	35	52	86	36805.000
14 W	14	28	42	70	37805.000
14 W	18	35	52	86	37804.000
	14 W 14 W	14 W 14 14 W 18 14 W 14	14 W 14 28 14 W 18 35 14 W 14 28	14 W 14 28 42 14 W 18 35 52 14 W 14 28 42	14 W 14 28 42 70 14 W 18 35 52 86 14 W 14 28 42 70

Illuminance E_n (lx) for module (m) 1.2x1.8 6806 000 14 W 335 223 6805.000 14 W

270

14 W

14 W



135

Connected load 36806.000 36805.000 17 W 37805.000 17 W 37804.000 17 W

Connected load per 100lx 36806.000 36805.000 2.92 W/m² 37805.000 2.35 W/m² 37804.000 2.92 W/m²

Number of luminaires per 100lx 13.82 1/100m² 36806.000 36805.000 17.15 1/100m² 37805.000 13.82 1/100m² 17.15 1/100m² 37804.000







Size 4 Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satin-

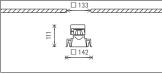
matt anodised. Reflector size 3, cut-off angle 40°.

Recess depth 150mm for installation unit 83695.000 Control gear to be ordered separately. Available from 2nd quarter 2010

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36727.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg LMF D 日本 ⑩



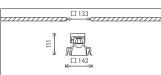




0.56 UGR CO 17.2 UGR C90 175 1000 cd/m² 65° <

36726.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.48kg LMF D 日本 ⑩



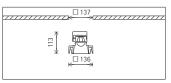




0.56 UGR CO 16.4 LIGR C90 168 1000 cd/m² 65° <

37727.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.48kg LMF D 日本 ⑩



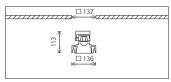




0.56 UGR CO 17.2 UGR C90 17.5 1000 cd/m² 65° <

37726.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.48kg LMF D 日本 ⑪





60°,
(XXXX)
$\mathcal{N} \mid \mathcal{N} \mid$
30° 750 cd 30°
/50 ca

LOR 0.56 UGR CO 16.4 UGR C90 16.8 1000 cd/m² 65° <

Number of Iu	ıminaires p	er 100m²	for			Illuminance E _n (b) for module	(m)		
		100lx	200lx	300lx	500lx		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36727.000	14 W	16	32	48	79	36727.000 14	W 293	195	147	110
36726.000	14 W	20	40	59	98	36726.000 14	W 236	157	118	89
37727.000	14 W	16	32	48	79	37727.000 14	W 293	195	147	110
37726.000	14 W	20	40	59	98	37726.000 14	W 236	157	118	89

Connected load								
without cont	rol gea	ar						
36727.000	P:	14 W						
36726.000	P:	14 W						
37727.000	P:	14 W						
37726.000	P:	14 W						

Connected Ic	ad per	100lx
without cont	rol gea	ır
36727.000	P*:	2.21 W/m ²
36726.000	P*:	2.75 W/m ²
37727.000	P*:	2.21 W/m ²
37726.000	P*:	2.75 W/m ²

Number	of	luminair	es p	er	100lx

36727.000	n*:	15.80 1/100m ²
36726.000	n*:	19.61 1/100m ²
37727.000	n*:	15.80 1/100m ²
37726.000	n*:	19.61 1/100m ²





DALI PLUG+ PLAY



Size 4

Housing: cast aluminium, designed As heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

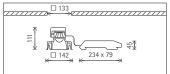
Darklight reflector: aluminium, satinmatt anodised. Reflector size 3, cut-off angle 40°. Recess depth 150mm for DALI control

Ávailable from 2nd quarter 2010

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36830.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D



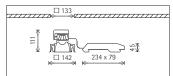




0.56 UGR CO 17.2 UGR C90 17.5 1000 cd/m² 65° <

36829.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.10kg LMF D



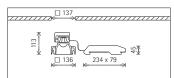




0.56 UGR CO 16.4 UGR C90 168 1000 cd/m² 65° <

37819.000 Reflector silver LED daylight white DALI LÉD 14W 1080lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.10kg LMF D



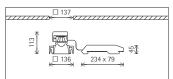




0.56 UGR CO 17.2 UGR C90 17.5 1000 cd/m² 65° <

37818.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.10kg LMF D







0.56 UGR CO 16.4 UGR C90 16.8 1000 cd/m² 65° <

Number	of	luminaires	per	100m ²	for
				:	_

		100lx	200lx	300lx	500lx
36830.000	14 W	16	32	48	79
36829.000	14 W	20	40	59	98
37819.000	14 W	16	32	48	79
37818.000	14 W	20	40	59	98

Illuminance	E _n (lx) fo	r module (ı	m)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36830.000	14 W	293	195	147	110
36829.000	14 W	236	157	118	89
37819.000	14 W	293	195	147	110
37818.000	14 W	236	157	118	89

Connected loa	ad			Connected lo	oad per	100lx	Number o	f luminai	res per	100lx
36830.000	P:	17 W		36830.000	P*:	2.69 W/m ²	36830.000	0 n*:	15.8	30 1/100m ²
36829.000	P:	17 W		36829.000	P*:	3.33 W/m ²	36829.000	0 n*:	19.6	61 1/100m ²
37819.000	P:	17 W		37819.000	P*:	2.69 W/m ²	37819.000	0 n*:	15.8	30 1/100m ²
37818.000	P:	17 W		37818.000	P*:	3.33 W/m ²	37818.000	0 n*:	19.6	61 1/100m ²

www.erco.com ERCO Program 2010/11







Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector: aluminium, satin-

matt anodised. Cut-off angle 30°.

Recess depth 150mm for installation unit 83695.000 Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 610

36731.000 Reflector silver LED day-LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩

133 124

LED

UGR CO 17.7 LIGR C90 179 1000 cd/m² 65° <

UGR CO

65° <

65° <

141

36730.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg IMF D 日本①

124 □ 142

LED



0.60 16.9 UGR C90 17.1 1000 cd/m²

37731.000 Reflector silver LED day-LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg 日本 ⑩

126 □ 136

 \bigcirc LED

UGR CO 65° <

0.60 17.7 LIGR C90 179 1000 cd/m²

37730.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg LMF D 日本 ⑩



0.60 UGR CO 16.9 UGR C90 17.1 1000 cd/m²

Number of luminaires per 100m² for 367

		100lx	200lx	300lx	500lx
36731.000	21 W	10	20	30	50
36730.000	21 W	13	25	37	62
37731.000	21 W	10	20	30	50
37730.000	21 W	13	25	37	62

36731.000 36730.000 21 W 37731.000 37730.000 376

Illuminance En (Ix) for module (m) 1.2x1.8 1.8x1.8 2.4x2.4 467 311 233 175 376 251 188 141 311 175 467 233

188

Connected load without control gear 36731.000 21 W 36730,000 21 W 37731.000 21 W 37730.000

Connected load per 100b without control gear 36731.000 2.08 W/m² 2.59 W/m² 36730 000 37731.000 2.08 W/m² 37730.000 2.59 W/m² Number of luminaires per 100lx

251

36731.000 9.92 1/100m² 36730,000 12.31 1/100m² 37731.000 9.92 1/100m² 37730.000 12.31 1/100m²





DALI PLUG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail.
Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Recess depth 150mm for DALI control gear. Available from 3rd guarter 2010

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36834.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D

124 223 x 95 142

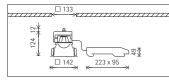




LOR 0.60 UGR CO 17.7 UGR C90 179 1000 cd/m² 65° <

36833.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D





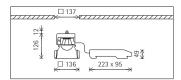


0.60 UGR CO UGR C90 1000 cd/m² 65° <

37823.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D







LIGR CO UGR C90 65° <

17.7 17.9 1000 cd/m²

37822.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D

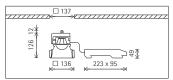
Connected load

36834.000

36833.000

37823.000

37822.000





21 W

21 W

21 W

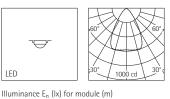
21 W

36834 000

36833.000

37823.000

37822.000



1.8x1.8

311

251

1.2x1.8

467

376

37822.000

LOR 0.60 UGR CO 16.9 UGR C90 17.1 65° < 1000 cd/m²

Number	of	luminaires	per	100m ²	for
				1001	2

25 W

25 W

25 W

		100lx	2001x	300lx	500lx
36834.000	21 W	10	20	30	50
36833.000	21 W	13	25	37	62
37823.000	21 W	10	20	30	50
37822.000	21 W	13	25	37	62

Connect	ed loa	d per 1	100lx	
36834.0	00	P*:	2.48	W/m ²
36833.0	00	P*:	3.08	W/m ²
37823.0	00	P*:	2.48	W/m ²

37822.000

467 376 251 188 141 Number of luminaires per 100lx 9.92 1/100m² 36834.000 36833.000 n*: 12.31 1/100m² 9.92 1/100m² 37823.000

.8x2.4

233

188

2.4x2.4

12.31 1/100m²

175

141







Housing cast aluminium designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

3.08 W/m²

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector: aluminium, satin-

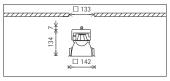
matt anodised. Cut-off angle 40°.

Recess depth 150mm for installation unit 83695.000 Control gear to be ordered separately.

Available from 2nd quarter 2010 Accessories page 610

36707.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩







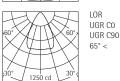
0.60 UGR CO UGR C90 16.8 1000 cd/m² 65° <

36706.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.60kg 日本 ⑩

134 □ 142





0.60 15.9 160 200 cd/m²

37707.000 Reflector silver LED dayliaht white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg LMF D 日本 ⑩

□ 136



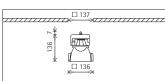


0.60 UGR CO 16.7 UGR C90 16.8 1000 cd/m²

65° <

37706.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.60kg IMF D 日本 ⑪



	7	
LED		



0.60 UGR CO 15.9 UGR C90 160 200 cd/m² 65° <

Number	of	luminaires	per	100m ²	fo

		100lx	200lx	300lx	500lx	
36707.000	21 W	10	20	30	49	
36706.000	21 W	13	25	37	61	
37707.000	21 W	10	20	30	49	
37706.000	21 W	13	25	37	61	

		1.2x1.8	1.8x1
36707.000	21 W	472	31
36706.000	21 W	380	25
37707.000	21 W	472	31
37706.000	21 W	380	25

LLD			1230 Cu	+					
Illuminance E _n (lx) for module (m)									
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4				
36707.000	21 W	472	315	236	177				
36706.000	21 W	380	253	190	143				
27707.000	21 14/	472	215	220	177				

Connected load

without conti	roi gea	r	
36707.000	P:	21 W	
36706.000	P:	21 W	
37707.000	P:	21 W	
37706.000	P:	21 W	

Connected load per 100ix									
without control gear									
36707.000	P*:	2.06 W/m ²							
36706.000	P*:	2.56 W/m ²							
37707.000	P*:	2.06 W/m ²							
37706.000	P*:	2.56 W/m ²							

Number of luminaires per 100lx

36707.000	n*:	9.81 1/100m ²
36706.000	n*:	12.18 1/100m ²
37707.000	n*:	9.81 1/100m ²
37706.000	n*:	12.18 1/100m ²





DALI PLUG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable 500mm. Fixing frame: plastic, black Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40° Recess depth 150mm for DALI control

gear. Available from 3rd guarter 2010 Accessories page 610

36810.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D

□ 133 34 223 x 95 □ 142



0.60 UGR CO UGR C90 16.7 16.8 1000 cd/m²

65° <

UGR CO

65° <

36809.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.25kg LMF D

134 223 x 95 □ 142

LED

0.60 15.9 UGR C90 16.0 200 cd/m²

37809.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D

136 223 x 95 □ 136

LED

0.60 UGR CO 16.7 LIGR C90 16.8 1000 cd/m² 65° <

37808.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.25kg LMF D

36809.000

37809 000

37808.000

223 x 95 □ 136

300lx

30

37

30

37

500lx

49

61

49

37808.000

 \bigcirc LED

21 W

21 W

21 W

472

380

472

36810.000

36809.000

37809.000

3.04 W/m²

0.60 15.9 UGR C90 16.0 200 cd/m²

Number of luminaires per 100m2 for 100lx 200lx 36810.000 21 W 10 20 36809.000 21 W

25 13 37809.000 21 W 20 10 37808.000 21 W 13 25 Connected load 36810.000

25 W

25 W

25 W

61 37808.000 Connected load per 100lx 36810.000 2.45 W/m² 36809.000 3.04 W/m² 37809 000 2 45 W/m²

Illuminance En (Ix) for module (m) 1.2x1.8 1.8x1.8

315

253

315

177

UGR CO

65° <

380 253 190 143 Number of luminaires per 100lx 36810.000 9.81 1/100m² 36809.000 12.18 1/100m² 37809 000 9.81 1/100m² 37808.000 12.18 1/100m²

236

Quintessence Downlight with LED and shadow gap







Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thick-

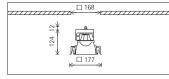
nesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail. Cable, L 500mm. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off angle 30°.

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 610

36733.000 Reflector silver LED day-LÉD 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg IMF D 日本 ⑪







0.60 UGR CO UGR C90 179 1000 cd/m² 65° <

36732.000 Reflector silver LED warm white LED 21W 1305lm 3200K

Version 1 Wide diffuser: glass, frosted.

37733.000 Reflector silver LED day-LED 21W 1620lm 5500K Wide diffuser: glass, frosted.

37732.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑩

Flush mounting

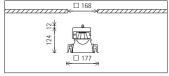
Flush mounting

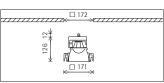
detail Weight 0.71kg LMF D

日本 ⑩

detail Weight 0.71kg LMF D

日本 ⑩





 \bigcirc LED

LED

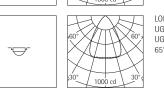
LED



LIGR CO UGR C90

16.9 17.1 1000 cd/m²

0.60 UGR CO 17.7 UGR C90 17.9 65° < 1000 cd/m²



LOR 0.60 UGR CO 16.9 LIGR C90 171 1000 cd/m² 65° <

175

141

141

Number of luminaires per 100m ² for									
		100lx	200lx	300lx					
36733.000	21 W	10	20	30					
36732.000	21 W	13	25	37					
37733.000	21 W	10	20	30					
37732.000	21 W	13	25	37					
Connected load									

Co 36733.000 21 W P: 36732 000 21 W 37733.000 21 W 37732.000

500lx 1.8x1.8 36733.000 21 W 50 467 311 233 36732.000 62 21 W 376 251 188 37733.000 21 W 62 37732.000 21 W 376 251 188 Connected load per 100lx Number of luminaires per 100lx

Illuminance E_n (lx) for module (m)

without control gear 36733.000 2.08 W/m² 36732 000 2 59 W/m² 37733.000 2.08 W/m² 37732.000 2.59 W/m² 36733.000 9.92 1/100m² 12.31.1/100m² 36732.000 37733.000 9.92 1/100m² 37732.000 12.31 1/100m²









Size 5 Housing: cast aluminium, designed as heat sink, with connection cable As read sink, with confection cable to 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Including DALI control gear with plug

and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off

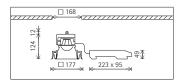
angle 30°. Available from 3rd quarter 2010 Accessories page 610

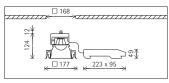
36836.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

36835.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg LMF D

Covered mounting detail Weight 1.37kg LMF D











0.60 UGR CO UGR C90 17.9 1000 cd/m² 65° <

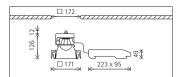


0.60 UGR CO 16.9 UGR C90 17 1 1000 cd/m² 65° <

37824.000

37825.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D







LIGR CO 17.7 UGR C90 17.9 1000 cd/m² 65° <

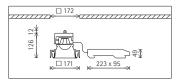
UGR CO

UGR C90

65° <

37824.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D



37824.000





37824.000

0.60 16.9 17.1 1000 cd/m²

Number of Iu	uminaires p	er 100m²	for				Illuminance	E _n (lx) fo	r module (m)		
		100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36836.000	21 W	10	20	30	50		36836.000	21 W	467	311	233	175
36835.000	21 W	13	25	37	62		36835.000	21 W	376	251	188	141
37825.000	21 W	10	20	30	50		37825.000	21 W	467	311	233	175
37824.000	21 W	13	25	37	62		37824.000	21 W	376	251	188	141
Connected load			Connected load per 100lx		Number of luminaires per 100lx			100lx				
36836.000	P: 25 V	N			36836.000	P*:	2.48 W/m ²		3683	6.000	n*: 9.	92 1/100m ²
36835.000	P: 25 V	N			36835.000	P*:	3.08 W/m ²		3683	5.000	n*: 12.	31 1/100m ²
37825.000	P: 25 V	N			37825.000	P*:	2.48 W/m ²		3782	5.000	n*: 9.	92 1/100m ²





25 W



Size 5 Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

3.08 W/m²

Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-

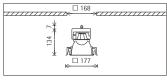
finish anodised. Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off angle 40°.

12.31 1/100m²

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 610

36709.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑩







0.60 UGR CO 16.7 UGR C90 16.8 1000 cd/m²

65° <

65° <

65° <

LOR

65° <

UGR CO

9.81 1/100m²

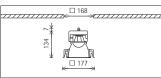
12.18 1/100m²

9.81 1/100m²

12.18 1/100m²

36708.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.71kg LMF D 日本 ⑩



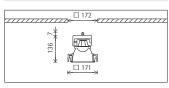




0.60 UGR CO 15.9 LIGR C90 160 200 cd/m²

37709.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg LMF D 日本 ⑩







0.60 UGR CO 16.7 UGR C90 16.8 1000 cd/m²

37708.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.71kg LMF D 日本 ⑪

36709.000

36708.000

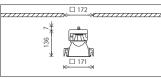
37709.000

37708.000

21 W

21 W

21 W



	₩
LED	

HAVAN
X//TT(\X_0)
60° X / X 60° x
$1 \times /M + M \times 1$
V X Y T Y X Y
1/7++
$1 \times 1 + 1 \times 1$
30° / 1250 cd \ 30°
1250 cu

36709.000

36708.000

37709.000

37708.000

0.60 15.9 UGR C90 160 200 cd/m²

597

Number of Iu	ıminaires p	oer 100m²	for			Illuminance	E _n (lx) fo	r module (m)		
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36709.000	21 W	10	20	30	49	36709.000	21 W	472	315	236	177
36708.000	21 W	13	25	37	61	36708.000	21 W	380	253	190	143
37709.000	21 W	10	20	30	49	37709.000	21 W	472	315	236	177
37708.000	21 W	13	25	37	61	37708.000	21 W	380	253	190	143
Connected lo					Connected	load per 100lx		Num	ber of lum	inaires per	100lx

2.06 W/m²

2.56 W/m²

2.06 W/m²

2.56 W/m²

36709.000

36708.000

37709.000

37708.000

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DALI PLUG+ PLAY

Size 4 40°

Size 5 Housing: cast aluminium, designed As heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

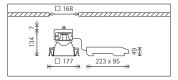
Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral shadow gap: plastic, black. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off angle 40°. Available from 3rd quarter 2010

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36812.000 Reflector silver LED daylight white DALI LÉD 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg LMF D



LED



0.60 UGR CO 16.7 UGR C90 16.8 1000 cd/m² 65° <

36811.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.37kg LMF D

□ 168 134 □ 177





0.60 15.9 LIGR C90 160 200 cd/m²

UGR CO

65° <

37811.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D

□ 172 Jo ≎≬ ☐ 171 → 223 x 95

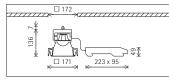




0.60 UGR CO 16.7 UGR C90 16.8 1000 cd/m² 65° <

37810.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.37kg LMF D





37810.000



253

0.60 UGR CO 15.9 UGR C90 160 200 cd/m² 65° <

Number	of	luminaires	per	100m ²	fo
realifoci	01	iuiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	pei	100111	10

		TUUIX	200IX	300IX	500IX	
36812.000	21 W	10	20	30	49	
36811.000	21 W	13	25	37	61	
37811.000	21 W	10	20	30	49	
37810.000	21 W	13	25	37	61	

Illuminance	E_n (IX) for	module (r	n)
		1.2x1.8	1.8x1.8
36812.000	21 W	472	315
36811.000	21 W	380	253
37811.000	21 W	472	315

380

21 W

30°	1250 cd	30° s	
nodule (r	m)		
.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
472	315	236	177
380	253	190	143
472	315	236	177

Connected load 36812.000 36811.000 25 W 37811.000 25 W 37810.000 25 W

Connected load per 100lx 36812.000 2.45 W/m² 36811.000 3.04 W/m² 37811.000 2.45 W/m² 37810.000 3.04 W/m²

Number of luminaires per 100lx 36812.000 n*: 9.81 1/100m² 36811.000 12.18 1/100m² 37811.000 9.81 1/100m² 12.18 1/100m² 37810.000

190

143

Quintessence Downlight with LED and varychrome ring

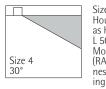
DALI PLUG+

PLAY









Housing: cast aluminium, designed As heat sink, with connection cable
L 500mm. Fixing frame: plastic, black.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral varychrome ring: plastic, white (RAL9010). Replaceable LED modwhite (RAL9010). Replaceable LED mod-ule, with connection cable, L 500mm. Including DALI control gear with plug and play connectivity for ERCO vary-chrome colour mixing. 4-pole terminal block. Through-wiring possible. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off Available from 3rd quarter 2010 Accessories page 610

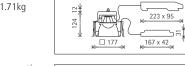
36838.000 Reflector silver LED daylight white DALI LÉD 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

36837.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

37827.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

37826.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

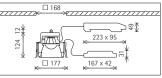
Covered mounting detail Weight 1.71kg LMF D

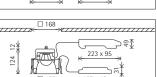


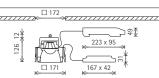
Covered mounting □ 168 detail Weight 1.71kg LMF D 223 x 95 124 177 167 x 42

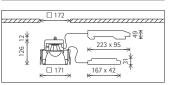
Flush mounting detail Weight 1.71kg LMF D 126

Flush mounting detail Weight 1.71kg LMF D











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LED

LED



LOR 0.60 UGR CO 17.7 UGR C90 17.9 1000 cd/m² 65° <

0.60

17.7

17.9

0.60

16.9

171

1000 cd/m²

1000 cd/m²

UGR CO

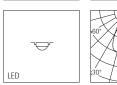
UGR C90

UGR CO

UGR C90

65° <

65° <





599

Number of luminaires per 100m ² for						Illuminance	Illuminance E _n (lx) for module (m)				
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36838.000	21 W	10	20	30	50	36838.000	21 W	467	311	233	175
36837.000	21 W	13	25	37	62	36837.000	21 W	376	251	188	141
37827.000	21 W	10	20	30	50	37827.000	21 W	467	311	233	175
37826.000	21 W	13	25	37	62	37826.000	21 W	376	251	188	141

Connected load		Connected load per	100lx	Number of lun	ninaires	per 100lx
36838.000 P:	25 W	36838.000 P*:	2.48 W/m ²	36838.000	n*:	9.92 1/100m ²
36837.000 P:	25 W	36837.000 P*:	3.08 W/m ²	36837.000	n*:	12.31 1/100m ²
37827.000 P:	25 W	37827.000 P*:	2.48 W/m ²	37827.000	n*:	9.92 1/100m ²
37826.000 P:	25 W	37826.000 P*:	3.08 W/m ²	37826.000	n*:	12.31 1/100m ²

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Quintessence Downlight with LED and varychrome ring













Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off Available from 3rd quarter 2010

mounting detail. Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Peripheral varychrome ring: plastic, white (RAL9010). Replaceable LED modwhite (RAL9010). Replaceable LED module, with connection cable, L 500mm. Including DALI control gear with plug and play connectivity for ERCO vary-chrome colour mixing. 4-pole terminal block. Through-wiring possible. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thick-Accessories page 610 nesses of 1-30mm with covered mounting detail and 12.5-25mm with flush 0.60 UGR CO 16.7 UGR C90 16.8

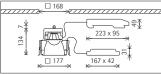
36814.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

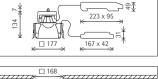
36813.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

37813.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

37812.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K LED 1.4W 24V DC Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.71kg LMF D



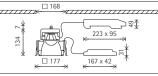




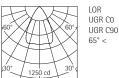


1000 cd/m² 65° <

Covered mounting detail Weight 1.71kg LMF D

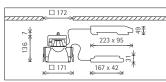






0.60 15.9 160 200 cd/m²

Flush mounting detail Weight 1.71kg LMF D



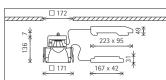




0.60 UGR CO 16.7 UGR C90 16.8 1000 cd/m² 65° <

Flush mounting detail Weight 1.71kg LMF D

37812.000





36814 000

36813.000

3.04 W/m²



37812.000

LOR 0.60 UGR CO 15.9 UGR C90 160 200 cd/m² 65° <

143

9.81 1/100m² 12.18 1/100m² 9.81 1/100m²

12.18 1/100m²

Number of luminaires per 100m ² for							
		100lx	200lx				
36814.000	21 W	10	20				
36813.000	21 W	13	25				

		100lx	200lx	300lx	500lx	
36814.000	21 W	10	20	30	49	
36813.000	21 W	13	25	37	61	
37813.000	21 W	10	20	30	49	
37812.000	21 W	13	25	37	61	

~ ~	600
LED	30° 125
Illuminance E _n (lx) for r	module (m)

21 W

21 W

30°	1250 cd	30°	
odule (i	m)		
2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
472	315	236	177
380	253	190	143
472	315	236	177

37813.000	2	1 W	10	20	30	49		37813.000	21 W	472	315	2	36	17
37812.000	2	1 W	13	25	37	61		37812.000	21 W	380	253	1	90	14
Connected lo	oad					Connected lo	oad per	100lx		Numb	er of lur	ninaires	per 10	00lx
36814.000	P:	25 W				36814.000	P*:	2.45 W/m ²		36814	.000	n*:	9.81	1/10
36813.000	P:	25 W				36813.000	P*:	3.04 W/m ²		36813	.000	n*:	12.18	1/10
27012 000	D.	2E W				27012.000	D*-	2 1 E W/m2		27012	000	n*.	0.01	1/10

37812.000







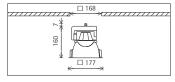
Housing: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 610

36737.000 Reflector silver LED day-LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩







UGR CO 17.8 LIGR C90 179 200 cd/m² 65° <

UGR CO

65° <

65° <

36736.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg IMF D 日本①

□ 168 □ 177





0.70 17.1 UGR C90 17.2 200 cd/m²

37737.000 Reflector silver LED day-LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩

□ 171

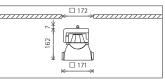


UGR CO 65° <

0.70 17.8 LIGR C90 179 200 cd/m²

37736.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩





0.70 UGR CO 17.1 UGR C90 17.2 200 cd/m²

Number of luminaires per 100m2 for 100lx 36737.000 28 W 36736.000 28 W

200lx 300lx 500lx 13 20 33 24 40 8 16 37737.000 28 W 20 13 33 37736.000 28 W 16 24 40

Illuminance En (Ix) for module (m) 1.2x1.8 36737.000 28 W 722 36736.000 28 W 582 37737.000 28 W 722 37736.000 388

2.4x2.4 1.8x1.8 1.8x2.4 481 361 271 388 291 218 481 361 271 218

Connected load without control gear 36737.000 28 W 36736,000 28 W 37737.000 28 W 37736.000 28 W

Connected load per 100b without control gear 36737.000 1.79 W/m² 2.23 W/m² 36736 000 37737.000 1.79 W/m² 37736.000 2.23 W/m² Number of luminaires per 100lx

36737.000 6.41 1/100m² 7.96 1/100m² 36736 000 6.41 1/100m² 37737.000 37736.000 7.96 1/100m²





DALI PLUG+

PLAY



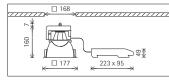
Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail. Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30° Available from 3rd quarter 2010 Accessories page 610

36840.000 Reflector silver LED daylight white DALI LÉD 28W 2160lm 5500K Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D



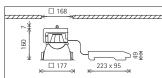




LOR 0.70 UGR CO 17.8 UGR C90 179 200 cd/m² 65° <

36839.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D





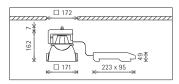


0.70 UGR CO UGR C90 172 200 cd/m² 65° <

37829.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D





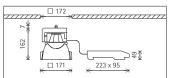


LIGR CO UGR C90 65° <

17.8 17.9 200 cd/m²

37828.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D





3683 3782 3782



LOR 0.70 UGR CO 17.1 UGR C90 17.2 65° < 200 cd/m²

Number	of	luminaires	per	100m ²	for
				001	_

		100lx	200lx	300lx	500lx
36840.000	28 W	7	13	20	33
36839.000	28 W	8	16	24	40
37829.000	28 W	7	13	20	33
37828.000	28 W	8	16	24	40

Illuminance	E_n (Ix) for	module	(m)
		1.2x1.8	1.83
36840.000	28 W	722	

marice L _n (ix) for module (iii)									
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4				
0.000	28 W	722	481	361	271				
9.000	28 W	582	388	291	218				
9.000	28 W	722	481	361	271				
8.000	28 W	582	388	291	218				



Connected load per 100lx 36840.000 2.05 W/m² 36839.000 2.55 W/m² 37829.000 2.05 W/m 37828.000 2.55 W/m

Number of luminaires per 100lx 36840.000 6.41 1/100m² 36839.000 n*: 7.96 1/100m² n*: 6.41 1/100m² 37829.000 37828.000 7.96 1/100m²







Housing cast aluminium designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm. Replaceable LED module: high-power

LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

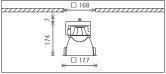
Darklight reflector: aluminium, satin-

matt anodised. Cut-off angle 40°. Control gear to be ordered separately.

Available from 2nd quarter 2010 Accessories page 610

36713.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩







UGR CO 15.8 UGR C90 159 200 cd/m² 65° <

36712.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.00kg 日本 ⑩

□ 168





0.71 152

200 cd/m²

37713.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩

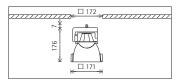




0.71 UGR CO UGR C90 15.9 200 cd/m² 65° <

37712.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩







LOR	0.71
UGR CO	15.1
UGR C90	15.2
65° <	200 cd/m

Number of luminaires per 100m² for

	cs p	c				
		100lx	200lx	300lx	500lx	
36713.000	28 W	7	13	19	31	
36712.000	28 W	8	16	24	39	
37713.000	28 W	7	13	19	31	
37712.000	28 W	8	16	24	39	

(m)	r module	E_n (lx) for	Illuminance	
1	1.2x1.8			
	748	28 W	36713.000	
	602	28 W	36712.000	
	748	28 W	37713.000	
	602	28 W	37712.000	

:30°	2000 cd	30°	05 <
dule (m)		
x1.8	1.8x1.8	1.8x2.4	2.4x2.4
748	498	374	280
602	402	301	226

280

Connected load without control gear 36713.000 36712.000

28 W 28 W 37713.000 28 W 37712.000 28 W

Connected load per 100lx without control gear 36713.000 36712.000 2.15 W/m² 37713.000 1.73 W/m²

1.73 W/m²

2.15 W/m

Number of luminaires per 100lx

374

498

36713.000	n*:	6.19 1/100m ²
36712.000	n*:	7.69 1/100m ²
37713.000	n*:	6.19 1/100m ²
37712 000	n*·	7 69 1/100m ²

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37712.000





DALI PLUG+

PLAY



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40° Available from 3rd quarter 2010 Accessories page 610

36816.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D

□ 168 ĮM. 174 223 x 95





UGR CO UGR C90 15.8 159 200 cd/m² 65° <

36815.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.65kg LMF D

□ 168 174 □ 177 223 x 95

 $rac{1}{2}$ LED



0.71 UGR CO 15.1 UGR C90 15.2 200 cd/m²

65° <

37815.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D

176 223 x 95



0.71 UGR CO 15.8 UGR C90 159 200 cd/m² 65° <

37814.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1 Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.65kg LMF D

176 □ 171 223 x 95

36816.000

36815.000

37815 000

37814.000



1.98 W/m²

2.46 W/m²

198 W/m²

2.46 W/m²



0.71 UGR CO 15.1 UGR C90 15.2 200 cd/m² 65° <

2.4x2.4

7.69 1/100m² 6 19 1/100m²

7.69 1/100m²

603

36816.000 36815.000 28 W 37815.000 28 W 37814.000 28 W Connected load 36816.000 32 W

36815.000

37815.000

37814.000

Number of luminaires per 100m2 for

28 W

32 W

32 W

32 W

100lx 200lx 300lx 500lx 13 19 31 39 8 16 24 19 31 13 16 24 39 Connected load per 100lx

Illuminance En (Ix) for module (m) 1.2x1.8 1.8x1.8 36816.000 28 W 748 36815.000 28 W 602 37815.000 28 W 748 37814.000 602

498 374 280 402 301 226 498 374 280 402 301 226 Number of luminaires per 100lx 36816.000 6.19 1/100m²

36815.000

37815 000

37814.000

1.8x2.4

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Quintessence Downlight 4-channel varychrome with LED

DALI PLUG+ PLAY









Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity for ERCO 4channel varychrome colour mixing. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Only use with Light Server 64+, from version 5, and the Light Studio software, from version 5.

Available from 3rd quarter 2010

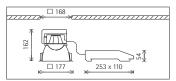
Accessories page 610

36801.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1 Colour compensation for precise light

colour.

Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.90kg LMF D







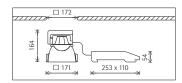
0.67 UGR CO 15.9 UGR C90 16.2 200 cd/m² 65° <

37800.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1

Colour compensation for precise light colour.

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.90kg LMF D





Illuminance E_n (lx) for module (m)



0.67 UGR CO 15.9 UGR C90 16.2 200 cd/m² 65° <

2.4x2.4

103

103

137

137

Number of luminaires per 100m² for

100lx 200lx 300lx 500lx 1.2x1.8 1.8x1.8 1.8x2.4 36801 000 36801 000 28 W 17 34 51 85 28 W 274 183 37800.000 28 W 37800.000 28 W 17 34 51 85 274 183

Connected load Connected load per 100lx Number of luminaires per 100lx 36801.000 32 W 36801.000 5.40 W/m² 36801.000 n*: 16.89 1/100m² P: 37800.000 37800.000 5.40 W/m² 37800.000 16.89 1/100m² 32 W

Quintessence Downlight 4-channel varychrome with LED

DALI PLUG+ PLAY







Housing: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity for ERCO 4channel varychrome colour mixing. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°. Only use with Light Server 64+, from version 5, and the Light Studio software, from version 5.

Available from 3rd quarter 2010

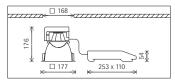
Accessories page 610

36802.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1 Colour compensation for precise light

colour.

Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.90kg LMF D







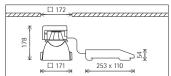
0.66 UGR CO 14.4 UGR C90 14.9 1000 cd/m² 55° <

37801.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm Version 1 Colour compensation for precise light

colour.

Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.90kg LMF D







0.66 UGR CO 14.4 UGR C90 14.9 1000 cd/m² 55° <

605

Number of luminaires per 100m ² for						Illuminance E _n (lx) for module (m)	
		100lx	200lx	300lx	500lx	1.2x1.8	.4
36802.000	28 W	17	34	51	84	36802.000 28 W 276 184 138 10 3	3
37801.000	28 W	17	34	51	84	37801.000 28 W 276 184 138 10 3	3

Connected load Connected load per 100lx 5.37 W/m² 36802.000 32 W 36802.000 37801.000 32 W 37801.000 5.37 W/m²

Number of luminaires per 100lx 36802.000 16.78 1/100m² 37801.000 16.78 1/100m²

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Quintessence Lens wallwasher with LED







Housing: cast aluminium, designed as heat sink.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thick-nesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

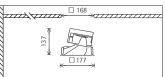
Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Wallwasher reflector: aluminium, satinmatt anodised. Cut-off angle 50°. Upper side with wallwasher lens.

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 611

36723.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1

Covered mounting detail Weight 1.00kg LMF D 日本 ⑩



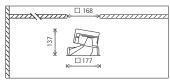


Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m) 0.90 1.20 1.20 1.50 Illuminance E_n (Ix)

36722.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Covered mounting detail Weight 1.00kg IMF D 日本①



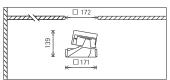


Mean illuminance E_n (Ix)

Wall height (m) 0.90 0.90 1.20 1.20 Offset from wall (m) 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance En (Ix)

37723.000 Reflector silver LED daylight white LÉD 28W 2160lm 5500K Version 1

Flush mounting detail Weight 1.00kg 日本 ⑩



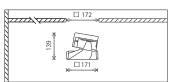


Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 258 197 167 135

37722.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Flush mounting detail Weight 1.00kg LMF D 日本 ⑩





Mean illuminance E_n (Ix)

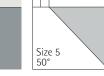
Wall height (m) 3.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance En (Ix)





DALI PLUG+

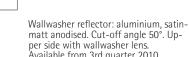
PLAY



Housing: cast aluminium, designed as heat sink, with connection cable 500mm.

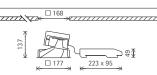
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail. Including DALI control gear with plug and play connectivity. Through-wiring possible. 5-pole terminal block.
Replaceable LED module: high-power
LEDs on metal-core PCB. Reflector for
mixing light: aluminium, silver, mirrorfinish anodised.





Covered mounting detail Weight 1.90kg LMF D

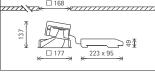




Available from 3rd quarter 2010 Accessories page 611

36825.000 Reflector silver LED warm

Covered mounting detail Weight 1.90kg





Mean illuminance En (Ix) Wall height (m) Offset from wall (m)

0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 258 197 167 135

white DALI LED 28W 1740lm 3200K Version 1

IMF D

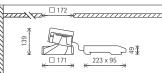
	ZZZZZZX □ 168 ************************************
223 x 95 ₩	



Mean illuminance En (Ix) 3.0 Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m) 0.90 1.20 1.20 1.50 208 159 135 109 Illuminance En (Ix)

37840.000 Reflector silver LED daylight white DALI LÉD 28W 2160lm 5500K Version 1

Flush mounting detail Weight 1.90kg IMF D

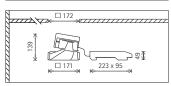




Mean illuminance E _n (lx)												
Wall height (m)	3.0											
Offset from wall (m)	0.90	0.90	1.20	1.20								
Luminaire spacing (m)	0.90	1.20	1.20	1.50								
IIIuminance E _n (Ix)	258	197	167	135								

37839.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Version 1

Flush mounting detail Weight 1.90kg IMF D





Mean illuminance E_n (lx)

Wall height (m) 3.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 208 159 135 109

Quintessence Lens wallwasher 4-channel varychrome with LED





PLUG+



Housing: cast aluminium, designed as heat sink, with connection cable L 500mm.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including DALI control gear with plug and play connectivity for ERCO 4channel varychrome colour mixing. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

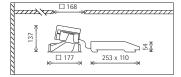
Wallwasher reflector: aluminium, satinmatt anodised. Cut-off angle 50°. Upper side with wallwasher lens. Only use with Light Server 64+, from version 5, and the Light Studio software, from version 5

Available from 3rd guarter 2010 Accessories page 611

36800.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm

Version 1 Colour compensation for precise light colour.

Covered mounting detail Weight 1.90kg LMF D





Mean illuminance E_n (Ix) 3.0 Wall height (m)

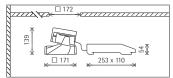
Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (lx) 128

37838.000 Reflector silver LED red, green, blue, warm white 4-channel DALI LED 28W 870lm

colour.

detail Weight 1.90kg Version 1 LMF D Colour compensation for precise light

Flush mounting





Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance En (Ix)

Quintessence Directional luminaire with LED







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°. Replaceable LED module: high-power LEDs on metal-core PCB.

Control gear to be ordered separately. Available from 2nd quarter 2010 Accessories page 611

36739.000 Reflector silver LED davlight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens,

plastic, clear. Spherolit lens, spot.

Covered mounting detail Weight 1.35kg LMF D 日本 ⑩

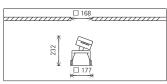
Covered mounting

Weight 1.35kg

detail

LMF D

日本 ⑩





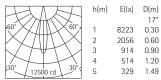
E(Ix) D(m) h(m) 10208 0.30 2 2552 0.60 3 1134 0.90 638 1.20 408 1.49

36738.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.



LED



E(Ix) D(m)

10208 0.30

2552 0.60

1134 0.90

638 1.20

408 1 49

E(Ix) D(m)

8223 0.30

2056 0.60

914 0.90

329 1.49

3608 0.50

902 1.00

h(m) E(Ix) D(m)

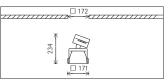
2

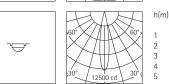
1.20

607

37739.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.

Flush mounting detail Weight 1.35kg IMF D 日本 ⑩

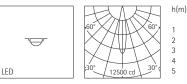




37738.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Lens system, spot: collimating lens,

plastic, clear. Spherolit lens, spot.

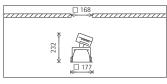
Flush mounting detail Weight 1.35kg IMF D 日本 ⑩

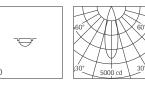


36741.000 Reflector silver LED daylight white LÉD 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens,

plastic, clear. Spherolit lens, flood.

Covered mounting detail Weight 1.35kg IMF D 日本 ⑩





3 401 1.50 226 1.99 LED 144 2.49

Quintessence Direction	al luminaire	with LED		
36740.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 1.35kg LMF D 日本 ⊕	2168 2177	LED	60° 1 2907 0.50 2 727 1.00 3 323 1.50 4 182 1.99 5000 cd 30° 5 116 2.49
37741.000 Reflector silver LED day- light white LED 21W 1620Im 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Flush mounting detail Weight 1.35kg LMF D 日本 ��	2177 4 ES 1771 1172	LED	h(m) E(lx) D(m) 28° 28° 1 3608 0.50 2 902 1.00 3 401 1.50 4 226 1.99 5000 cd 30° 5 144 2.49
37740.000 Reflector silver LED warm white LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Flush mounting detail Weight 1.35kg LMF D 日本 ⊕	2172 2172 2172 2172	LED	60° 1 2907 0.50 2 727 1.00 3 3 323 1.50 30° 5000 cd 30° 5 116 2.49
	DALI PLUG+ PLAY	Size 5 40° Lampholder carrier designed as heat sition cable L 500mr rotation. Lockable rotation. Mounting frame: p (RAL9002). Mountinesses of 1-30mm ing detail and 12.5 mounting detail. Including DALI con	nk, with connec- n. 0°-20° tilt, 360° angles of tilt and lastic, white ng for ceiling thick- with covered mount- -25mm with flush trol gear with plug ity. Through-wiring	Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°. Replaceable LED module: high-power LEDs on metal-core PCB. Available from 3rd quarter 2010 Accessories page 611
36842.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Covered mounting detail Weight 2.00kg LMF D	2 168 2 168 2 223 × 95 2 4 4	LED	h(m) E(x) D(m) 17° 1 10208 0.30 2 2552 0.60 3 1134 0.90 4 638 1.20 5 408 1.49
36841.000 Reflector silver LED warm white DALI LED 21W 1305Im 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Covered mounting detail Weight 2.00kg LMF D	223 × 95	LED	h(m) E(lx) D(m) 17° 17° 2 2056 0.60 3 914 0.90 4 514 1.20 30° 12500 cd 30° 5 329 1.49
37842.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Flush mounting detail Weight 2.00kg LMF D	1772 1772 1771 1771 1771 1771 1772 1772	LED	h(m) E(lx) D(m) 17° 1 10208 0.30 2 2552 0.60 3 1134 0.90 4 638 1.20 5 408 1.49
37841.000 Reflector silver LED warm white DALI LED 21W 1305Im 3200K Version 1 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot.	Flush mounting detail Weight 2.00kg LMF D	1772 1772 1772 1771 1771 1771 1772 1772 1772 1772 1773 1772	LED	h(m) E(lx) D(m) 17° 17° 2 2056 0.60 3 914 0.90 4 514 1.20 30° 12500 cd 30° 5 329 1.49
36844.000 Reflector silver LED daylight white DALI LED 21W 1620Im 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 2.00kg LMF D	2 168 2 223 × 95	LED	h(m) E(lx) D(m) 28° 1 3608 0.50 2 902 1.00 3 401 1.50 4 226 1.99 5 144 2.49
36843.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.	Covered mounting detail Weight 2.00kg LMF D	168 E2 177 223 x 95	LED	60° 1 2907 0.50 2 727 1.00 3 323 1.50 4 182 1.99 5000 cd 30° 5 116 2.49

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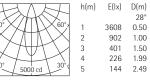
Quintessence Directional luminaire with LED

37844.000 Reflector silver LED daylight white DALI LED 21W 1620lm 5500K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Flush mounting detail Weight 2.00kg LMF D

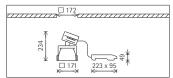
□ 172 ///////× 223 x 95





37843.000 Reflector silver LED warm white DALI LED 21W 1305lm 3200K Version 1 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood.

Flush mounting detail Weight 2.00kg LMF D





HAM	h(m)	E(Ix)	D(m)
$\times /////\times 1$			28°
60° X	1	2907	0.50
\nearrow /\ $\$ /\	2	727	1.00
VTYTV	3	323	1.50
	4	182	1.99
30° 5000 cd 30° (5	116	2.49

609

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Quintessence square Accessories

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owninging		83	89 / 83	8	8) / 43		8) 83	8	9	g)\\ ⁶ 5	36 \ 38	$g_{0} \setminus g_{0}$	y \ 4300
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	36701.000	•		•		•			•			•	•
	36702.000	•		•		•			•			•	•
	36703.000	•		•		•			•			•	•
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	37702.000 37703.000	•		•		•			•				
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	37809.000										•		
	37822.000										•		
	37823.000	1									•		

Quintessence square Accessories

Lens wallwashers		63%	997.100	831.00	93,000	98,000	9 ⁴ ,000	935 July 935	8391000	376,000	928 ing 832	³ 69.jqQ	⁸³⁸	39,00
	36722.000			•	•			•	•			•	•	
	36723.000			•	•			•	•			•	•	
	36800.000											•	•	
	36825.000											•	•	
	36826.000											•	•	
	37722.000			•	•			•	•					
	37723.000			•	•			•	•					

Directional lumin	aires	935	ig 2,000	ig1,000	633.00	95,000	94.00 93 ³	95.00 935	835	16,00	989.00 835	369,000	350,000	99,00
	36738.000		•	•			•		•			•	•	
	36739.000		•	•			•		•			•	•	
	36740.000		•	•			•		•			•	•	
	36741.000		•	•			•		•			•	•	
	36841.000											•	•	
	36842.000											•	•	
	36843.000											•	•	
	36844.000											•	•	
	37738.000		•	•			•		•					
	37739.000		•	•			•		•					
	37740.000		•	•			•		•					
	37741.000		•	•			•		•					

















83692.000 Control gear

220-240V, 50-60Hz. 700mA, 17W, switchable. Max. ambient temperature

Secondary voltage 2-25V.
Installation also in furniture.
Plastic housing. Primary and secondary cable clamps and terminal blocks.
Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010 Weight 0.08kg

83691.000 Control gear

220-240V, 50-60Hz. 700mA, 25W, switchable. Max. ambient temperature

Secondary voltage 3-30V.
Housing: metal, black, powder-coated.
5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010 Weight 0.52kg

83693.000

Installation unit, dimmable

for LED 220-240V, 50-60Hz. 700mA, max. 36W. Max. ambient temperature of 50°C. Secondary voltage up to 48V. Housing: metal, black, powder-coated.
5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Use dimmer in trailing edge technology. Available from 2nd quarter 2010 Weight 0.52kg 83696.000 Control gear

220-240V, 50-60Hz. 700mA, 36W, switchable. Max. ambient temperature

Secondary voltage 8-48V.
Housing: metal, black, powder-coated.
5-pole terminal block. Through-wiring possible. Short-circuit protection: electronic overload protection. Available from 2nd quarter 2010 Weight 0.52kg



83694.000

DALI control gear

220-240V, 50-60Hz. 700mA, 17W. Max.

Secondary voltage 2-25V. Housing: metal, black, powder-coated. 5-pole terminal block. Through-wir-

ing possible. Short-circuit protection:

ambient temperature of 50°C.

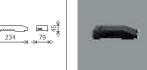
electronic overload protection.

Available from 2nd quarter 2010 Weight 0.56kg

DALI

for LFD



















83816.000 DALI DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg



Mounting frame, 2x

and recessed spotlights. Weight 0.30kg

Plastic, white (RAL9002). Mounting

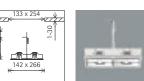
without tools for ceiling thicknesses up to 30mm. Covered mounting detail.

Recess depth: 260mm for directional

luminaires and 220mm for downlights

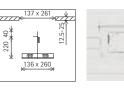
83968.000



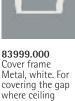


83969.000









Mounting frame, 2x Plastic, white (RAL9002). Mounting for ceiling thicknesses of 12.5-25mm. Flush mounting detail. Recess depth: 260mm for directional luminaires and 220mm for downlights and recessed spotlights. Weight 0.30kg

82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.

Cover frame Metal, white. For covering the gap where ceiling cut-outs are too big. Please state internal and external dimensions when ordering.

Quintessence square for low-voltage halogen lamps



The system design of Quintessence provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. A special feature of the Quintessence range is the many options available for the installation detail. All luminaires are available with a covered or flush mounting detail. There are three options available for the luminaire edge: direct transition from ceiling to luminaire, shadow gap or even a varychrome ring illuminated in any required colour. Simple mounting makes for a highly economical installation.

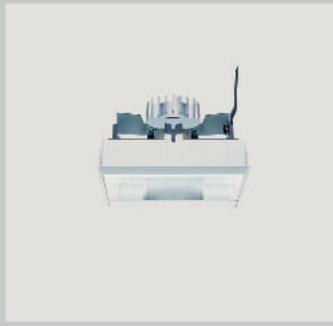
The range for low-voltage halogen lamps with square recessed ceiling luminaires includes double-focus downlights, downlights, lens wallwashers and directional luminaires. Low-voltage halogen lamps produce brilliant light, while their continuous spectrum results in excellent colour rendition. Dimming the light causes the light spectrum to shift towards the range of longer wavelengths. The halogens in the gas filling of the glass bulb increase the performance of the lamp and improve its service life.

The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Quintessence is a comprehensive range of various wallwashers, downlights and directional luminaires with the superior light quality of lowvoltage halogen lamps.

613

Quintessence square for low-voltage halogen lamps



The square Quintessence recessed ceiling luminaires for low-voltage halogen lamps are available in versions with different light distributions, cut-off angles, reflector sizes, luminaire edges and installation details. The spectrum of light distributions includes double-focus downlights, downlights, lens wallwashers and directional luminaires. Depending on the requirements as to visual comfort and recess depth, Quintessence includes cut-off angles of 30° or 40°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The two different mounting frames can be used either as a covered or a flush mounting detail. There are three options available for the luminaire edge: the conventional joint between ceiling and luminaire edge, shadow gap and varychrome All Quintessence luminaires have are designed to provide optimum thermal properties according to their particular technical requirements. The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The aluminium reflector is mirror-finish silver anodised. The transfomers required are available as accessories. The separate mounting frame supplied allows efficient installation on the construction

Double-focus downlights



The lighting technology with double focus allows for a minimal light aperture. The double-focus downlights thus are available in size 2 with a cut-off angle of 40° for low-voltage halogen lamps up to 90W.

aluminium cooler housings which

Application Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 3 to 5 with a cut-off angle of 30° or 40° for 100W lowvoltage halogen lamps. Lighting options for downlights include versions with wide diffuser for wide beam light distribution, with focal diffuser for increased brilliance in the centre, and with narrow diffuser for narrow to medium wide light distribution.

Application Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas

Lens wallwashers



The lens wallwasher produces uniform light distribution over the whole wall. The range of lens wallwashers comprises luminaires in size 5 for low-voltage halogen lamps up to 50W.

Application Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Directional luminaires

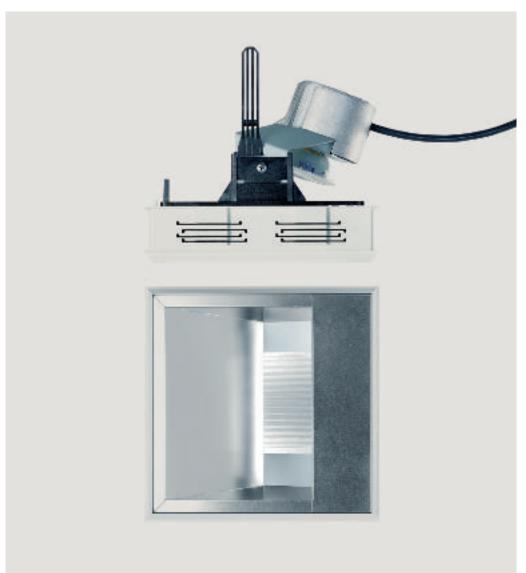


The Quintessence directional luminaires are available with spot or flood Spherolit reflector. The luminaires above the darklight re-flector with a cut-off angle of up to 40° can be tilted up to 20° and rotated through 360°. The range comprises luminaires in sizes 3 to 5 for low-voltage halogen lamps up to 100W.

Application

Rotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Application areas include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Quintessence square for low-voltage halogen lamps



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range allows many different versions to be produced by combin-ing the mounting detail and the luminaire edge. The incorporation of digitally controllable DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mounting rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Double-focus downlight Downlight



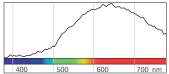
Lens wallwasher



Directional luminaire







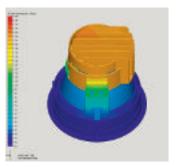
Colour temperature and colour rendition

The light from low-voltage halogen lamps produces a continuous spectrum. These lamps are ideal for lighting tasks where optimum colour rendition is required, such as museums.



Heat management Good heat

Good heat management in the luminaire is crucial for continuous operation, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and material of the housing that all contribute to optimal heat management. Extensive simu-



lations and tests during the development phase ensure the success of all the products in the



615

The contact surfaces between the lampholder and the luminaire housing combined with the thermally conductive metal plate on the lamp cap efficiently conduct the heat of the low-voltage halogen lamp, channelling it away to the housing.

Quintessence Double-focus downlight for low-voltage halogen lamps







Size 4 Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame:

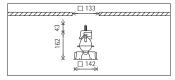
plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm. Ellipsoidal reflector: aluminium, bright anodised. Diffuser: glass, frosted. Darklight reflector: aluminium, satinmatt anodised. Reflector size 2, cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36029.000 Reflector silver QT12-ax 90W 12V GY6.35 1800lm

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩ 卿



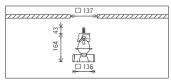




LOR UGR CO 19.5 LIGR C90 195 1000 cd/m² 65° <

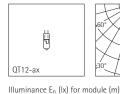
37029.000 Reflector silver QT12-ax 90W 12V GY6.35 1800lm

Flush mounting detail Weight 0.60kg IMF D 日本命命



300lx

500lx





1.8x1.8

0.51 UGR CO 19.5 UGR C90 19.5 1000 cd/m² 65° <

Number of I	uminaires pe	r 100m²	tor
		100lx	200lx
36029.000	90 W	11	21
27020 000	00 111	11	2.1

31 52 52 31 37029.000 Connected load Connected load per 100lx

36029 000 90 W 451 301 37029.000 451 301

1.2x1.8

Number of luminaires per 100lx

without control gear 90 W 36029.000 37029.000

without control gear 36029.000 P*: 9.23 W/m² 37029.000 P*: 9.23 W/m²

36029.000 10.25 1/100m² 37029.000 10.25 1/100m²

1.8x2.4

226

226

2.4x2.4

169

169





DALI

PLUG+ PLAY



Size 4 Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic,

black

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

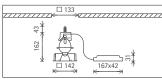
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Ellipsoidal reflector: aluminium, bright anodised. Diffuser: glass, frosted.

Darklight reflector: aluminium, satinmatt anodised. Reflector size 2, cut-off

Accessories page 633

36229.000 Reflector silver DALI QT12-ax 90W 12V GY6.35 1800lm

Covered mounting detail Weight 0.78kg LMF D 口魚



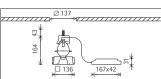




0.51 UGR CO UGR C90 19.5 1000 cd/m² 65° <

37229.000 Reflector silver DALI QT12-ax 90W 12V GY6.35 1800lm

Flush mounting detail Weight 0.78kg LMF D





Illuminance E_n (lx) for module (m)



0.51 UGR CO 19.5 UGR C90 195 1000 cd/m² 65° <

Number	of	luminaires	per	100m ²	for

		100lx	200lx	300lx	500lx	
36229.000	90 W	11	21	31	52	
37229.000	90 W	11	21	31	52	

36229.000	90 W
37229.000	90 W
llx	

1.2x1.8 451 301 226 169 451 301 226 169 Number of luminaires per 100lx

10.25 1/100m²

10.25 1/100m²

36229.000

37229.000

Connected load 36229,000 95 W 37229.000 95 W

Connected load per 100 36229 000 9.74 W/m² 37229.000 9.74 W/m²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

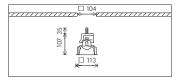
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36001.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿







0.51 UGR CO UGR C90 22.2 222 200 cd/m²

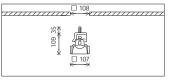
65° <

UGR CO

65° <

37001.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿



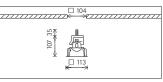




0.51 22.2 UGR C90 22.2 200 cd/m²

36000.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.53kg LMF D 日本⑩爲



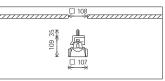




0.57 UGR CO 21.4 UGR C90 213 200 cd/m² 65° <

37000.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿





0.57 UGR CO 21.4 UGR C90 21.3 200 cd/m² 65° <

617

37001.000 50 W 36000.000 50 W 37000.000 50 W Connected load

50 W

36001.000

Number of luminaires per 100m2 for 100lx 200lx 300lx 500lx 16 31 47 78 78 16 31 47 28 69 14 14 28 41 69 Illuminance En (lx) for module (m) 1.2x1.8 1.8x1.8 36001.000 50 W 299 200 37001.000 50 W 299 200 36000.000 50 W 226 339 37000.000 50 W

1.8x2.4 2.4x2.4 150 112 150 112 169 127 339 226 169 127

without control gear 36001.000 50 W p. 37001 000 50 W 36000.000 50 W 37000.000 50 W

Connected load per 100b without control gear 36001.000 7.73 W/m² 7.73 W/m² 37001 000 36000.000 6.83 W/m² 37000.000 6.83 W/m² Number of luminaires per 100lx

36001.000	n*:	15.46 1/100m ²
37001.000	n*:	15.46 1/100m ²
36000.000	n*:	13.66 1/100m ²
37000.000	n*:	13.66 1/100m ²





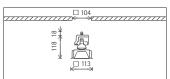


Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

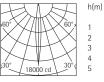
Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36002.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Covered mounting detail Weight 0.40kg LMF D 日本 ⑩ 卿







E(Ix)D(m) 15000 0.17 3750 0.35 1667 0.52 937 0.70 600 0.87 E(Ix) D(m)

> 1430 1.15 357 2.31

> > 89 4.62

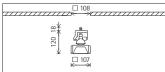
57 5.77

h(m)



37002.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Flush mounting detail Weight 0.40kg 日本⑩爲





QR-CBC51-RE









E(Ix) D(m) h(m) 60° 1430 1.15 357 2.31 159 3.46 89 4.62 57 5.77

Quintessence Downlight with shadow gap for low-voltage halogen lamps







Size 4 Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

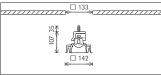
Darklight reflector: aluminium, satin-

matt anodised. Reflector size 3. cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36004.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.56kg IMF D 日本命命







LOR 0.51 UGR CO 22.2 UGR C90 222 200 cd/m² 65° <

37004.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.53kg LMF D 日本⑩ 爲

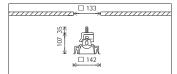
□ 136



LOR 0.51 UGR CO 22.2 UGR C90 222 200 cd/m² 65° <

Quintessence Downlight with shadow gap for low-voltage halogen lamps

36003.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.66kg LMF D 日本 ⑩ இ







UGR CO

UGR C90

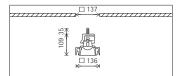
127

65° <

0.57 21.4 21.3 200 cd/m²

37003.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.53kg LMF D 日本 ⑩ 爵







0.57 21.4 21.3 200 cd/m²

D(m)

10°

0.17

0.35

0.52

0.70

0.87

D(m) 60°

1 15

2.31

3.46

4.62

5.77

D(m)

10°

0.17

0.35

0.52

0.70

0.87

619

Number of luminaires per 100m² for

		100lx	200lx	300lx	500lx		
36004.000	50 W	16	31	47	78	36004.000	50 W
37004.000	50 W	16	31	47	78	37004.000	50 W
36003.000	50 W	14	28	41	69	36003.000	50 W
37003.000	50 W	14	28	41	69	37003.000	50 W

Hluminance E_n (lx) for module (m)

1.2x1.8 1.8x1.8 1

36004.000 50 W 299 200

37004.000 50 W 299 200

339

339

8x1.8 1.8x2.4 2.4x2.4 200 150 112 200 150 112 226 169 127

169

Connected load
without control gear
36004.000 P: 50 W
37004.000 P: 50 W
36003.000 P: 50 W
37003.000 P: 50 W

Connected load per 100lx without control gear 36004.000 P*: 7.73 W/m² 37004.000 P*: 7.73 W/m² 37003.000 P*: 6.83 W/m² 37003.000 P*: 6.83 W/m²

Number of luminaires per 100lx

226

36004.000 n*: 15.46 1/100m² 37004.000 n*: 15.46 1/100m² 36003.000 n*: 13.66 1/100m² 37003.000 n*: 13.66 1/100m²







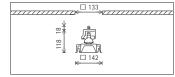
Size 4
Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.
Mounting frame: plastic, white

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

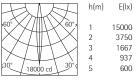
Cable, L 500mm.

Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, satinmatt anodised. Reflector size 3, cut-off angle 30°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

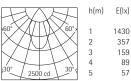
36005.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60° Covered mounting detail Weight 0.51kg LMF D 日本 ⑩ 衛





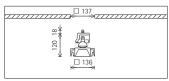




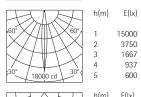


37005.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

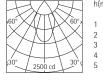
Flush mounting detail Weight 0.51kg LMF D 日本 ⑩ 爲











h(m) E(lx) D(m) 60° 1 1430 1.15 2 357 2.31 3 159 3.46 4 89 4.62 5 57 5.77







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

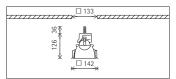
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36012.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本⑩爲







LOR UGR CO LIGR C90 65° <

UGR CO

65° <

20.9 212 200 cd/m²

37012.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本 ⑩ 卿

□ 137 128 □ 136





0.55 20.9 UGR C90 21.2 200 cd/m²

36023.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.45kg 日本⑩爲

126 142





0.55 UGR CO 19.8 LIGR C90 20.0 200 cd/m² 65° <

37023.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.45kg LMF D 日本⑩魚

_□ 137

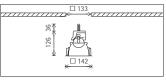




0.55 UGR CO 19.8 UGR C90 20.0 200 cd/m² 65° <

36011.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.45kg LMF D 日本⑩卿



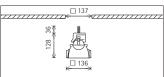




0.59 UGR CO 20.3 UGR C90 20.6 200 cd/m² 65° <

37011.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.45kg LMF D 日本⑩爲







0.59 UGR CO 20.3 LIGR C90 20.6 200 cd/m² 65° <

8.05 1/100m² 8.05 1/100m²

7.96 1/100m²

7.96 1/100m²

7.44 1/100m²

7.44 1/100m²

Number of Iu	ıminaires pe	er 100m²	for			Illuminance	E _n (lx) for	module (m)		
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36012.000	100 W	9	17	25	41	36012.000	100 W	575	383	287	216
37012.000	100 W	9	17	25	41	37012.000	100 W	575	383	287	216
36023.000	100 W	8	16	24	40	36023.000	100 W	582	388	291	218
37023.000	100 W	8	16	24	40	37023.000	100 W	582	388	291	218
36011.000	100 W	8	15	23	38	36011.000	100 W	622	415	311	233
37011.000	100 W	8	15	23	38	37011.000	100 W	622	415	311	233

Connected load		Connected Io	ad per	100lx	Number of lur	ninaires	per 100lx
without control	gear	without cont	rol gea	ır			
36012.000 P:	100 W	36012.000	P*:	8.05 W/m ²	36012.000	n*:	8.05 1/10
37012.000 P:	100 W	37012.000	P*:	8.05 W/m ²	37012.000	n*:	8.05 1/10
36023.000 P:	100 W	36023.000	P*:	7.96 W/m ²	36023.000	n*:	7.96 1/10
37023.000 P:	100 W	37023.000	P*:	7.96 W/m ²	37023.000	n*:	7.96 1/10
36011.000 P:	100 W	36011.000	P*:	7.44 W/m ²	36011.000	n*:	7.44 1/10
37011.000 P:	100 W	37011.000	P*:	7.44 W/m ²	37011.000	n*:	7.44 1/10







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

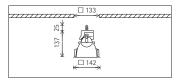
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36014.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本⑩爲







UGR CO UGR C90 18.5 184 200 cd/m²

65° <

UGR CO

UGR C90

UGR CO

65° <

LOR

65° <

LOR

65° <

65° <

37014.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本 ⑩ 卿

□ 136





0.54 18.5 18.4 200 cd/m²

36024.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.55kg LMF D 日本⑩爲

133 142





0.56 17.3 UGR C90 173 200 cd/m²

37024.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.55kg LMF D 日本 ⑩ 爲

□ 136



0.56 UGR CO 17.3 UGR C90 17.3 200 cd/m²

36013.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本 ⑩ 卿

□ 142

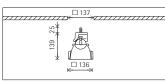




0.60 UGR CO 17.8 UGR C90 177 200 cd/m²

37013.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本⑩爲







0.60 UGR CO 17.8 LIGR C90 177 200 cd/m² 65° <

Number	of	luminaires	per	100m ²	fo

Number of luminaires per 100m ² for						Illuminance	E _n (lx) fo	r module (m)		
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36014.000	75 W	12	23	34	57	36014.000	75 W	409	273	205	154
37014.000	75 W	12	23	34	57	37014.000	75 W	409	273	205	154
36024.000	75 W	11	22	33	55	36024.000	75 W	425	283	212	159
37024.000	75 W	11	22	33	55	37024.000	75 W	425	283	212	159
36013.000	75 W	11	21	31	52	36013.000	75 W	452	301	226	170
37013.000	75 W	11	21	31	52	37013.000	75 W	452	301	226	170

Connected lo	ad		
without cont	rol gea	ır	
36014.000	P:	75 W	
37014.000	P:	75 W	
36024.000	P:	75 W	
37024.000	P:	75 W	
36013.000	P:	75 W	
37013.000	P:	75 W	

Connected lo	oad per	100lx
without conf	trol gea	ır
36014.000	P*:	8.48 W/m ²
37014.000	P*:	8.48 W/m ²
36024.000	P*:	8.17 W/m ²
37024.000	P*:	8.17 W/m ²
36013.000	P*:	7.68 W/m ²
37013.000	P*:	7.68 W/m ²

Number of luminaires per 100lx					
36014.000	n*:	11.31 1/100m ²			
37014.000	n*:	11.31 1/100m ²			
36024.000	n*:	10.90 1/100m ²			
37024.000	n*·	10.90 1/100m ²			

10.24 1/100m²

10.24 1/100m²

621

36013.000

37013.000

Quintessence Downlight with shadow gap for low-voltage halogen lamps







Size 5 Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame:

plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

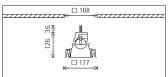
Darklight reflector: aluminium, satin-

matt anodised. Reflector size 4, cut-off

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36016.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.59kg LMF D 日本⑩爲







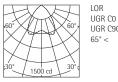
LOR UGR CO 20.9 LIGR C90 212 200 cd/m² 65° <

37016.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.59kg LMF D 日本 ⑩ 卿

128 □ 171





0.55 20.9 UGR C90 21.2 200 cd/m²

36025.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.59kg 日本⑩爲

□ 168 126



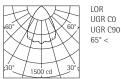


0.55 UGR CO 19.8 LIGR C90 20.0 200 cd/m² 65° <

37025.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.59kg LMF D 日本⑩魚

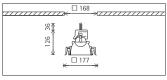




0.55 19.8 20.0 200 cd/m²

36015.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.59kg LMF D 日本⑩卿







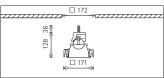
0.59 UGR CO 20.3 UGR C90 20.6 200 cd/m²

LOR

65° <

37015.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.59kg 日本⑩爲







0.59 UGR CO 20.3 LIGR C90 20.6 200 cd/m² 65° <

Number of luminaires per 100m ² for	or
--	----

		100lx	200lx	300lx	500lx	
36016.000	100 W	9	17	25	41	
37016.000	100 W	9	17	25	41	
36025.000	100 W	8	16	24	40	
37025.000	100 W	8	16	24	40	
36015.000	100 W	8	15	23	38	
37015.000	100 W	8	15	23	38	

Illuminance	E _n (lx) for i	module (m))
		1.2x1.8	1.
36016.000	100 W	575	

mammamee	-n (ix) ioi	module (m	,		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36016.000	100 W	575	383	287	216
37016.000	100 W	575	383	287	216
36025.000	100 W	582	388	291	218
37025.000	100 W	582	388	291	218
36015.000	100 W	622	415	311	233
37015.000	100 W	622	415	311	233

37015.000

Connected lo	oad	
without conf	trol gea	ar
36016.000	P:	100 W
37016.000	P:	100 W
36025.000	P:	100 W
37025.000	P:	100 W
36015.000	P:	100 W
37015.000	P:	100 W

Connected	load per	100lx
without cor	ntrol gear	
36016.000	P*:	8.05 W/m ²
37016.000	P*:	8.05 W/m ²
36025.000	P*:	7.96 W/m ²
37025.000	P*:	7.96 W/m ²
36015.000	P*:	7.44 W/m ²
37015.000	P*:	7.44 W/m ²

36016.000	n*:	8.05 1/100m ²
37016.000	n*:	8.05 1/100m ²
36025.000	n*:	7.96 1/100m ²
37025.000	n*:	7.96 1/100m ²
20015.000	n*.	7 44 1/100m2

7.44 1/100m²

Number of luminaires per 100lx

Quintessence Downlight with shadow gap for low-voltage halogen lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame:

plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

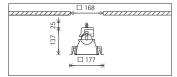
Darklight reflector: aluminium, satin-

matt anodised. Reflector size 4, cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36018.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.69kg LMF D 日本 ⑩ 卿







UGR CO 18.5 LIGR C90 184 200 cd/m² 65° <

UGR CO

UGR C90

65° <

65° <

LOR

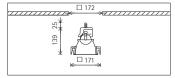
65° <

LOR

65° <

37018.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.69kg LMF D 日本 ⑩ ட



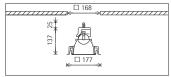




0.54 18.5 18.4 200 cd/m²

36026.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.69kg LMF D 日本⑩爲



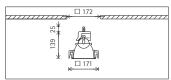




0.56 UGR CO 17.3 UGR C90 173 200 cd/m²

37026.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.69kg LMF D 日本 ⑩ 孫



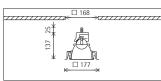




0.56 UGR CO 17.3 UGR C90 17.3 200 cd/m²

36017.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.69kg LMF D 日本 ⑩ ட



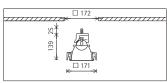




0.60 UGR CO 17.8 UGR C90 177 200 cd/m²

37017.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.69kg LMF D 日本⑩卿





75 W

75 W

75 W

75 W

75 W

75 W

425

452

452

60° × / / \ × 60° ;
\times \times \times
$Y \times I \setminus X \times Y$
30° 1000 cd 30°
1000 ca

283

301

301

LOR 0.60 UGR CO 17.8 LIGR C90 177 200 cd/m² 65° <

Number o	of luminaires	per	100m ²	for
			1001	-

		100lx	200lx	300lx	500lx	
36018.000	75 W	12	23	34	57	
37018.000	75 W	12	23	34	57	
36026.000	75 W	11	22	33	55	
37026.000	75 W	11	22	33	55	
36017.000	75 W	11	21	31	52	
37017.000	75 W	11	21	31	52	

QT1	12-ax	
Illum	ninance E _n (lx) for m	00

36018.000

37018.000

36026.000

37026.000

36017.000

37017.000

30°	1000 cd	30°	
module (ı	m)		
1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
409	273	205	154
409	273	205	154
425	283	212	159

212

226

226

159

170

170

Connected load				
without cont	rol gea	ır		
36018.000	P:	75 W		
37018.000	P:	75 W		
36026.000	P:	75 W		
37026.000	P:	75 W		
36017.000	P:	75 W		
37017.000	P:	75 W		

Connected	l load per	100Ix
without co	ontrol gea	r
36018.000) P*:	8.48 W/m ²
37018.000) P*:	8.48 W/m ²
36026.000) P*:	8.17 W/m ²
37026.000) P*:	8.17 W/m ²
36017.000) P*:	7.68 W/m ²
37017.000) P*:	7.68 W/m ²

Number of to	iiiiiiaii C	s per roorx
36018.000	n*:	11.31 1/100m ²
37018.000	n*:	11.31 1/100m ²
36026.000	n*:	10.90 1/100m ²
37026.000	n*:	10.90 1/100m ²
36017.000	n*:	10.24 1/100m ²
37017.000	n*:	10.24 1/100m ²

Number of luminaires per 100ly

Quintessence Downlight with varychrome ring for low-voltage halogen lamps





DALI PLUG+ PLAY



Size 5 Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

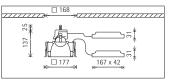
Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Peripheral varychrome ring: plastic, white (RAL9010). Revisable LED module, with connection cable, L 500mm. Including DALI control gear with plug and play connectivity for ERCO varychrome colóur mixing. 4-pole terminal block. Through-wiring possible. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, satinmatt anodised. Reflector size 4, cut-off angle 40°

Accessories page 633

36022.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Wide diffuser: glass, frosted.

Covered mounting detail Weight 1.45kg IMF D 日本 ⑩ 卿







0.54 UGR CO 18.5 UGR C90 18.4 200 cd/m² 65° <

37022.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.45kg LMF D 日本⑩爲

139 167 x 42





0.54 UGR CO 18.5 LIGR C90 184 200 cd/m² 65° <

36028.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 1.45kg LMF D 日本 ⑩ 卿

□ 168 137 167 x 42





LOR 0.56 UGR CO 17.3 UGR C90 17.3 200 cd/m² 65° <

LOR

65° <

37028.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 1.45kg LMF D 日本 ⑩ 卿

139 □ 171 167 x 42





0.56 UGR CO 17.3 UGR C90 173 200 cd/m²

36021.000 Reflector silver DALI QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Narrow diffuser: glass, frosted.

Covered mounting detail Weight 1.45kg 日本⑩爲

□ 168 137 167 x 42

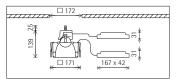




0.60 UGR CO 17.8 LIGR C90 177 200 cd/m² 65° <

37021.000 Reflector silver DALL QT12-ax 75W 12V GY6.35 1575lm LED 1.4W 24V DC red, green, blue Narrow diffuser: glass, frosted.

Flush mounting detail Weight 1.45kg LMF D 日本命命







301

0.60 UGR CO 17.8 UGR C90 17.7 200 cd/m² 65° <

Number	of	luminaires	per	$100 m^{2}$	fo

		100lx	200lx	300lx	500lx
36022.000	75 W	12	23	34	57
37022.000	75 W	12	23	34	57
36028.000	75 W	11	22	33	55
37028.000	75 W	11	22	33	55
36021.000	75 W	11	21	31	52
37021.000	75 W	11	21	31	52

409	75 W	36022.000
409	75 W	37022.000
425	75 W	36028.000
425	75 W	37028.000
452	75 W	36021.000
452	75 W	37021.000

Illuminance En (Ix) for mod

1000 cd				
dule (i	m)			
<1.8	1.8x1.8	1.8x2.4	2.4x2.4	
109	273	205	154	
109	273	205	154	
125	283	212	159	
125	283	212	159	
152	301	226	170	

226

170

Connected I	oad	
36022.000	P:	79 W
37022.000	P:	79 W
36028.000	P:	79 W
37028.000	P:	79 W
36021.000	P:	79 W
37021.000	P:	79 W

Connected	load per	100lx
36022.000	P*:	8.93 W/m ²
37022.000	P*:	8.93 W/m ²
36028.000	P*:	8.61 W/m ²
37028.000	P*:	8.61 W/m ²
36021.000	P*:	8.09 W/m ²
37021.000	P*:	8.09 W/m ²

Number of	luminaires	per 10	0lx
36022.000	n*:		1/100m ²
37022.000	n*:		1/100m ²
36028.000	n*:	10.90	1/100m ²
37028.000	n*:		1/100m ²
36021.000	n*:	10.24	1/100m ²
37021.000	n*:	10.24	1/100m ²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

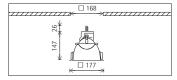
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36039.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 卿







0.64 UGR CO 19.4 LIGR C90 195 200 cd/m² 65° <

UGR CO

UGR C90

65° <

65° <

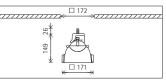
LOR

65° <

LOR

37039.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 卿



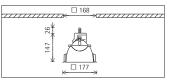




0.64 19.4 19.5 200 cd/m²

36042.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.65kg LMF D 日本⑩爲



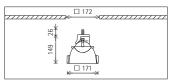




0.65 UGR CO 18.8 UGR C90 189 200 cd/m²

37042.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 孫



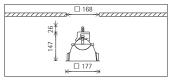




0.65 UGR CO 18.8 UGR C90 18.9 200 cd/m²

36038.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ ட



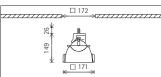




0.68 UGR CO 17.6 UGR C90 175 200 cd/m² 65° <

37038.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本⑩卿





142/	
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laa2\/ / / /	11 \
60° X//	\
\mathbb{N}	H \/
IX / I/ I	\1\ X
$V \times V I$	$V \times V$
1 / 1	
$N \wedge A = 1$	Λ \/
$1 \sim 1 \sim 1$	////
1.	
30° /	30°
2000) cd \

443

452

452

483

483

0.68 UGR CO 17.6 UG

249

254

254

272

272

625

Number	of luminaires	ner	100m²	fo
Ivallioci	or runninancs		10011	101

		100lx	200lx	300lx	500lx	
36039.000	100 W	7	14	21	35	
37039.000	100 W	7	14	21	35	
36042.000	100 W	7	14	21	35	
37042.000	100 W	7	14	21	35	
36038.000	100 W	7	13	20	32	
37038.000	100 W	7	13	20	32	

QT12-ax	
Illuminance E. (Ix) fo	r 1

100 W

100 W

100 W

100 W

100 W

100 W

664

677

677

725

725

36039.000

37039.000

36042.000

37042.000

36038.000

37038.000

30°	2000 cd	30°	65° <
dule (m)		
.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
664	443	332	249

332

339

339

363

363

3R C90	17.5
° <	200 cd/m

37030.000	100
Connected load	
without control	gea

Lorinected load							
vithout control gear							
36039.000	P:	100 W					
37039.000	P:	100 W					
36042.000	P:	100 W					
37042.000	P:	100 W					
36038.000	P:	100 W					
37038.000	P:	100 W					

Connected	load	per	100lx
without cor	ntrol	gear	1
20020 000	D	¥.	0.07

36039.000	P*:	6.97 W/m ²
37039.000	P*:	6.97 W/m ²
36042.000	P*:	6.83 W/m ²
37042.000	P*:	6.83 W/m ²
36038.000	P*:	6.38 W/m ²
37038.000	P*:	6.38 W/m ²

Number of luminaires per 100lx

36039.000	n*:	6.97 1/100m ²
37039.000	n*:	6.97 1/100m ²
36042.000	n*:	6.83 1/100m ²
37042.000	n*:	6.83 1/100m ²
36038.000	n*:	6.38 1/100m ²
37038.000	n*:	6.38 1/100m ²

DALI PLUG+

PLAY







Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black.

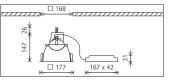
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Accessories page 633

36239.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.









LOR 0.64 UGR CO 19.4 LIGR C90 195 200 cd/m² 65° <

37239.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.90kg LMF D 口像

□ 172 149 167 x 42





0.64 UGR CO 19.4 UGR C90 19.5 200 cd/m²

65° <

65° <

36242.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.90kg LMF D

147





0.65 UGR CO 18.8 LIGR C90 189 200 cd/m² 65° <

37242.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.90kg LMF D

149 167 x 42

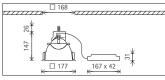




0.65 UGR CO 18.8 UGR C90 18.9 200 cd/m²

36238.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.90kg LMF D 口魚



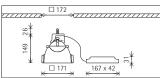




LOR 0.68 UGR CO 17.6 UGR C90 175 200 cd/m² 65° <

37238.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.90kg LMF D





36239.000

37239.000

36242.000

37242.000

36238.000



0.68 UGR CO 17.6 LIGR C90 175 200 cd/m² 65° <

Number o	f luminaires	ner	100m ²	for

	a cs pe					
		100lx	200lx	300lx	500lx	
36239.000	100 W	7	14	21	35	
37239.000	100 W	7	14	21	35	
36242.000	100 W	7	14	21	35	
37242.000	100 W	7	14	21	35	
36238.000	100 W	7	13	20	32	
37238.000	100 W	7	13	20	32	

	QT12-ax		30°
I	lluminance E _n	(lx) for	dule (n 2x1 8

100 W

100 W

100 W

100 W

100 W

30	2000 cd	30 9	
odule (m	1)		
1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
664	443	332	249
664	443	332	249
677	452	339	254
677	452	339	254
725	483	363	272

272

6.97 1/100m² 6.97 1/100m² 6.83 1/100m² 6.83 1/100m² 6.38 1/100m² 6.38 1/100m²

00200.000			•					00200.000		,	.00	000	-
37238.000	10	W 00	7	13	20	32		37238.000	100 W	725	483	363	2
Connected le	oad					Connected lo	oad per	100lx		Number o	f luminair	es per 10	00lx
36239.000	P:	105 W				36239.000	P*:	7.32 W/m ²		36239.000) n*:	6.97	1/10
37239.000	P:	105 W				37239.000	P*:	7.32 W/m ²		37239.000) n*:	6.97	1/10
36242.000	P:	105 W				36242.000	P*:	7.18 W/m ²		36242.000) n*:	6.83	1/10
37242.000	P:	105 W				37242.000	P*:	7.18 W/m ²		37242.000) n*:	6.83	1/10
36238.000	P:	105 W				36238.000	P*:	6.70 W/m ²		36238.000) n*:	6.38	1/10
37238.000	P:	105 W				37238.000	P*:	6.70 W/m ²		37238.000) n*:	6.38	1/10







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

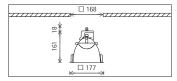
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°.

Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 633

36041.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 卿







0.64 18.0 18.2 200 cd/m²

UGR CO

UGR CO

65° <

65° <

LOR

65° <

65° <

LIGR C90

37041.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 爲

163

Ü QT12-ax



0.64 18.0 UGR C90 18.2 200 cd/m²

36043.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.65kg LMF D 日本⑩爲

□ 168

Ü QT12-ax



0.65 UGR CO 17.2 UGR C90 173 200 cd/m²

37043.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 孫

163

H QT12-ax



0.65 UGR CO 17.2 UGR C90 17.3 200 cd/m²

36040.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.65kg LMF D 日本 ⑩ 卿

□ 168 QT12-ax



0.70 UGR CO 16.0 UGR C90 16.1 200 cd/m²

37040.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.65kg LMF D 日本 ⑩ 億

163

Ü QT12-ax



0.70 UGR CO 16.0 LIGR C90 16.1 200 cd/m² 65° <

Number of luminaires per 100m2 for

Number of Iu	ıminaires p	er 100m²	for			Illuminance E _n (lx) for module (m)	
		100lx	200lx	300lx	500lx	1.2x1.8 1.8x	1.8
36041.000	100 W	7	14	21	35	36041.000 100 W 677 4	51
37041.000	100 W	7	14	21	35	37041.000 100 W 677 4	51
36043.000	100 W	7	14	21	34	36043.000 100 W 692 4	62
37043.000	100 W	7	14	21	34	37043.000 100 W 692 4	62
36040.000	100 W	7	13	19	31	36040.000 100 W 747 4	98
37040.000	100 W	7	13	19	31	37040.000 100 W 747 4	98

Connected load without control gear 36041.000 100 W 37041.000 100 W 36043.000 100 W 37043 000 100 W 36040.000 100 W 37040.000 100 W

Connected load per 100lx without control gear 6.84 W/m² 36041.000 37041.000 6.84 W/m² 36043.000 6.69 W/m² 37043 000 6.69 W/m² 36040.000 6.20 W/m² 37040.000 6.20 W/m² Number of luminaires per 100lx

338

338 346

346

374

374

254 254

260

260

280

280

627

36041.000	n*:	6.84 1/100m ²
37041.000	n*:	6.84 1/100m ²
36043.000	n*:	6.69 1/100m ²
37043.000	n*:	6.69 1/100m ²
36040.000	n*:	6.20 1/100m ²
37040.000	n*:	6.20 1/100m ²

DALI PLUG+ PLAY







Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. Fixing frame: plastic, black.

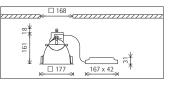
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°. Accessories page 633

36241.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.









LOR 0.64 UGR CO 18.0 LIGR C90 18 2 200 cd/m² 65° <

37241.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.90kg LMF D 口像

□ 172 ×////////////////////////////// 163 167 x 42





0.64 UGR CO 18.0 UGR C90 18.2 200 cd/m²

36243.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.90kg LMF D

□ 168





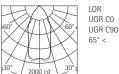
0.65 UGR CO 17.2 LIGR C90 173 200 cd/m² 65° <

37243.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.90kg LMF D

□ 172 163 167 x 42





0.65 17.2 17.3 200 cd/m²

36240.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.90kg LMF D 口魚

□ 168 161





0.70 UGR CO 16.0 UGR C90 16.1 200 cd/m²

65° <

338

338

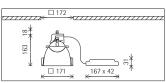
346

346

374

37240.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.90kg LMF D





Illuminance E (ly) for module (m



0.70 UGR CO 16.0 LIGR C90 161 200 cd/m² 65° <

254

254

260

260

280

Number	of I	uminaire	ner	100m ²	for

number of furnitialites p	er room	101			IIIummance E	n (IX) IUI	module (m	J
	100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8
36241.000 100 W	7	14	21	35	36241.000	100 W	677	451
37241.000 100 W	7	14	21	35	37241.000	100 W	677	451
36243.000 100 W	7	14	21	34	36243.000	100 W	692	462
37243.000 100 W	7	14	21	34	37243.000	100 W	692	462
36240.000 100 W	7	13	19	31	36240.000	100 W	747	498
37240.000 100 W	7	13	19	31	37240.000	100 W	747	498

37240.000	10	00 W	7	13	19	31		37240.000	100 W	747	498	37	4 2	280
Connected lo	oad					Connected lo	oad per	100lx		Number	of lumina	ires pe	er 100lx	
36241.000	P:	105 W				36241.000	P*:	7.18 W/m ²		36241.00	0 n*	·: (6.84 1/10	00m²
37241.000	P:	105 W				37241.000	P*:	7.18 W/m ²		37241.00	0 n*	: 6	6.84 1/10	00m ²
36243.000	P:	105 W				36243.000	P*:	7.02 W/m ²		36243.00	0 n*	: (6.69 1/10	00m²
37243.000	P:	105 W				37243.000	P*:	7.02 W/m ²		37243.00	0 n*	: 6	6.69 1/10	00m ²
36240.000	P:	105 W				36240.000	P*:	6.51 W/m ²		36240.00	0 n*	: (6.20 1/10	00m²
37240.000	P:	105 W				37240.000	P*:	6.51 W/m ²		37240.00	0 n*	: (6.20 1/10	00m²

Quintessence Lens wallwasher for low-voltage halogen lamps



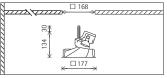




Lampholder carrier: cast aluminium, designed as heat sink. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1–30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm. Wallwasher reflector: aluminium, satinmatt anodised. Cut-off angle 50°. Upper side with wallwasher lens. . Transformer to FN 61558 or EN 61347 to be ordered separately. Accessories page 633

36058.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10°

Covered mounting detail Weight 0.60kg LMF D 日本 ⑩ 卿



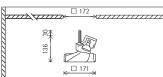


Mean illuminance E_n (Ix)

Wall height (m) 3.0 0.90 0.90 1.20 1.20 Offset from wall (m) 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 180 137 105 85

37058.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10°

Flush mounting detail Weight 0.60kg LMF D 日本⑩卿





Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 180 137 105

Quintessence Directional luminaire for low-voltage halogen lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation.

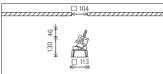
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5–25mm with flush mounting detail. Cable, L 500mm.

Darklight reflector: aluminium, satinmatt anodised, with upper Softec lens. Cut-off angle 30°. Transformer to EN 61558 or EN 61347 to be ordered separately.

Accessories page 634

36009.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Covered mounting detail Weight 0.43kg LMF D 日本⑩爲









E(Ix) D(m)

2139 0.65

535 1.30

238 1.95 134 2.60

86 3.25

E(Ix) D(m)

7247 0.26

0.53

0.79

1.32

D(m) 36°

0.65

1.30

1.95

629

86 3.25

h(m)

2

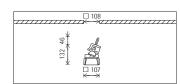
3

5

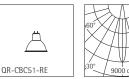
h(m)

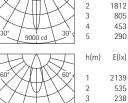
37009.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°

Flush mounting detail Weight 0.43kg LMF_D 日本命命













Quintessence Directional luminaire with shadow gap for low-voltage halogen lamps







Size 4 Housing: metal, black powder-coated. Lampholder carrier: cast aluminum, designed as heat sink, 0°-20° tilt, 360° rotation.

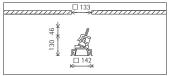
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, satinmatt anodised, with upper Softec lens. Reflector size 3, cut-off angle 30°. Transformer to EN 61558 or EN 61347 to be ordered separately. **Accessories page 634**











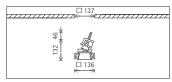


2139 0.65 535 1.30 238 1.95 134 2.60

86 3.25



Flush mounting detail Weight 0.53kg LMF D 日本 ⑩ 爲





QR-CBC51-RE









	11(111)	L(1//)	D(111)
			36°
۱,۵	1	2139	0.65
$\langle $	2	535	1.30
A	3	238	1.95
	4	134	2.60
)° (5	86	3.25

Quintessence Directional luminaire for low-voltage halogen lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

Reflector: aluminium, anodised, mirrorfinish.

Darklight reflector: aluminium, satin-

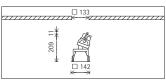
matt anodised, with upper Softec lens. Cut-off angle 40°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 634

36030.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Weight 0.75kg LMF D 日本 ⑩ ட

Covered mounting

detail

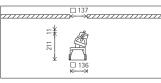






E(Ix)	D(m)
	19°
5785	0.33
1446	0.67
643	1.00
362	1.34
231	1.67
	5785 1446 643 362

37030.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot Flush mounting detail Weight 0.75kg LMF D 日本 ⑩ 爲





7300 Cd	5
	h(m)
60°	1
	2 3 4 5
30° 7500 cd 30°	5

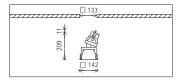
h(m) E(lx) D(m) 19°
1 5785 0.33
2 1446 0.67
3 643 1.00
4 362 1.34
5 231 1.67

Quintessence Directional luminaire for low-voltage halogen lamps

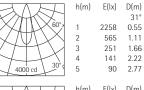
36032.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

37032.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm

Covered mounting detail Weight 0.75kg LMF D 日本⑩爲

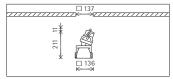




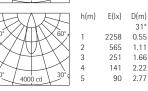




Flush mounting Weight 0.75kg LMF D 日本⑩爲







Quintessence Directional luminaire with shadow gap for low-voltage halogen lamps







Size 5 Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation. Mounting frame: plastic, white

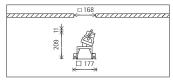
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable, L 500mm.

Peripheral shadow gap: plastic, black. Reflector: aluminium, anodised, mirror-

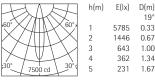
Darklight reflector: aluminium, satinmatt anodised, with upper Softec lens. Reflector size 4, cut-off angle 40°. Transformer to EN 61558 or EN 61347 to be ordered separately. Accessories page 634

36031.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Covered mounting detail Weight 0.88kg LMF D 日本 ⑩ 孫

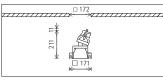




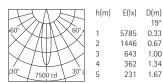


37031.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, spot

Flush mounting detail Weight 0.88kg LMF D 日本 ⑩ ட

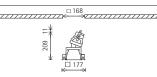




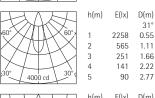


36033.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Covered mounting detail Weight 0.88kg LMF D 日本⑩爲

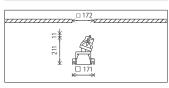




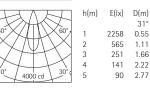


37033.000 Reflector silver QT12-ax 75W 12V GY6.35 1575lm Spherolit reflector, flood

Flush mounting detail Weight 0.88kg LMF D 日本⑩ 僫







631

Quintessence Directional luminaire for low-voltage halogen lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable, L 500mm.

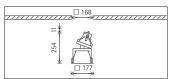
Reflector: aluminium, anodised, mirror-finish.

Darklight reflector: aluminium, satin-

matt anodised, with upper Softec lens. Cut-off angle 40°. Transformer to EN 61558 or

EN 61347 to be ordered separately. Accessories page 634

36044.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Covered mounting detail Weight 1.12kg LMF D 日本 ⑩ 爵







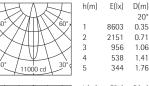
1 8603 0.35 2 2151 0.71 3 956 1.06 4 538 1.41 5 344 1.76

h(m) E(lx) D(m)

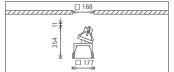
37044.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Flush mounting detail Weight 1.12kg LMF D 日本 ⑩ 圖

= ¥ | 172 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 |

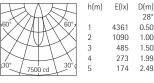




36045.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Covered mounting detail Weight 1.12kg LMF D 日本 ⑩ 魯

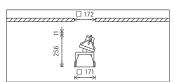




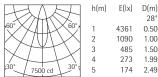


37045.000 Reflector silver QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Flush mounting detail Weight 1.12kg LMF D 日本 ⑩ 爲











PLUG+



Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, with connection cable L 500mm. 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

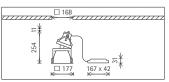
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Including 230/240/12V DALI transformer, with plug and play connectivity. Terminal block with strain relief. Reflector: aluminium, anodised, mirrorfinish.

Darklight reflector: aluminium, satinmatt anodised, with upper Softee lens. Cut-off angle 40°.

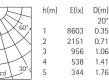
Accessories page 634

36244.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Covered mounting detail Weight 1.30kg LMF D





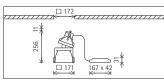




h(m)

37244.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot

Flush mounting detail Weight 1.30kg LMF D









36245.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood

Covered mounting detail Weight 1.30kg LMF D

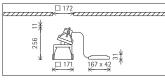
(Z)
QT12-ax



		28°
1	4361	0.50
2	1090	1.00
3	485	1.50
4	273	1.99
5	174	2.49
h(m)	E(Ix)	D(m)

E(Ix) D(m)

37245.000 Reflector silver DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Flush mounting detail Weight 1.30kg LMF D

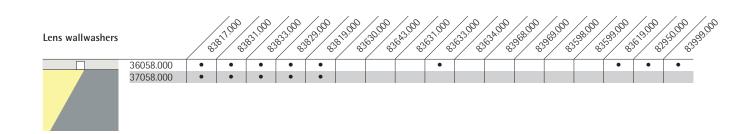




HAMA	h(m)
60°	1 2 3
NTHV	3
	4
7500 cd 30°	4 5

28°
21 4361 0.50
2 1090 1.00
3 485 1.50
4 273 1.99
5 174 2.49

Downlights		/5	87,00	831,00	833.00	3879.00	819,00	5630.00	643.000 87	631,00	633.00	363 ⁴ .000	368.00	369,00°	598.00	599.00	5619.00	340,00 9393,000
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83968,000 83879.000 93819100 87950,000 83831000 83833.00 83630.00 8363100 83633.00 83634,000 83969,000 83599,000 83817000 83643.000 93/5/8/00 83619.000 **Directional luminaires** 36009.000 36010.000 36030.000 36031.000 36032.000 • 36033.000 36044.000 • • 36045.000 36244.000 36245.000 37009.000 37010.000 37030 000 37031.000 37032.000 37033.000 37044.000 37045.000

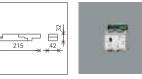














83817.000 DALI

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V.
Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 90mm

83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is

cleared.

Overload and overheat protection: automatic load-sensing. Use dimmers for electronic transformers

(trailing edge). For interference suppression to VDE 0875, part 2, secondary conductor

length 2m max. For ceiling aperture ø 80mm, recessed depth 70mm Weight 0.19kg

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240 CO 104

345

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V controllable.

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture. Plastic housing. Primary and secondary

cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed depth 125mm

≈¥ <u>□</u> ≈

CO 104

345

83829.000 DALI

DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



83819.000 Overvoltage protection device for max. 10 electronic transformers. L 45mm, B 25mm, H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



83630.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 2.80kg



83643.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.10kg



Weight 3.10kg

83631.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete.







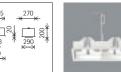


For flush-mounting of downlights in concrete housings in exposed concrete





CO 168 3 K 430





83968.000
Mounting frame, 2x
Plastic, white (RAL9002). Mounting
without tools for ceiling thicknesses up
to 30mm. Covered mounting detail.
Recess depth: 260mm for directional
luminaires and 220mm for downlights
and recessed spotlights.
Weight 0.30kg





83969.000 Mounting frame, 2x Plastic, white (RAL9002). Mounting for ceiling thicknesses of 12.5-25mm. Flush mounting detail. Recess depth: 260mm for directional luminaires and 220mm for downlights and recessed spotlights. Weight 0.30kg



83598.000

Spacer plate

Aluminium.

ceilings. Weight 0.05kg







83599.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.09kg



83619.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.14kg



82950.000
Mounting plate for panelled ceilings
Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83999.000 Cover frame Metal, white. For covering the gap where ceiling cut-outs are too big. Please state internal and external dimensions when ordering.



The system design of Quintessence provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort with particular emphasis on vertical illuminance. All luminaires are available with a covered or flush mounting detail. Simple mounting makes for a highly economical installation.

a highly economical installation.
The range for high-pressure discharge lamps with square recessed ceiling luminaires includes doublefocus downlights, downlights, lens wallwashers and directional luminaires. The high-pressure discharge lamps and particularly the metal halide lamps excel due to exceptionally high energy efficiency and a long service life resulting in low operating costs. The pointform light source produces brilliant light that is easy to direct using reflectors and lenses. Developments such as electronic control gear and ceramic discharge tube technology ensure improved ignition and switching properties, high colour stability and excellent colour rendition.

From vertical illuminance to accent and ambient lighting, the Quintessence recessed luminaires for metal halide lamps put efficient visual comfort into practice.



The square Quintessence recessed ceiling luminaires for high-pressure discharge lamps are available in versions with different light distributions, cut-off angles, reflector sizes, luminaire edges and installation details. The spectrum of light distributions includes double-fo-cus downlights, downlights, lens wallwashers and directional luminaires. Depending on the requirements as to visual comfort and recess depth, Quintessence includes cut-off angles of 30° or 40°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The two different mounting frames can be used either as a covered or a flush mounting detail.

There are two options available for the luminaire edge: the conventional joint between ceiling and luminaire edge or a shadow gap. All Quintessence luminaires have aluminium cooler housings which are designed to provide optimum

thermal properties according to their particular technical requirements. The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The aluminium reflector is mirror-finish silver anodised. The installation units required are available as accessories. The separate mounting frame supplied allows efficient installation on the construction site.

Double-focus downlights



The lighting technology with double focus allows for a minimal light aperture. The double-focus downlights thus are available in size 2 with a cut-off angle of 40° for 35W metal halide lamps.

Application

Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 3 to 7 with a cut-off angle of 30° or 40° for metal halide lamps up to 150W or high-pressure sodium vapour lamps up to 100W. Lighting options for downlights include versions with wide diffuser for wide beam light distribution, with focal diffuser for increased brilliance in the centre, and with narrow diffuser for narrow to medium wide light distribution.

Application

Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Lens wallwashers



The lens wallwasher produces uniform light distribution over the whole wall. The range of lens wallwashers comprises luminaires in sizes 5 to 7 for metal halide lamps up to 70W.

Application

Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Focal lens wallwashers



Due to special spherolites, the focal lens wallwasher produces a focal emphasis in the upper area of the wall. The range of focal lens wallwashers comprises luminaires in sizes 5 to 7 for metal halide lamps up to 70W.

Application

Asymmetrical light distribution for wall lighting with focal emphasis, for applications including sales and promotional areas as well as trade fair stands and exhibitions.

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Directional luminaires



The Quintessence directional luminaires are available in the Spherolit reflector versions spot or flood. The luminaires above the darklight reflector with a cut-off angle of up to 40° can be tilted up to 20° and rotated through 360°. The range comprises luminaires in sizes 3 to 7 for 150W metal halide lamps or 100W high-pressure sodium vapour lamps.

Application
Rotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Application areas include museums, trade fair stands, exhibitions, sales areas and promotional areas.



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range allows many different versions to be produced by combining the mounting detail and the luminaire edge. The incorporation of digitally controllable DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mounting rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Double-focus downlight Downlight

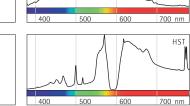


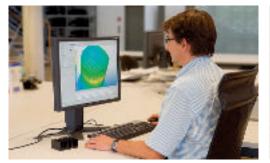
Lens wallwasher Focal lens wallwasher

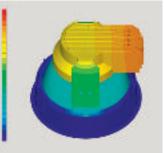


Directional luminaire









639

ture and colour rendition Metal halide lamps (HIT) provide a colour rendition of more

Colour tempera-

HST

lamps (HIT) provide a colour rendition of more than 90, making them highly suitable for lighting tasks where excellent colour rendition is required. The warm-coloured light of the high-pressure sodium vapour lamp (HST) shows certain types of merchandise to their best advantage, such as bakery products and leather goods. Heat management Good heat

management in the luminaire is crucial for continuous operation, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and material of the housing that all contribute to optimal heat management. Extensive simulations and tests during the development phase ensure the success of all the products in the range.

Quintessence Double-focus downlight for metal halide lamps







Size 4
Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

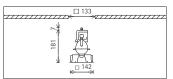
plastic, black.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.

mounting detail.
Cable with plug, L 500mm.
Ellipsoidal reflector: aluminium, bright anodised. Diffuser: glass, frosted.
Darklight reflector: aluminium, satinmatt anodised. Reflector size 2, cut-off angle 40°.

Control gear to be ordered separately. **Accessories page 677**

36424.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white









LOR 0.44 UGR CO 19.2 UGR C90 19.1 65° < 1000 cd/m²

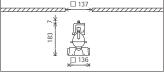




LOR 0.41 UGR CO 21.4 UGR C90 21.3

37437.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white









LOR 0.44 UGR CO 19.2 UGR C90 19.1 65° < 1000 cd/m²





LOR	0.41
UGR CO	21.4
UGR C90	21.3

Number of Iu	ıminaires p	er 100m²	for
		100lx	200lx
36424.000	20 W	14	27

		100lx	200lx	300lx	500lx
36424.000	20 W	14	27	41	67
36424.000	35 W	7	14	21	34
37437.000	20 W	14	27	41	67
37437.000	35 W	7	14	21	34

E _n (lx) fo	r module (ı	m)		
	1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
20 W	347	231	173	130
35 W	680	453	340	255
20 W	347	231	173	130
35 W	680	453	340	255
	20 W 35 W 20 W	1.2x1.8 20 W 347 35 W 680 20 W 347	20 W 347 231 35 W 680 453 20 W 347 231	1.2x1.8 1.8x1.8 1.8x2.4 20 W 347 231 173 35 W 680 453 340 20 W 347 231 173

37437.000

Connected lo without cont		ır
36424.000	P: P·	20 W 35 W
36424.000 37437.000	P: P:	35 W 20 W
37437.000	P:	35 W

Connected lo		
36424.000	P*:	2.67 W/m ²
36424.000	P*:	2.38 W/m ²
37437.000	P*:	2.67 W/m ²
37437.000	P*:	2.38 W/m ²

Number of luminaires per 100lx

36424.000 n*: 13.35 1/100m²
36424.000 n*: 6.81 1/100m²
37437.000 n*: 13.35 1/100m²

6.81 1/100m²

Quintessence Downlight for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mount-

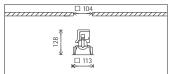
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mount ing detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

ised.
Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.
Control gear to be ordered separately.

Accessories page 677

36401.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本







LOR 0.42 UGR CO 22.3 UGR C90 22.4 65° < 200 cd/m²

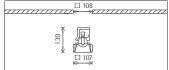
Quintessence Downlight for metal halide lamps

37414.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

36400.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Narrow diffuser: glass, frosted.

37413.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本







LOR 0.42 UGR CO 22.3 UGR C90 22.4 65° < 200 cd/m²

UGR CO

UGR C90

UGR CO

LIGR C90

120

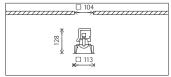
120

138

65° <

65° <

Covered mounting detail Weight 0.55kg LMF D 日本

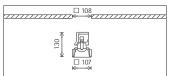






0.48 21.3 21.4 200 cd/m²

Flush mounting detail Weight 0.55kg LMF D 日本





Illuminance E_n (lx) for module (m)

20 W

20 W

20 W

20 W

1.2x1.8

319

319

368



1.8x1.8

213

213

245

0.48 21.3 21.4 200 cd/m²

Number of luminaires per 100m² for

		100lx	200lx	300lx	500lx	
36401.000	20 W	15	29	44	73	36401.000
37414.000	20 W	15	29	44	73	37414.000
36400.000	20 W	13	26	38	63	36400.000
37413.000	20 W	13	26	38	63	37413.000

Connected load without control gear 36401.000 P: 20 W 37413.000 P: 20 W 37413.000 P: 20 W

Connected load per 100lx without control gear

Accessories page 677

36401.000 P*: 2.90 W/m² 37414.000 P*: 2.90 W/m² 36400.000 P*: 2.52 W/m² 37413.000 P*: 2.52 W/m² Number of luminaires per 100lx

36401.000 n*: 14.51 1/100m² 37414.000 n*: 14.51 1/100m² 36400.000 n*: 12.59 1/100m² 37413.000 n*: 12.59 1/100m²

160

160

184

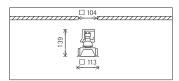




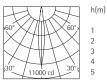


Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.
Cable with plug, L 500mm.
Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.
Control gear to be ordered separately.

36437.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40° Covered mounting detail Weight 0.45kg LMF D 日本







 h(m)
 E(lx)
 D(m)

 12°
 12°

 2
 2250
 0.42

 3
 1000
 0.63

 4
 562
 0.84

 5
 360
 1.05

HIPAR51-CE-P



h(m) E(lx) D(m) 40° 1 1500 0.73 2 375 1.46 3 167 2.18 4 94 2.91 5 60 3.64

E(Ix) D(m)

9000 0.21

2250 0.42

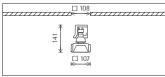
1000 0.63

h(m)

2

3

37450.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40° Flush mounting detail Weight 0.45kg LMF D 日本







0.84 360 1.05 h(m) E(Ix) D(m) 40° 1500 0.73 2 375 1.46 3 167 2.18 60 3.64

HIPAR51-CE-P

Quintessence Downlight with shadow gap for metal halide lamps







Size 4
Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, satin-

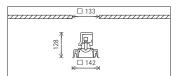
matt anodised. Reflector size 3, cut-off angle 30°.

Control gear to be ordered separately.

Accessories page 677

36403.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.66kg LMF D 日本



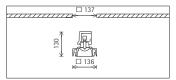




LOR 0.42 UGR CO 22.3 UGR C90 22.4 65° < 200 cd/m²

37416.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.66kg LMF D 日本



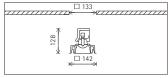




LOR 0.42 UGR CO 22.3 UGR C90 22.4 65° < 200 cd/m²



Covered mounting detail Weight 0.66kg LMF D 日本



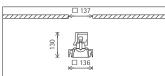




LOR 0.48 UGR CO 21.3 UGR C90 21.4 65° < 200 cd/m²



Flush mounting detail Weight 0.66kg LMF D 日本







LOR 0.48 UGR CO 21.3 UGR C90 21.4 65° < 200 cd/m²

Number	of	luminaires	per	$100 m^2$	f
				100lx	

		100lx	200lx	300lx	500lx	
36403.000	20 W	15	29	44	73	
37416.000	20 W	15	29	44	73	
36402.000	20 W	13	26	38	63	
37415.000	20 W	13	26	38	63	

Illuminance E _n (lx) for module (m)						
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
36403.000	20 W	319	213	160	120	
37416.000	20 W	319	213	160	120	
36402.000	20 W	368	245	184	138	
37415.000	20 W	368	245	184	138	

Connected load without control gear					
36403.000	P:	20 W			
37416.000	P:	20 W			
36402.000	P:	20 W			
37415.000	P:	20 W			

Connected lo		
36403.000	P*:	2.90 W/m ²
37416.000	P*:	2.90 W/m ²
36402.000	P*:	2.52 W/m ²
37415.000	P*:	2.52 W/m ²

Number of lu	ıminaire	s per 100lx
36403.000	n*:	14.51 1/100m ²
37416.000	n*:	14.51 1/100m ²
36402.000	n*:	12.59 1/100m ²
37415.000	n*:	12.59 1/100m ²

Quintessence Downlight with shadow gap for metal halide lamps







Size 4 Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame:

plastic, black.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.

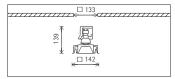
Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, satinmatt anodised. Reflector size 3, cut-off angle 30°.

Control gear to be ordered separately.

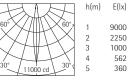
Accessories page 677

36438.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°







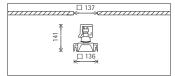




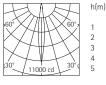
h(m) E(lx) D(m)
40°
1 1500 0.73
2 375 1.46
3 167 2.18
4 94 2.91
300 cd 30° 5 60 3.64

37451.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 40°

Flush mounting detail Weight 0.56kg LMF D 日本









D(m)

0.21

0.42

0.63

0.84

1.05





E(Ix) D(m) h(m) 40° 1500 0.73 2 375 1.46 3 167 2.18 94 2.91 60 3.64

Quintessence Downlight for metal halide lamps







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

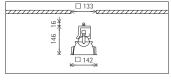
Cable with plug, L 500mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

ised.
Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.
Control gear to be ordered separately.

Accessories page 677

36407.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Wide diffuser: glass, frosted.















LOR 0.55 UGR CO 22.5 UGR C90 22.7 65° < 200 cd/m²

643

Quintessence Downlight for metal halide lamps

37420.000 Reflector silver Flush mounting UGR CO UGR C90 HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm detail Weight 0.55kg LMF D white Wide diffuser: glass, frosted. 148 65° < 日本 □ 136 HIT-TC-CE LOR UGR CO UGR C90 65° < HIT-TC-CE 36418.000 Reflector silver Covered mounting LOR HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm UGR CO UGR C90 detail Weight 0.55kg LMF D 65° < white Focal diffuser: glass, frosted, with clear 146 日本 centre to increase the brilliance at the 142 HIT-TC-CE centre of the beam. UGR CO UGR C90 65° < HIT-TC-CE 37431.000 Reflector silver Flush mounting HIT-TC-CE 20W GU6.5 1615lm detail UGR CO HIT-TC-CE 35W GU6.5 3400lm warm Weight 0.55kg LMF D UGR C90 white
Focal diffuser: glass, frosted, with clear
centre to increase the brilliance at the
centre of the beam. 148 65° < 日本 HIT-TC-CE

HIT-TC-CE

1500 cd

1

19.8

200 cd/m²

20.1

0.55

22.5

22.7

0.56

18.8

19 1

0.56

21.4

21.8

0.56

18.8

191

200 cd/m²

200 cd/m²

200 cd/m²

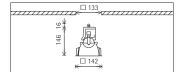
200 cd/m²

Quintessence Downlight for metal halide lamps

36406.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本







UGR C0 UGR C90 19.1 19.4 200 cd/m²

65° <

65° <

UGR CO

LIGR C90

UGR CO

65° <

65° <



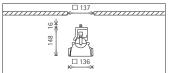


0.60 UGR CO UGR C90 21.8 22.1 200 cd/m²

37419.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本

Number of



300lx

500lx





0.60 19.1 194 200 cd/m²





0.60 21.8 UGR C90 22.1 200 cd/m²

luminaires per	100m ²	for	
	100ly	2001x	

		TOOIX	20017	JOOIX	JOOIX	
36407.000	20 W	11	22	33	55	
36407.000	35 W	6	11	16	27	
37420.000	20 W	11	22	33	55	
37420.000	35 W	6	11	16	27	
36418.000	20 W	11	22	33	54	
36418.000	35 W	6	11	16	26	
37431.000	20 W	11	22	33	54	
37431.000	35 W	6	11	16	26	
36406.000	20 W	10	20	30	50	
36406.000	35 W	5	10	15	24	
37419.000	20 W	10	20	30	50	
37419.000	35 W	5	10	15	24	

Illuminance En (Ix) for module (m)

		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36407.000	20 W	426	284	213	160
36407.000	35 W	887	591	444	333
37420.000	20 W	426	284	213	160
37420.000	35 W	887	591	444	333
36418.000	20 W	429	286	215	161
36418.000	35 W	913	608	456	342
37431.000	20 W	429	286	215	161
37431.000	35 W	913	608	456	342
36406.000	20 W	464	309	232	174
36406.000	35 W	968	645	484	363
37419.000	20 W	464	309	232	174
37419.000	35 W	968	645	484	363

Connected load without control gear 36407.000 20 W 36407.000 35 W 37420.000 20 W 37420.000 35 W 36418.000 20 W 36418 000 35 W 37431.000 20 W 37431.000 35 W 36406.000 P: P: 20 W 36406 000 35 W 37419.000 20 W 37419.000 35 W

Connected load per 100lx without control gear 36407.000 2.17 W/m² 1.83 W/m² 2.17 W/m² 36407.000 37420.000 1.83 W/m² 37420.000 36418.000 2.16 W/m² 36418 000 1.78 W/m² 37431.000 2.16 W/m² 37431.000 1.78 W/m² 36406.000 2.00 W/m² 36406 000 1 67 W/m² 37419.000 2.00 W/m²

37419.000

Number of luminaires per 100lx

36407.000	n*:	10.86 1/100m ²
36407.000	n*:	5.22 1/100m ²
37420.000	n*:	10.86 1/100m ²
37420.000	n*:	5.22 1/100m ²
36418.000	n*:	10.79 1/100m ²
36418.000	n*:	5.07 1/100m ²
37431.000	n*:	10.79 1/100m ²
37431.000	n*:	5.07 1/100m ²
36406.000	n*:	9.98 1/100m ²
36406.000	n*:	4.78 1/100m ²
37419.000	n*:	9.98 1/100m ²
37419.000	n*:	4.78 1/100m ²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

1.67 W/m²

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

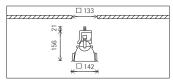
Cable with plug, L 500mm. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, satin-

matt anodised. Cut-off angle 40° Control gear to be ordered separately.

Accessories page 677

36409.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm Wide diffuser: glass, frosted.









LOR 0.54 UGR CO 18.6 UGR C90 18.6 200 cd/m² 65° <





LOR 0.55 UGR CO 21.2 UGR C90 213 200 cd/m² 65° <

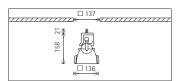
www.erco.com

ERCO Program 2010/11

ht for metal halide lamps

Quintessence	Downligh
37422.000 Reflector s HIT-TC-CE 20W GU6.5 HIT-TC-CE 35W GU6.5 white Wide diffuser: glass, fro	1615lm 3400lm warm
36419.000 Reflector s HIT-TC-CE 20W GU6.5 HIT-TC-CE 35W GU6.5 white Focal diffuser: glass, fro centre to increase the	1615lm 3400lm warm osted, with clear

Flush mounting detail Weight 0.55kg LMF D 日本







UGR CO UGR C90 18.6 18.6 65° < 200 cd/m²

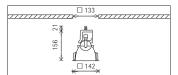




LOR 0.55 UGR CO UGR C90 21.2 21.3 65° < 200 cd/m²

centre of the beam.

Covered mounting detail Weight 0.55kg LMF D 日本







LOR 0.53 UGR CO UGR C90 17.4 17.4 65° < 200 cd/m²



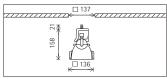


0.56 UGR CO 20.2 UGR C90 20.2 65° < 200 cd/m²

37432.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white
Focal diffuser: glass, frosted, with clear
centre to increase the brilliance at the
centre of the beam.

Flush mounting detail Weight 0.55kg LMF D 日本











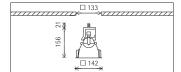


0.56 UGR CO 20.2 UGR C90 65° < 20.2 200 cd/m²

Quintessence Downlight for metal halide lamps

36408.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.55kg LMF D 日本







UGR CO UGR C90 65° <

65° <

UGR C0 UGR C90

65° <

UGR CO

65° <

UGR C90

17.7 17.7 200 cd/m²

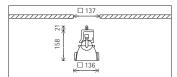




UGR CO UGR C90 20.6 20.7 200 cd/m²

37421.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.55kg LMF D 日本







0.57 17.7 17.7 200 cd/m²





0.59 20.6 20.7 200 cd/m²

Number of lu	Number of luminaires per 100m ² for						Illuminance E _n (lx) for module (m)				
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36409.000	20 W	12	23	34	56	36409.000	20 W	414	276	207	155
36409.000	35 W	6	11	16	26	36409.000	35 W	893	595	446	335
37422.000	20 W	12	23	34	56	37422.000	20 W	414	276	207	155
37422.000	35 W	6	11	16	26	37422.000	35 W	893	595	446	335
36419.000	20 W	12	23	34	56	36419.000	20 W	415	277	207	156
36419.000	35 W	6	11	16	26	36419.000	35 W	916	610	458	343
37432.000	20 W	12	23	34	56	37432.000	20 W	415	277	207	156
37432.000	35 W	6	11	16	26	37432.000	35 W	916	610	458	343
36408.000	20 W	11	21	32	52	36408.000	20 W	445	297	222	167
36408.000	35 W	5	10	15	24	36408.000	35 W	969	646	485	363
37421.000	20 W	11	21	32	52	37421.000	20 W	445	297	222	167
37421.000	35 W	5	10	15	24	37421.000	35 W	969	646	485	363

Connected load						
without cont	rol gea	ır				
36409.000	P:	20 W				
36409.000	P:	35 W				
37422.000	P:	20 W				
37422.000	P:	35 W				
36419.000	P:	20 W				
36419.000	P:	35 W				
37432.000	P:	20 W				
37432.000	P:	35 W				
36408.000	P:	20 W				
36408.000	P:	35 W				
37421.000	P:	20 W				
37421.000	P:	35 W				

Connected load per 100lx								
without control gear								
36409.000	P*:	2.24 W/m ²						
36409.000	P*:	1.82 W/m ²						
37422.000	P*:	2.24 W/m ²						
37422.000	P*:	1.82 W/m ²						
36419.000	P*:	2.23 W/m ²						
36419.000	P*:	1.77 W/m ²						
37432.000	P*:	2.23 W/m ²						
37432.000	P*:	1.77 W/m ²						
36408.000	P*:	2.08 W/m ²						
36408.000	P*:	1.67 W/m ²						
37421.000	P*:	2.08 W/m ²						
37421.000	P*:	1.67 W/m ²						

Number of luminaires per 100lx	
n*:	11.20 1/100m ²
n*:	5.19 1/100m ²
n*:	11.20 1/100m ²
n*:	5.19 1/100m ²
n*:	11.16 1/100m ²
n*:	5.06 1/100m ²
n*:	11.16 1/100m ²
n*:	5.06 1/100m ²
n*:	10.40 1/100m ²
n*:	4.78 1/100m ²
n*:	10.40 1/100m ²
n*:	4.78 1/100m ²
	n*:







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame:

plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, satin-

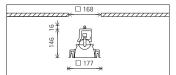
matt anodised. Reflector size 4, cut-off

Control gear to be ordered separately. Accessories page 677

36411.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.69kg LMF D 日本







LOR UGR CO 19.8 LIGR C90 20.1 200 cd/m² 65° <



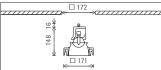


0.55 UGR CO 22.5 UGR C90 22.7 200 cd/m² 65° <

37424.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.69kg LMF D 日本







0.56 UGR CO 19.8 LIGR C90 20.1 200 cd/m² 65° <



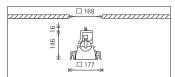




36420.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

white Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.69kg LMF D 日本











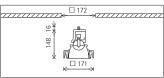




37433.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

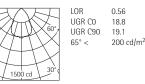
white Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.69kg LMF D 日本









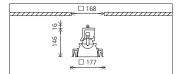




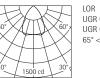
LOR 0.56 UGR CO UGR C90 218 200 cd/m² 65° <

36410.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.69kg LMF D 日本







UGR C0 UGR C90 19.1 19.4 200 cd/m²

HIT-TC-CE



0.60 UGR CO UGR C90 21.8 22.1 200 cd/m²

65° <

UGR CO

LIGR C90

UGR CO

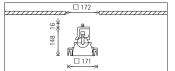
UGR C90

65° <

65° <

37423.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.69kg LMF D 日本







0.60 19.1 194 200 cd/m²



37423.000

35 W



0.60 21.8 22.1 200 cd/m²

Number	of luminaires	per	100m ²	for
			1001	20

		100lx	200lx	300lx	500lx	
6411.000	20 W	11	22	33	55	
6411.000	35 W	6	11	16	27	
7424.000	20 W	11	22	33	55	
7424.000	35 W	6	11	16	27	
6420.000	20 W	11	22	33	54	
6420.000	35 W	6	11	16	26	
7433.000	20 W	11	22	33	54	
7433.000	35 W	6	11	16	26	
6410.000	20 W	10	20	30	50	
6410.000	35 W	5	10	15	24	
7423.000	20 W	10	20	30	50	
7423.000	35 W	5	10	15	24	

Illuminance	E _n (lx) fo	r module (m)		
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36411.000	20 W	426	284	213	160
36411.000	35 W	887	591	444	333
37424.000	20 W	426	284	213	160
37424.000	35 W	887	591	444	333
36420.000	20 W	429	286	215	161
36420.000	35 W	913	608	456	342
37433.000	20 W	429	286	215	161
37433.000	35 W	913	608	456	342
36410.000	20 W	464	309	232	174
36410.000	35 W	968	645	484	363
37423.000	20 W	464	309	232	174

968

645

484

363

Connected loa	ıd	
without contr	ol gea	ar
36411.000	P:	20 W
36411.000	P:	35 W
37424.000	P:	20 W
37424.000	P:	35 W
36420.000	P:	20 W
36420.000	P:	35 W
37433.000	P:	20 W
37433.000	P:	35 W
36410.000	P:	20 W
36410.000	P:	35 W
37423.000	P:	20 W
37423.000	P:	35 W

Connected	load per	1001x	
without co	ntrol gea	r	
36411.000	P*:		W/m ²
36411.000	P*:	1.83	W/m ²
37424.000	P*:	2.17	W/m ²
37424.000	P*:	1.83	W/m^2
36420.000	P*:	2.16	W/m ²
36420.000	P*:	1.78	W/m ²
37433.000	P*:	2.16	W/m ²
37433.000	P*:	1.78	W/m^2
36410.000	P*:	2.00	W/m ²
36410.000	P*:	1.67	W/m ²
37423.000	P*:	2.00	W/m^2
37423.000	P*:	1.67	W/m^2

Number of luminaires per 100lx 36411.000 10.86 1/100m² 5.22 1/100m² 10.86 1/100m² 36411.000 37424.000 37424.000 5.22 1/100m² 36420.000 10.79 1/100m² 36420 000 5.07 1/100m² 10.79 1/100m² 37433.000 37433.000 5.07 1/100m² 36410.000 9.98 1/100m² 36410 000 4.78 1/100m² 37423.000 9.98 1/100m² 37423.000 4.78 1/100m²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush

mounting detail. Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

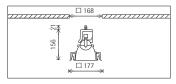
Darklight reflector: aluminium, satin-

matt anodised. Reflector size 4, cut-off

Control gear to be ordered separately. Accessories page 677

36413.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.69kg LMF D 日本







LOR 0.54 UGR CO 18.6 UGR C90 18.6 200 cd/m² 65° <

Ï HIT-TC-CE

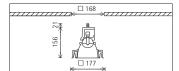


LOR 0.55 UGR CO 21.2 UGR C90 213 200 cd/m² 65° <

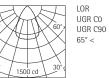
		· gap · o· ···c·ai · ··a···a·c · a····	J J J J J J J J J J			
37426.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Wide diffuser: glass, frosted.	Flush mounting detail Weight 0.69kg LMF D 日本	2172 ×211111	HIT-TC-CE	60° 60°,	LOR UGR CO UGR C90 65° <	0.54 18.6 18.6 200 cd/m ²
			HIT-TC-CE	60°, 60°, 30° c	LOR UGR CO UGR C90 65° <	0.55 21.2 21.3 200 cd/m ²
36421.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.	Covered mounting detail Weight 0.69kg LMF D 日本	2 168 2 177	HIT-TC-CE	60° 60°,	LOR UGR CO UGR C90 65° <	0.53 17.4 17.4 200 cd/m ²
			HIT-TC-CE	60°, 60°, 30° c	LOR UGR CO UGR C90 65° <	0.56 20.2 20.2 200 cd/m ²
37434.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.	Flush mounting detail Weight 0.69kg LMF D 日本	2172 2172 2171 2171 2171	HIT-TC-CE	60° 60°,	LOR UGR CO UGR C90 65° <	0.53 17.4 17.4 200 cd/m ²
			ij	60°	LOR UGR CO UGR C90 65° <	0.56 20.2 20.2 200 cd/m ²

HIT-TC-CE

36412.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted. Covered mounting detail Weight 0.69kg LMF D 日本







0.57 17.7 17.7 200 cd/m²





0.59 20.6 20.7 200 cd/m²

UGR C0 UGR C90

UGR CO UGR C90

65° <

UGR CO

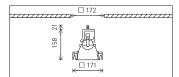
65° <

UGR C90

65° <

37425.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.69kg LMF D 日本







0.57 17.7 17.7 200 cd/m²





0.59 20.6 20.7 200 cd/m²

651

Number of luminaires per 100m ² for						
		100lx	200lx	300lx	500lx	
36413.000	20 W	12	23	34	56	
36413.000	35 W	6	11	16	26	
37426.000	20 W	12	23	34	56	
37426.000	35 W	6	11	16	26	
36421.000	20 W	12	23	34	56	
36421.000	35 W	6	11	16	26	
37434.000	20 W	12	23	34	56	
37434.000	35 W	6	11	16	26	
36412.000	20 W	11	21	32	52	
36412.000	35 W	5	10	15	24	
37425.000	20 W	11	21	32	52	
37425.000	35 W	5	10	15	24	

Illuminance E_n (lx) for module (m) 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 36413.000 20 W 414 276 207 155 36413.000 35 W 595 446 335 893 37426.000 20 W 276 207 155 37426.000 595 335 36421.000 20 W 415 277 207 156 36421.000 35 W 916 610 458 343 37434.000 20 W 207 156 458 222 37434.000 35 W 916 610 343 36412.000 20 W 297 167 445 36412.000 646 35 W 969 485 363 37425.000 297 222 37425.000 35 W 969 646 485 363

Connected	load		
without cor	ntrol gear		
36413.000	P:	20 W	
36413.000	P:	35 W	
37426.000	P:	20 W	
37426.000	P:	35 W	
36421.000	P:	20 W	
36421.000	P:	35 W	
37434.000	P:	20 W	
37434.000	P:	35 W	
36412.000	P:	20 W	
36412.000	P:	35 W	
37425.000	P:	20 W	
37425.000	P-	35 W	

Connected lo		
without cont	rol gea	ar
36413.000	P*:	2.24 W/m ²
36413.000	P*:	1.82 W/m ²
37426.000	P*:	2.24 W/m ²
37426.000	P*:	1.82 W/m ²
36421.000	P*:	2.23 W/m ²
36421.000	P*:	1.77 W/m ²
37434.000	P*:	2.23 W/m ²
37434.000	P*:	1.77 W/m ²
36412.000	P*:	2.08 W/m ²
36412.000	P*:	1.67 W/m ²
37425.000	P*:	2.08 W/m ²
37425.000	P*:	1.67 W/m ²

Number of lu	minaire	es per 100lx
36413.000 36413.000 37426.000 37426.000 36421.000 36421.000 37434.000 37434.000	n*: n*: n*: n*: n*: n*:	11.20 1/100m ² 5.19 1/100m ² 11.20 1/100m ² 5.19 1/100m ² 5.19 1/100m ² 11.16 1/100m ² 5.06 1/100m ² 5.06 1/100m ² 5.06 1/100m ²
36412.000 36412.000 37425.000 37425.000	n*: n*: n*: n*:	10.40 1/100m ² 4.78 1/100m ² 10.40 1/100m ² 4.78 1/100m ²
		. ,

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Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.

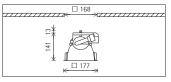
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-

ised. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Control gear to be ordered separately.

Accessories page 677

36447.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.









LOR 0.60 UGR CO 18.7 LIGR C90 186 200 cd/m² 65° <





0.60 UGR CO 21.2 UGR C90 21.1 200 cd/m² 65° <

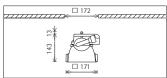




0.61 UGR CO 23.7 LIGR C90 23.7 200 cd/m² 65° <

37401.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D 日本







0.60 UGR CO 18.7 UGR C90 18.6 200 cd/m² 65° <





0.60 UGR CO 21.2 UGR C90 211 200 cd/m² 65° <

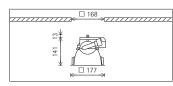




0.61 UGR CO 23.7 LIGR C90 23.7 200 cd/m² 65° <

36450.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.75kg LMF D 日本







0.61 UGR CO UGR C90 20.5 200 cd/m² 65° <

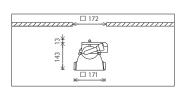




0.61 UGR CO 23.2 UGR C90 23.0 200 cd/m² 65° <



Flush mounting detail Weight 0.75kg LMF D 日本







LOR 0.61 UGR CO 20.6 UGR C90 20.5 200 cd/m² 65° <

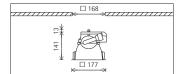




0.61 UGR CO UGR C90 23.0 200 cd/m² 65° <

36446.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.75kg LMF D 日本







UGR C0 UGR C90 17.8 17.3 200 cd/m² 65° <





0.66 UGR CO UGR C90 20.3 19.8 200 cd/m²

65° <

65° <

65° <

65° <

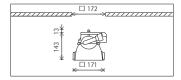




0.66 UGR CO UGR C90 22.8 224 200 cd/m²

37400.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D 日本







0.66 UGR CO 17.8 UGR C90 17.3 200 cd/m²





0.66 UGR CO 20.3 UGR C90 198 200 cd/m²





0.66 UGR CO 22.8 UGR C90 22.4 200 cd/m² 65° <

Number of luminaires per 100m ² for						
		100lx	200lx	300lx	500lx	
36447.000	20 W	10	20	29	48	
36447.000	35 W	5	10	14	24	
36447.000	70 W	3	5	7	12	
37401.000	20 W	10	20	29	48	
37401.000	35 W	5	10	14	24	
37401.000	70 W	3	5	7	12	
36450.000	35 W	5	10	14	23	
36450.000	70 W	3	5	7	11	
37404.000	35 W	5	10	14	23	
37404.000	70 W	3	5	7	11	
36446.000	20 W	9	18	26	43	
36446.000	35 W	5	9	13	21	
36446.000	70 W	2	4	6	10	
37400.000	20 W	9	18	26	43	
37400.000	35 W	5	9	13	21	

2

Illuminance	E _n (Ix) to				
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36447.000	20 W	482	322	241	181
36447.000	35 W	993	662	497	372
36447.000	70 W	-	1390	1043	782
37401.000	20 W	482	322	241	181
37401.000	35 W	993	662	497	372
37401.000	70 W	-	1390	1043	782
36450.000	35 W	1021	681	510	383
36450.000	70 W	-	1420	1065	799
37404.000	35 W	1021	681	510	383
37404.000	70 W	-	1420	1065	799
36446.000	20 W	540	360	270	203
36446.000	35 W	1112	741	556	417
36446.000	70 W	-	1544	1158	869
37400.000	20 W	540	360	270	203
37400.000	35 W	1112	741	556	417
37400.000	70 W	-	1544	1158	869

Connected load without control gear 36447.000 35 W 70 W 36447.000 36447.000 37401.000 20 W 37401.000 35 W 37401.000 70 W 36450.000 35 W 36450.000 70 W 37404.000 37404.000 70 W 36446.000 20 W 36446.000 35 W 36446.000 P: P: 70 W 37400 000 20 W 37400.000 35 W 37400.000 70 W

70 W

37400.000

Connected load per 100lx without control gear 36447.000 1.92 W/m² 1.63 W/m² 1.55 W/m² 36447.000 36447.000 37401.000 1.92 W/m² 37401.000 1.63 W/m² 37401.000 1.55 W/m² 36450.000 1.59 W/m² 36450.000 1.52 W/m² 37404.000 1.59 W/m² 37404.000 1.52 W/m² 1.71 W/m² 36446.000 36446.000 1.46 W/m² 36446.000 1.40 W/m² 37400 000 171 W/m² 37400.000 1.46 W/m 37400.000 1.40 W/m²

10

Number of luminaires per 100lx 36447.000 9.60 1/100m²

36447.000

4.66 1/100m² 2.22 1/100m² 36447.000 37401.000 9.60 1/100m² 37401.000 4.66 1/100m² 37401.000 2.22 1/100m² 36450.000 4.54 1/100m² 36450.000 2.17 1/100m² 37404.000 4.54 1/100m² 37404.000 2.17 1/100m² 36446.000 8.57 1/100m² 36446.000 4.16 1/100m² 36446.000 2.00 1/100m² 37400 000 8.57 1/100m² 37400.000 4.16 1/100m² 37400.000 2.00 1/100m²

653







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm.

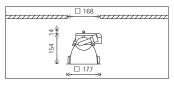
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°. Control gear to be ordered separately.

Accessories page 677

36449.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.75kg LMF D 日本







LOR 0.59 UGR CO 17.1 UGR C90 17.2 65° < 200 cd/m²





LOR 0.59 UGR CO 19.6 UGR C90 19.7 65° < 200 cd/m²

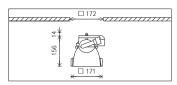




LOR 0.59 UGR CO 22.1 UGR C90 22.2 65° < 200 cd/m²

37403.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D 日本







LOR 0.59 UGR CO 17.1 UGR C90 17.2 65° < 200 cd/m²





LOR 0.59 UGR CO 19.6 UGR C90 19.7 65° < 200 cd/m²

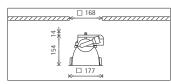




LOR 0.59 UGR CO 22.1 UGR C90 22.2 65° < 200 cd/m²

36451.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.75kg LMF D 日本







LOR 0.61 UGR CO 19.1 UGR C90 19.0 65° < 200 cd/m²

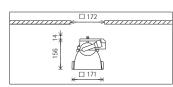




LOR 0.60 UGR CO 21.6 UGR C90 21.6 65° < 200 cd/m²

37405.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.75kg LMF D 日本







LOR 0.61 UGR CO 19.1 UGR C90 19.0 65° < 200 cd/m²

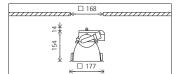




LOR 0.60 UGR CO 21.6 UGR C90 21.6 65° < 200 cd/m²

36448.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.75kg LMF D 日本







UGR C0 UGR C90 15.8 15.5 65° < 200 cd/m²





0.65 UGR C0 UGR C90 18.3 18.1 200 cd/m²

65° <

65° <

65° <

65° <

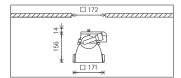




0.66 UGR C0 UGR C90 20.7 20.4 200 cd/m²

37402.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D 日本







0.65 UGR CO 15.8 UGR C90 15.5 200 cd/m²





0.65 UGR CO 18.3 UGR C90 18 1 200 cd/m²





0.66 UGR CO 20.7 UGR C90 20.4 65° < 200 cd/m²

Number of luminaires per 100m ² for							
		100lx	200lx	300lx	500lx		
36449.000	20 W	10	20	29	48		
36449.000	35 W	5	10	14	24		
36449.000	70 W	3	5	7	12		
37403.000	20 W	10	20	29	48		
37403.000	35 W	5	10	14	24		
37403.000	70 W	3	5	7	12		
36451.000	35 W	5	9	14	23		
36451.000	70 W	3	5	7	11		
37405.000	35 W	5	9	14	23		
37405.000	70 W	3	5	7	11		
36448 000	20 W	9	18	26	44		

9

18

Illuminance E _n (lx) for module (m)					
		1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36449.000	20 W	484	323	242	181
36449.000	35 W	996	664	498	373
36449.000	70 W	-	1376	1032	774
37403.000	20 W	484	323	242	181
37403.000	35 W	996	664	498	373
37403.000	70 W	-	1376	1032	774
36451.000	35 W	1032	688	516	387
36451.000	70 W	-	1398	1048	786
37405.000	35 W	1032	688	516	387
37405.000	70 W	-	1398	1048	786
36448.000	20 W	537	358	268	201
36448.000	35 W	1105	737	552	414
36448.000	70 W	-	1550	1163	872
37402.000	20 W	537	358	268	201
37402.000	35 W	1105	737	552	414
37402.000	70 W	-	1550	1163	872

Connected Ic	ad	
without cont	rol gea	r
36449.000	P:	20 W
36449.000	P:	35 W
36449.000	P:	70 W
37403.000	P:	20 W
37403.000	P:	35 W
37403.000	P:	70 W
36451.000	P:	35 W
36451.000	P:	70 W
37405.000	P:	35 W
37405.000	P:	70 W
36448.000	P:	20 W
36448.000	P:	35 W
36448.000	P:	70 W
37402.000	P:	20 W
37402.000	P:	35 W
37402.000	P:	70 W

70 W

20 W

70 W

36448.000 36448 000

37402.000

37402.000

37402.000

Connected I	oad per 1	100lx
without con	trol gear	
36449.000	P*:	1.91 W/m ²
36449.000	P*:	1.63 W/m ²
36449.000	P*:	1.57 W/m ²
37403.000	P*:	1.91 W/m ²
37403.000	P*:	1.63 W/m ²
37403.000	P*:	1.57 W/m ²
36451.000	P*:	1.57 W/m ²
36451.000	P*:	1.55 W/m ²
37405.000	P*:	1.57 W/m ²
37405.000	P*:	1.55 W/m ²
36448.000	P*:	1.72 W/m ²
36448.000	P*:	1.47 W/m ²
36448.000	P*:	1.39 W/m ²
37402.000	P*:	1.72 W/m ²
37402.000	P*:	1.47 W/m ²
37402.000	P*:	1.39 W/m ²

21 10

44

10

13

6

26

13

Number of fulf	IIIIaiics	per rootx
36449.000	n*:	9.57 1/100m ²
36449.000	n*:	4.65 1/100m ²
36449.000	n*:	2.24 1/100m ²
37403.000	n*:	9.57 1/100m ²
37403.000	n*:	4.65 1/100m ²
37403.000	n*:	2.24 1/100m ²
36451.000	n*:	4.49 1/100m ²
36451.000	n*:	2.21 1/100m ²
37405.000	n*:	4.49 1/100m ²
37405.000	n*:	2.21 1/100m ²
36448.000	n*:	8.62 1/100m ²
36448.000	n*:	4.19 1/100m ²

1.99 1/100m² 8.62 1/100m²

4.19 1/100m²

36448.000

37402.000 37402.000

37402.000

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Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

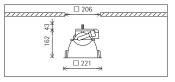
mounting detail.
Cable with plug, L 500mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised.
Darklight reflector: aluminium, satin-

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Control gear to be ordered separately.

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36453.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.95kg LMF D 日本







LOR 0.64 UGR CO 17.6 UGR C90 17.5 65° < 200 cd/m²





LOR 0.64 UGR CO 20.1 UGR C90 20.0 65° < 200 cd/m²





LOR 0.66 UGR CO 22.6 UGR C90 22.6 65° < 200 cd/m²

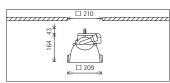




LOR 0.62 UGR CO 25.1 UGR C90 25.1 65° < 200 cd/m²

37407.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本





















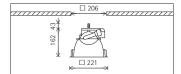




LOR 0.62 UGR CO 25.1 UGR C90 25.1 65° < 200 cd/m²

36456.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.95kg LMF D 日本







UGR C0 UGR C90 19.0 18.8 200 cd/m² 65° <





0.65 UGR CO UGR C90 21.7 21.5 65° < 200 cd/m²



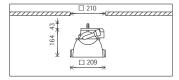


0.62 UGR CO UGR C90 24.1 23.9 200 cd/m²

65° <

37410.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.95kg LMF D 日本



HIT-CE



0.65 UGR CO 19.0 UGR C90 18.8 200 cd/m² 65° <





0.65 UGR CO 21.7 UGR C90 215 200 cd/m² 65° <

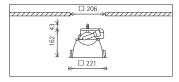




LOR 0.62 UGR CO 24.1 UGR C90 23.9 200 cd/m² 65° <

36452.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.95kg LMF D 日本



HIT-CE



LOR 0.71 UGR CO 16.3 UGR C90 159 200 cd/m² 65° <





0.71 UGR CO 18.8 UGR C90 184 200 cd/m² 65° <





0.71 UGR CO 21.3 UGR C90 21.0 200 cd/m² 65° <





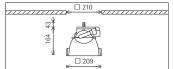
LOR 0.68 UGR CO 23.9 UGR C90 23.6 200 cd/m^2 65° <

657

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37406.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.95kg LMF D 日本







UGR CO UGR C90 65° <

16.3 15.9 200 cd/m²





LOR 0.71 UGR CO 18.8 UGR C90 18.4 65° < 200 cd/m²





LOR 21.3 21.0 UGR CO LIGR C90 65° < 200 cd/m²





0.68 UGR CO 23.9 UGR C90 23.6 200 cd/m² 65° <

Number of luminaires per 100m ² for							
		100lx	200lx	300lx	500lx		
36453.000	20 W	9	18	27	45		
36453.000	35 W	5	9	14	22		
36453.000	70 W	2	5	7	11		
36453.000	150 W	2	3	4	6		
37407.000	20 W	9	18	27	45		
37407.000	35 W	5	9	14	22		
37407.000	70 W	2	5	7	11		
37407.000	150 W	2	3	4	6		
36456.000	35 W	5	9	13	22		
36456.000	70 W	2	5	7	11		
36456.000	150 W	1	3	4	6		
37410.000	35 W	5	9	13	22		
37410.000	70 W	2	5	7	11		
37410.000	150 W	1	3	4	6		
36452.000	20 W	8	17	25	41		
36452.000	35 W	4	8	12	20		
36452.000	70 W	2	4	6	10		
36452.000	150 W	1	2	3	5		
37406.000	20 W	8	17	25	41		
37406.000	35 W	4	8	12	20		

Connected I	oad	
without con	trol ge	ar
36453.000	P:	20 W
36453.000	P:	35 W
36453.000	P:	70 W
36453.000	P:	150 W
37407.000	P:	20 W
37407.000	P:	35 W
37407.000	P:	70 W
37407.000	P:	150 W
36456.000	P:	35 W
36456.000	P:	70 W
36456.000	P:	150 W
37410.000	P:	35 W
37410.000	P:	70 W
37410.000	P:	150 W
36452.000	P:	20 W
36452.000	P:	35 W
36452.000	P:	70 W
36452.000	P:	150 W
37406.000	P:	20 W
37406.000	P:	35 W
37406.000	P:	70 W

70 W

150 W

37406.000

37406.000

37406.000

Connected lo	ad per	100lx	Number of luminaires per 100lx
without cont			
36453.000	P*:	1.79 W/m ²	36453.000 n*: 8.97 1/1
36453.000	P*:	1.53 W/m ²	36453.000 n*: 4.36 1/1
36453.000	P*:	1.43 W/m ²	36453.000 n*: 2.05 1/1
36453.000	P*:	1.58 W/m ²	36453.000 n*: 1.05 1/1
37407.000	P*:	1.79 W/m ²	37407.000 n*: 8.97 1/1
37407.000	P*:	1.53 W/m ²	37407.000 n*: 4.36 1/1
37407.000	P*:	1.43 W/m ²	37407.000 n*: 2.05 1/1
37407.000	P*:	1.58 W/m ²	37407.000 n*: 1.05 1/1
36456.000	P*:	1.48 W/m ²	36456.000 n*: 4.23 1/1
36456.000	P*:	1.42 W/m ²	36456.000 n*: 2.03 1/1
36456.000	P*:	1.57 W/m ²	36456.000 n*: 1.04 1/1
37410.000	P*:	1.48 W/m ²	37410.000 n*: 4.23 1/1
37410.000	P*:	1.42 W/m ²	37410.000 n*: 2.03 1/1
37410.000	P*:	1.57 W/m ²	37410.000 n*: 1.04 1/1
36452.000	P*:	1.61 W/m ²	36452.000 n*: 8.04 1/1
36452.000	P*:	1.37 W/m ²	36452.000 n*: 3.91 1/1
36452.000	P*:	1.30 W/m ²	36452.000 n*: 1.86 1/1
36452.000	P*:	1.43 W/m ²	36452.000 n*: 0.95 1/1
37406.000	P*:	1.61 W/m ²	37406.000 n*: 8.04 1/1
37406.000	P*:	1.37 W/m ²	37406.000 n*: 3.91 1/1
37406.000	P*:	1.30 W/m ²	37406.000 n*: 1.86 1/1

37406.000 P*: 1.43 W/m²

10

36453.000	n*:	8.97 1/100m ²
36453.000	n*:	4.36 1/100m ²
36453.000	n*:	2.05 1/100m ²
36453.000	n*:	1.05 1/100m ²
37407.000	n*:	8.97 1/100m ²
37407.000	n*:	4.36 1/100m ²
37407.000	n*:	2.05 1/100m ²
37407.000	n*:	1.05 1/100m ²
36456.000	n*:	4.23 1/100m ²
36456.000	n*:	2.03 1/100m ²
36456.000	n*:	1.04 1/100m ²
37410.000	n*:	4.23 1/100m ²
37410.000	n*:	2.03 1/100m ²
37410.000	n*:	1.04 1/100m ²
36452.000	n*:	8.04 1/100m ²

37406.000

3.91 1/100m²

1.86 1/100m²

0.95 1/100m²

8.04 1/100m²

3.91 1/100m²

1.86 1/100m²

0.95 1/100m²

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Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

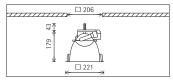
mounting detail.
Cable with plug, L 500mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodiced

Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 40°. Control gear to be ordered separately.

Accessories page 677

36455.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.









LOR 0.65 UGR CO 16.0 UGR C90 16.1 65° < 200 cd/m²

UGR CO

UGR C90

65° <





0.65 18.5 18.6 200 cd/m²





LOR 0.65 UGR CO 21.0 UGR C90 21.1 65° < 200 cd/m²

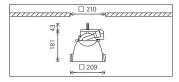




LOR 0.62 UGR CO 23.5 UGR C90 23.6 65° < 200 cd/m²

37409.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 1.05kg LMF D 日本

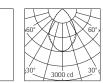


HIT-CE



LOR 0.65 UGR CO 16.0 UGR C90 16.1 65° < 200 cd/m²





LOR 0.65 UGR CO 18.5 UGR C90 18.6 65° < 200 cd/m²





LOR 0.65 UGR CO 21.0 UGR C90 21.1 65° < 200 cd/m²





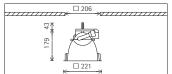
LOR 0.62 UGR CO 23.5 UGR C90 23.6 65° < 200 cd/m²

659

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36457.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 1.05kg LMF D 日本







LOR 0.65 UGR CO 17.4 UGR C90 17.3 65° < 200 cd/m²





LOR 0.65 UGR CO 20.0 UGR C90 20.0 65° < 200 cd/m²

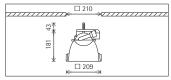




LOR 0.61 UGR CO 22.4 UGR C90 22.4 65° < 200 cd/m²

37411.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 1.05kg LMF D 日本







LOR 0.65 UGR CO 17.4 UGR C90 17.3 65° < 200 cd/m²





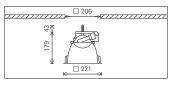
LOR 0.65 UGR CO 20.0 UGR C90 20.0 65° < 200 cd/m²





LOR 0.61 UGR CO 22.4 UGR C90 22.4 65° < 200 cd/m²

36454.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted. Covered mounting detail Weight 1.05kg LMF D 日本







LOR 0.70 UGR CO 14.6 UGR C90 14.4 65° < 200 cd/m²





LOR 0.70 UGR CO 17.1 UGR C90 16.9 65° < 200 cd/m²





LOR 0.71 UGR CO 19.5 UGR C90 19.4 65° < 200 cd/m²

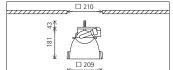




LOR 0.67 UGR CO 22.1 UGR C90 22.0 65° < 200 cd/m²

37408.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 1.05kg LMF D 日本







UGR C0 UGR C90 14.6 14.4 200 cd/m²

65° <

65° <

UGR CO

UGR C90

65° <





0.70 UGR CO UGR C90 17.1 16.9 200 cd/m² 65° <





0.71 UGR CO UGR C90 19.5 194 200 cd/m²





0.67 22.1 22.0 200 cd/m²

Number of Iu	ıminaires pe	er 100m²	for			
		100lx	200lx	300lx	500lx	
36455.000	20 W	9	18	27	44	
36455.000	35 W	5	9	13	22	
36455.000	70 W	2	5	7	11	
36455.000	150 W	1	3	4	6	
37409.000	20 W	9	18	27	44	
37409.000	35 W	5	9	13	22	
37409.000	70 W	2	5	7	11	
37409.000	150 W	1	3	4	6	
36457.000	35 W	5	9	13	22	
36457.000	70 W	2	5	7	11	
36457.000	150 W	1	3	4	6	
37411.000	35 W	5	9	13	22	
37411.000	70 W	2	5	7	11	
37411.000	150 W	1	3	4	6	
36454.000	20 W	8	16	24	40	
36454.000	35 W	4	8	12	20	
36454.000	70 W	2	4	6	10	
36454.000	150 W	1	2	3	5	
37408.000	20 W	8	16	24	40	
37408.000	35 W	4	8	12	20	
37408.000	70 W	2	4	6	10	
37408 000	150 W	1	2	3	5	

Connected Ic	oad		
without cont	trol ge	ar	
36455.000	P:	20 W	
36455.000	P:	35 W	
36455.000	P:	70 W	
36455.000	P:	150 W	
37409.000	P:	20 W	
37409.000	P:	35 W	
37409.000	P:	70 W	
37409.000	P:	150 W	
36457.000	P:	35 W	
36457.000	P:	70 W	
36457.000	P:	150 W	
37411.000	P:	35 W	
37411.000	P:	70 W	
37411.000	P:	150 W	
36454.000	P:	20 W	
36454.000	P:	35 W	
36454.000	P:	70 W	
36454.000	P:	150 W	
37408.000	P:	20 W	
37408.000	P:	35 W	
37408.000	P:	70 W	

37408.000

P:

150 W

Connected load per 100lx without control gear 36455.000 P*: 1.76 W/m² 36455.000 1.50 W/m² 36455.000 1.43 W/m² 36455 000 1.57 W/m² 37409.000 1.76 W/m² 37409.000 1.50 W/m² 37409.000 1.43 W/m² 37409.000 1.57 W/m² 36457.000 1.48 W/m² 36457.000 1.42 W/m² 36457.000 1.56 W/m² 37411.000 1.48 W/m² 1.42 W/m² 37411.000 37411.000 1.56 W/m² 36454.000 1.60 W/m² 36454.000 1.36 W/m² 36454.000 1.29 W/m² 36454.000 1.43 W/m² 37408.000 1.60 W/m² 37408.000 1.36 W/m² 37408.000 1.29 W/m²

1.43 W/m²

Number of luminaires per 100lx 8.79 1/100m² 36455.000 36455.000 4.28 1/100m² 36455.000 2.04 1/100m² 36455 000 1.05 1/100m² 37409.000 8.79 1/100m² 37409.000 4.28 1/100m² 37409.000 2.04 1/100m² 37409.000 1.05 1/100m² 36457.000 4.22 1/100m² 36457.000 2.03 1/100m² 36457.000 1.04 1/100m² 37411.000 4.22 1/100m² 37411.000 2.03 1/100m² 37411.000 1.04 1/100m² 36454.000 8.00 1/100m² 36454.000 3.89 1/100m² 36454.000 1.85 1/100m² 36454.000 0.96 1/100m² 37408.000 8.00 1/100m² 37408.000 3.89 1/100m²

1.85 1/100m²

0.96 1/100m²

661

37408.000

37408.000

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37408.000







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 750mm.

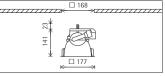
Spherolit technology upper reflector: aluminium, silver, mirror-finish anodised. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°.

Control gear to be ordered separately.

Accessories page 677

36501.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.

Covered mounting detail Weight 0.75kg LMF D







LOR 0.55 UGR CO 19.6 UGR C90 19.5 65° < 200 cd/m²

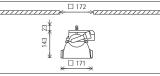




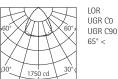
LOR 0.48 UGR CO 21.6 UGR C90 21.6 65° < 200 cd/m²

37513.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D







0.55 C0 19.6 C90 19.5 < 200 cd/m²

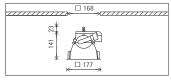




LOR 0.48 UGR CO 21.6 UGR C90 21.6 65° < 200 cd/m²

36504.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Covered mounting detail Weight 0.75kg LMF D







LOR 0.56 UGR CO 19.0 UGR C90 18.7 65° < 200 cd/m²

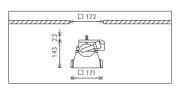




LOR 0.49 UGR CO 21.1 UGR C90 20.9 65° < 200 cd/m²

37516.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.

Flush mounting detail Weight 0.75kg LMF D









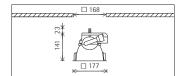




LOR 0.49 UGR CO 21.1 UGR C90 20.9 65° < 200 cd/m²

36500.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.75kg LMF D







LIGR CO 187 UGR C90 18.1 200 cd/m²

65° <

UGR CO

65° <

LIGR C90

2.4x2.4

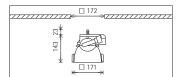
233

HST



0.53 UGR CO 20.9 UGR C90 20.4 200 cd/m² 65° <

37512.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Narrow diffuser: glass, frosted. Flush mounting detail Weight 0.75kg LMF D







0.61 18.7 18 1 200 cd/m²





0.53 UGR CO 20.9 UGR C90 20.4 65° < 200 cd/m²

lumber	of	luminai	res	per	100m ²	for	
					1001	2	

		100lx	200lx	300lx	500lx
36501.000	50 W	8	15	23	38
36501.000	100 W	5	9	13	22
37513.000	50 W	8	15	23	38
37513.000	100 W	5	9	13	22
36504.000	50 W	8	15	22	36
36504.000	100 W	5	9	13	21
37516.000	50 W	8	15	22	36
37516.000	100 W	5	9	13	21
36500.000	50 W	7	14	20	34
36500.000	100 W	4	8	12	19
37512.000	50 W	7	14	20	34
37512.000	100 W	4	8	12	19

Illuminance En (lx) for module (m) 1.2x1.8 1.8x2.4 36501 000 50 W 623 415 311 36501.000 100 W 1095 730 37513.000 50 W 623 37513.000 100 W 1095 730 36504 000 50 W 644 430 36504.000 100 W 1131 754

411 548 311 233 411 322 242 565 424 37516.000 50 W 644 430 322 242 37516.000 100 W 1131 754 565 424 36500.000 50 W 695 463 348 261 36500.000 100 W 1231 821 615 462 50 W 37512.000 261 37512.000 100 W 1231 821 615 462



Connected load per 100b without control gear 36501.000 3.72 W/m² 4.23 W/m² 3.72 W/m² 36501.000 37513.000 4.23 W/m² 37513.000 36504.000 3.59 W/m² 36504 000 4 09 W/m² 37516.000 3.59 W/m² 37516.000 4.09 W/m² 36500.000 3.33 W/m² 36500 000 3.76 W/m² 37512.000 3.33 W/m² 37512.000 3.76 W/m² Number of luminaires per 100lx 36501.000 7.44 1/100m² 36501.000 4.23 1/100m² 7.44 1/100m² 37513.000 4.23 1/100m² 37513.000 36504.000 7.19 1/100m² n*: n*: 36504 000 4.09 1/100m² 37516.000 7.19 1/100m² 37516.000 4.09 1/100m² 36500.000 6.66 1/100m² 36500 000 3.76.1/100m² 37512.000 6.66 1/100m²

3.76 1/100m²







Lampholder carrier: cast aluminium, designed as heat sink. Fixing frame: plastic, black.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

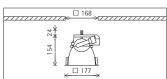
Cable with plug, L 750mm.
Spherolit technology upper reflector: aluminium, silver, mirror-finish anod-Darklight reflector: aluminium, satin-

matt anodised. Cut-off angle 40° Control gear to be ordered separately. Accessories page 677

37512.000

36503.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.









LOR 0.55 UGR CO 18.1 UGR C90 18.1 200 cd/m² 65° <



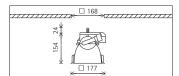


LOR 0.47 UGR CO 20.1 UGR C90 20.2 200 cd/m² 65° <

37515.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Wide diffuser: glass, frosted.	Flush mounting detail Weight 0.75kg LMF D	25 172 ×2111111111111111111111111111111111	HST	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°	LOR UGR CO UGR C90 65° <	0.55 18.1 18.1 200 cd/m ²
			HST	60° 60°,	LOR UGR CO UGR C90 65° <	0.47 20.1 20.2 200 cd/m ²
36505.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.	Covered mounting detail Weight 0.75kg LMF D	27 168 In 1777	HST	60° 60°,	LOR UGR CO UGR C90 65° <	0.56 17.5 17.3 200 cd/m ²
			HST	60° 60°,	LOR UGR CO UGR C90 65° <	0.48 19.5 19.4 200 cd/m ²
37517.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Focal diffuser: glass, frosted, with clear centre to increase the brilliance at the centre of the beam.	Flush mounting detail Weight 0.75kg LMF D	172 951 171	HST	60°, 60°, 30°, 2500 cd 30°,	LOR UGR CO UGR C90 65° <	0.56 17.5 17.3 200 cd/m ²
				60°	LOR UGR CO UGR C90 65° <	0.48 19.5 19.4 200 cd/m ²

36502.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Narrow diffuser: glass, frosted.

Covered mounting detail Weight 0.75kg LMF D







UGR C0 UGR C90 16.8 16.5 200 cd/m²

65° <

UGR C0 UGR C90

65° <

65° <

UGR CO

65° <

UGR C90

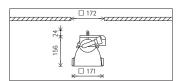




0.52 18.9 18.7 200 cd/m²

37514.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Narrow diffuser: glass, frosted.

Flush mounting detail Weight 0.75kg LMF D







0.60 UGR C0 UGR C90 16.8 165 200 cd/m²





0.52 18.9 18.7 200 cd/m²

665

Number of Iu	uminaires pe	er 100m²	for		
		100lx	200lx	300lx	500lx
36503.000	50 W	8	15	22	37
36503.000	100 W	5	9	13	22
37515.000	50 W	8	15	22	37
37515.000	100 W	5	9	13	22
36505.000	50 W	8	15	22	36
36505.000	100 W	5	9	13	21
37517.000	50 W	8	15	22	36
37517.000	100 W	5	9	13	21
36502.000	50 W	7	14	20	33
36502.000	100 W	4	8	12	19
37514.000	50 W	7	14	20	33
37514.000	100 W	4	8	12	19

Illuminance E_n (lx) for module (m) 1.2x1.8 2.4x2.4 36503.000 50 W 635 423 317 238 36503.000 100 W 1097 731 548 411 37515.000 50 W 423 317 238 635 37515.000 100 W 1097 731 411 36505.000 325 50 W 651 434 244 36505.000 100 W 756 1134 567 425 37517.000 651 434 325 37517.000 100 W 1134 756 567 425 36502.000 703 469 352 264 50 W 36502.000 100 W 1235 823 618 463 37514.000 50 W 37514.000 100 W 1235 823 618 463

Connected lo			
without cont	trol ge	ar	
36503.000	P:	50 W	
36503.000	P:	100 W	
37515.000	P:	50 W	
37515.000	P:	100 W	
36505.000	P:	50 W	
36505.000	P:	100 W	
37517.000	P:	50 W	
37517.000	P:	100 W	
36502.000	P:	50 W	
36502.000	P:	100 W	
37514.000	P:	50 W	
37514.000	P:	100 W	

Connecteu	ioau pei	IUUIX	
without cor	ntrol gear		
36503.000	P*:	3.65 W/m ²	
36503.000	P*:	4.22 W/m ²	
37515.000	P*:	3.65 W/m ²	
37515.000	P*:	4.22 W/m ²	
36505.000	P*:	3.56 W/m ²	
36505.000	P*:	4.08 W/m ²	
37517.000	P*:	3.56 W/m ²	
37517.000	P*:	4.08 W/m ²	
36502.000	P*:	3.29 W/m ²	
36502.000	P*:	3.75 W/m ²	
37514.000	P*:	3.29 W/m ²	
37514.000	P*:	3.75 W/m ²	

Nui	mber of lu	minaires	per 100lx
365	503.000	n*:	7.29 1/100m ²
365	503.000	n*:	4.22 1/100m ²
375	515.000	n*:	7.29 1/100m ²
375	15.000	n*:	4.22 1/100m ²
365	505.000	n*:	7.11 1/100m ²
365	505.000	n*:	4.08 1/100m ²
375	17.000	n*:	7.11 1/100m ²
375	17.000	n*:	4.08 1/100m ²
365	502.000	n*:	6.58 1/100m ²
365	502.000	n*:	3.75 1/100m ²
375	14.000	n*:	6.58 1/100m ²
375	14.000	n*:	3.75 1/100m ²

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Quintessence Lens wallwasher for metal halide lamps





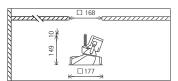


Lampholder carrier: cast aluminium, designed as heat sink. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.
Cable with plug, L 500mm.
Wallwasher reflector: aluminium, satinmatt anodised. Cut-off angle 50°. Upper side with wallwasher lens. Control gear to be ordered separately.

Accessories page 678

36436.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm

Covered mounting detail Weight 0.65kg LMF D 日本





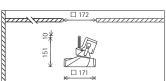
Mean illuminance E_n (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m)
Illuminance E_n (lx) 0.90 1.20 1.20 1.50



white







Mean illuminance E_n (Ix)

Wall height (m) 0.90 1.20 1.20 1.50 1.20 1.20 1.50 1.50 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)



Mean illuminance E_n (Ix) Wall height (m) 3.0 Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) 151 115 90 72

Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m) Luminaire spacing (m) 0.90 1.20 1.20 1.50 1.20 1.20 1.50 1.50 Illuminance E_n (Ix) 223 192 155 130



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Quintessence Lens wallwasher for metal halide lamps



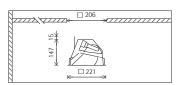




Housing: metal, black powder-coated. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm. Wallwasher reflector: aluminium, satinmatt anodised. Cut-off angle 50°. Upper side with wallwasher lens. Control gear to be ordered separately. Accessories page 678

36525.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Covered mounting detail Weight 1.10kg LMF D 日本











 Mean illuminance E_n (lx)

 Wall height (m)
 6.0

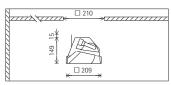
 Offset from wall (m)
 1.20
 1.50
 1.50
 1.80

 Luminaire spacing (m)
 1.50
 1.50
 1.80
 1.80

 Illuminance E_n (lx)
 309
 282
 238
 215

37511.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Flush mounting detail Weight 1.10kg LMF D 日本





Mean illuminance En	(lx)			
Wall height (m)	3.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (lx)	195	148	119	96







Mean illuminance E_n (lx)			
Wall height (m)	6.0			
Offset from wall (m)	1.20	1.50	1.50	1.80
Luminaire spacing (m)	1.50	1.50	1.80	1.80
Illuminance E _n (lx)	309	282	238	215

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Quintessence Focal lens wallwasher for metal halide lamps

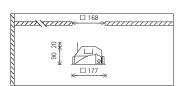




Size 5
Housing: metal, black powder-coated.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.
Cable with plug, L 500mm.
Wallwasher reflector: aluminium, satinmatt anodised. Vertical diffuser as
safety glass.
Control gear to be ordered separately.
Accessories page 678

36435.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white

Covered mounting detail Weight 0.65kg LMF D 日本





Mean illuminance E_n (lx)
Wall height (m)

 Wall height (m)
 3.0

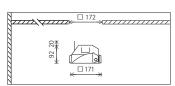
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance En (ix)
 190
 146
 128
 104



Flush mounting detail Weight 0.65kg LMF D 日本





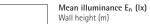
Mean illuminance E_n (Ix)

 Wall height (m)
 4.0

 Offset from wall (m)
 1.20
 1.20
 1.50
 1.50

 Luminaire spacing (m)
 1.20
 1.50
 1.80

 Illuminance E_n (lx)
 234
 191
 173
 146



 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance E_n (lx)
 190
 146
 128
 104



HIT-TC-CE

$\begin{array}{lll} \mbox{Mean illuminance } E_n \mbox{ (lx)} \\ \mbox{Wall height (m)} & 4.0 \\ \mbox{Offset from wall (m)} & 1.20 & 1.20 & 1 \end{array}$

 Walning (m)
 1.20
 1.20
 1.50
 1.50

 Uminaire spacing (m)
 1.20
 1.50
 1.50
 1.80

 Illuminance E_n (lx)
 234
 191
 173
 146

Quintessence Focal lens wallwasher for metal halide lamps

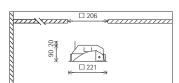




Size 7
Housing: metal, black powder-coated.
Mounting frame: plastic, white
(RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush
mounting detail.
Cable with plug, L 500mm.
Wallwasher reflector: aluminium, satinmatt anodised. Vertical diffuser as
safety glass.
Control gear to be ordered separately.
Accessories page 678

36524.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Covered mounting detail Weight 1.00kg LMF D 日本





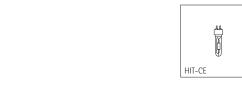
 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50

 Illuminance E_n (ix)
 252
 169
 137





Mean illuminance E_n (Ix)



 Mean illuminance En (lx)

 Wall height (m)
 6.0

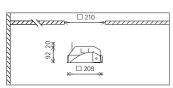
 Offset from wall (m)
 1.50
 1.50
 1.80

 Luminaire spacing (m)
 1.50
 1.50
 1.80

 Illuminance En (lx)
 335
 335
 270

37510.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm

Flush mounting detail Weight 1.00kg LMF D 日本





Mean illuminance En (lx)		
Wall height (m)	3.0		
Offset from wall (m)	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.50
Illuminance En (lx)	252	169	137







x)		
6.0		
1.50	1.50	1.80
1.50	1.50	1.80
335	335	270
	6.0 1.50 1.50	•

669

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Quintessence Directional luminaire for metal halide lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360°

rotation.

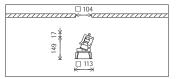
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush requiring detail.

ing detail and 12.5-25mm with must mounting detail. Cable with plug, L 500mm. Darklight reflector: aluminium, satin-matt anodised, with upper Softec lens. Cut-off angle 30°.

Control gear to be ordered separately. Accessories page 678

36440.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Covered mounting detail Weight 0.58kg LMF D 日本







h(m) E(Ix) D(m) 17° 0.30 4725 1181 0.60 525 0.90 295 1.20 189 1.49

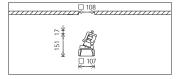






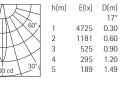
37453.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Flush mounting detail Weight 0.58kg LMF D 日本













E(Ix) D(m) h(m) 2492 0.50 1.00 623 277 1.50 156 1.99 100 2.49

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Quintessence Directional luminaire with shadow gap for metal halide lamps







Size 4 Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation.

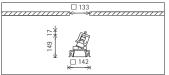
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thick-nesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Peripheral shadow gap: plastic, black. Darklight reflector: aluminium, satinmatt anodised, with upper Softec lens. Reflector size 3, cut-off angle 30°.

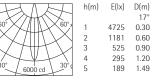
Control gear to be ordered separately. Accessories page 678

36441.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

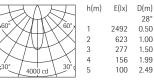






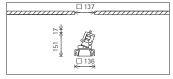




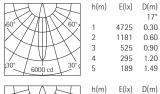


37454.000 Reflector silver HIPAR51-CE-P 20W GX10 12° HIPAR51-CE-P 20W GX10 25°

Flush mounting detail Weight 0.68kg LMF D 日本







1.20

28°

0.50

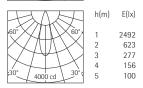
1.00

1.50

1.99

2.49





Quintessence Directional luminaire for metal halide lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm.

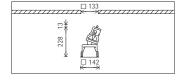
Reflector: aluminium, anodised, mirror-finish. Safety glass. Darklight reflector: aluminium, satin-

matt anodised, with upper Softec lens. Cut-off angle 40°.

Control gear to be ordered separately. Accessories page 678

36425.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm Spherolit reflector, spot

Covered mounting detail Weight 0.92kg LMF D 日本













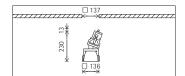
h(m)	E(Ix)	D(m)
		20°
1	9192	0.35
2	2298	0.71
3	1021	1.06
4	575	1.41
5	368	1.76

671

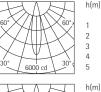
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Quintessence Directional luminaire for metal halide lamps

37438.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot Flush mounting detail Weight 0.92kg LMF D 日本







(m) E(lx) D(m)
20°
4437 0.35
1109 0.71
493 1.06
277 1.41
177 1.76

E(Ix) D(m)

HIT-TC-CE

60° 60°,

20°
1 9192 0.35
2 2298 0.71
3 1021 1.06
4 575 1.41
5 368 1.76

D(m)

0.50

1.50

1 99

2.49

D(m)

0.50

1.00

36427.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood Covered mounting detail Weight 0.92kg LMF D 日本

HIT-TC-CE

h(m) E(lx)
60° 1 2031
2 508
3 226
4 127
5 81

HIT-TC-CE

60° 60°,

 h(m)
 E(Ix)
 D(m)

 29°
 0.52

 2
 1085
 1.03

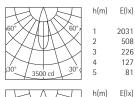
 3
 482
 1.55

 4
 271
 2.07

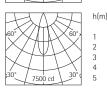
 5
 174
 2.59

37440.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood Flush mounting detail Weight 0.92kg LMF D 日本

137 2137 02 02 0136 HIT-TC-CE



HIT-TC-CE



3 226 1.50 4 127 1.99 5 81 2.49 h(m) E(lx) D(m) 29° 1 4340 0.52 2 1085 1.03

> 482 1.55 271 2.07

174 2.59

Quintessence Directional luminaire with shadow gap for metal halide lamps







Size 5
Housing: metal, black powder-coated.
Lampholder carrier: cast aluminium,
designed as heat sink, 0°-20° tilt, 360°
rotation. Lockable angles of tilt and
rotation.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm.

Peripheral shadow gap: plastic, black.

Reflector: aluminium, anodised, mirror-

finish. Safety glass.

Darklight reflector: aluminium, satinmatt anodised, with upper Softec lens. Reflector size 4, cut-off angle 40°. Control gear to be ordered separately. Accessories page 678

36426.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, spot Covered mounting detail Weight 1.05kg LMF D 日本

168 168 177 177



HIT-TC-CE



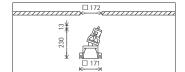


h(m) E(lx) D(m) 20°
1 4437 0.35
2 1109 0.71
3 493 1.06
4 277 1.41
5 177 1.76
h(m) E(lx) D(m)

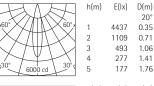
20°
1 9192 0.35
2 2298 0.71
3 1021 1.06
4 575 1.41
5 368 1.76

Quintessence Directional luminaire with shadow gap for metal halide lamps

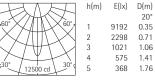
37439.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, spot Flush mounting detail Weight 1.05kg LMF D 日本



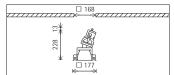




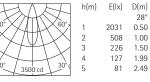




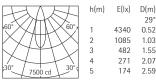
36428.000 Reflector silver HIT-TC-CE 20W GU6.5 1615Im HIT-TC-CE 35W GU6.5 3400Im warm white Spherolit reflector, flood Covered mounting detail Weight 1.05kg LMF D 日本



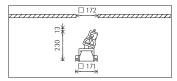
HIT-TC-CE



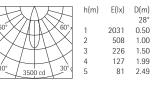




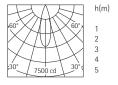
37441.000 Reflector silver HIT-TC-CE 20W GU6.5 1615lm HIT-TC-CE 35W GU6.5 3400lm warm white Spherolit reflector, flood Flush mounting detail Weight 1.05kg LMF D 日本











h(m)	E(Ix)	D(m) 29°
1	4340	0.52
2	1085	1.03
3	482	1.55
4	271	2.07
5	174	2.59

Quintessence Directional luminaire for metal halide lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

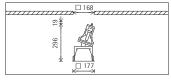
Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Cable with plug, L 500mm. Reflector: aluminium, anodised, mirrorfinish. Safety glass. Darklight reflector: aluminium, satinmatt anodised, with upper Softec lens. Cut-off angle 40°.

Control gear to be ordered separately. Accessories page 678

36514.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot















h(m)	E(Ix)	D(m) 21°
1	17502	0.37
2	4375	0.74
3	1945	1.11
4	1094	1.48
5	700	1.85
,		

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Quintessence Directional luminaire for metal halide lamps													
37500.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, spot	Flush mounting detail Weight 1.34kg LMF D 日本 回	1772 1772 1772 1771 1771	HIT-CE	h(m) E(lx) D(m) 20° 1 9923 0.35 2 2481 0.71 3 1103 1.06 4 620 1.41 5 397 1.76									
			HIT-CE	h(m) E(lx) D(m) 21° 17502 0.37 2 4375 0.74 3 1945 1.11 4 1094 1.48 530° 22500 cd 30° 5 700 1.85									
36515.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood	Covered mounting detail Weight 1.34kg LMF D 日本 回	168 967 967 177	HIT-CE	h(m) E(lx) D(m) 29° 1 4511 0.52 2 1128 1.03 3 501 1.55 4 282 2.07 5 180 2.59									
			HIT-CE	h(m) E(lx) D(m) 29° 1 8963 0.52 2 2241 1.03 3 996 1.55 4 560 2.07 5 359 2.59									
37501.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm Spherolit reflector, flood	Flush mounting detail Weight 1.34kg LMF D 日本 回	1772 61 867 1711 1711	HIT-CE	60° 1 4511 0.52 2 1128 1.03 3 501 1.55 4 282 2.07 7500 cd 30° 5 180 2.59									
			HIT-CE	60° 1 8963 0.52 2 2241 1.03 3 996 1.55 4 560 2.07 359 2.59									
4		Housing: metal, bla Lampholder carrier: designed as heat sir rotation. Lockable a	cast aluminium, nk, 0°-20° tilt, 360°	matt anodised, with upper Softec lens. Cut-off angle 40°. Control gear to be ordered separately. Accessories page 678									
		rotation. Mounting frame: pl 40° (RAL9002). Mountin nesses of 1-30mm ing detail and 12.5- mounting detail. Cable with plug, L 5 Reflector: aluminiu	astic, white ng for ceiling thick- with covered mount- 25mm with flush										
		finish. Safety glass. Darklight reflector:	aluminium, satin-										
36516.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, spot	Covered mounting detail Weight 1.68kg LMF D 日本 回	□ 206 □ 221	HIT-CE	h(m) E(lx) D(m) 19° 1 12059 0.33 2 3015 0.67 3 1340 1.00 4 754 1.34 5 482 1.67									
			HIT-CE	h(m) E(lx) D(m) 20° 1 21733 0.35 2 5433 0.71 3 2415 1.06 4 1358 1.41 530° 25000 cd 30° 5 869 1.76									

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HIT-CE

E(Ix) D(m) 22° 37574 0.39 9393 0.78 4175 1.17 2348 1.56 1503 1.94

h(m)

Quintessence Directional luminaire for metal halide lamps

Quintessence Directi	ional lummanc	ior metal hande lamps		
37502.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, spot	Flush mounting detail Weight 1.68kg LMF D 日本 回	210 5 1 1 1 209	HIT-CE	60° 1 12059 0.33 2 3015 0.67 3 1340 1.00 4 754 1.34 30° 14000 cd 30° 5 482 1.67
			HIT-CE	60° 1 21733 0.35 2 5433 0.71 3 2415 1.06 4 1358 1.41 5 869 1.76
			HIT-CE	h(m) E(lx) D(m) 22° 1 37574 0.39 2 9393 0.78 3 4175 1.17 4 2348 1.56 5 1503 1.94
36517.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, flood	Covered mounting detail Weight 1.68kg LMF D 日本 回	1 206 1 221	HIT-CE	h(m) E(lx) D(m) 30° 1 5264 0.54 2 1316 1.07 3 585 1.61 4 329 2.14 30° 7500 cd 30° 5 211 2.68
			AA () HIT-CE	h(m) E(lx) D(m) 30° 1 10671 0.54 2 2668 1.07 3 1186 1.61 4 667 2.14 30° 12500 cd 30° 6 5 427 2.68
			HIT-CE	h(m) E(lx) D(m) 31° 1 20964 0.55 2 5241 1.11 3 2329 1.66 4 1310 2.22 30° 30000 cd 30° 5 839 2.77
37503.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Spherolit reflector, flood	Flush mounting detail Weight 1.68kg LMF D 日本 回	5 D 210 C 200 C 20	HIT-CE	h(m) E(lx) D(m) 30° 1 5264 0.54 2 1316 1.07 3 585 1.61 4 329 2.14 2.68
			HIT-CE	h(m) E(lx) D(m) 30° 1 10671 0.54 2 2668 1.07 3 1186 1.61 4 667 2.14 30° 5 427 2.68
			HIT-CE	h(m) E(lx) D(m) 31° 1 20964 0.55 2 5241 1.11 3 2329 1.66 4 1310 2.22 30° 30000 cd 30° 5 839 2.77

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Quintessence Directional luminaire for high-pressure sodium vapour lamps







Housing: metal, black powder-coated. Lampholder carrier: cast aluminium, designed as heat sink, 0°-20° tilt, 360° rotation. Lockable angles of tilt and rotation.

Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Cable with plug, L 500mm.

Reflector: aluminium, anodised, mirror-

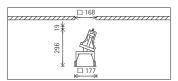
Darklight reflector: aluminium, satin-

matt anodised, with upper Softec lens. Cut-off angle 40°.

Control gear to be ordered separately. Accessories page 678

36506.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot











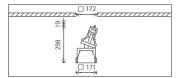
8223 0.39

2056 0.78 1.17 514

329 1.94

37518.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, spot

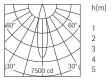
Flush mounting detail Weight 1.34kg LMF D





HST

HST





E(Ix) D(m)

8223 0.39

2056 0.78 914 1.17 514 1.56

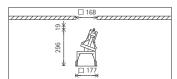
329 1.94

D(m) E(Ix)

h(m)

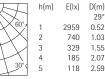
36507.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood

Covered mounting detail Weight 1.34kg LMF D





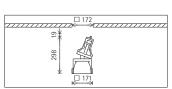




h(m)



detail





HST









5249 0.52

1312 1.03 583 1.55 328 2.07

210 2.59

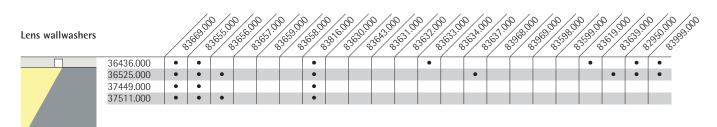
E(Ix) D(m) h(m) 5249 0.52 1312 1.03 583 1.55 328 2.07 210 2.59

37519.000 Reflector silver HST 50W GX12-1 2400lm HST 100W GX12-1 4900lm Spherolit reflector, flood

nlights		/	386919	3649	36460	35579	3699	668 OC	816100 (19	83643.15	363/6	3637.	3633.0	2634.05 2634.05	63/100	368,00	3690	3598.00	934991.05 99 /08	6999	6399	950.00 9 /00
			50/9	550/ 9	50/9	550/ 9	550/ 85			850/ 6	50/9	50/ 9	55/ 8	50/8	8	7		5/ 6	5/8	8		
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	36412.000	•	•					•					•						•		•	•
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	36501.000					•	•	•				•							•		•	•
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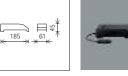


Focal lens wallwa	shers	/8	3699	36/20	365/196	3639	3636	38/09	363019	3643.9	363/6 5/06	/32°)	/33°/		363/6	33968.0	396916	3538.0	3539	36/36	3639.6	2959 °E	3399,00
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	36524.000	•	•	•			•							•						•	•	•	
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Directional lumin	aires	/8	3669.0	3625	3646.0	3679	3699	3678.0	838/69 80/69	36301	3643.0	363/6	3637.6	3633.6	3634.0	36370	3968.0	3969.0	35980	3339 9 0 0	836/3/2 80/3/2	3639	1919/1919/1919	Ś
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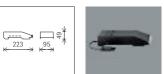














83669.000 Control gear for HIT-TC-CE 20W, G8.5 and GU6.5 and HIT-CE 20W, G12 and HIPAR51-CE-P 20W, GX10. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg **₹**10 <u>₩</u>



83656.000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated.
Electronic control gear 220-240V,
50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg

83657.000 Control gear for HIT-CE 150W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg





83659.000 Control gear for HST 50W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg



83658.000 Control gear for HST 100W. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg





43.5 58

83816.000 DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads

DALI interface with two independent

addresses. Mounting on DIN rail. Weight 0.21kg



CO 104 260 25 4 345

83630.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 2.80kg



















83643.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.10kg





83633,000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.00kg

















83634.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 3.20kg

83637.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 3.40kg

83968.000 Mounting frame, 2x Plastic, white (RAL9002). Mounting without tools for ceiling thicknesses up to 30mm. Covered mounting detail. Recess depth: 260mm for directional luminaires and 220mm for downlights and recessed spotlights. Weight 0.30kg

83969.000 Mounting frame, 2x Plastic, white (RAL9002). Mounting for ceiling thicknesses of 12.5–25mm. Flush mounting detail. Recess depth: 260mm for directional luminaires and 220mm for downlights and recessed spotlights. Weight 0.30kg



8358.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete

83598.000

ceilings. Weight 0.05kg







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178 x 178





83639.000 Spacer plate
Aluminium.
For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.20kg

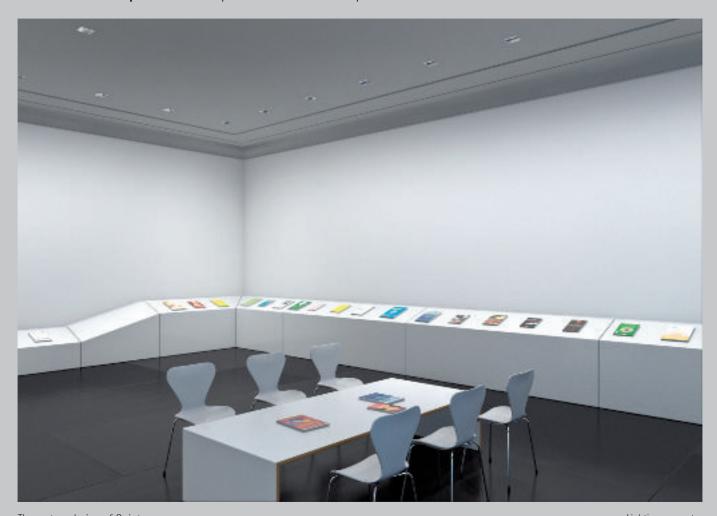






83999.000 8399.000
Cover frame
Metal, white. For
covering the gap
where ceiling
cut-outs are
too big. Please
state internal
and external
dimensions when dimensions when ordering.

Quintessence square for compact fluorescent lamps



The system design of Quintessence provides a wide range for recessed ceiling luminaires: cutting-edge lighting technology for different lighting tasks, best material quality and special installation details. Perfect matching of the lamp, reflector, lens and control gear guarantees maximum efficiency. The modern lighting technology and the glare protection are based on the effective design principles of efficient visual comfort and vertical illuminance. All luminaires are available with a covered or flush mounting detail. Simple mounting makes for a highly economical installation.

The range for compact fluorescent lamps with square recessed ceiling luminaires includes downlights and wallwashers. Compact fluorescent lamps have been enjoying triumphal success as energysaving lamps for several years now. The essential advantages of this lamp are their exceptionally long service life and excellent luminous efficacy. They are thus ideal for use in recessed ceiling luminaires. To ensure that they match the setting, the compact fluorescent lamps are available in warm white, daylight white and neutral white. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Lighting concepts become cost-effective solutions when using wallwashing as an energy-efficient design approach and Quintessence recessed luminaires for compact fluorescent lamps.

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Quintessence square for compact fluorescent lamps



The square Quintessence recessed ceiling luminaires for compact fluorescent lamps are available in versions with different light distributions, cut-off angles, reflector sizes and installation details. The spectrum of light distributions includes downlights and wallwashers. Quintessence have a low recess depth with a cut-off angle of 30°. The various lamps and lumen outputs are associated with corresponding luminaire sizes. The two different mounting frames can be used either as a covered or a flush mounting detail.

The darklight reflectors of the Quintessence recessed ceiling luminaires ensure excellent visual comfort. The separate mounting frame supplied allows efficient installation on the construction site.

Downlights



The range includes Quintessence downlights with darklight reflectors in sizes 5 to 8 with a cut-off angle of 30° for compact fluorescent lamps up to 2x32W. The diffuser produces a wide beam light distribution.

Application

Rotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Wallwashers

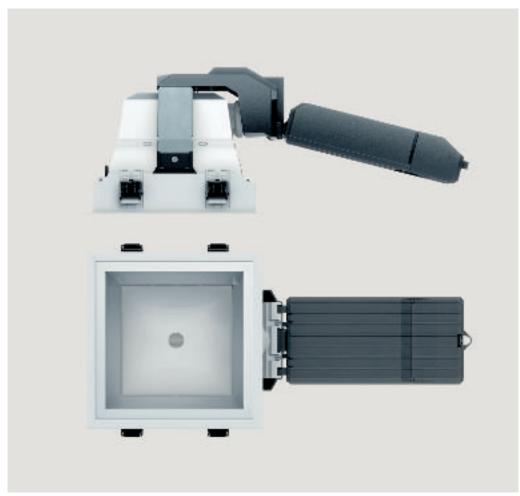


The wallwashers in sizes 7 and 8 for compact fluorescent lamps up to 2x32W ensure a uniform light distribution on the wall.

Application

Asymmetrical light distribution for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

Quintessence square for compact fluorescent lamps



Consistent system design is a characteristic feature of Quintessence. The modular structure of the Quintessence product range features many different versions of the mounting detail. The incorporation of digit-ally controllable DALI luminaires in the Light System DALI makes convenient operation possible using the Light Studio software. Since all Quintessence recessed luminaires have the same mount-ing rings, the different lamp types and characteristics form an excellent combination. They can subsequently be exchanged if necessary.



Downlight

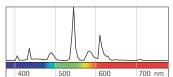


Wallwasher

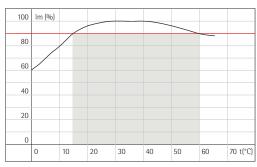
683











Colour temperature and colour rendition

Compact fluorescent lamps have already proven themselves to be efficient light sources. They are available in warm white, daylight white and neutral white. This makes it possible for the colour tempera-ture to be selected to suit specific situations. Their multi-band spectrum allows com-

pact fluorescent lamps to achieve colour rendition index values of approximately 80.

Heat management Good heat

management in the luminaire is crucial for continuous operation, allowing the lamps to emit their full power throughout their entire life. It is the design, construction and material of the housing that all contribute to optimal heat management. Extensive simu-

lations and tests during the devel-opment phase ensure the success of all the products in the range.

With Quintessence, the heat management for the compact fluorescent lamps has been designed so as to ensure that the lamp operates within the optimum temperature range and the rel-ative luminous flux is above 90%.

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DALI PLUG+ PLAY





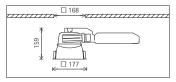


Housing and fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30° Available from 2nd quarter 2010 Accessories page 691

36626.000 Reflector silver ECG DALI **36624.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.30kg LMF D







UGR CO 19.8 LIGR C90 18 2 1000 cd/m²

LOR

65° <

65° <

37626.000 Reflector silver ECG DALI 37624.000 Reflector silver ECG TC-TEL 14W GR14q-1 1050lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg LMF D

□ 172

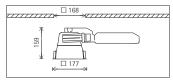




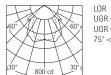
0.70 UGR CO 19.8 UGR C90 18.2 1000 cd/m²

36627.000 Reflector silver ECG DALI **36625.000** Reflector silver ECG TC-TEL 14W GR14q-1 1050lm

Covered mounting detail Weight 1.20kg LMF C







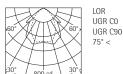
0.75 UGR CO 20.7 UGR C90 184 200 cd/m²

37627.000 Reflector silver ECG DALI 37625.000 Reflector silver ECG TC-TEL 14W GR14q-1 1050lm

Flush mounting detail Weight 1.20kg LMF C

□ 172

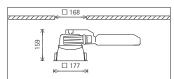




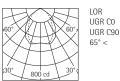
0.75 20.7 18.4 200 cd/m²

36602.000 Reflector silver ECG DALI 36600.000 Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.30kg LMF D



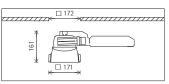




0.64 19.9 186 1000 cd/m²

37602.000 Reflector silver ECG DALI 37600.000 Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.30kg LMF D

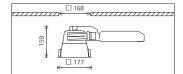






0.64 UGR CO 19.9 LIGR C90 186 1000 cd/m² 65° <

36603.000 Reflector silver ECG DALI 36601.000 Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Covered mounting detail Weight 1.20kg LMF C

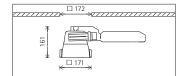






0.63 20.5 18.5 200 cd/m²

37603.000 Reflector silver ECG DALI 37601.000 Reflector silver ECG TC-TELI 18W GX24q-2 1200lm Flush mounting detail Weight 1.20kg LMF C







0.63 20.5 18.5 200 cd/m²

UGR CO

75° <

UGR C90

Number of Iu	Number of luminaires per 100m ² for						Illuminance E _n (lx) for module (m)				
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36626.000	14 W	14	28	41	68	36626.000	14 W	341	227	170	128
36624.000	14 W	14	28	41	68	36624.000	14 W	341	227	170	128
37626.000	14 W	14	28	41	68	37626.000	14 W	341	227	170	128
37624.000	14 W	14	28	41	68	37624.000	14 W	341	227	170	128
36627.000	14 W	13	26	39	64	36627.000	14 W	364	242	182	136
36625.000	14 W	13	26	39	64	36625.000	14 W	364	242	182	136
37627.000	14 W	13	26	39	64	37627.000	14 W	364	242	182	136
37625.000	14 W	13	26	39	64	37625.000	14 W	364	242	182	136
36602.000	18 W	13	27	40	66	36602.000	18 W	355	237	177	133
36600.000	18 W	13	27	40	66	36600.000	18 W	355	237	177	133
37602.000	18 W	13	27	40	66	37602.000	18 W	355	237	177	133
37600.000	18 W	13	27	40	66	37600.000	18 W	355	237	177	133
36603.000	18 W	14	27	40	67	36603.000	18 W	348	232	174	130
36601.000	18 W	14	27	40	67	36601.000	18 W	348	232	174	130
37603.000	18 W	14	27	40	67	37603.000	18 W	348	232	174	130
37601.000	18 W	14	27	40	67	37601.000	18 W	348	232	174	130

Connected I	oad	
36626.000	P:	17 W
36624.000	P:	15 W
37626.000	P:	17 W
37624.000	P:	15 W
36627.000	P:	17 W
36625.000	P:	15 W
37627.000	P:	17 W
37625.000	P:	15 W
36602.000	P:	18 W
36600.000	P:	18 W
37602.000	P:	18 W
37600.000	P:	18 W
36603.000	P:	18 W
36601.000	P:	18 W
37603.000	P:	18 W
37601.000	P:	18 W

Connected load per 100lx 2.31 W/m² 36626.000 36624.000 2.04 W/m² 37626 000 231 W/m² 37624.000 2.04 W/m² 36627.000 2.16 W/m² 36625.000 1.91 W/m² 2.16 W/m² 37627.000 37625.000 1.91 W/m² 36602.000 2.35 W/m² 36600.000 2.35 W/m² 37602.000 2.35 W/m² 2.35 W/m² 37600.000 36603.000 2.40 W/m² 36601.000 2.40 W/m² 37603.000 2.40 W/m² 2.40 W/m² 37601.000

Number of luminaires per 100lx 36626.000 13.58 1/100m² 36624.000 13.58 1/100m² 37626 000 13.58 1/100m² 37624.000 13.58 1/100m² 36627.000 12.73 1/100m² 36625.000 12.73 1/100m² 37627.000 12.73 1/100m² 37625.000 12.73 1/100m² 36602.000 13.04 1/100m² 36600.000 13.04 1/100m² 37602.000 13.04 1/100m² 37600.000 n*: 13.04 1/100m² 36603.000 13.32 1/100m² 36601.000 13.32 1/100m² 37603.000 13.32 1/100m² 37601.000 13.32 1/100m²





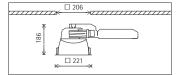
DALI PLUG+ PLAY



Housing and fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 691

36630.000 Reflector silver ECG DALI **36628.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent. Covered mounting detail Weight 1.50kg LMF D







LOR 0.78 UGR CO 18.9 UGR C90 17.4 65° < 1000 cd/m²

37630.000 Reflector silver ECG DALI **37628.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm Wide diffuser: plastic, translucent.

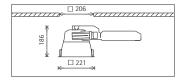
Flush mounting detail Weight 1.50kg LMF D 210 88 209 TC-TEL



LOR 0.78 UGR CO 18.9 UGR C90 17.4 65° < 1000 cd/m²

36631.000 Reflector silver ECG DALI **36629.000** Reflector silver ECG TC-TEL 17W GR14q-1 1250lm

Covered mounting detail Weight 1.50kg LMF C





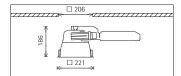


LOR 0.83 UGR CO 19.8 UGR C90 17.8 75° < 1000 cd/m²

9		Tradrescent lamps				
37631.000 Reflector silver ECG DALI 37629.000 Reflector silver ECG TC-TEL 17W GR14q-1 1250lm	Flush mounting detail Weight 1.50kg LMF C	210 × 209 × 209 ×	TC-TEL	60° 60°,	LOR UGR CO UGR C90 75° <	0.83 19.8 17.8 1000 cd/m ²
36610.000 Reflector silver ECG DALI 36604.000 Reflector silver ECG TC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.	Covered mounting detail Weight 1.50kg LMF D	206 A CONTRACTOR OF THE PROPERTY OF THE PROPER	TC-TELI	60° (60° (60° (60° (60° (60° (60° (60° (LOR UGR CO UGR C90 75° <	0.68 19.8 18.2 1000 cd/m ²
37610.000 Reflector silver ECG DALI 37604.000 Reflector silver ECG TC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.	Flush mounting detail Weight 1.50kg LMF D	210	TC-TELI	60°, 60°, 60°, 30°, 1000 cd 30°,	LOR UGR CO UGR C90 75° <	0.68 19.8 18.2 1000 cd/m ²
36611.000 Reflector silver ECG DALI 36605.000 Reflector silver ECG TC-TELI 26W GX24q-3 1800lm	Covered mounting detail Weight 1.50kg LMF C	206	TC-TELI	60°, 60°, 60°, 30°, 1000 ed 30°,	LOR UGR CO UGR C90 75° <	0.61 20.2 18.1 1000 cd/m ²
37611.000 Reflector silver ECG DALI 37605.000 Reflector silver ECG TC-TELI 26W GX24q-3 1800lm	Flush mounting detail Weight 1.50kg LMF C	210 209	TC-TELI	60°, 60°, 60°, 30°, 1000 ed 30°,	LOR UGR CO UGR C90 75° <	0.61 20.2 18.1 1000 cd/m ²
36612.000 Reflector silver ECG DALI 36606.000 Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.	Covered mounting detail Weight 1.60kg LMF D	206	2xTC-TELI	60°, 60°, 30°, 1000 ed 30°,	LOR UGR CO UGR C90 65° <	0.62 20.7 19.2 1000 cd/m ²
37612.000 Reflector silver ECG DALI 37606.000 Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm Wide diffuser: plastic, translucent.	Flush mounting detail Weight 1.60kg LMF D	210	2xTC-TELI	60°, 60°, 30°, 1000 ed 30°,	LOR UGR CO UGR C90 65° <	0.62 20.7 19.2 1000 cd/m ²
36613.000 Reflector silver ECG DALI 36607.000 Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm	Covered mounting detail Weight 1.60kg LMF C	206	2xTC-TELI	60°, 60°, 30°, 1000 ed 30°,	LOR UGR CO UGR C90 75° <	0.66 21.4 19.7 1000 cd/m ²
37613.000 Reflector silver ECG DALI 37607.000 Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm	Flush mounting detail Weight 1.60kg LMF C	210	2xTC-TELI	60°, 60°, 30°, 1000 ed 30°,	LOR UGR CO UGR C90 75° <	0.66 21.4 19.7 1000 cd/m ²
36614.000 Reflector silver ECG DALI 36608.000 Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.	Covered mounting detail Weight 1.60kg LMF D	© 206	2xTC-TELI	60°, 60°, 30°, 1200 ed 30°,	LOR UGR CO UGR C90 75° <	0.57 21.8 20.1 1000 cd/m ²
37614.000 Reflector silver ECG DALI 37608.000 Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm Wide diffuser: plastic, translucent.	Flush mounting detail Weight 1.60kg LMF D	210 209 209	2xTC-TELI	60°, 60°, 30°, 1200 cd 30°,	LOR UGR CO UGR C90 75° <	0.57 21.8 20.1 1000 cd/m ²

36615.000 Reflector silver ECG DALI **36609.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Covered mounting detail Weight 1.60kg LMF C







UGR CO UGR C90 22.5 20.4 1000 cd/m²

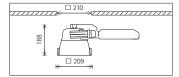
75° <

LOR

75° <

37615.000 Reflector silver ECG DALI **37609.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Flush mounting detail Weight 1.60kg LMF C





HX	X
60°	60°
K/X	
X	
30° 120	30° cd

0.61 UGR CO UGR C90 22.5 20.4 1000 cd/m²

Number of luminaires per 100m ² for					Illuminance	Illuminance E _n (lx) for module (m)					
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36630.000	17 W	11	21	31	51	36630.000	17 W	456	304	228	171
36628.000	17 W	11	21	31	51	36628.000	17 W	456	304	228	171
37630.000	17 W	11	21	31	51	37630.000	17 W	456	304	228	171
37628.000	17 W	11	21	31	51	37628.000	17 W	456	304	228	171
36631.000	17 W	10	20	29	49	36631.000	17 W	481	321	241	180
36629.000	17 W	10	20	29	49	36629.000	17 W	481	321	241	180
37631.000	17 W	10	20	29	49	37631.000	17 W	481	321	241	180
37629.000	17 W	10	20	29	49	37629.000	17 W	481	321	241	180
36610.000	26 W	9	17	25	41	36610.000	26 W	573	382	287	215
36604.000	26 W	9	17	25	41	36604.000	26 W	573	382	287	215
37610.000	26 W	9	17	25	41	37610.000	26 W	573	382	287	215
37604.000	26 W	9	17	25	41	37604.000	26 W	573	382	287	215
36611.000	26 W	10	19	28	46	36611.000	26 W	508	338	254	190
36605.000	26 W	10	19	28	46	36605.000	26 W	508	338	254	190
37611.000	26 W	10	19	28	46	37611.000	26 W	508	338	254	190
37605.000	26 W	10	19	28	46	37605.000	26 W	508	338	254	190
36612.000	2x18 W	7	14	21	34	36612.000	2x18 W	689	459	344	258
36606.000	2x18 W	7	14	21	34	36606.000	2x18 W	689	459	344	258
37612.000	2x18 W	7	14	21	34	37612.000	2x18 W	689	459	344	258
37606.000	2x18 W	7	14	21	34	37606.000	2x18 W	689	459	344	258
36613.000	2x18 W	7	13	19	32	36613.000	2x18 W	734	490	367	275
36607.000	2x18 W	7	13	19	32	36607.000	2x18 W	734	490	367	275
37613.000	2x18 W	7	13	19	32	37613.000	2x18 W	734	490	367	275
37607.000	2x18 W	7	13	19	32	37607.000	2x18 W	734	490	367	275
36614.000	2x26 W	5	10	15	25	36614.000	2x26 W	947	631	473	355
36608.000	2x26 W	5	10	15	25	36608.000	2x26 W	947	631	473	355
37614.000	2x26 W	5	10	15	25	37614.000	2x26 W	947	631	473	355
37608.000	2x26 W	5	10	15	25	37608.000	2x26 W	947	631	473	355
36615.000	2x26 W	5	10	14	23	36615.000	2x26 W	1011	674	505	379
36609.000	2x26 W	5	10	14	23	36609.000	2x26 W	1011	674	505	379
37615.000	2x26 W	5	10	14	23	37615.000	2x26 W	1011	674	505	379
37609.000	2x26 W	5	10	14	23	37609.000	2x26 W	1011	674	505	379

	21 W
	18 W
	21 W
	18 W
P:	21 W
P:	18 W
P:	21 W
P:	18 W
P:	26 W
P:	36 W
P:	52 W
	P: P

37609.000 P: 52 W

Connected	load per	100lx
36630.000	P*:	2.13 W/m ²
36628.000	P*:	1.83 W/m ²
37630.000	P*:	2.13 W/m ²
37628.000	P*:	1.83 W/m ²
36631.000	P*:	2.02 W/m ²
36629.000	P*:	1.73 W/m ²
37631.000	P*:	2.02 W/m ²
37629.000	P*:	1.73 W/m ²
36610.000	P*:	2.10 W/m ²
36604.000	P*:	2.14 W/m ²
37610.000	P*:	2.10 W/m ²
37604.000	P*:	2.10 W/m ²
36611.000	P*:	2.37 W/m ²
36605.000	P*:	2.37 W/m ²
37611.000	P*:	2.37 W/m ²
37605.000	P*:	2.37 W/m ²
36612.000	P*:	2.42 W/m ²
36606.000	P*:	2.42 W/m ²
37612.000	P*:	2.42 W/m ²
37606.000	P*:	2.42 W/m ²
36613.000	P*:	2.27 W/m ²
36607.000	P*:	2.27 W/m ²
37613.000	P*:	2.27 W/m ²
37607.000	P*:	2.27 W/m ²
36614.000	P*:	2.54 W/m ²
36608.000	P*:	2.54 W/m ²
37614.000	P*:	2.54 W/m ²
37608.000	P*:	2.54 W/m ²
36615.000	P*:	2.38 W/m ²
36609.000	P*:	2.38 W/m ²
37615.000	P*:	2.38 W/m ²
		. 2

1011	6/4	505	379
Number of	luminaires	per 10	Olx
36630.000	n*:	10.16	1/100m ²
36628.000	n*:	10.16	1/100m ²
37630.000	n*:	10.16	1/100m ²
37628.000	n*:	10.16	1/100m ²
36631.000	n*:	9.62	1/100m ²
36629.000	n*:	9.62	1/100m ²
37631.000	n*:	9.62	1/100m ²
37629.000	n*:	9.62	1/100m ²
36610.000	n*:	8.08	1/100m ²
36604.000	n*:	8.23	1/100m ²
37610.000	n*:		1/100m ²
37604.000	n*:		1/100m ²
36611.000	n*:	9.12	1/100m ²
36605.000	n*:		1/100m ²
37611.000	n*:		1/100m ²
37605.000	n*:		1/100m ²
36612.000	n*:		1/100m ²
36606.000	n*:		1/100m ²
37612.000	n*:		1/100m ²
37606.000	n*:		1/100m ²
36613.000	n*:		1/100m ²
36607.000	n*:		1/100m ²
37613.000	n*:		1/100m ²
37607.000	n*:		1/100m ²
36614.000	n*:		1/100m ²
36608.000	n*:		1/100m ²
37614.000	n*:		1/100m ²
37608.000	n*:		1/100m ²
36615.000	n*:		1/100m ²
36609.000	n*:		1/100m ²
37615.000	n*:		1/100m ²
37609.000	n*:	4.58	1/100m ²

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37609.000

2.38 W/m²

DALI PLUG+ PLAY





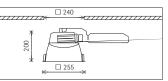


Housing and fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 691

36622.000 Reflector silver ECG DALI **36618.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.60kg LMF D







LOR 0.80 UGR CO 19.5 UGR C90 17.9 65° < 1000 cd/m²

UGR CO

UGR C90

65° <

37622.000 Reflector silver ECG DALI **37618.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.60kg LMF D 244



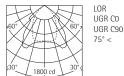


0.80 19.5 17.9 1000 cd/m²

36623.000 Reflector silver ECG DALI **36619.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm Covered mounting detail Weight 1.60kg LMF C

02 255



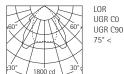


0.82 20.0 0 17.9 200 cd/m²

37623.000 Reflector silver ECG DALI **37619.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm

Flush mounting detail Weight 1.50kg LMF C 244 28 28 243



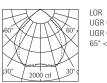


0.82 0 20.0 90 17.9 200 cd/m²

36620.000 Reflector silver ECG DALI **36616.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Covered mounting detail Weight 1.70kg LMF D 240 80 0 255

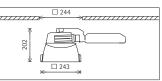




LOR 0.62 UGR CO 21.3 UGR C90 19.2 65° < 1000 cd/m²

37620.000 Reflector silver ECG DALI **37616.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm Wide diffuser: plastic, translucent.

Flush mounting detail Weight 1.70kg LMF D





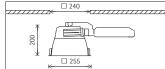


LOR 0.62 UGR CO 21.3 UGR C90 19.2 65° < 1000 cd/m²

36621.000 Reflector silver ECG DALI **36617.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

37621.000 Reflector silver ECG DALI **37617.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Covered mounting detail Weight 1.60kg LMF C







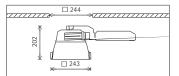
LOR 0.64 UGR CO 21.8 UGR C90 19.3 75° < 200 cd/m²

UGR CO

UGR C90

75° <

Flush mounting detail Weight 1.60kg LMF C







0.64 21.8 19.3 200 cd/m²

Number of luminaires per 100m ² for					Illuminance	Illuminance E _n (lx) for module (m)					
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
36622.000	32 W	6	11	16	26	36622.000	32 W	900	600	450	337
36618.000	32 W	6	11	16	26	36618.000	32 W	900	600	450	337
37622.000	32 W	6	11	16	26	37622.000	32 W	900	600	450	337
37618.000	32 W	6	11	16	26	37618.000	32 W	900	600	450	337
36623.000	32 W	6	11	16	26	36623.000	32 W	915	610	458	343
36619.000	32 W	6	11	16	26	36619.000	32 W	915	610	458	343
37623.000	32 W	6	11	16	26	37623.000	32 W	915	610	458	343
37619.000	32 W	6	11	16	26	37619.000	32 W	915	610	458	343
36620.000	2x32 W	4	7	10	17	36620.000	2x32 W	1403	935	702	526
36616.000	2x32 W	4	7	10	17	36616.000	2x32 W	1403	935	702	526
37620.000	2x32 W	4	7	10	17	37620.000	2x32 W	1403	935	702	526
37616.000	2x32 W	4	7	10	17	37616.000	2x32 W	1403	935	702	526
36621.000	2x32 W	4	7	10	16	36621.000	2x32 W	1446	964	723	542
36617.000	2x32 W	4	7	10	16	36617.000	2x32 W	1446	964	723	542
37621.000	2x32 W	4	7	10	16	37621.000	2x32 W	1446	964	723	542
37617.000	2x32 W	4	7	10	16	37617.000	2x32 W	1446	964	723	542

Connected lo	oad	
36622.000	P:	35 W
36618.000	P:	35 W
37622.000	P:	35 W
37618.000	P:	35 W
36623.000	P:	35 W
36619.000	P:	35 W
37623.000	P:	35 W
37619.000	P:	35 W
36620.000	P:	66 W
36616.000	P:	66 W
37620.000	P:	66 W
37616.000	P:	66 W
36621.000	P:	66 W
36617.000	P:	66 W
37621.000	P:	66 W

37617.000 P: 66 W

Connected	load per	100lx
36622.000	P*:	1.80 W/m ²
36618.000	P*:	1.80 W/m ²
37622.000	P*:	1.80 W/m ²
37618.000	P*:	1.80 W/m ²
36623.000	P*:	1.77 W/m ²
36619.000	P*:	1.77 W/m ²
37623.000	P*:	1.77 W/m ²
37619.000	P*:	1.77 W/m ²
36620.000	P*:	2.18 W/m ²
36616.000	P*:	2.18 W/m ²
37620.000	P*:	2.18 W/m ²
37616.000	P*:	2.18 W/m ²
36621.000	P*:	2.11 W/m ²
36617.000	P*:	2.11 W/m ²
37621.000	P*:	2.11 W/m ²
37617.000	P*:	2.11 W/m ²

Number of	luminaires	per 100	lx
36622.000	n*:	5.15 1	/100m ²
36618.000	n*:	5.15 1	/100m ²
37622.000	n*:	5.15 1	/100m ²
37618.000	n*:	5.15 1	/100m ²
36623.000	n*:	5.06 1	/100m ²
36619.000	n*:	5.06 1	/100m ²
37623.000	n*:	5.06 1	/100m ²
37619.000	n*:	5.06 1	/100m ²
36620.000	n*:	3.30 1	/100m ²
36616.000	n*:	3.30 1	/100m ²
37620.000	n*:	3.30 1	/100m ²
37616.000	n*:	3.30 1	/100m ²
36621.000	n*:	3.20 1	/100m ²
36617.000	n*:	3.20 1	/100m ²
37621.000	n*:	3.20 1	/100m ²
37617.000	n*:	3.20 1	/100m ²

Quintessence Wallwasher for compact fluorescent lamps

DALI PLUG+ PLAY





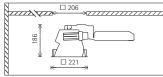


Housing and fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, satinmatt anodised. Cut-off angle 30°. Available from 2nd quarter 2010 Accessories page 691

36638.000 Reflector silver ECG DALI **36635.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm

Covered mounting detail Weight 1.60kg LMF C





 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

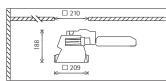
 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance E_n (ix)
 197
 152
 122
 99

37638.000 Reflector silver ECG DALI **37635.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm

Flush mounting detail Weight 1.60kg LMF C





 Mean illuminance En (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

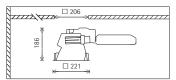
 Luminaire spacing (m)
 0.90
 1.20
 1.50

 Illuminance En (lx)
 197
 152
 122
 99

Quintessence Wallwasher for compact fluorescent lamps

36639.000 Reflector silver ECG DALI **36636.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Covered mounting detail Weight 1.60kg LMF C



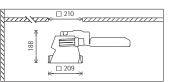


Mean illuminance E_n (Ix)

Wall height (m) 3.0 Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (lx)

37639.000 Reflector silver ECG DALI 37636.000 Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Flush mounting detail Weight 1.60kg LMF C





Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 264 204 164 133







Housing and fixing frame: plastic, black. Mounting frame: plastic, white (RAL9002). Mounting for ceiling thicknesses of 1-30mm with covered mounting detail and 12.5-25mm with flush mounting detail. Junction box for through-wiring, 5-pole

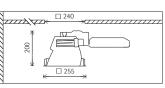
terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Darklight réflector: aluminium, satinmatt anodised. Cut-off angle 30° Available from 2nd quarter 2010

Accessories page 691



Covered mounting detail Weight 1.60kg LMF C

PLUG+ PLAY



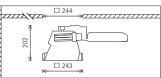


Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 1.20 1.20 1.50 1.50 1.20 1.50 1.50 1.80 Luminaire spacing (m) Illuminance E_n (lx) 252 206 174 147

37642.000 Reflector silver ECG DALI 37640.000 Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Flush mounting detail Weight 1.60kg LMF C





Mean illuminance E_n (Ix) Wall height (m) 4.0 1.20 1.20 1.50 1.50 1.20 1.50 1.50 1.80 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 252 206 174 147

Quintessence square Accessories

Downlights		\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	836.000	635,000	638,000	019.000	939.00 87E	550,00 g33	99,00
	36600.000	•	•		•		•	•	
	36601.000	•	•		•		•	•	
	36602.000		•		•		•	•	
	36603.000		•		•		•	•	
	36604.000	•		•		•	•	•	
	36605.000	•		•		•	•	•	
	36606.000	•		•		•	•	•	
	36607.000	•		•		•	•	•	
	36608.000	•		•		•	•	•	
	36609.000	•		•		•	•	•	
	36610.000			•		•	•	•	
	36611.000			•		•	•	•	
	36612.000			•		•	•	•	
	36613.000			•		•	•	•	
	36614.000			•		•	•	•	
	36615.000			•		•	•	•	
	36616.000	•					•	•	
	36617.000	•					•	•	
	36618.000	•					•	•	
	36619.000	•					•	•	
	36620.000						•	•	
	36621.000						•	•	
	36622.000						•	•	
	36623.000						•	•	
	36624.000	•	•		•		•	•	
	36625.000	•	•		•		•	•	
	36626.000		•		•		•	•	
	36627.000		•		•		•	•	
	36628.000	•		•		•	•	•	
	36629.000	•		•		•	•	•	
	36630.000			•		•	•	•	
	36631.000			•		•	•	•	
	37600.000	•							
	37601.000	•							
	37604.000	•							
	37605.000	•							
	37606.000	•							
	37607.000	•							
	37608.000	•							
	37609.000	•							
	37616.000	•							
	37617.000	•							
	37618.000	•							
	37619.000	•							
	37624.000	•							
	37625.000	•							
	37628.000	•							
	37629.000	•							

Wallwashers		\ \8 ³	836	35,000 g35	638.100 839	019.00	939.000 879	350,000	99,00
	36635.000	•		•		•	•	•	
	36636.000	•		•		•	•	•	
	36638.000			•		•	•	•	
	36639.000			•		•	•	•	
	36640.000	•					•	•	
	36642.000						•	•	
	37635.000	•							
	37636.000	•							
	37640.000	•							

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Quintessence square Accessories





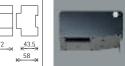
83816.000

DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching ohmic, inductive and capacitive loads

DALI interface with two independent addresses.

Mounting on DIN rail.

Weight 0.21kg







83638.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 4.60kg



Weight 0.14kg



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178 x 178





83639.000 Spacer plate Aluminium. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.20kg



82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



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83999.000 Cover frame Metal, white. For covering the gap where ceiling cut-outs are too big. Please state internal and external dimensions when ordering.

Lightcast

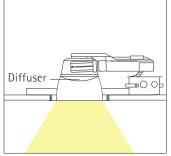
When developing the Lightcast luminaires, ERCO teamed up with the designer Franco Clivio. The result was a series of common design and constructional fea-tures. Lightcast recessed lumi-naires have cast aluminium hous-ings, which give them optimum thermal properties with regard to meeting the various technical requirements. Other typical Lightcast characteristics are the cast aluminium ceiling ring and the four-point mounting allowing luminaires to be installed without requiring tools. Furthermore, metal halide lamps and compact fluorescent lamps also have a dif-fusor technology above the Dark-light reflector.

Lightcast recessed luminaires are available for reflector lamps, high-pressure discharge lamps and compact fluorescent lamps.





The diffuser technology of Lightcast downlights is designed for optimum vis-ual comfort. For compact fluorescent lamps, translucent plas-tic diffusers reduce the luminance, while ensuring highquality wash-lighting.



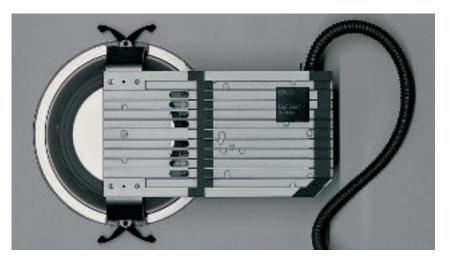
A high-precision cast-aluminium fixing ring and the four-point mounting hold Lightcast down-lights securely in their installed position. The tool-free mounting saves time and energy.



The electrical connection is made via a junction box with integrated connection terminal and cable clamp.



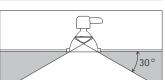
The cast aluminium housing of Lightcast downlights for compact fluorescent lamps accommo-dates the electronic control gear. A large proportion of the recessed ceiling luminaires is offered with DALI control gear.



Lightcast

Cut-off angle
ERCO downlight reflectors are developed by sophisticated computer programs. The reflectors have consistent cut-off angles for a variety of lamps and apertures. Within the cut-off angle there is no disturbing glare. This is the characteristic feature of the ERCO darklight technology. It combines maximum visual comfort with maximum output ratio and a with maximum output ratio and a balanced relation between horizontal and vertical illuminances.





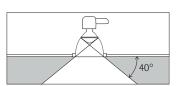


Cut-off angle 30° High vertical illuminance; good uniformity of illuminance even in low-ceiling rooms; satisfactory glare limitation.





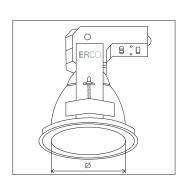
Within each group of light sources, downlights are arranged in ascending order according to size. The symbols used allow easy identification, e.g. of downlights.



Cut-off angle 40° Balance between horizontal and vertical illuminance; uniformity of horizontal illuminance and good glare limitation.



Sizes
To provide a uniform optical appearance of the ceiling, the recessed luminaires are shown with the size (reflector opening) and the cut-off angle, e.g. size 7, 30°. These details make it possible to choose luminaires of the same size while the type of lamp, the cut-off angle and the wall-washing function may vary.



Reflector aperture $\stackrel{\cdot}{\mathsf{approx}}. \varnothing \ (\mathsf{mm})$

4	100
5	125
7	175
8	200

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Lightcast for PAR lamps



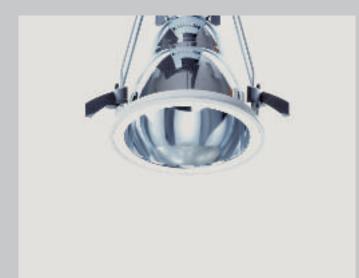
PAR lamps produce a warm light effect with excellent colour rendition, switch on instantly and can easily be dimmed. The parabolic reflector of the PAR lamp ensures defined light beam angles. The Lightcast product range includes downlights, lens wallwashers and directional luminaires. The Lightcast recessed luminaries have cast aluminium housings which are designed to provide optimum thermal properties according to their respective technical requirements. Other typical Lightcast features include the mounting ring – in cast aluminium – and the four-point mounting for tool-free installation. The darklight technique combines maximum visual comfort with maximum light output ratio.

Bank of China, Beijing. Architect: Pei Partnership Architects, New York. Lighting design: Kugler Tillotson Associates, New York.

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Lightcast for PAR lamps



The housings are cast aluminium and designed as heat sinks. The mounting rings, which are visible from below, are also cast aluminium, powder-coated white. Glare-free darklight reflectors are aluminium and silver anodised. The cut-off angle is 40°. Plaster rings, cover rings and mounting rings are available as mechanical accessories for flush ceiling mounting.

Downlights



The product range consists of downlights with darklight reflectors in sizes 5 to 8. IR, UV and skintone filters and daylight conversion filters, which are mounted directly on the reflector lamps, are available as lighting accessories for most downlights.

Application Rotationally symmetrical, narrow to medium beam light distribution for accent lighting in specific zones, including exhibitions and

promotional areas.

Lens wallwashers



The lens wallwashers are available in sizes 5 and 7. The effects of lens wallwashers are achieved using reflector systems with wallwasher lenses. In terms of design, a size 8 lens wallwasher does not fit in with the Lightcast series. However, fitted with a lamp of up to 500W, it is suitable for illuminating high walls and consequently, for mounting and lamp change from above.

Application Asymmetrical light distribution for uniform illumination of vertical

uniform illumination of vertical surfaces. Applications include museums, exhibitions and promotional areas.

Directional luminaires



The product range consists of directional luminaires in sizes 5 to 8. The directional function of these luminaires results from the lampholder mountings and darklight reflectors being tiltable. Sculpture lenses, IR, UV and skintone filters and daylight conversion filters, which are mounted directly on the reflector lamps, are available as lighting accessories for most directional luminaires.

Application

Rotationally symmetrical, narrow to medium beam light distribution, for accent lighting of exhibits either free-standing in the room or positioned on walls. Applications include rooms with high ceilings such as museums, exhibitions and promotional areas.

Lightcast Downlight for PAR lamps







Housing: cast aluminium, designed as heat sink.

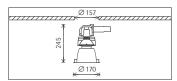
Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

Accessories page 701

22617.000 Reflector silver QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°









h(m) E(Ix) D(m) 10° 9000 2250 2 0.35 1000 0.52 562 0.70 360 0.87





h(m) E(Ix) D(m) 3000 0.54 2 750 1.07 333 1.61 188 2.14 120 2.68







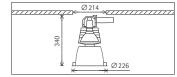
Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Accessories page 701

22633.000 Reflector silver PAR38 120W 230V E27 12° PAR38 120W 230V E27 30° Filters and lenses not be used with coolbeam lamps.









E(Ix) D(m) h(m) 9300 0.21 0.42 2 2325 3 1033 0.63 0.84 372 1.05





h(m) E(Ix) D(m) 3100 0.54 2 775 1.07 3 344 1.61 2.14 124 2.68

> E(Ix) D(m)

40000

4444 0.52 2500 0.70

1600 0.87

10°

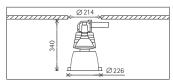
0.17 10000

0.35

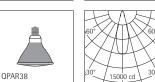
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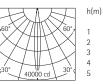
22635.000 Reflector silver QPAR38 250W 120V E26 10° QPAR38 250W 120V E26 30°

Weight 1.50kg LMF E









E(Ix) D(m) h(m) 9000 0.54 2 2250 1.07 1000 1.61 360 2.68

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Lightcast Downlight for PAR lamps







Housing: cast aluminium, designed as heat sink.

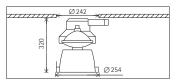
Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

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22661.000 Reflector silver QPAR56 500W 120V GX16d 13° 8° QPAR56 500W 120V GX16d 44° 22° PAR56 300W 230V GX16d 9° 15° PAR56 300W 230V GX16d 16° 40°



























h(m) E(lx) D(m) 16° 40° 1 9000 0.28 0.73 2 2250 0.56 1.46 3 1000 0.84 2.18 4 562 1.12 2.91 5 360 1.41 3.64

Lightcast Lens wallwasher for PAR lamps







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of

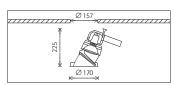
Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Wallwasher reflector: aluminium, silver

Darklight reflector: aluminium, bright anodised, with upper wallwasher lens as safety glass. Cut-off angle 40°.

Accessories page 701

22629.000 Reflector silver QPAR30 100W 230V E27 10°







 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20

 Illuminance E_n (lx)
 153
 116
 89

Lightcast Lens wallwasher for PAR lamps







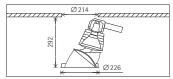
Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1-25mm. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Wallwasher reflector: aluminium, silver anodised.

Darklight reflector: aluminium, bright anodised, with upper wallwasher lens as safety glass. Cut-off angle 40°. Accessories page 701

22651.000 Reflector silver PAR38 120W 230V E27 30°







Mean illuminance E_n (Ix)

Wall height (m) 3.0 Offset from wall (m) 0.60 0.60 0.90 0.90 0.60 0.90 0.90 1.20 Luminaire spacing (m) Illuminance E_n (Ix) 278 188 149 112







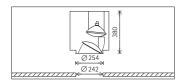
Housing: metal, black powder-coated. Fixing for ceiling thicknesses of 1-25mm. Mounting from above. Lamp replacement from above or below. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Wallwasher reflector: aluminium, silver anodised.

Darklight reflector: aluminium, bright anodised, with wallwasher lens. To relamp: removed without tools, retained on safety cords. Cut-off angle 30°. Accessories page 701



22665.000 Reflector silver QPAR56 500W 120V GX16d 26° 10° PAR56 300W 230V GX16d 9° 15°

Weight 7.90kg LMF E @ PG







Mean illuminance E_n (Ix)

Wall height (m) 8.0 1.50 1.50 1.50 2.00 1.00 1.50 2.00 2.00 Offset from wall (m) Luminaire spacing (m) 321 227 173 141 Illuminance E_n (Ix)

Lightcast Directional luminaire for PAR lamps





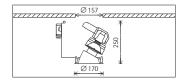


Housing: cast aluminium, designed as heat sink. 0°-30° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated, for ceiling thicknesses of 1-25mm. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

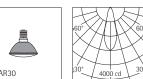
Accessories page 701

22625.000 Reflector silver QPAR30 75W 230V E27 10° QPAR30 75W 230V E27 30°











h(m)

2

3

E(Ix) D(m) 10°

7500 0.17

833 0.52

0.35 1875

699

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Lightcast Directional luminaire for PAR lamps



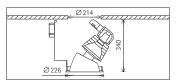




Housing: cast aluminium, designed as heat sink. 0°-40° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1–25mm.
Junction box for through-wiring, 5–pole terminal block, integrated cable clamp. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Accessories page 701

22645.000 Reflector silver PAR38 120W 230V E27 12° PAR38 120W 230V E27 30° Filters and lenses not be used with coolbeam lamps.

Weight 1.70kg LMF E **₹**10 <u>a</u> <u>a</u> <u>a</u> <u>a</u> <u>a</u>











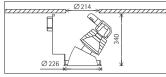




D(m) h(m) E(Ix) 3100 0.54 775 1.07 1.61 194 124 2.68



Weight 1.70kg LMF E (C) P() X













E(Ix) D(m) h(m) 30° 9000 0.54 1.07 2250 1000 1.61 562 2.14 360 2.68





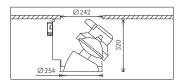


Housing: cast aluminium. Lampholder carrier, designed as heat sink. 0°-40° tilt, 360° rotation. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1-25mm. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°.

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22663.000 Reflector silver QPAR56 500W 120V GX16d 13° 8° QPAR56 500W 120V GX16d 44° 22° PAR56 300W 230V GX16d 9° 15° PAR56 300W 230V GX16d 16° 40°

















h(m)	E(Ix)	D(m)	
		44°	22°
1	19000	0.81	0.39
2	4750	1.62	0.78
3	2111	2.42	1.17
4	1188	3.23	1.56
5	760	4.04	1.94





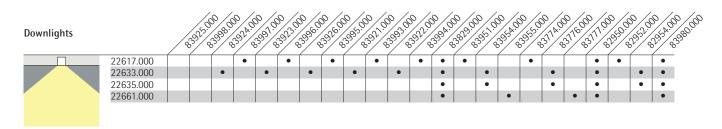
h(m)	E(Ix)	D(m)	
		9°	15°
1	39999	0.16	0.26
2	10000	0.31	0.53
3	4444	0.47	0.79
4	2500	0.63	1.05
5	1600	0.79	1.32

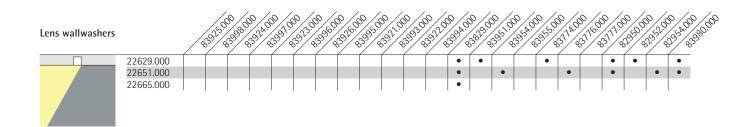


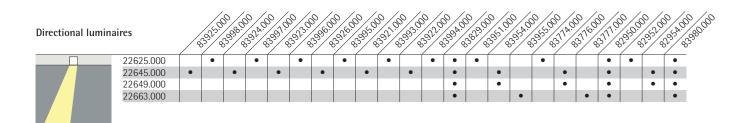


h(m)	E(Ix)	D(m)	
		16°	40°
1	9000	0.28	0.73
2	2250	0.56	1.46
3	1000	0.84	2.18
4	562	1.12	2.91
5	360	1.41	3.64

Lightcast Accessories













83924.000 83997.000



83923.000 83996.000



83926.000 83995.000



83921.000 83993.000 Skintone filter



83922.000 83994.000 Daylight conversion filter



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

70 → K-58

Lightcast Accessories



83951.000 83954.000 83955.000 Plaster ring Metal, white. Height 20mm.

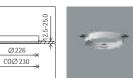


83774.000Mounting ring
Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.

Ø 170 COØ 174



83776.000 Mounting ring Metal, white powder-coated. For flushmounting installation in plasterboard ceilings.



83777.000Mounting ring
Metal, white powder-coated. For flushmounting installation in plasterboard
ceilings.

Ø 254

COØ258



82950.000
Mounting plate for panelled ceilings
Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



82952.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Module 100 (85/15, 84/16). For downlights with ceiling aperture Ø 157mm. Recessing dimension 187x187mm.

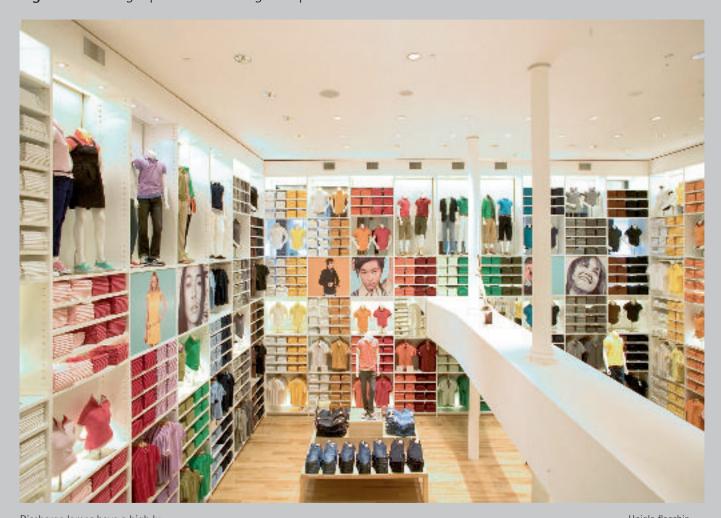


82954.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Module 100 (85/15, 84/16). For downlights with ceiling aperture ø 214mm. Recessing dimension 287x287mm.



83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.

Lightcast for high-pressure discharge lamps



Discharge lamps have a high luminous flux, outstanding energy efficiency and a long service life. In their basic form, downlights direct light downwards in narrow or wide beams. They are normally used to provide ambient lighting. The higher a room and the larger the ceiling, the more anyone looking up is likely to be dazzled by light from the luminaires. It therefore makes sense to equip downlights installed in particularly glare-sensitive areas – say, over conference tables – with correspondingly high cut-off reflectors. The double-focus downlights also achieve high luminous power despite having a small ceiling aperture.

The Lightcast double-focus downlights have cast aluminium

The Lightcast double-focus downlights have cast aluminium housings which are designed to provide optimum thermal properties according to their respective technical requirements. Other typical Lightcast features include the ceiling ring – in cast aluminium – and the four-point mounting for tool-free installation. The darklight technique combines maximum visual comfort with maximum light output ratio.

Uniqlo flagship store SoHo, New York. Architect: Masamichi Katayama, Wonderwall, Tokyo (interior design). Lighting design: Masaki Yasuhara, Plus Y Lighting Planning Office, Osaka.

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www.erco.com ERCO Program 2010/11

Lightcast for high-pressure discharge lamps



The housings are cast aluminium and designed as heat sinks. The mounting rings, which are visible from below, are also cast aluminium, powder-coated white. Glare-free darklight reflectors are aluminium and silver anodised. The cut-off angle is 40°. Tubular metal halide lamps 35W, 70W and 150W are used as lamps. The necessary control gear for the operation of the lamps is available as an installa-tion unit that is operated independ-ently in the ceiling void. It must be ordered separately.



Double-focus downlights



Double-focus downlights are available with integral ellipsoidal reflector and darklight reflectors in size 4. These can be mounted from above or below and are also suitable for ceilings with a gradient of up to 25°.

ApplicationRotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

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Lightcast Double-focus downlight for metal halide lamps



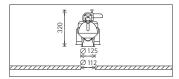




Housing: metal, black powder-coated. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses 1–30mm.
Cable with plug, L 500mm.
Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Safety glass above the Darklight reflector. Control gear to be ordered separately.
Accessories page 706

81271.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Mounting of mounting ring from below. Luminaire mounting from above. Lamp replacement from above.









LOR 0.59 UGR 21.6 55° < 200 cd/m²

AA ()



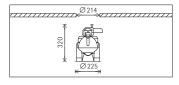
LOR 0.59 UGR 24.1 55° < 200 cd/m²





LOR 0.59 UGR 26.7 55° < 200 cd/m²

81281.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm HIT-CE 150W G12 15000lm Mounting from below. Lamp replacement from below or above. For installation in horizontal and inclined ceilings up to 25°.







LOR 0.59 UGR 21.6 55° < 200 cd/m²





LOR 0.59 UGR 24.1 55° < 200 cd/m²





LOR 0.59 UGR 26.7 55° < 200 cd/m²

1632

2.19 1/100m² 1.06 1/100m²

705

Number of luminaires per 100	m ²	fo
------------------------------	----------------	----

			100lx	200lx	300lx	500lx
8127	1.000	35 W	5	10	14	23
8127	1.000	70 W	3	5	7	11
8127	1.000	150 W	2	3	4	6
8128	1.000	35 W	5	10	14	23
8128	1.000	70 W	3	5	7	11
8128	1.000	150 W	2	3	4	6

Illuminance I	E_n (lx) for	module
		1.2x1.
81271.000	35 W	101
81271.000	70 W	
81271.000	150 W	
81281.000	35 W	101

70 W

150 W

81281.000 81281.000

odule (m	1)		
1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
1016	677	508	381
-	1412	1059	794
-	-	-	1632
1016	677	508	381
-	1412	1059	794

Connected load without control gear s1271.000 P: 35 W 81271.000 P: 70 W 81281.000 P: 35 W 81281.000 P: 70 W 81281.000 P: 150 W 81281.000 P: 150 W

Connected load per 100lx without control gear 81271.000 P*: 1.60 W/m² 81271.000 P*: 1.60 W/m² 81281.000 P*: 1.60 W/m² 81281.000 P*: 1.60 W/m² 81281.000 P*: 1.60 W/m² 81281.000 P*: 1.60 W/m²

Number of luminaires per 100lx

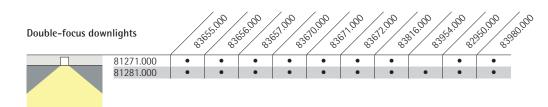
81271.000 n*: 4.56 1/100m²
81271.000 n*: 2.19 1/100m²
81271.000 n*: 1.06 1/100m²
81281.000 n*: 4.56 1/100m²

81281.000

81281.000

www.erco.com ERCO Program 2010/11

Lightcast Accessories





83655.000







83656.000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg

223



83657.000 Control gear for HIT-CE 150W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.90kg

253 110





295









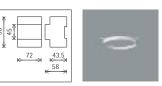
83672.000 Control gear for HIT 150W. Metal, black powder-coated. Control gear 230V, 50Hz/60Hz, with temperature controller, timer-ignitor,



83816.000

¥ 131 ¥ ₩ 345

DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg



83954.000 82950.000 Mounting plate for panelled ceil-Plaster ring Metal, white. Height 20mm. ings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83980.000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Lightcast for compact fluorescent lamps



Bonn-Rhein-Sieg University of Applied Sciences, Rheinbach Department, Rheinbach. Architect: Vogt+Partner, Düsseldorf.

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The essential advantages of compact fluorescent lamps are their long service life and reduced energy consumption, especially when using electronic control gear. Their compact dimensions make them ideal for use in downlights. The product range includes downlights, washlights and wallwashers. The Lightcast downlights and washlights have cast aluminium housings which are designed to provide optimum thermal properties according to their particular technical requirements. Other typical Lightcast features include the mounting ring – in cast aluminium – and the four-point mounting for tool-free installation. The darklight technique combines maximum visual comfort with maximum light out-put ratio.

The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

www.erco.com ERCO Program 2010/11

Lightcast for compact fluorescent lamps



The housings of the recessed luminaries are cast aluminium and designed as heat sinks. The mounting rings, which are visible from below, are also cast aluminium, powder-coated white. Glare-free darklight reflectors are mostly aluminium and silver anodised. The product ranges available have cut-off angles of 30° and 40°. The luminaires can be fitted with two lamps of up to 2x42W.

Downlights



This product range includes downlights with electronic control gear and darklight reflectors in sizes 5 to 10. The necessary control gear is mounted on the side of the housing. Concrete housings, plaster rings, cover rings and mounting rings for flush ceiling mounting or mounting plates for plank ceilings are available as accessories.

Application

Rotationally symmetrical, wide beam light distribution. Applications include ambient lighting in offices and administration buildings, in public buildings and hotels, conference rooms and consulting rooms as well as sales areas.

Washlights



Washlights for illuminating walls whilst simultaneously lighting the room are available in sizes 5 to 10. The wallwashing effect is achieved by using elliptical reflector segments.

Application

Asymmetrical light distribution, directed downwards and for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including offices and administration buildings, in public buildings and hotels, conference rooms and consulting rooms as well as sales areas.

Wallwashers



The reflector technology of these wallwashers was specially developed for wall illumination and shelf lighting in sales areas and shops. The darklight reflectors in sizes 7 and 8 produce the vertical illuminances important for the presentation of merchandise and the intended spatial impression.

Application

Asymmetrical light distribution for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.





Size 7 30°

Housing: cast aluminium, designed as heat sink.

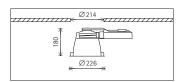
Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

1–30mm.
Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Accessories page 718

22120.000 Reflector silver ECG DALI 2xTC-DEL 18W G24q-2 1200lm

Weight 2.10kg LMF C **%** 🕸 🕙

DALI PLUG+ PLAY







0.68 UGR 20.7 200 cd/m² 65° <

22119.000 Reflector silver ECG 1-10V **22209.000** Reflector silver ECG 2xTC-DEL 18W G24q-2 1200lm

Weight 2.10kg LMF C

Number of luminaires per 100m ² for							Illuminance	Illuminance E _n (lx) for module (m)					
		100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
22120.000	2x18	W 6	13	19	31		22120.000	2x18 W	767	511	384	288	
22119.000	2x18	W 6	13	19	31		22119.000	2x18 W	767	511	384	288	
22209.000	2x18	W 6	13	19	31		22209.000	2x18 W	767	511	384	288	
Connected load Conne				Connected lo	oad per	100lx		Number	of lumina	ires per 10	00lx		
22120.000	P: 3	86 W			22120.000	P*:	2.17 W/m ²		22120.0	00 n	·: 6.03	1/100m ²	
22119.000	P: 3	86 W			22119.000	P*:	2.17 W/m ²		22119.0	00 n	·: 6.03	1/100m ²	
22209.000	P: 3	86 W			22209.000	P*:	2.17 W/m ²		22209.0	00 n	·: 6.03	1/100m ²	







Housing: cast aluminium, designed as heat sink.

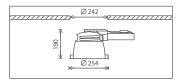
Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of

1-30mm. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Accessories page 718

22124.000 Reflector silver ECG DALI 2xTC-DEL 26W G24q-3 1800lm

Weight 2.10kg LMF C **%** 6

DALI PLUG+ PLAY







0.65 UGR 200 cd/m² 65° <

709

22126.000 Reflector silver ECG 1-10V **22216.000** Reflector silver ECG 2xTC-DEL 26W G24q-3 1800lm

Weight 2.10kg LMF C **₹**0 <u>∞</u> <u>∞</u>0

Number of Iu	er 100m²	for				Illuminance E _n (lx) for module (m)						
		100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
22124.000	2x26 W	5	9	13	22		22124.000	2x26 W	1089	726	544	408
22126.000	2x26 W	5	9	13	22		22126.000	2x26 W	1089	726	544	408
22216.000	2x26 W	5	9	13	22		22216.000	2x26 W	1089	726	544	408
Connected load Connected				Connected lo	oad per	100lx		Numbe	r of lumina	ires per 10	00lx	
22124.000	P: 52 V	V			22124.000	P*:	2.21 W/m ²		22124.0	000 n ⁴	4.25	1/100m ²
22126.000	P: 52 V	V			22126.000	P*:	2.21 W/m ²		22126.0	000 n ⁴	t: 4.25	1/100m ²
22216.000	P: 52 V	V			22216.000	P*:	2.21 W/m ²		22216.0	000 n ³	': 4.25	1/100m ²

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Housing: cast aluminium, designed as heat sink. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser: plastic, translucent, can be

removed for lamp replacement without

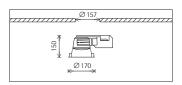
Accessories page 718

22112.000 Reflector silver ECG DALI TC-TELI 18W GX24q-2 1200lm

Weight 1.40kg LMF C **%** @ @

DALI PLUG+

PLAY







UGR 1000 cd/m² 65° <

22268.000 Reflector silver ECG 1-10V **22267.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm

Weight 1.40kg LMF C

22112.000

22268.000

22267.000

18 W

18 W

18 W

Number of luminaires per 100m² for Illuminance E_n (lx) for module (m) 100lx 2001x 300lx 500lx 22112 000 22112 000 18 W 17 34 51 85 22268.000 18 W 17 34 51 85 22268.000 22267.000 18 W 17 51 85 22267.000 Connected load

Connected load per 100lx 3.03 W/m² 22112.000 22268.000 3.03 W/m² 22267.000 3.03 W/m² 275 184 138 103 103 275 184 138 184 138 103 Number of luminaires per 100lx n*: 16.82 1/100m² 22112.000

Accessories page 718

1.8x2.4

2.4x2.4

16.82 1/100m²

16.82 1/100m²

1.8x1.8

22268.000

22267.000

1.2x1.8

18 W

18 W

18 W





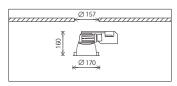
Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be removed for lamp replacement without









22271 000

22270.000

Illuminance E_n (lx) for module (m)

18 W

18 W

1.2x1.8

259

259



1.8x1.8

173

173

0.46 UGR 200 cd/m² 65° <

97

97

Number	of	luminaires	per	$100 m^{2}$	for
				100lx	20

		100lx	200lx	300lx	500lx
22271.000	18 W	18	36	54	90
22270.000	18 W	18	36	54	90

Connected load 22271.000 18 W 22270.000 18 W Connected load per 100lx 22271.000 3.21 W/m² 3.21 W/m² 22270.000

Number of luminaires per 100lx 22271.000 17.86 1/100m² 22270.000 17.86 1/100m²

130

130





Size 7 30°

Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

1–30mm.
Junction box for through-wiring, 5-pole terminal block, integrated cable clamp.
Electronic control gear, plug and play connectivity with DALI version.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
Diffuser: plastic, translucent, can be

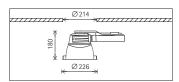
removed for lamp replacement without tools.

Accessories page 718

22122.000 Reflector silver ECG DALI TC-TELI 32W GX24q-3 2400lm

Weight 1.90kg LMF C & ©

DALI PLUG+ PLAY







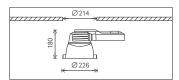
LOR 0.64 UGR 19.5 65° < 200 cd/m²

22134.000 Reflector silver ECG 1-10V **22224.000** Reflector silver ECG TC-TELI 32W GX24q-3 2400lm



22123.000 Reflector silver ECG DALI 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.00kg LMF C







UGR 20.5 65° < 200 cd/m²

711

22135.000 Reflector silver ECG 1-10V **22225.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.00kg LMF C & © ©

Number of I	uminaires pe	er 100m²	for			Illuminance	E _n (lx) for r	nodule (m)			
		100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
22122.000	32 W	7	13	20	33	22122.000	32 W	719	480	360	270
22134.000	32 W	7	13	20	33	22134.000	32 W	719	480	360	270
22224.000	32 W	7	13	20	33	22224.000	32 W	719	480	360	270
22123.000	2x26 W	6	12	17	28	22123.000	2x26 W	825	550	413	310
22135.000	2x26 W	6	12	17	28	22135.000	2x26 W	825	550	413	310
22225.000	2x26 W	6	12	17	28	22225.000	2x26 W	825	550	413	310
Connected lo	oad	ı			Connected	load per 100lx		Number		ires per 10	0lx 1/100m ²

Connected load			Connected lo	oad per	100lx	Number of lur	Number of luminaires per 100lx					
22122.000	P:	35 W	22122.000	P*:	2.25 W/m ²	22122.000	n*:	6.44 1/100m ²				
22134.000	P:	35 W	22134.000	P*:	2.25 W/m ²	22134.000	n*:	6.44 1/100m ²				
22224.000	P:	35 W	22224.000	P*:	2.25 W/m ²	22224.000	n*:	6.44 1/100m ²				
22123.000	P:	52 W	22123.000	P*:	2.92 W/m ²	22123.000	n*:	5.61 1/100m ²				
22135.000	P:	52 W	22135.000	P*:	2.92 W/m ²	22135.000	n*:	5.61 1/100m ²				
22225.000	P:	52 W	22225.000	P*:	2.92 W/m ²	22225.000	n*:	5.61 1/100m ²				

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Housing: cast aluminium, designed as heat sink. Mounting ring: cast aluminium, white

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be

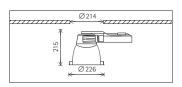
removed for lamp replacement without tools

Accessories page 718

22109.000 Reflector silver ECG DALI 2xTC-TELI 18W GX24q-2 1200lm

Weight 2.10kg LMF C

DALI PLUG+ PLAY







UGR 0.44 UGR 16.4 55° < 200 cd/m²

22140.000 Reflector silver ECG 1-10V **22230.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm

Weight 2.10kg LMF C © © ©

Number of luminaires per 100m² for Illuminance E_n (lx) for module (m) 100lx 200lx 300lx 500lx 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 22109.000 2x18 W 22109 000 2x18 W 10 19 28 46 508 338 254 190 22140.000 2x18 W 28 46 22140.000 2x18 W 508 254 190 19 338 10 22230.000 2x18 W 10 19 28 46 22230.000 2x18 W 338 254 190 Connected load Connected load per 100lx Number of luminaires per 100lx 22109.000 3.28 W/m² 9.12 1/100m² 36 W 22109.000 22109.000 n*: 22140.000 36 W 22140.000 3.28 W/m² 22140.000 9.12 1/100m² 22230.000 36 W 22230.000 3.28 W/m² 22230.000 9.12 1/100m²







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser: plastic, translucent, can be

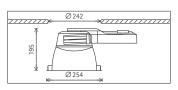
removed for lamp replacement without tools.

Accessories page 718

22128.000 Reflector silver ECG DALI 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.20kg LMF C **⋘** ▲ •

DALI PLUG+ PLAY







LOR 0.48 UGR 20.6 65° < 200 cd/m²

22137.000 Reflector silver ECG 1-10V **22227.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

22128.000 2x32 W 5 9 22137.000 2x32 W 5 9				for				Illuminance	E _n (lx) for r	nodule (m)			
			100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
22128.000	2x3	32 W	5	9	13	22		22128.000	2x32 W	1088	725	544	408
22137.000 2x32 W		32 W	5	9	13	22		22137.000	2x32 W	1088	725	544	408
22227.000	0 2x32 W 5 9 13 22		22227.000	2x32 W	1088	725	544	408					
Connected lo					Connected lo	oad per			Number	of lumina	ires per 10		
22128.000 P: 66 W				22128.000	P*:	2.81 W/m ²		22128.0	000 n	t: 4.25 1/100m ²			
22137.000	P:	66 W				22137.000	P*:	2.81 W/m ²		22137.0	000 n	*: 4.25	1/100m ²
22227.000	P:	66 W				22227.000	P*:	2.81 W/m ²	W/m ²		000 n	*: 4.25	1/100m ²





DALI PLUG+ PLAY



Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

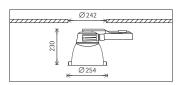
Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be

removed for lamp replacement without

Accessories page 718

22103.000 Reflector silver ECG DALI 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.10kg LMF C







LOR 0.46 UGR 16.8 55° < 200 cd/m²

22143.000 Reflector silver ECG 1-10V **22233.000** Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.10kg LMF C & @ ©

Number of I	umina	ires per	r 100m ²	for			Illuminance	E _n (lx) for n	nodule (m)					
			100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
22103.000	2x2	26 W	6	12	18	29		22103.000	2x26 W	806	537	403	302	
22143.000 2x26 W		26 W	6	12	18	29		22143.000	2x26 W	806	537	403	302	
22233.000	2x2	26 W	6	12	18	29		22233.000	2x26 W	806	537	403	302	
Connected lo	oad					Connected lo	ad per	100lx		Number	of lumina	ires per 10	Olx	
22103.000	P:	52 W				22103.000	P*:	2.99 W/m ²		22103.0	00 n	*: 5.75	1/100m ²	
22143.000	P:	52 W				22143.000	P*:	2.99 W/m ²		22143.0	00 n	*: 5.75	1/100m ²	
22233.000	P:	52 W				22233.000	P*:	2.99 W/m ²		22233.0	00 n	*: 5.75	1/100m ²	









Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp.
Electronic control gear, plug and play connectivity with DALI version.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.
Diffuser: plastic, translucent, can be

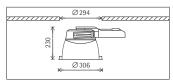
removed for lamp replacement without tools

Accessories page 718

22130.000 Reflector silver ECG DALI 2xTC-TELI 42W GX24q-4 3200lm

Weight 2.70kg LMF C & & ©

PLAY







LOR 0.65 UGR 21.2 65° < 200 cd/m²

713

22138.000 Reflector silver ECG 1-10V **22228.000** Reflector silver ECG 2xTC-TELI 42W GX24q-4 3200lm

Weight 2.70kg LMF C

Number of Iu	uminai	ires per	100m ²	for			Illuminance	Illuminance E _n (lx) for module (m)								
			100lx	200lx	300lx	500lx			1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4				
22130.000	2x4	2 W	3	5	8	12		22130.000	2x42 W	1940	1293	970	727			
22138.000	22138.000 2x42 W 3			5	8	12		22138.000	2x42 W	1940	1293	970	727			
22228.000	2x4	2 W	3	5	8	12		22228.000	2x42 W	1940	1293	970	727			
Connected lo					Connected load per 100lx				Number of luminaires per 100l							
22130.000	22130.000 P: 87 W				22130.000	P*:	2.08 W/m ²	22130.0	000 n ⁴	: 2.39	1/100m ²					
22138.000	P:	87 W				22138.000	P*:	2.08 W/m ²		22138.0	000 n ⁴	: 2.39	1/100m ²			
22228.000	P:	87 W				22228.000	P*:	2.08 W/m ²	W/m ² 2222			t: 2.39	1/100m ²			

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heat sink.
Mounting ring: cast aluminium, white
(RAL9002) powder-coated. Fitting
without tools with 4-point support and
screw fixing, for ceiling thicknesses of
1-30mm.

Housing: cast aluminium, designed as

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be

removed for lamp replacement without tools

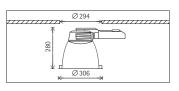
Accessories page 718

22104.000 Reflector silver ECG DALI 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.60kg LMF C

DALI PLUG+

PLAY







22234.000

LOR 0.48 UGR 14.8 55° < 200 cd/m²

4.12 1/100m²

22144.000 Reflector silver ECG 1-10V **22234.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.60kg LMF C

22234.000

66 W

Number of luminaires per 100m² for Illuminance E_n (lx) for module (m) 100lx 200lx 300lx 500lx 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 22104 000 22104000 2x32 W 2x32 W 5 9 13 21 1124 749 562 422 22144.000 5 21 22144.000 562 422 2x32 W 9 13 2x32 W 1124 749 22234.000 2x32 W 13 22234.000 2x32 W 1124 749 562 422 Connected load Connected load per 100lx Number of luminaires per 100lx 2.72 W/m² 22104.000 66 W 22104.000 22104.000 4.12 1/100m² n*: 22144.000 66 W 22144.000 2.72 W/m² 22144.000 4.12 1/100m²

2.72 W/m²

22234.000

Lightcast Washlight for TC-D lamps







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1.20mm

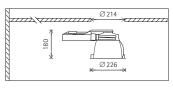
Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°.

Accessories page 718

22177.000 Reflector silver ECG DALI 2xTC-DEL 18W G24q-2 1200lm

Weight 2.10kg LMF C **‰** ♠ ��

DALI PLUG+ PLAY





 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.20
 1.50

 Illuminance E_n (lx)
 143
 110
 86
 69

22121.000 Reflector silver ECG 1-10V **22211.000** Reflector silver ECG 2xTC-DEL 18W G24q-2 1200lm

Weight 2.10kg LMF C **W** ♠ **©** •

Lightcast Washlight for TC-D lamps





Size 8 30°

Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version.

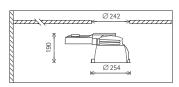
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Accessories page 718



Weight 2.70kg LMF C **%** 🕸 🕑

DALI PLUG+

PLAY





Mean illuminance E_n (Ix) Wall height (m) 3.0

Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 250 193 155 126

22127.000 Reflector silver ECG 1-10V 22217.000 Reflector silver ECG 2xTC-DEL 26W G24q-3 1800lm

Weight 2.70kg LMF C

Lightcast Washlight for TC-T lamps







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear.

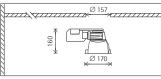
Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be removed for lamp replacement without

Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 0.60 0.90 0.90 0.90 0.60 0.60 0.90 1.20 Luminaire spacing (m) 95

22274.000 Reflector silver ECG 1-10V **22273.000** Reflector silver ECG TC-TELI 18W GX24q-2 1200lm

Weight 1.40kg LMF C **%** 🕸 🚾 🚱





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Illuminance E_n (lx) 70 51 39

removed for lamp replacement without







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be

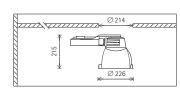
tools. Accessories page 718

22100.000 Reflector silver ECG DALI 2xTC-TELI 18W GX24q-2 1200lm

Weight 2.10kg LMF C

DALI PLUG+

PLAY





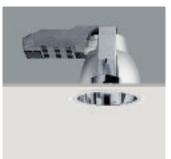
Mean illuminance E_n (lx)

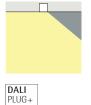
Offset from wall (m)		0.90		
Luminaire spacing (m) Illuminance E _n (lx)	115	1.20 87	67	54

22281.000 Reflector silver ECG 1-10V **22280.000** Reflector silver ECG 2xTC-TELI 18W GX24q-2 1200lm

Weight 2.10kg LMF C **4** <u>@</u> <u>@</u>

Lightcast Washlight for TC-T lamps







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be

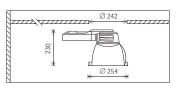
removed for lamp replacement without

Accessories page 718

22105.000 Reflector silver ECG DALI 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.10kg LMF C

PLAY





Mean illuminance E_n (Ix)

Wall height (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 176 133 101 81

22283.000 Reflector silver ECG 1-10V 22282.000 Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.10kg LMF C





Size 10 40°

Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Darklight reflector: aluminium, bright anodised. Cut-off angle 40°. Diffuser: plastic, translucent, can be

removed for lamp replacement without

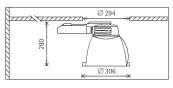
Accessories page 718

22110.000 Reflector silver ECG DALI 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.60kg LMF C

DALI PLUG+

PLAY





Mean illuminance E_n (Ix)

Wall height (m) 3.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 238 180 133 107

22287.000 Reflector silver ECG 1-10V **22286.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.60kg

Lightcast Wallwasher for TC-D lamps







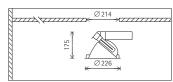
Housing: metal, black powder-coated. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1-30mm. 2 cable entries. 5-pole terminal block. Through-wiring possible. Electronic control gear.

Upper reflector: aluminium, silver anodised.

Darklight reflector: plastic, mirror-finish aluminium vaporised. Scratch resistant special coating. Cut-off angle 40°. Accessories page 718

82508.000 Reflector silver ECG 2xTC-DEL 18W G24q-2 1200lm

Weight 1.60kg LMF C **4** <u>0</u> <u>0</u> 0





Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m)

0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 227 176 146 119

Lightcast Wallwasher for TC-D lamps







Housing: metal, black powder-coated. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1-30mm.

2 cable entries, through-wiring possible.

5-pole terminal block. Electronic control gear.
Upper reflector: aluminium, silver anod-

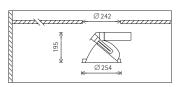
ised.

Darklight reflector: plastic, mirror-finish aluminium vaporised, outside white. Scratch resistant special coating. Cutoff angle 40°.

Accessories page 718

82512.000 Reflector silver ECG 2xTC-DEL 26W G24q-3 1800lm







Mean illuminance E_n (lx)

Wall height (m) Offset from wall (m) 3.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m)
Illuminance E_n (lx)

Lightcast Wallwasher for TC-T lamps







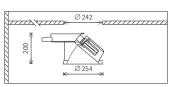
Housing: metal, black powder-coated. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1–30mm.
Electronic control gear. 2 cable entries, through-wiring possible. 5–pole terminal block.

Upper reflector: aluminium, silver anod-

Darklight reflector: plastic, mirror-finish aluminium vaporised, outside white. Scratch resistant special coating. Cut-off angle 40°. Accessories page 718

89908.000 Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Weight 1.70kg LMF C **₹**10 <u>66</u> <u>©</u> 60





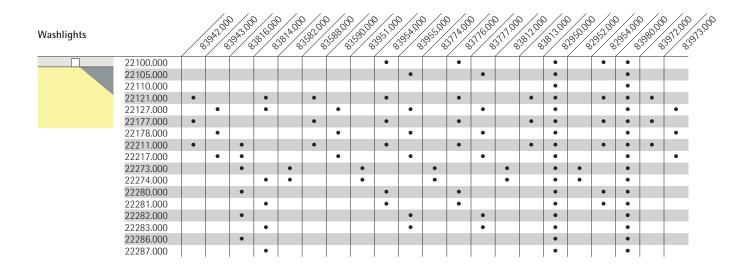
Mean illuminance E_n (lx)

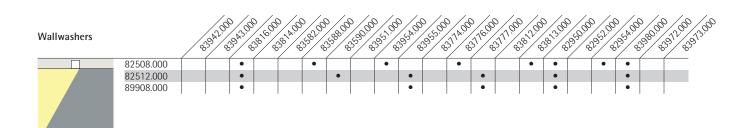
Wall height (m) 3.0 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx) 456 352 299 243

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Lightcast Accessories

Downlights		/&	3942.00	3943.06	3816.0	3814.00	3587.0	358819	3590.06	395/19	3954.05	3959.0	374.09	3716.05	3/1/98	3817.10	3813.0	9/9/9/9	295210	254.00	338019	3972.00	3,13,00
	22103.000			ĺ							•			•			•			•			
	22104.000																•			•			
	22109.000									•			•				•		•	•			
	22112.000					•			•			•			•		•	•		•			
	22119.000	•			•		•			•			•			•	•		•	•	•		
	22120.000	•					•			•			•			•	•		•	•	•		
	22122.000						•			•			•			•	•		•	•			
	22123.000						•			•			•			•	•		•	•			
	22124.000		•					•			•			•			•			•		•	
	22126.000		•		•			•			•			•			•			•		•	
	22128.000							•			•			•			•			•			
	22130.000																•			•			
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	22216.000		•	•				•			•			•			•			•		•	
	22224.000			•			•			•			•			•	•		•	•			
	22225.000			•			•			•			•			•	•		•	•			
	22227.000			•				•			•			•			•			•			
	22228.000			•													•			•			
	22230.000			•						•			•				•		•	•			
	22233.000			•							•			•			•			•			
	22234.000			•													•			•			
	22267.000			•		•			•			•			•		•	•		•			
	22268.000				•	•			•			•			•		•	•		•			
	22270.000			•		•			•			•			•		•	•		•			
	22271.000				•	•			•			•			•		•	•		•			





Lightcast Accessories



83942.000 83943.000 Decorative circular disc Plastic white, translucent, mirror finish.



83816.000

295

ÇQ 214

¥70

→ (43.5)



83814.000

50 κ 72



DALI DALI analogue converter 230V \pm 10%, 5A
For connection of luminaires with ECG
1-10V to Light System DALI.
Conversion of a DALI signal into a
1-10V signal.
Internal relay for inductive loads of Mounting on DIN rail. Weight 0.22kg







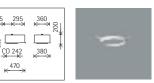


DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching ohmic, inductive and capacitive loads

DALI interface with two independent

addresses.
Mounting on DIN rail.
Weight 0.21kg

83590.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 5.20kg



83951.000 83954.000 83955.000 Plaster ring Metal, white. Height 20mm.





Ø170 C0Ø174

Lightcast Accessories



83776.000

Mounting ring









83777.000 Mounting ring Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.





83812.000 Spacer plate Plastic. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.11kg





83813.000 Spacer plate Plastic. For flush-mounting of downlights in concrete housings in exposed concrete Weight 0.19kg



82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



82952.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Module 100 (85/15, 84/16). For downlights with ceiling aperture ø 157mm. Recessing dimen-sion 187x187mm.



82954.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Module 100 (85/15, 84/16). For downlights with ceiling aperture ø 214mm. Recessing dimen-sion 287x287mm.



83980,000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.



83972.000 83973.000 Decorative circular disc. Metal ring, white. 3 spacer sleeves, metal chrome-plated.

Compact HIT



"Pleats Please" Issey Miyake Store, Bangkok. Interior design: Keisuke Fujiwara Design Office, Tokyo.

721

In the Compact HIT, the Spherolit technology has being introduced into the field of recessed ceiling luminaires. The individual radii of each Spherolit mean that this reflector technology produces a light beam that meets the highest uniformity requirements, while the appearance of the reflector gives the ceiling a new and attractive appearance. The lighting technology of the luminaire has been optimised in terms of efficient visual comfort by using an anti-dazzle cone and a cut-off angle of 30°. This combination of economic ambient light, interesting appearance and particularly shallow recess depth make the Compact HIT a truly unique luminaire.

The decision to limit the use of lamps to the metal halide version was made on the basis of energy efficiency. This light source has excellent luminous efficacy, brilliant light and good colour rendition. The non-reflecting safety glass with a very high transmission improves the light output ratio of the luminaire. The Compact HIT is an ideal lighting tool for promotional areas in shops or administrative buildings, where economical solutions and brilliance are required for the illumination of merchandise, objects and material. The different light distributions for downlights, washlights and double washlights allow Compact HIT to be used for both horizontal and vertical illumination.

Compact HIT



The housing and the mounting ring are of white plastic. The luminaire is closed off by a safety glass. The aluminium Darklight reflector is mirror-finish silver anodised. Assembly without tools is facilitated by the fixing springs at the side. The necessary control gear is available as an accessory. The luminaires have a cut-off angle of 30°. An anti-dazzle cap attached to the non-reflecting safety glass prevents glare from the lamp providing visual comfort.

Downlights



The downlights have Spherolit reflectors, wide flood, for metal halide lamps from 20W to 70W. Luminaires with a cut-off angle of 30° are available in sizes 3 to 5.

Application Wide beam, rotationally symmetrical light distribution for ambient lighting in areas such as waiting rooms, sales areas and promotional

Washlights



The washlights with Spherolit reflector, washlight, are available with metal halide lamps up to 35W in sizes 4 and 5.

Application

Asymmetrical light distribution, directed downwards and for uniform illumination of walls. These are mainly used in conjunction with downlights of the same size. Applications include ambient room lighting including trade fair stands, exhibitions, sales areas and promotional areas.

Double washlights



The double washlights with Spherolit reflectors are available with 35W metal halide lamps in sizes 4 and 5.

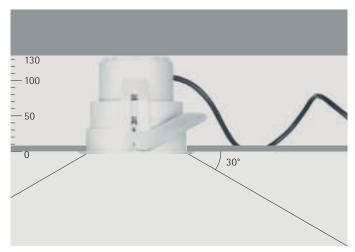
Application

Axially symmetrical light distribution for illumination of parallel walls and for ambient room lighting including corridors and hallways.

Compact HIT

Downlights

The use of the patented Spherolit technology for Compact HIT downlights has resulted in new aesthetics in terms of downlight lighting. The spherolits produce bright reflections in the reflector to increase the contrast between luminaire aperture and ceiling. Compared with the conventional Darklight technology, Compact HIT have a cut-off angle of 30° to ensure high visual comfort. The luminance distribution on the individual Spherolits results in a comfortable brightness distribution in the reflector.



The cut-off angle of 30° of the Compact HIT increases the visual comfort and prevents direct glare. Considering the shallow recess depth, the quality of light produced is particularly impressive. Easy mounting and the compact dimen-

sions of Compact HIT are aspects which can have a positive effect on the overall cost-effectiveness of a building project.



The mirror-finish coating of the metallic antidazzle cap helps to produce a very high light output ratio as does the optimised Spherolit reflec-

tor. The output ratio is further enhanced by the coated safety glass of the Compact HIT due to its very high transmission factor.

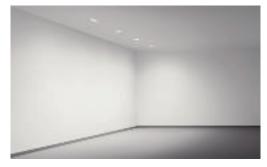


Modern metal halide lamps with ceramic discharge tubes combine brilliant light and extreme luminous efficacy with good colour stability and colour rendition. The low energy consumption and high luminance make this lamp a highly efficient light source.



The Compact HIT recessed ceiling luminaires as washlights with a Spherolit reflector, washlight, and as double washlights with a Spherolit reflector, double washlight, add a vertical component to the horizontal lighting – for efficient visual

comfort, e.g. in retail or in administrative buildings.



Washlights
These recessed
ceiling luminaires uniformly
illuminate wall
surfaces from
the ceiling to

the floor and appear in the room just as if it were a downlight





Double washlights
This type of
luminaire uniformly illuminates parallel
walls in hallways
and corridors in
addition to the
floor.

723

Compact HIT Downlight for metal halide lamps



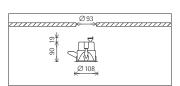


Size 3 Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm.

Connection cable with plug, L 500mm. Spherolit reflector, wide-flood: aluminium, silver, mirror-finish anodised. Cut-off angle 30°. Anti-dazzle cap: aluminium, silver anodised, mirror-finish, fixed to non-reflecting safety glass. Control gear to be ordered separately. Accessories page 727

83266.000 Reflector silver HIT-TC-CE 20W PGJ5 1650lm

Weight 0.29kg LMF F 日本 🌑 🅸 🤓 📵



300lx

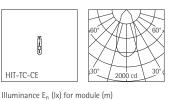
31

500lx

51



83266.000 20 W



UGR 200 cd/m² 75° <

171

Number of luminaires per 100m² for 100lx 200lx

83266.000	20 W	11	21

Connected load per 100lx

305 Number of luminaires per 100lx

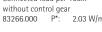
1.8x1.8

457

n*: 10.13 1/100m²

228

Connected load without control gear 83266.000 P: 20 W



2.03 W/m² 83266.000



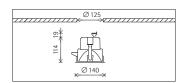


Size 4 Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm. Connection cable with plug, L 500mm. Spherolit reflector, wide-flood: aluminium, silver, mirror-finish anodised.
Cut-off angle 30°. Anti-dazzle cap: aluminium, silver, mirror-finish anodised, fixed to non-reflecting safety glass. Control gear to be ordered separately.

Accessories page 727

83267.000 Reflector silver HIT-TC-CE 35W G8.5 3500lm









0.68 UGR 200 cd/m² 75° <

Number of luminaires per 100m² for

vuilloct of it	anninancs po	1100111	101		
		100lx	200lx	300lx	500lx
33267.000	35 W	4	8	12	20

Illuminance E_n (lx) for module (m)

83267.000 35 W 1166 777 583 437

Connected load without control gear 83267.000 P: 35 W Connected load per 100lx without control gear 83267.000 P*: 1.39 W/m² Number of luminaires per 100lx

83267.000 n*: 3.97 1/100m²



Compact HIT downlights feature high luminous flux and their appearance provides an attractive alternative to downlights with Darklight reflectors, while boasting good visual comfort.

Compact HIT Downlight for metal halide lamps

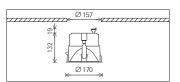




Size 5
Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm.
Connection cable with plug, L 500mm.
Spherolit reflector, wide-flood: aluminium, silver, mirror-finish anodised.
Cut-off angle 30°. Anti-dazzle cap: aluminium, silver, mirror-finish anodised, fixed to non-reflecting safety glass.
Control gear to be ordered separately.
Accessories page 727

83276.000 Reflector silver HIT-CE 35W G12 3500lm HIT-CE 70W G12 7300lm









LOR 0.70 UGR 20.5 75° < 200 cd/m²





LOR 0.70 UGR 23.0 75° < 200 cd/m²

Number of lu	minaires p	er 100m²	for		
		100lx	200lx	300lx	500lx
83276.000	35 W	4	8	12	20
83276.000	70 W	2	4	6	10

1.8x1.8 1.8x2.4 2.4x2.4 795 596 447 1658 1244 933

Connected without con			
83276.000	P:	35	١
83276.000	P:	70	١

Connected load per 100lx without control gear 83276.000 P*: 1.36 W/m² 83276.000 P*: 1.30 W/m² Number of luminaires per 100lx

83276.000 n*: 3.88 1/100m² 83276.000 n*: 1.86 1/100m²

Compact HIT Washlight for metal halide lamps

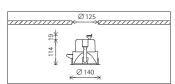




Size 4
Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm.
Connection cable with plug, L 500mm. Spherolit reflector, washlight: aluminium, silver, mirror-finish anodised. Cut-off angle 30°. Anti-dazzle cap: aluminium, silver, mirror-finish anodised, fixed to Softec lens.
Control gear to be ordered separately.
Accessories page 727

83280.000 Reflector silver HIT-TC-CE 20W G8.5 1700lm







 Mean illuminance E_n (lx)
 3.0
 1.20
 1.20
 1.20
 1.20
 1.20
 1.20
 1.20
 1.20
 1.20
 1.50
 1.50
 1.50
 1.50
 54
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Compact HIT Washlight for metal halide lamps

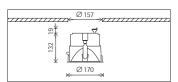




Size 5
Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm.
Connection cable with plug, L 500mm. Spherolit reflector, washlight: aluminium, silver, mirror-finish anodised. Cut-off angle 30°. Anti-dazzle cap: aluminium, silver, mirror-finish anodised, fixed to Softee lens.
Control gear to be ordered separately.
Accessories page 727

83282.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm

Weight 0.80kg LMF F 日本 **W** 企 **©** ©







 Mean illuminance E_n (lx)

 Wall height (m)
 4.0

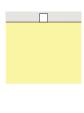
 Offset from wall (m)
 1.20
 1.20
 1.50
 1.50

 Luminaire spacing (m)
 1.20
 1.50
 1.80

 Illuminance E_n (lx)
 150
 127
 107
 90

Compact HIT Double washlight for metal halide lamps

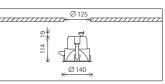




Size 4
Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm.
Connection cable with plug, L 500mm. Spherolit reflector, double washlight: aluminium, silver, mirror-finish anodised. Cut-off angle 30°. Anti-dazzle cap: aluminium, silver, mirror-finish anodised, fixed to Softec lens.
Control gear to be ordered separately.
Accessories page 727

83281.000 Reflector silver HIT-TC-CE 20W G8.5 1700lm







 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance E_n (lx)
 125
 96
 74
 60



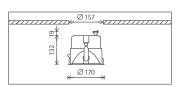


Size 5
Housing and mounting ring: plastic, white (RAL9002), with fixing springs for ceiling thickness up to 25mm.
Connection cable with plug, L 500mm. Spherolit reflector, double washlight: aluminium, silver, mirror-finish anodised. Cut-off angle 30°. Anti-dazzle cap: aluminium, silver, mirror-finish anodised, fixed to Softec lens. Control gear to be ordered separately.

Accessories page 727

83283.000 Reflector silver HIT-CE 20W G12 1700lm HIT-CE 35W G12 3500lm







Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix)

 Mean illuminance En (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 1.20
 1.20
 1.50
 1.50

 Luminaire spacing (m)
 1.20
 1.50
 1.80
 1.80

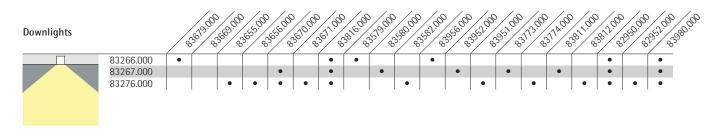
 Illuminance En (kx)
 176
 143
 122
 103

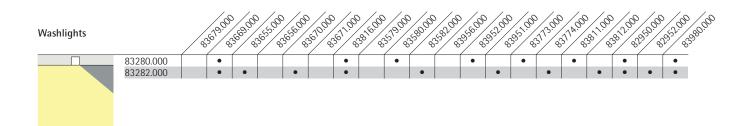
0.90 0.90 1.20 1.20

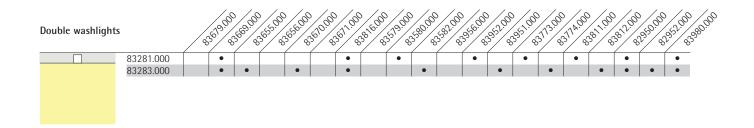
0.90 1.20 1.20 1.50 **144 110 89 72**



Compact HIT Accessories

















83655,000

Weight 0.65kg







83679.000 Control gear for HIT-TC-CE 20W, PGJ5. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg



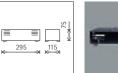
83669,000

Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg

Control gear for HIT_TC-CE 35W, GU6.5 and HIT-CE 35W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. 83656,000 Control gear for HIT-CE 70W, G12. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. 5-pole terminal block. Strain relief. Through-wiring possible. Connection cable with plug, L 200mm. Weight 0.65kg





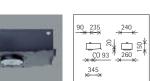






83816.000





83670.000 Control gear for HIT and HIPAR 35W. Metal, black powder-coated. Control gear 230V, 50Hz/60Hz, with temperature controller, timer-ignitor, Not for concrete housing. Weight 2.00kg **⋘** ♠ ♥♥TS-115



DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A. DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg

83579.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete Weight 2.80kg

Compact HIT Accessories





83580.000 83580.000
Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for
the concrete. Weight 4.60kg



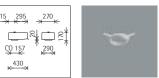
83582.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.60kg

295 270

430

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Ø143



83956.000 83952.000 83951.000 Plaster ring Metal, white. Height 20mm.



83773.000 Mounting ring Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.

Ø140 C0Ø144





83774.000 Mounting ring Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.



83811.000 Spacer plate For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.08kg



83812.000 Spacer plate For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.11kg



82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



82952.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Module 100 (85/15, 84/16). For downlights with ceiling aper-ture ø 157mm. Recessing dimen-sion 187x187mm.



83980.000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Starpoint



Restaurant Bistro Lyonel, Neu-Isenburg. Architect: Tom Eisenbach, Frankfurt.

729

Low-voltage halogen lamps, especially with coolbeam technology, have become a standard in lighting design. The advantages of these light sources are their small dimensions, robust design and low thermal load on the illuminated objects. Starpoint is a comprehensive range of small, decorative downlights and directional luminaires for low-voltage halogen lamps

low-voltage halogen lamps.
Additional brilliance is achieved by decorative elements such as etched glass rings or glass cylinders. The beam characteristics of the coolbeam lamps to be used are only minimally affected by the decorative attachments. Downlights direct the light downwards in a conical shape. In directional luminaires, the lamp can be tilted up to 30° from the vertical and rotated through 360°. The appearance of downlights and directional luminaires is the same when mounted in the ceiling.

Starpoint



The housings and lampholder carriers are cast aluminium, the mounting rings are aluminium vaporised plastic. Starpoint is available in sizes 2 to 4. Concrete housings, plaster rings, cover rings and mounting rings for flush ceiling mounting are available as accessories for almost all luminaires. The transformers for the lamps are to be ordered separately.

Downlights



The decorative features visible from below can be either reflectors, etched glass rings or glass cylinders. The reflectors and covers are metal with a mirror-finish silver surface.

Application
Rotationally symmetrical, narrow to wide beam light distribution, mainly for decorative ambient lighting or narrow beam accent lighting, in exhibitions, sales areas and promotional areas.

Directional luminaires



The lampholder mountings of the directional luminaires can be tilted up to 30° and rotated through 360°. The reflectors are metal with a mirror-finish silver surface.

Application
Rotationally symmetrical, narrow to wide beam light distribution, mainly for decorative ambient lighting or narrow beam accent lighting, in exhibitions, sales areas and promotional areas.



Seestern Hotel, Düsseldorf. Architect: Schneider + Schumacher, Frankfurt.





89341.000 QR-CBC35 20W 12V GU4 10° QR-CBC35 20W 12V GU4 38°

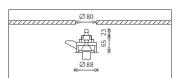


Weight 0.20kg 日本 《 命 ® ●



Lampholder carrier: cast aluminium. Mounting ring: plastic, silver, mirrorfinish aluminium vaporised, with fixing springs for ceiling thickness max.

Cover: metal, silver, mirror-finish. Removable for lamp replacement. Glass cylinder: clear, ø 30mm, H 28mm. Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736



Size 3

Lampholder carrier: plastic. Mounting ring: plastic, silver, mirrorfinish aluminium vaporised, with fixing springs for ceiling thickness max.





h(m) E(Ix) D(m) 10° 4500 1125 2 0.35 0.52 500 281 0.70 180 0.87





h(m) E(Ix) D(m) 39° 700 0.71 2 175 1.42 78 2.12 44 2.83 28 3.54

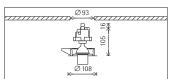


89361.000 QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°



Weight 0.25kg LMF D 日本 🌑 🅸 🖭 🕪

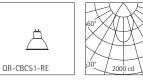








E(Ix) D(m) h(m) 12500 0.17 2 3125 0.35 3 1389 0.52 781 0.70 500 0.87



h(m) E(Ix) D(m) 60° 1100 1 15 2 275 2.31 3 122 3.46 69 4.62 44 5.77



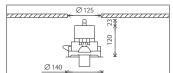
89221.000 QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°



Weight 0.65kg LMF_E 日本 《 命 ® ●



movable for lamp replacement. Glass cylinder: clear, ø 40mm, H 35mm. Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736





QR-CBC51-RE



I	h(m)	E(Ix)	D(m)
			10°
60°,	1	15000	0.17
\sim	2	3750	0.35
\backslash	3	1667	0.52
1	4	937	0.70
30°	5	600	0.87

D(m) h(m) E(Ix) 1430 1.15 2 357 2.31 3 159 3.46 4.62 5.77

www.erco.com





Cable, L 500mm.

Size 2

Lampholder carrier: cast aluminium. Mounting ring: plastic, silver, mirrorfinish aluminium vaporised, with fixing springs for ceiling thickness max.

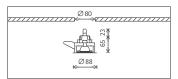
Cover ring: metal, silver, mirror-finish. Removable for lamp replacement. Glass ring: frosted, aperture diameter

Transformer according to EN 61558 or EN 61347 to be ordered separately.

Accessories page 736

















E(Ix) D(m) h(m) 0.71 175 1.42 78 2.12 44 2.83 28 3.54





Size 3 Lampholder carrier: plastic. Mounting ring: plastic, silver, mirrorfinish aluminium vaporised, with fixing springs for ceiling thickness max.

Cable, L 500mm.

Cover ring: metal, silver, mirror-finish. Removable for lamp replacement. Glass ring: frosted, aperture diameter

Transformer according to EN 61558 or EN 61347 to be ordered separately.

Lampholder carrier: cast aluminium. Concealed mounting ring: plastic, with fixing springs for ceiling thickness max.

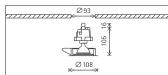
Cover ring: metal silver, mirror-finish. Removable for lamp replacement. Glass ring: frosted, aperture diameter 40mm. Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736

Accessories page 736



89371.000 QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°





Size 4

25mm. Cable, L 500mm.





1	h(m)	E(Ix)	D(m)
			10°
×	1	12500	0.17
	2	3125	0.35
1	3	1389	0.52
	4	781	0.70
١	5	500	0.87





7	h(m)	E(Ix)	D(m)
			60°
7	1	1100	1.15
	2	275	2.31
1	3	122	3.46
	4	69	4.62
٩	5	44	5.77





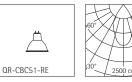


Weight 0.65kg LMF_D 日本 🌑 🕸 呛 🕪



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202 202 20140	





18000 cd 30

\	4	937	0.7
30°	4 5	600	0.8
F	h(m)	E(Ix)	D(m
60°,	1	1430	1.15
\times	2	357	2.31
	3	159	3.46
1	4	89	4.62
30°	5	57	5.77

h(m)

2

E(lx) D(m) 10°

15000 0.17

3750 0.35 1667 0.52





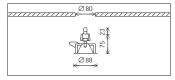
Lampholder carrier: cast aluminium. Mounting ring: plastic, silver, mirrorfinish aluminium vaporised, with fixing springs for ceiling thickness max.

Cable, L 500mm. Reflector: metal, mirror-finish. Removable for lamp replacement. Transformer according to EN 61558 or EN 61347 to be ordered separately.

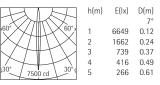
Accessories page 736

89225.000 Reflector silver QT9-ax 20W 12V G4 320lm











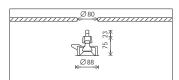


Lampholder carrier: cast aluminium. Mounting ring: plastic, silver, mirrorfinish aluminium vaporised, with fixing springs for ceiling thickness max. 25mm. Cable, L 500mm.

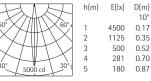
Reflector: metal, mirror-finish. Removable for lamp replacement.
Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736

89218.000 Reflector silver QR-CBC35 20W 12V GU4 10° QR-CBC35 20W 12V GU4 38°

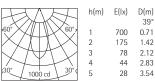
















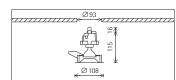
Size 3 Lampholder carrier: plastic. Mounting ring: plastic, silver, mirror-finish aluminium vaporised, with fixing springs for ceiling thickness max. 25mm.

Cable, L 500mm. Reflector: metal, mirror-finish. Removable for lamp replacement.

Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736

89217.000 Reflector silver QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°









$\overline{}$	h(m)	E(Ix)	D(m)
\times			10°
×60°	1	12500	0.17
\searrow	2	3125	0.35
	3	1389	0.52
	4	781	0.70
30°	5	500	0.87



H	X
60°	60°,
	7/X
\mathbb{A}	
30° 2000) cd 30° (

h(m) E(Ix) D(m) 60° 1100 1.15 275 2.31 122 3.46 4.62 5.77

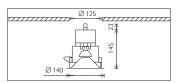




Size 4 Lampholder carrier: cast aluminium. Concealed mounting ring: plastic, with fixing springs for ceiling thickness max. 25mm. Cable, L 500mm. Reflector: metal, mirror-finish. Removable for lamp replacement. Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736

89216.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 60°

Weight 0.65kg LMF E 日本 🌑 🅸 🖭 🕪







h(m) E(Ix) D(m) 10° 0.17 15000 3750 0.35 1667 0.52 937 0.70 600 0.87

Ä
QR-CBC51-RE



D(m) h(m) E(Ix) 1430 1.15 357 2.31 159 89 4.62 57 5.77

Starpoint Directional luminaire for low-voltage halogen lamps

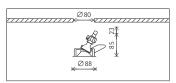




Lampholder carrier: cast aluminium. 0°-3'0° tilt, 360° rotation. Mounting ring: plastic, silver, mirror-finish aluminium vaporised, with fix-ing springs for ceiling thickness max. Cable, L 500mm. Reflector: metal, mirror-finish. Removable for lamp replacement. Transformer according to EN 61558 or EN 61347 to be ordered separately. **Accessories page 736**

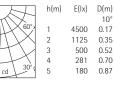
89203.000 Reflector silver QR-CBC35 20W 12V GU4 10° QR-CBC35 20W 12V GU4 38°



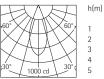












5000 ca	5	100	0.67
AF	h(m)	E(Ix)	D(m)
(60°)	1	700	0.71
	2	175	1.42
11/1	3	78	2.12
	4	44	2.83
1000 cd 30°	5	28	3.54

Starpoint Directional luminaire for low-voltage halogen lamps



89202.000 Reflector silver

QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 36°



Weight 0.20kg 日本 《 命 ® ●

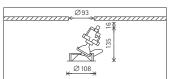


Lampholder carrier: plastic. 0°-30° tilt, 360° rotation.

Mounting ring: plastic, silver, mirror-finish aluminium vaporised, with fix-ing springs for ceiling thickness max.

25mm. Cable, L 500mm. Reflector: metal, mirror-finish. Removable for lamp replacement.

Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 736







h(m) E(Ix) D(m) 12500 0.17 3125 2 0.35 1389 0.52 781 0.70 500 0.87





h(m) E(Ix) D(m) 2200 0.65 2 550 1.30 1.95 137 2.60 88 3.25



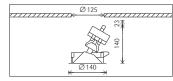


Size 4 Lampholder carrier: cast aluminium. 0°-30° tilt, 360° rotation. Concealed mounting ring: plastic, with fixing springs for ceiling thickness max. 25mm. Cable, L 500mm.
Reflector: metal, mirror-finish. Removable for lamp replacement.
Transformer according to EN 61558 or EN 61347 to be ordered separately.

Accessories page 736

89201.000 Reflector silver QR-CBC51-RE 50W 12V GU5.3 10° QR-CBC51-RE 50W 12V GU5.3 36°









E(lx) D(m) h(m) 15000 0.17 3750 2 0.35 3 1667 0.52 937 0.70 600 0.87





h(m) E(Ix) D(m) 2850 0.65 2 712 1.30 3 317 1.95 178 2.60 114 3.25

735

Georg Jensen Shop, New Bond Street, London. Architect: Signe Bindslev Henriksen, GJ Inter-national Retail, Copenhagen.



Starpoint Accessories

Downlights		635	877,000	831,00	833.00	879,00	816.00	819,00	218,000	319,000	380,00	356.00 835	852.000 85E	173.00	81100	³ 21100 ⁸²³⁸⁰ 100
	89216.000	•	•	•	•	•	•			•		•	•	•	•	•
	89217.000	•	•	•	•	•	•		•		•				•	•
	89218.000	•	•	•	•	•	•	•							•	•
	89221.000	•	•	•	•	•	•			•		•	•	•	•	•
	89225.000	•	•	•	•	•	•	•							•	•
	89226.000	•	•	•	•	•	•			•		•	•	•	•	•
	89341.000	•	•	•	•	•	•	•							•	•
	89351.000	•	•	•	•	•	•	•							•	•
	89361.000	•	•	•	•	•	•		•		•				•	•
	89371.000	•	•	•	•	•	•		•		•				•	•

Directional lumina	87	871000	837,000	833.00	939 july	976,000	879,000	218,000	519,000	380,000	356,000	352,000	11 / 6	87,000	2380.00	
	89201.000	•	•	•	•	•	•			•		•	•	•	•	•
	89202.000	•	•	•	•	•	•		•		•				•	•
	89203.000	•	•	•	•		•	•							•	•
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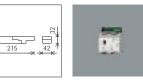














83817.000

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

furniture. Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed

83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

Plastic housing. Primary and secondary cable clamps and terminal blocks.
Short-circuit protection: electronic cut-out, reconnect once short-circuit is

cleared.
Overload and overheat protection: automatic load-sensing. Use dimmers for electronic transformers

(trailing edge). For interference suppression to VDE 0875, part 2, secondary conductor

length 2m max. For ceiling aperture ø 80mm, recessed depth 70mm Weight 0.19kg

♠ □ ♥ □ ♥ SELV ♥♥TS-115

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V control-

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. For ceiling aperture ø 80mm, recessed

depth 125mm Weight 0.20kg ② □ □ □ □ SELV ▼▼TS-115

83829.000 DALI

DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

Starpoint Accessories





83816.000 DALI

DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg



83819.000 Overvoltage pro-

tection device for max. 10 elec-tronic transformers. 45mm, B 25mm, L 45mm, B : H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



83578.000

Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 1.80kg

70 170 240 8 240 CO 80 260 260 260

Ø140

COØ 144



345

٠Ģ٠

Ø 143

83579.000

Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 2.80kg



Concrete housing

Weight 4.60kg

Metal, powder-coated. Recommended 0-8mm aggregate for the concrete.

83580.000



83956,000 83952.000

Plaster ring Metal, white. Height 20mm.



83773.000 Mounting ring

Metal, white powder-coated. For flush-mounting installation in plasterboard



83811.000 Spacer plate

For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.08kg



82950.000

Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83980.000

Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Compact 100



For standard applications, the Compact 100 product range of recessed luminaires are ideal due to their outstanding cost effectiveness. Designed for the ambient lighting of administrative and commercial rooms with heights of up to 3m, the Compact 100 luminaires exhibit a multitude of innovative and intelligent approaches for economical lighting without sacrificing quality and visual comfort. The number One Hundred in the name indicates a core feature: the extremely shallow 100mm recessed depth

In two ways, these luminaires provide ERCO's characteristically high visual comfort which is indicated by a cut-off angle > 30°: either through a novel microprism lens, which is visible in the ceiling as a light emitting aperture creating subtle luminance, or through the mirror-finished, four-cell Darklight reflector, which is surrounded by an additional, diffuse light ring.

Compact 100 recessed luminaires are normally fitted with two compact fluorescent lamps. They also contain electronic control gear making them ideal for low operating costs and long service intervals. In addition, the practical construction details of the Compact 100 luminaires include quick connection and mounting without tools, reducing the installation costs.

The DALI-compatible luminaires feature digitally addressable control gear, which can individually

address every single luminaire, i.e. using the ERCO Light System DALI and the pre-programmed ERCO Light Studio software.

Children's hospital, Lüdenscheid. Architect and Lighting designer: KKW Architekten, Altena.

Compact 100



The housing and reflectors are plastic, while the 4-cell Darklight reflectors are aluminium vaporised in silver. On the version with the light ring, some of the light from the lamps is emitted between the reflector and the housing. This means that the ring which is visible from below is seen as an independent, lighting element. A ringshaped, ribbed lens beneath the lamps ensures uniform luminance distribution of the light ring. In the version with microprism lens, the lens covers the apertures. Electronic control gear is used in both the standard and the controllable version. Mechanical mounting requires no tools.

Downlights with light ring



In principle, the downlights in this product range are in sizes 6 and 8. Downlights with a light ring have 4-cell Darklight reflectors of a smaller size (5 or 7) than the overall size of the luminaire. The ring created by the size difference is illuminated through a structured diffuser. The cut-off angle of the Darklight reflector is 30°. The reflector appears to float in the surrounding, brightly illuminated light

ring. Compact fluorescent lamps up to 2x26W are to be used.

Application

Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Downlights with microprism lens



For this version too, downlights are available in sizes 6 and 8. A microprism lens covers the entire aperture. Microprism lenses have prismatic structures which create a light distribution with a focal point but also wide-beam ambient lighting. They are to be used with compact fluorescent lamps up to 2x18W.

Application

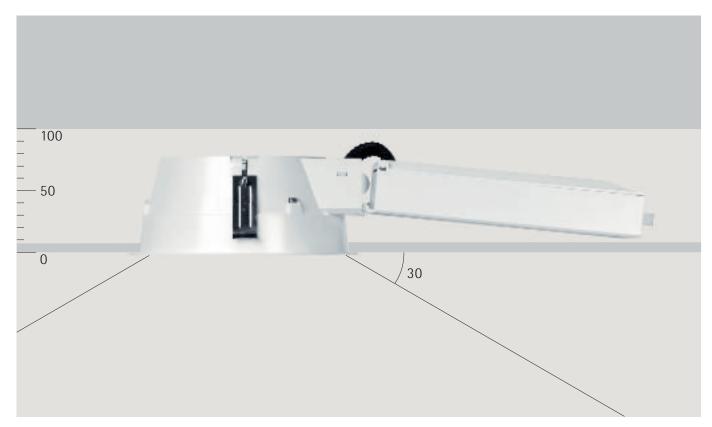
Rotationally symmetrical, wide beam light distribution for ambient lighting or lighting arranged for specific zones, including entrances and lobbies, thoroughfares and development zones.

739

Baths, Bad Boll. Architect: Michel+Wolf+ Partner, Stuttgart.



Compact 100



The number 100 in the product name indicates the extremely low recess depth of 100mm. The hinged control gear housing allows ceiling mounting even in confined spaces.

Compact 100 with darklight technology: a diffused light aperture looking like a row of windows surrounds the mirror-finished, four-cell reflector which has a cutoff angle 30°.



The version with the microprism lens as diffuser gives a visibly different appearance in the ceiling while providing comparable visual comfort.



Compact 100 Downlight with light ring







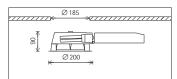
Size 5 30°

Size 6 Housing with mounting ring: plastic, white (RAL9016). Fitting without tools with spring clips, for ceiling thicknesses of 1-25mm.

Junction box with cable clamp. Through-wiring possible. 5-pole ter-minal block. Electronic control gear. 4-cell Darklight reflector: plastic, mirror-finish aluminium vaporised, outside white. Reflector size 5, cut-off angle

30°. Circular light ring: plastic, clear, ribbed. Accessories page 743

Weight 1.00kg LMF C **&** <u>©</u> © □



300lx

33

22





0.51 UGR CO UGR C90 20.4 197 85° < 200 cd/m²

2xTC-DEL

83261 000 2x10 W

83261.000

Illuminance E_n (lx) for module (m)



0.51 UGR CO 21.8 UGR C90 21.1 200 cd/m² 85° <

Number of luminaires per 100m² for 100lx 200lx 2x10 W

2x13 W

17

49 82 33 55

500lx

1.2x1.8 1.8x1.8 2.4x2.4 285 190 142 107 427 285 213 160

1.8x2.4

Connected load 20 W 83261 000 83261.000 26 W

83261 000

83261.000

Connected load per 100lx 3.25 W/m² 83261 000 83261.000 2.82 W/m² Number of luminaires per 100lx 83261.000 n*: 16.27 1/100m² 83261.000 10.85 1/100m²

Accessories page 743



83265.000 Reflector silver ECG 2xTC-DEL 18W G24q-2 1200lm



DALI PLUG+ PLAY

Weight 1.20kg LMF C

& © 0 0



Size 8

Housing with mounting ring: plastic, white (RAL9016). Fitting without tools with spring clips, for ceiling thicknesses of 1-25mm.

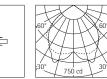
Junction box with cable clamp. Through-wiring possible. 5-pole terminal block. Electronic control gear, plug and play connectivity with DALI version.

4-cell Darklight reflector: plastic, mirror-finish aluminium vaporised, outside white. Reflector size 7, cut-off angle

Circular light ring: plastic, clear, ribbed.



2xTC-DEL



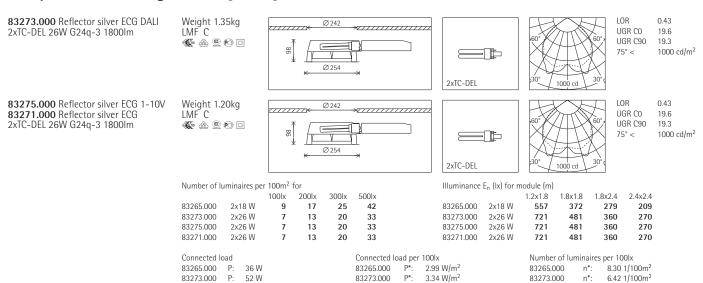
0.50 18.6 18.6 1000 cd/m²

741

>v//////////////// 98 Ø 254

LOR UGR CO UGR C90 65° <

Compact 100 Downlight with light ring



83275.000

83271.000

Compact 100 Downlight with microprism lens





83275.000

83271.000

52 W

52 W

Housing with mounting ring: plastic, white (RAL9016). Fitting without tools with spring clips, for ceiling thicknesses of 1-25mm. Junction box with cable clamp.

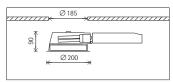
3.34 W/m²

3.34 W/m²

Through-wiring possible. 5-pole terminal block. Electronic control gear. Microprism lens, plastic, clear. Accessories page 743

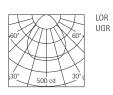
83260.000 ECG 2xTC-DEL 10W G24q-1 600lm 2xTC-DEL 13W G24q-1 900lm







2xTC-DEL



n*:

83275.000

83271.000

6.42 1/100m²

6.42 1/100m²



0.53

23.2

Number of luminaires per 100m ² for											
		100lx	200lx	300lx	5001						
83260.000	2x10 W	17	33	49	8						
83260.000	2x13 W	11	22	33	54						

Illuminance E_n (lx) for module (m) 1.8x1.8 83260 000 2x10 W 286 191 83260.000 2x13 W 429 286

2.4x2.4 143 107 215 161

Connected load Connected load per 100lx Number of luminaires per 100lx 83260.000 20 W 83260.000 3.23 W/m² 83260.000 16.17 1/100m² 83260.000 26 W 83260.000 2.80 W/m² 10.78 1/100m² 83260.000

Compact 100 Downlight with microprism lens

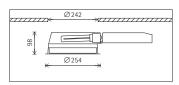




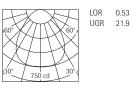
Size 8 Housing with mounting ring: plastic, white (RAL9016). Fitting without tools with spring clips, for ceiling thicknesses of 1-25mm. Junction box with strain relief. Through-wiring possible. 5-pole terminal block. Electronic control gear.
Microprism lens, plastic, clear.
Accessories see below

83264.000 ECG 2xTC-DEL 18W G24q-2 1200lm









Number of luminaires per 100m2 for

300lx 500lx 83264.000 2x18 W 17 25 41

83264.000 2x18 W

Illuminance E_n (lx) for module (m) 567 378 284 213

Connected load 83264.000 36 W Connected load per 100lx 83264.000 2.94 W/m² Number of luminaires per 100lx 8.16 1/100m²

Compact 100 Accessories

	\$S	616,00	83 ¹ 4.00	389.00	350,000 83°	180,00
83260.000	•			•	•	
83261.000	•			•	•	
83264.000	•		•	•	•	
83265.000	•		•	•	•	
83271.000	•		•	•	•	
83273.000			•	•	•	
83275 000		•	•	•	•	

















83816.000 DALI

DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent

addresses. Mounting on DIN rail. Weight 0.21kg

83814.000 DALI

DALI analogue converter 230V \pm 10%,

For connection of luminaires with ECG 1-10V to Light System DALI. Conversion of a DALI signal into a 1-10V signal.

Internal relay for inductive loads of Mounting on DIN rail.

Weight 0.22kg

83589.000

Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 4.60kg

Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote

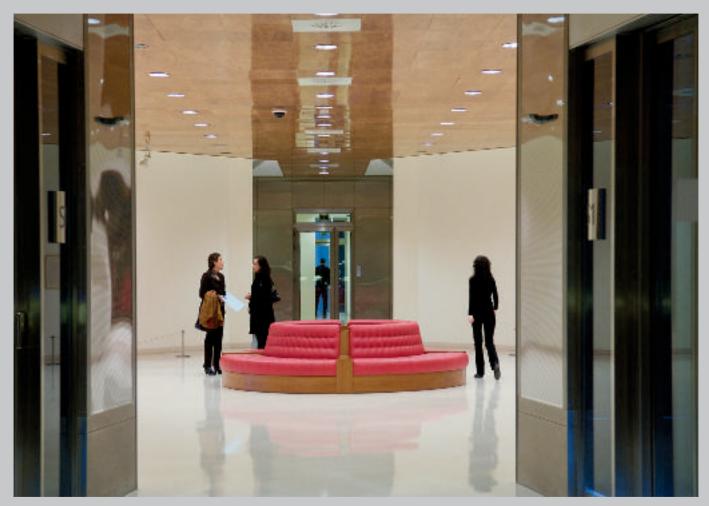
ceiling type and dimensions.

82950.000

83980.000 Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when

placing order.

CL downlights



With their 4-cell Darklight reflectors, the CL downlights combine the advantages of downlights with the features of linear louvred luminaires. The Darklight reflector provides optimal glare control with a defined cut-off angle. The essential advantages of compact fluorescent lamps are their long service life and the reduced energy consumption, especially when using electronic control gear. Their compact dimensions and energy efficiency makes them ideal for use in downlights. The DALI-compatible luminaires have digital control gear through which each luminaire can be individually addressed - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Fundación Banco Santander Central Hispano, Madrid. Architect and lighting designer: Kevin Roche John Dinkeloo and Associates, Dublin.

CL downlights



The housings of this range are cast aluminium and designed as heat sinks. The mounting rings, which are visible from below, are also cast aluminium and powder-coated white. The lampholders are positioned to lie horizontally. The necessary control gear is usually mounted on the side of the housing. If several luminaires are installed then separate control gear is available.

Downlights



The product range consists of downlights with four-cell Darklight reflectors in sizes 7 and 8 for TC-DEL and TC-TELI lamps up to 2x32W.

Application
Rotationally symmetrical, wide beam light distribution. Applications include ambient lighting in offices and administration buildings, in public buildings and hotels, conference rooms and consulting

745

rooms as well as sales areas.

Sports club Sinnet Tennis Club, Warsaw. Architect: Michal Borowski, Jakub Bazylak, Dom Architektury, Warsaw.



CL downlight for compact fluorescent lamps







Housing: cast aluminium, designed as heat sink.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integral cable clamp. Electronic control gear. Upper reflector: aluminium, silver anod-

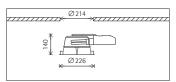
4-cell Darklight reflector: plastic, mirror-finish aluminium vaporised.

Scratch-resistant special coating. Cutoff angle 30°.

Accessories page 749

22254.000 Reflector silver ECG 2xTC-DEL 13W G24q-1 900lm

Weight 2.00kg LMF C



ised

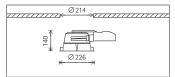




LOR 0.46 UGR CO 16.6 UGR C90 15.4 65° < 200 cd/m²

22256.000 Reflector silver ECG 2xTC-DEL 18W G24q-2 1200lm

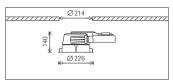
Weight 2.00kg LMF C & & ©







LOR 0.45 UGR CO 17.8 UGR C90 16.7 65° < 200 cd/m²

22263.000 Reflector silver ECG 2xTC-TELI 26W GX24q-3 1800lm 

500lv

300lv





LOR 0.44 UGR CO 19.0 UGR C90 18.1 65° < 200 cd/m²

Number	r of	luminaires	per	100m ²	for
				100lx	200lx

		TOUL	20017	JUUIX	JUUIX	
22254.000	2x13 W	12	24	36	59	
22256.000	2x18 W	9	19	28	46	
22263.000	2x26 W	7	13	19	32	

46	22
32	22
Connected load per 100lx	

Illuminance E_n (lx) for module (m) 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 22254.000 2x13 W 395 263 197 148 192 2x18 W 2256.000 512 342 256 2x26 W 493 278

Connected load 22254.000 P: 26 W 22256.000 P: 36 W 22263.000 P: 52 W

Connected load per 100lx
22254.000 P*: 3.05 W/m²
22256.000 P*: 3.25 W/m²
22263.000 P*: 3.25 W/m²

Number of luminaires per 100lx 22254.000 n*: 11.72 1/100m² 22256.000 n*: 9.03 1/100m² 22263.000 n*: 6.26 1/100m²







Housing: cast aluminium, designed as heat sink, with connection cable, L 500mm.

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

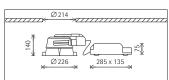
Separate control gear: cast aluminium. Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Upper reflector: aluminium, silver anodised. 4-cell Darklight reflector: plastic, mirror-finish aluminium vaporised. Scratch-resistant special coating. Cutoff angle 30°.

Accessories page 749

22139.000 Reflector silver ECG DALI **22164.000** Reflector silver ECG 1-10V 2xTC-DEL 13W G24q-1 900lm

Weight 2.50kg LMF C **™** △ •

DALI PLUG+ PLAY



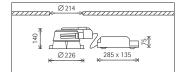




LOR 0.46 UGR CO 16.6 UGR C90 15.4 65° < 200 cd/m²

CL downlight for compact fluorescent lamps

22141.000 Reflector silver ECG DALI **22166.000** Reflector silver ECG 1-10V 2xTC-DEL 18W G24q-2 1200lm Weight 2.50kg **₹**10 <u>6</u>20 €0



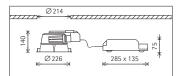




UGR C0 UGR C90 17.8 16.7 200 cd/m²

22145.000 Reflector silver ECG DALI 2xTC-TELI 26W GX24q-3 1800lm

Weight 2.30kg LMF C **%** 6







UGR CO UGR C90 19.0 18.1 200 cd/m²

65° <

22173.000 Reflector silver ECG 1-10V

2xTC-TELI 26W GX24q-3 1800lm

Weight 2.30kg LMF C **₹**10 <u>A</u>2 <u>@</u> P⊙

22145 000

22173.000

52 W

52 W

Number of I	umina	aires per	100m ²	for			Illuminance E _n (lx) for module (m)							
			100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4	
22139.000	2x	13 W	12	24	36	59		22139.000	2x13 W	395	263	197	148	
22164.000	2x	13 W	12	24	36	59		22164.000	2x13 W	395	263	197	148	
22141.000	2x	18 W	9	19	28	46		22141.000	2x18 W	512	342	256	192	
22166.000	2x	18 W	9	19	28	46		22166.000	2x18 W	512	342	256	192	
22145.000	2x2	26 W	7	13	19	32		22145.000	2x26 W	740	493	370	278	
22173.000	2x2	26 W	7	13	19	32		22173.000	2x26 W	740	493	370	278	
Connected lo	oad					Connected lo	100lx		Number of luminaires per 100lx					
22139.000	P:	26 W				22139.000	P*:	3.05 W/m ²		22139.0	00 n*:	11.72	1/100m ²	
22164.000	P:	26 W				22164.000	P*:	3.05 W/m ²		22164.0	00 n*:	11.72	1/100m ²	
22141.000	P:	36 W				22141.000	P*:	3.25 W/m ²		22141.0	00 n*:	9.03	1/100m ²	
22166.000	P:	36 W				22166.000	P*:	3.25 W/m ²		22166.0	00 n*:	9.03	1/100m ²	

22145 000

22173.000







Housing: cast aluminium, designed as heat sink.

3.25 W/m²

3.25 W/m²

Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fitting without tools with 4-point support and screw fixing, for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated cable clamp. Electronic control gear, plug and play connectivity with DALI version. Upper reflector: aluminium, silver anodised.

4-cell Darklight reflector: plastic, mirror-finish aluminium vaporised. Scratch-resistant special coating. Cutoff angle 30°.

6.26 1/100m²

6.26 1/100m²

Accessories page 749

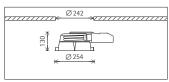
22145 000

22173.000

22148.000 Reflector silver ECG DALI 2xTC-DEL 26W G24q-3 1800lm



DALI PLUG+ PLAY







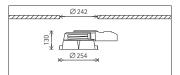
LOR 0.46 UGR CO 19.7 UGR C90 18.5 1000 cd/m² 65° <

747

CL downlight for compact fluorescent lamps

22167.000 Reflector silver ECG 1-10V **22257.000** Reflector silver ECG 2xTC-DEL 26W G24q-3 1800lm

Weight 2.20kg LMF C **₹**10 ♠ ₾ №



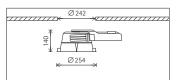




UGR CO UGR C90 19.7 18.5 65° < 1000 cd/m²

22151.000 Reflector silver ECG DALI 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.40kg LMF C **%** 6







0.45 UGR CO UGR C90 20.9 19.8 65° < 200 cd/m²

22174.000 Reflector silver ECG 1-10V **22264.000** Reflector silver ECG 2xTC-TELI 32W GX24q-3 2400lm

Weight 2.40kg LMF C **₹**10 ♠ ₾ №

Number of I	umina	ires per	100m ²	for				Illuminance	Illuminance E _n (lx) for module (m)				
			100lx	200lx	300lx	500lx				1.2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
22148.000	2x2	26 W	6	12	18	30		22148.000	2x26 W	783	522	391	293
22167.000	2x2	26 W	6	12	18	30		22167.000	2x26 W	783	522	391	293
22257.000	2x2	26 W	6	12	18	30		22257.000	2x26 W	783	522	391	293
22151.000	2x3	32 W	5	10	14	23		22151.000	2x32 W	1013	675	506	380
22174.000	2x3	32 W	5	10	14	23		22174.000	2x32 W	1013	675	506	380
22264.000	2x3	32 W	5	10	14	23		22264.000	2x32 W	1013	675	506	380
Connected load						Connected lo	oad per	100lx		Number	of lumina	aires per 10	00lx
22148.000	P:	52 W				22148.000	P*:	3.08 W/m ²		22148.0	00 n	*: 5.92	1/100m ²
22167.000	P:	52 W				22167.000	P*:	3.08 W/m ²		22167.0	00 n	*: 5.92	1/100m ²
22257.000	P:	52 W				22257.000	P*:	3.08 W/m ²		22257.0	00 n ⁻	*: 5.92	1/100m ²
22151.000	P:	66 W				22151.000	P*:	3.02 W/m ²		22151.0	00 n ⁻	*: 4.57	1/100m ²
22174.000	P:	66 W				22174.000	P*:	3.02 W/m ²		22174.0	00 n ⁻	*: 4.57	1/100m ²
22264.000	P:	66 W				22264.000	P*:	3.02 W/m ²		22264.0	00 n	*: 4.57	1/100m ²



CL downlights provide economical and glarefree ambient lighting in the administration building of Brose Fahrzeugteile GmbH, Coburg.

CL downlights Accessories

	65	836,000	814.00	281,00	289.00	35A.00	85.00 83	16.00	17,00	873.00	350,00	154.00 8398	,000
22139.000			•		•		•		•	•	•	•	
22141.000			•		•		•		•	•	•	•	
22145.000			•		•		•		•	•	•	•	
22148.000				•		•		•		•		•	
22151.000				•		•		•		•		•	
22164.000		•	•		•		•		•	•	•	•	
22166.000		•	•		•		•		•	•	•	•	
22167.000		•		•		•		•		•		•	
22173.000		•	•		•		•		•	•	•	•	
22174.000		•		•		•		•		•		•	
22254.000	•		•		•		•		•	•	•	•	
22256.000	•		•		•		•		•	•	•	•	
22257.000	•			•		•		•		•		•	
22263.000	•		•		•		•		•	•	•	•	
22264.000	•			•		•		•		•		•	















83816.000 DALI

DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A.

DALI interface with two independent

addresses. Mounting on DIN rail. Weight 0.21kg

83814.000 DALI

DALI DALI analogue converter 230V \pm 10%, 5A For connection of luminaires with ECG 1-10V to Light System DALI. Conversion of a DALI signal into a 1-10V signal. Internal relay for inductive loads of may 5Δ

Mounting on DIN rail. Weight 0.22kg

83587.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 4.60kg

83589.000

Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 4.60kg

Fibanc, Barcelona. Architect: José Mª García-Valdecasas.



CL downlights Accessories



83954.000 83955.000 Plaster ring Metal, white. Height 20mm.



83776.000 Mounting ring Metal, white powder-coated. For flushmounting installation in plasterboard ceilings.

Ø226

COØ 230



83777.000 Mounting ring Metal, white powder-coated. For flushmounting installation in plasterboard ceilings.

Ø 254

COØ258





Ø229



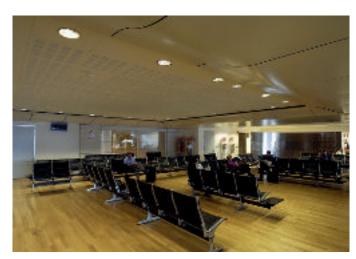
82950.000
Mounting plate for panelled ceilings
Metal, white (RAL9002)
powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



82954.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Module 100 (85/15, 84/16). For downlights with ceiling aperture Ø 214mm. Recessing dimension 287x287mm.



83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.



Aeroporto Marco Polo, Venice. Architect: Giampaolo Mar. Lighting design: TiFS IIluminotecnica, Padova.

CLC downlights



Martin Braun Backforum, Hanover. Architect: Ackermann & Raff, Tübingen.

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It is not just the name that indicates CLC downlights are related to the CL product ranges. Here too, compact fluorescent lamps are used in circular luminaires. Even the type of reflector is derived from the cross-baffle of the CL downlight. In contrast to the CL product range, however, the CLC downlights feature a coloured cross-reflector with a central cone where an additional low-voltage reflector lamp can be mounted. This arrangement results in a highly versatile luminaire which is especially useful in multi-functional rooms. For instance, a conference room can be illuminated uniformly and economically during the day using the fluorescent lamps. In the evening, the low-voltage lamps can be switched on to provide an increased level of lighting and a stronger modelling effect. Later when, for example, meals are served in the same room, it can be illuminated using only the lowvoltage lamps to provide distinctive accent lighting.

The different colours of the reflector have virtually no effect on the colour of the light emitted. The colours really become effective when the luminaires are arranged in the ceiling. A specific differentiation of room areas can be achieved here by selecting differently coloured luminaires. So, for instance, hotel lobbies, pedestrian zones and cafés can be set in the required mood using the lumin-

aire colours champagne and silver, e.g. in a department store, champagne-coloured luminaires could be used for ladies wear and silver for menswear. The DALI-compatible luminaires have digital control gear through which each luminaire can be individually addressed for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

CLC downlights



Downlights

The housings of this product range are metal, the mounting rings, which are visible from below, are cast aluminium or metal and powder-coated white. Special 5-cell reflectors are available, these are a combination of a cross-baffle with a central cone. The reflectors are plastic and painted in metallic silver or metallic champagne. The horizontal arrangement of the compact fluorescent lamps reduces the recess depth. The CLC downlights operate with a low-voltage halogen reflector lamp above the central cone.

The control gear required for the operation of the compact fluorescent lamp is mounted on the side of the housing. Concrete housings, plaster rings and cover rings, plus the transformers required for operation are available as accessories for some of the luminaires.

The luminaires are produced in sizes 8 and 10. The central, round reflector segments are fitted with silver anodised aluminium cones.

Application
Rotationally symmetrical, wide beam light distribution for ambient lighting, applications include reception areas, waiting areas, conference rooms and sales areas. Available with or without separately switched accent lighting.





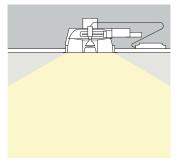
Centro Cultural Fundación Círculo de Lectores, Barcelona. Architect and lighting designer: Jordi Garcés, Barcelona.

CLC downlights

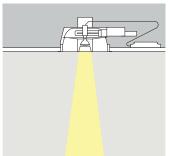




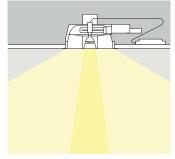
The combination of fluorescent lamps and low-voltage halogen lamps in one luminaire housing provides a choice between economical and uniform illumination or an atmosphere defined by accent lighting. The fluorescent lamp component produces a wide light distribution.



The fluorescent lamp produces uniform illumination.

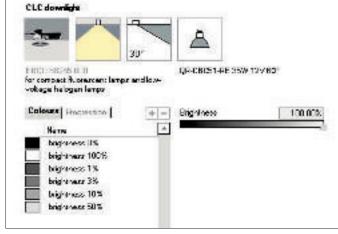


The low-voltage lamp produces distinctive accent lighting.



Switched together, they provide an increased level of lighting and a stronger modelling effect.





CLC downlights as Light Clients Every ERCO Light Client is supplied with a unique code preprogrammed in its DALI control gear. This code allows the Light Server to automatically recognise the type and function of each Light Client as soon as the system is activated. Luminaires such as the CLC downlights are directly recognised in this way. Their two addresses for the lighting systems of fluorescent and low-voltage halogen lamp are combined into one Light Client so that they can be operated intuitively. In the Light Studio software, the codes are linked with the product information and displayed in a simple and straightforward format.

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CLC downlight for compact fluorescent lamps and low-voltage halogen lamps



88285.000 Reflector silver metallic ECG DALI 2xTC-DEL 18W G24q-2 1200lm QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60° For QR-CBC: connection cable, L 500mm, with DALI transformer, 230/240/12V, and plug and play con-nectivity. Terminal block with strain

metallic ECG 2xTC-DEL 18W G24q-2 1200lm QR-CBC51-RE 35W 12V GU5.3 10°

QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60° For QR-CBC: cable, L 600mm. Transformer according to EN 61558 or EN 61347 to be ordered separately.



Size 8 30°

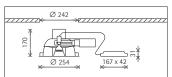
Weight 2.40kg LMF E **&** & & A



DALI PLUG+

Housing: metal, black powder-coated. Side-mounted control gear. Mounting ring: cast aluminium, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1-30mm. Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Upper reflector: aluminium, white (RAL9010) powder-coated. Reflector plastic, silver aluminium va-porised, mirror-finish. Scratch-resistant special coating. Cut-off angle 30°. Antidazzle screen with cone: plastic, col-

oured, lacquered. For lamp replacement removable without tools. Accessories page 756















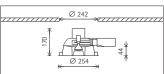




h(m) E(Ix) D(m) 60° 275 2.31 4 69 4.62 31 6.93 9.24 10 11 11.55

88276.000 Reflector silver metallic 88277.000 Reflector champagne

Weight 2.40kg LMF E **&** <u>@</u> & <u>@</u>







LOR 0.31 UGR CO 16.5 UGR C90 16.1 1000 cd/m² 65° <











h(m)	E(Ix)	D(m)
		60°
1	1100	1.15
2	275	2.31
3	122	3.46
4	69	4.62
5	44	5.77

Number of luminaires	per	100m ²	for
----------------------	-----	-------------------	-----

		100lx	200lx	300lx	500lx
88285.000	2x18 W	14	27	41	68
88276.000	2x18 W	14	27	41	68
88277.000	2x18 W	14	27	41	68

Illuminance	E_n (lx) for	module (m)
		1.2x1.8
88285.000	2x18 W	345
88276.000	2x18 W	345
88277.000	2x18 W	345

1.8x1.8	1.8x2.4	2.4x2.4
230	172	129
230	172	129
230	172	129

Connected I	oad	
88285.000	P:	36 W
88276.000	P:	36 W
88277.000	P:	36 W

Connected	load per	100lx
38285.000	P*:	4.84 W/m ²
38276.000	P*:	4.84 W/m ²
38277.000	P*:	4.84 W/m ²

Number of	luminaires		
88285.000	n*:	13.43	1/100m ²
88276.000	n*:	13.43	1/100m ²
88277.000	n*:	13.43	1/100m ²

CLC downlight for compact fluorescent lamps and low-voltage halogen lamps



88286.000 Reflector silver metallic 2xTC-DEL 26W G24q-3 1800lm QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60° For QR-CBC: connection cable, L 500mm, with DALI transformer, 230/240/12V, and plug and play con-nectivity. Terminal block with strain

88281.000 Reflector silver metallic

88282.000 Reflector champagne

metallic ECG 2xTC-DEL 26W G24q-3 1800lm QR-CBC51-RE 35W 12V GU5.3 10°

QR-CBC51-RE 35W 12V GU5.3 60°

For QR-CBC: cable, L 600mm Transformer according to EN 61558 or EN 61347 to be ordered separately.





Weight 2.50kg LMF E

Weight 2.50kg LMF E

& © 6 A

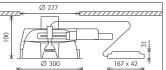


DALI PLUG+ PLAY

Housing: metal, black powder-coated. Side-mounted control gear. Mounting ring: metal, white (RAL9002) powder-coated. Fixing for ceiling thicknesses of 1-30mm.

Junction box for through-wiring, 5-pole terminal block, integrated strain relief. Electronic control gear, plug and play connectivity with DALI version. Upper reflector: aluminium, white

(RAL9010) powder-coated. Reflector plastic, silver aluminium va-porised, mirror-finish. Scratch-resistant special coating. Cut-off angle 30°. Antidazzle screen with cone: plastic, coloured, lacquered. For lamp replacement removable without tools. Accessories page 756







UGR CO UGR C90 17.5 17.0 1000 cd/m² 65° <





E(lx) D(m) h(m) 10° 12500 0.17 2 3125 0.35 1389 781 0.70 500 0.87





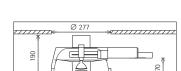
60° 1100 1 15 2 275 2.31 3 122 3.46 4.62 44 5.77

E(Ix) D(m)

h(m)

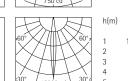
LOR

0.34 UGR CO 17.5 UGR C90 17.0 1000 cd/m² 65° <



Ø 300





E(Ix) D(m) 12500 0.17 3125 0.35 1389 0.52 781 0.70 500 0.87



QR-CBC51-RE



h(m) E(Ix) D(m) 60° 1100 1 15 2 275 2.31 3 122 3.46 4.62 5.77

755

Number	of	luminaires	per	100m ²	for
--------	----	------------	-----	-------------------	-----

		100lx	200lx	300lx	500lx
88286.000	2x26 W	9	17	25	42
88281.000	2x26 W	9	17	25	42
88282.000	2x26 W	9	17	25	42

	88286.000	2x26	W
	88281.000	2x26	W
	88282.000	2x26	W
าไร			

ne (III)			
2x1.8	1.8x1.8	1.8x2.4	2.4x2.4
564	376	282	211
564	376	282	211
564	376	282	211

Connected load 52 W 88286.000 88281.000 52 W 88282.000

Connected load per 100b 4.27 W/m² 88286,000 88281.000 4.27 W/m² 88282.000 4.27 W/m² Number of luminaires per 100lx 8.21 1/100m² 88286,000 88281.000 8.21 1/100m² 88282.000

CLC downlights Accessories

	\$ ³	035	83100 835	833.00	879.00	676.00	819.00	2000	937.00	155.00 83	17,00	950,000 93 <u>3</u>	30,00
88276.000	•	•	•	•		•	•		•	•	•	•	
88277.000	•	•	•	•		•	•		•	•	•	•	
88281.000	•	•	•	•	•	•		•			•	•	
88282.000	•	•	•	•	•	•		•			•	•	
88285.000		•	•	•		•	•		•	•	•	•	
88286.000		•	•	•		•		•			•	•	

















83817.000

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed

83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V.

Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared. Overload and overheat protection:

automatic load-sensing.
Use dimmers for electronic transformers

(trailing edge). For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 70mm

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V controllable.

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

Tength 211 max.
For ceiling aperture ø 80mm, recessed depth 125mm
Weight 0.20kg

© © SELV WWTS-115

83829.000

DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

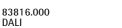


Cafeteria at the Bonn-Rhein-Sieg University of Applied Sciences, Rheinbach. Archi-tect: Vogt+Partner, Düsseldorf.

CLC downlights Accessories

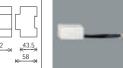






DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent

addresses. Mounting on DIN rail. Weight 0.21kg



83819.000

Overvoltage protection device for max. 10 elec-tronic transformers. 45mm, B 25mm, L 45mm, B : H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



83590.000

Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 5.20kg



83592.000

380

CO 242

×470

Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete. Weight 6.00kg

200 410

CO 277

630

400 R 420



83955.000 Plaster ring Metal, white. Height 20mm.





83777.000 Mounting ring

Metal, white powder-coated. For flush-mounting installation in plasterboard ceilings.



82950.000

Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83980,000

Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.

Wella Studio, Stut-tgart. Architecture and lighting design: Welonda, K. Rottenstein, Darmstadt.



757

Panarc



Sinnet Tennis Club, Warsaw. Architect: Michal Borowski, Jakub Bazylak, Dom Architektury, Warsaw.

Lighting design often pays little attention to adjoining areas and hall-ways, e.g. in residential complexes, administrative buildings and hotels or in hospitals and sports centres. The minimum requirements for standard compliant lighting can be fulfilled using the simplest of lighting systems. However, lighting concepts aimed at high visual comfort and a more pleasant ambience often fail because of the luminaire costs. Panarc downlights and corridor luminaires are designed to provide economical and high-quality lighting of such areas.

Due to their wide beam, downlights with flood lenses provide uniform, horizontal ambient lighting, even from wide luminaire spacings. Corridor luminaires with prism lenses, on the other hand, are ideal for hallways. They illuminate both side walls of a hallway from the ceiling down to the floor and thus provide a bright, friendly ambience in the corridor. In addition, there is a recessed version of Panarc with a flush-mounting white plastic diffuser. This is not only suitable for ambient diffuse lighting, but also as a creative architectural feature particularly when arranged in rows or groups. Being designed for long-life, compact fluorescent lamps economic operation is ensured. The solid, splashproof construction and minimal recessed depth or mounting height of only 68mm make Panarc luminaires suitable for use in almost any type of building.

Panarc



The housings of the Panarc product range are all plastic and are available in white or silver. Flood lenses or prism lenses and diffusers direct the light and act as the lamp retainers. The necessary control gear for the operation of lamps is contained within the housing. Concrete housings, plaster rings and cover rings are available as accessories. All Panarc luminaires meet IP44 protection mode.

Downlights



The downlights are made of white or silver plastic and are available in two housing sizes with two light distribution patterns. Depending on the version, compact fluorescent lamps TC-S, TC-L or TC-F are to be used. The lamps are also arranged lying horizontally, which results in a very shallow recessed depth. A rotationally symmetrical beam is produced with the flood lens. The white plastic diffuser produces a diffuse beam and the luminaire itself becomes a design feature.

ApplicationRotationally symmetrical, wide beam light distributionApplications include ambient lighting or light-ing arranged for specific zones, including entrances and lobbies, thoroughfares and development zones as well as covered outdoor areas.

Corridor luminaires



Corridor luminaires usually consist of the same two housings as the downlights in this product range. Here too, either TC-S, TC-L or TC-F compact fluorescent lamps are to be used, depending on the version. The lamps are arranged horizontally, resulting in a very shallow recessed depth. A 'double wash-light effect' is achieved with the prism lens, which predominantly illuminates the walls of corridors and hallways.

Application

Axially symmetrical light distribution for illumination of parallel walls mainly of corridors and hallways.

759

Panarc Downlight with flood lens

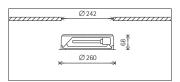




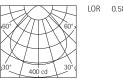
Housing with mounting ring: plastic, white (RAL9002). Fixing for ceiling thicknesses of 1-25mm. 2 sets of electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block. Upper reflector: aluminium, white (RAL9010) powder-coated. Flood lens, plastic, clear. Approved as IP44 only for ceiling mounting.
Accessories page 763

83481.000 ECG 2xTC-SEL 9W 2G7 600lm

Weight 1.00kg LMF D **▲**IP44







Number of luminaires per 100m² for 100lx

200lx 300lx 500lx 83481.000 2x9 W 15 30 45

Illuminance E_n (lx) for module (m)

1.8x1.8 83481.000 2x9 W 314 209 157 118

83481.000 22 W Connected load per 100lx 83481.000 P*: 3.24 W/m² Number of luminaires per 100lx 83481.000 14.75 1/100m²

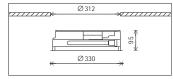




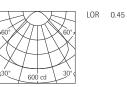
Housing with mounting ring: plastic, white (RAL9002). Fixing for ceiling thicknesses of 1-25mm. Electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block. Upper reflector: aluminium, white (RAL9010) powder-coated. Flood lens, plastic, clear. Approved as IP44 only for ceiling mounting.
Accessories page 763

83474.000 ECG 2xTC-L 18W 2G11 1200lm

Weight 1.95kg LMF D **▲**IP44

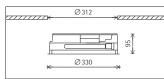




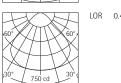


83478.000 ECG TC-F 36W 2G10 2800lm

Weight 1.95kg LMF D **▲**IP44







Number of	luminaires pe	r 100m² for
-----------	---------------	-------------

		100lx	200lx	300lx	500lx
83474.000	2x18 W	10	19	29	48
83478.000	36 W	8	16	24	39

83474.000 2x18 W 83478.000

Illuminance E_n (lx) for module (m) 1.2x1.8 1.8x2.4 2.4x2.4 490 327 245 184 597 299 224 398

Connected load 83474.000 83478.000

40 W

39 W

Connected load per 100lx 83474.000 3.78 W/m² 83478.000 3.02 W/m²

Number of luminaires per 100lx 83474.000 9.44 1/100m² 83478.000 n*: 7.75 1/100m²

Panarc Downlight with diffuser





Housing with mounting ring: plastic, silver. Fixing for ceiling thicknesses of 1-25mm.
2 sets of electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block.
Upper reflector: aluminium, white (RA19010) powder-coated.

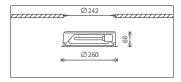
Upper reflector: aluminium, white (RAL9010) powder-coated.
Diffuser, plastic, white.
Approved as IP44 only for ceiling

mounting.

Accessories page 763

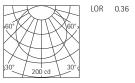
83484.000 ECG 2xTC-SEL 9W 2G7 600lm







Illuminance E_n (lx) for module (m)



Number of luminaires per 100m² for

100lx 200lx 300lx 500lx 83484.000 2x9 W **26 52 77 128**

83484.000 2x9 W

181 121 91 6

Connected load 83484.000 P: 22 W Connected load per 100lx 83484.000 P*: 5.63 W/m² Number of luminaires per 100lx 83484.000 n*: 25.58 1/100m²





Housing with mounting ring: plastic, silver. Fixing for ceiling thicknesses of 1-25mm. Electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block. Upper reflector: aluminium, white (PAL901) powder geoted.

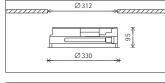
Upper reflector: aluminium, white (RAL9010) powder-coated.
Diffuser, plastic, white.
Approved as IP44 only for ceiling

mounting.
Accessories page 763

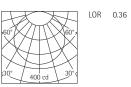
83489.000 ECG 2xTC-L 18W 2G11 1200lm











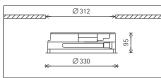
83493.000 ECG TC-F 36W 2G10 2800lm



Connected load

83489.000

83493.000





83489.000

83493.000

Illuminance E_n (lx) for module (m)

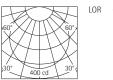
2x18 W

36 W

1.2x1.8

362

422



Number of luminaires per 100m² for

40 W

39 W

		100lx	200lx	300lx	500lx
3489.000	2x18 W	13	26	39	64
33493.000	36 W	11	22	33	55

Connected	load per	100lx	
83489.000	P*:	5.12	W/m^2
83493.000	P*:	4.27	W/m ²

Number of luminaires per 100lx 83489.000 n*: 12.79 1/100m² 83493.000 n*: 10.96 1/100m²

181

211

241

282

2.4x2.4

136

158

www.erco.com

761

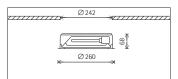
Panarc Corridor luminaire with prism lens





Housing with mounting ring: plastic, white (RAL9002). Fixing for ceiling thicknesses of 1-25mm.
2 sets of electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block.
Upper reflector: aluminium, white (RAL9010) powder-coated.
Prism lens, plastic, clear.
Approved as IP44 only for ceiling mounting.
Accessories page 763

83482.000 ECG 2xTC-SEL 9W 2G7 600lm





Mean illuminance E_n (Ix)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.60
 0.90
 1.20
 1.20

 Illuminance E_n (kx)
 155
 108
 82
 74

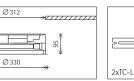




Housing with mounting ring: plastic, white (RAL9002). Fixing for ceiling thicknesses of 1-25mm.
Electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block.
Upper reflector: aluminium, white (RAL9010) powder-coated.
Prism lens, plastic, clear.
Approved as IP44 only for ceiling mounting.
Accessories page 763

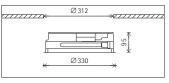
83475.000 ECG 2xTC-L 18W 2G11 1200lm







Mean illuminance E_n (Ix)

83479.000 ECG TC-F 36W 2G10 2800lm 



Mean illuminance E_n (lx)



Blue Lagoon Spa, Grindavík (Iceland). Architect: Vinnustofa Arkitekta ehf., Sigriður Sigþórsdóttir. Lighting design: Rafteikning hf., Guðjón L. Sigurðsson.

Panarc Accessories

	85	876,00	Sep. 100 St.	572.00	155.00 835	875 861,000	350,000	80,00
83474.000	•		•		•	•	•	
83475.000	•		•		•	•	•	
83478.000	•		•		•	•	•	
83479.000	•		•		•	•	•	
83481.000	•	•		•		•	•	
83482.000	•	•		•		•	•	
83484.000	•	•		•		•	•	
83489.000	•		•		•	•	•	
83493.000	•		•		•	•	•	















83816.000 DALI

DALI switch actuator, double, 16A
Two voltage-free contacts for switching
ohmic, inductive and capacitive loads max 16A.

DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg

83569.000 Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete.

83572.000 835/2.000
Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete.

83955.000 83967.000 Plaster ring Metal, white. Height 20mm.

82950.000 Mounting plate for panelled ceilings Metal, white (RAL9002) powder-coated. Individual design of mounting plates according to ceiling type and luminaire. Quote ceiling type and dimensions.



83980.000

Cover ring Metal, white. For covering the gap where ceiling cut-outs are too big. Inner and outer diameter to be specified when placing order.



Biblioteca Foral de Bizkaia, Bilbao. Architect and lighting designer: IMB Arquitectos, Bilbao.

The specially designed wallwasher reflector for fluorescent lamps provides uniform wall illumination. The use of economical light sources such as standard or compact fluorescent lamps makes these wallwashers particularly suitable not only for the ambient lighting of walls in museums but also for sales areas and promotional areas. The illumination of a wall can be used for vertical visual tasks or simply to reveal the wall as a surface delineating the room.

Due to the reflections from the wall, indirect ambient lighting will produce uniform, diffuse light and a bright and welcoming atmosphere in the room.

sphere in the room.

Different colours of light can be produced with the varychrome wallwasher using RGB colour mixing technology. The diffuser and reflector combine to ensure that there are no coloured striations in the emitted light. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.



The product range includes linear luminaires for use with T16 fluorescent lamps. The housings with mounting frame are sheet metal powder-coated white, the wallwasher reflectors are satin finish aluminium, silver anodised. Each luminaire has removable end plates to allow a row of wallwashers to be mounted as a continuous arrangement without gaps.

Wallwashers



Rectangular wallwashers are available for T16 fluorescent lamps up to 54W. Compact fluorescent lamps up to 26W are also to be used. DALI control gear is available for use with the ERCO Light System DALI.

Application Asymmetrical light distribution

for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sales areas and promotional areas.

Wallwashers, varychrome



The varychrome wallwashers are fitted with three 28W coloured T16 fluorescent lamps. The electronic control gear is contained within each luminaire. DALI control gear is available for use with the ERCO Light System DALI. Individual colour mixing is achieved by specifically controlling each individual fluorescent lamp. Special diffusers ensure that the colours are thoroughly mixed.

Application

Asymmetrical light distribution for highly uniform, coloured wallwashing. Applications include trade fair stands, exhibitions, sales areas and promotional areas.

765

Igreja da Santis-sima Trindade, pilgrimage church, Fatima. Architect: Alexandros Tombazis, Athens. Lighting design: Bartenbach Lichtlabor, Innsbruck; Fernando Silva OHM-E, Porto.



The TFL Wallwasher varychrome allows tool-free lamp replacement. The diffuser can be conveniently opened by unlocking the accessible latches on the side and hinging it down. To ensure the coloured fluorescent lamps are replaced correctly, the colours red, green and blue are marked on the lampholders.





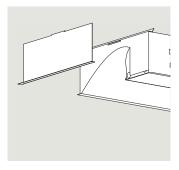


The coloured light from the TFL wallwasher is produced by three coloured 28W T16 fluorescent lamps. A light colour mixer consisting of a combined reflector-diffuser system ensures an even, totally mixed light which is projected onto the cover glass without any coloured shadows. Due to the spectral properties of coloured fluorescent lamps, all the colours of light produced have a pastel character.

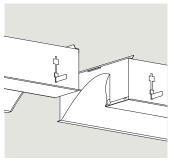




The DALI-compatible luminaires have digitally addressable control gear which means that each luminaire can be individually controlled – for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

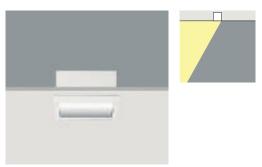


Each luminaire has removable end plates to allow a row of wallwashers to be mounted as a continuous arrangement without gaps.



To achieve a uniform brightness distribution on the wall, the luminaires can be attached directly to one another.

TFL Wallwasher for compact fluorescent lamps



83516.000 Reflector silver ECG TC-DEL 18W G24q-2 1200lm

83517.000 Reflector silver ECG TC-DEL 26W G24q-3 1800lm

Weight 1.40kg LMF C

Housing with mounting frame: metal, white (RAL9002) powder-coated. Mounting bracket with screw fixing: metal, for ceiling thicknesses of 1-30mm.

2 cable entries, through-wiring possible.

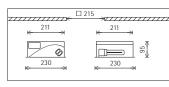
2 cable entries, through-wiring possible.5-pole terminal block. Electronic control gear.

gear. Wallwasher reflector: aluminium, anodised, satin matt.

Accessories page 769

→ 211 ★ 211

230



211

230



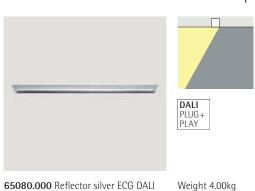
TC-DEL

Mean illuminance E_n (Ix)

Mean illuminance E_n (lx)

Wall height (m)	3.0			
Offset from wall (m)	0.90	0.90	1.20	1.20
Luminaire spacing (m)	0.90	1.20	1.20	1.50
Illuminance E _n (lx)	162	126	108	88

TFL Wallwasher for fluorescent lamps



Weight 4.00kg LMF C Housing: metal, white (RAL9002) powder-coated. Screw-fastened end plates. Arrangement as continuous band of light possible. Mounting bracket with screw fixing: metal, for ceiling thicknesses of 12.5–25mm. Electronic control gear, plug and play connectivity with DALI version. 2 cable entries. Through-wiring possible. Wallwasher reflector: aluminium, anodised, satin matt. Hinged baffle to simplify lamp replacement.







 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.00
 1.25
 1.25

 Luminaire spacing (m)
 1.25
 1.50
 1.25
 1.75

 Illuminance E_n (lx)
 342
 289
 306
 226



T16 28W G5 2600lm

7-pole terminal block.

Weight 4.00kg LMF C 日本 **狐**⁷ <u></u> [©] [©]







 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.00
 1.25

 Luminaire spacing (m)
 1.25
 1.50
 1.25
 1.75

 Illuminance E_n (lx)
 342
 289
 306
 226

TFL Wallwasher for fluorescent lamps

65081.000 Reflector silver ECG DALI T16 54W G5 4450lm 7-pole terminal block.

Weight 4.00kg LMF C





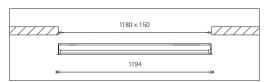


 $\begin{tabular}{llll} Mean illuminance E_n (lx) & & & & & & & \\ Wall height (m) & 3.0 & & & & & & & \\ Offset from wall (m) & 1.00 & 1.00 & 1.25 & 1.25 \\ Luminaire spacing (m) & 1.25 & 1.50 & 1.25 & 1.75 \\ Illuminance E_n (lx) & 586 & 495 & 524 & 386 \\ \end{tabular}$

65041.000 Reflector silver ECG T16 54W G5 4450lm 5-pole terminal block.

Weight 4.00kg LMF C 日本 **愛** ®



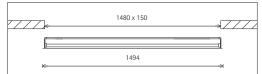




65082.000 Reflector silver ECG DALI T16 35W G5 3300lm 7-pole terminal block.

Weight 5.00kg LMF C







65042.000 Reflector silver ECG T16 35W G5 3300lm 5-pole terminal block.

Weight 5.00kg LMF C 日本 **《** [©] [©]







 Mean illuminance E_n (kx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.00
 1.25
 1.25

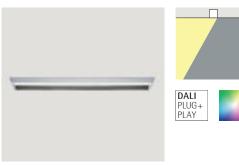
 Luminaire spacing (m)
 1.50
 1.75
 1.50
 2.00

 Illuminance E_n (lx)
 367
 317
 330
 252



Dreipunkt furniture showroom at the Stilwerk mall, Stuttgart. Architect: Bernd Schellenberg (DREIPUNKT International). Lighting design: Stephan Haubner, Wesenlicht, Stuttgart.

TFL Wallwasher varychrome for fluorescent lamps



65059.000 Reflector silver ECG DALI T16 28W G5 700lm blue T16 28W G5 2100lm red T16 28W G5 3500lm green

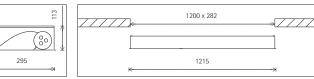


Weight 9.50kg LMF D **W**r **P**○

Housing: metal, white (RAL9002) powder-coated. Screw-fastened end plates. Arrangement as continuous band of light possible. Mounting bracket with screw fixing: metal, for ceiling thicknesses of 12.5-25mm. Three electronic control gear units, plug and play connectivity for ERCO varychrome colour mixing. Two cable entries 5-pole terminal block. Throughwiring with plug. Wallwasher reflector: aluminium, anodised, satin matt.

Light colour mixer: the reflector-diffuser system ensures that the separate light colours are thoroughly mixed and emitted from the light aperture without any coloured shadows. Hinges open for lamp replacement without tools.

769



T16

Mean illuminance E_n (lx) Wall height (m) 1.00 1.25 1.25 1.50 1.25 1.25 1.50 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 71 60 53



Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 1.00 1.25 1.25 1.50 1.25 1.25 1.50 1.50 Luminaire spacing (m) Illuminance E_n (lx) 256 230 196 175



Mean illuminance E_n (lx) Wall height (m) 3.0 1.00 1.25 1.25 1.50 1.25 1.25 1.50 1.50 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 362 322 274 241

TFL Wallwasher Accessories





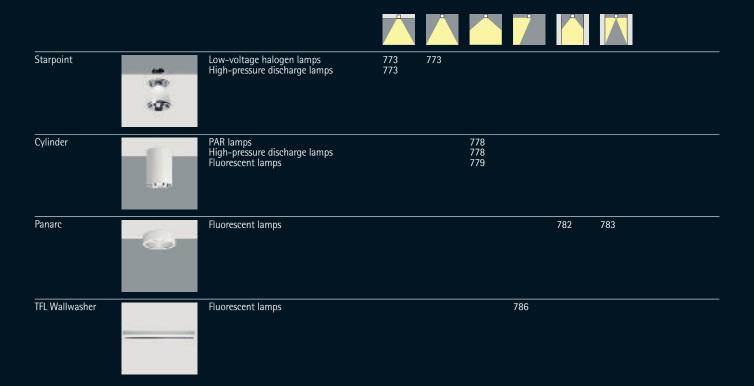


83816.000 DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A. DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg

Surface-mounted luminaires



The use of surface-mounted downlights is often determined by practical considerations: For example, there might not be sufficient room to install recessed downlights in the ceiling. The conscious decision to use surface-mounted downlights in a lighting concept can considerably reduce installation costs, for example in buildings with solid ceilings or in existing buildings, the layout can be easily adapted to meet existing conditions.



Starpoint



Low-voltage halogen lamps are more energy efficient than incandescent lamps. They retain their brilliant light, power and colour throughout their life. Today, ever smaller light sources provide an opportunity to use the luminaire with a metal halide lamp. What makes Starpoint luminaires special is their frosted glass cover. The shimmering surface is more than just a decorative effect: it diffuses a small proportion of the light and results not only in bright light on the horizontal surface, but also comfortable ambient brightness.

Domus international furniture store, Atlanta.

771

Starpoint



The lampholder carriers are cast aluminium. Glare-free Darklight reflectors are aluminium and anodised with a silver mirror-finish. The visible luminaire cover is frosted glass. A frosted glass diffuser acts as the lamp cover within the reflector.

Downlights



The downlights are used for low-voltage halogen lamps up to 50W/12V or metal halide lamps of 20W. In the downlight version only the frosted glass cover is visible. The transformers or control gears required are to be ordered separately. Concrete housings, plaster rings and cover rings are available as accessories.

ApplicationRotationally symmetrical, narrow beam light distribution, mainly for decorative ambient lighting or narrow beam accent lighting, in exhibitions, sales areas and promotional areas.

Surface-mounted downlights



The downlights are used for low-voltage halogen lamps up to 50W/12V. The surface-mounted downlight features a visible, cyl-indrical transformer housing with built-in electronic transformer.

Application

Rotationally symmetrical, narrow beam light distribution, mainly for decorative ambient lighting or narrow beam accent lighting, in exhibitions, sales areas and promotional areas.



Glarefree lighting and a decorat-ive eyecatcher: Starpoint surfacemounted downlights in a branch of Kin-narps office furnishers, Dubai.

Starpoint Downlight for low-voltage halogen lamps





87600.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm



Weight 0.70kg 日本 鑑7 🖭 🕸

Frosted glass cover for indirect light emission.

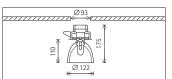
Lampholder carrier: cast aluminium,

silver powder-coated. Mounting ring: plastic, aluminium vaporised, silver mirror-finish. Scratchresistant special coating. Fixing springs for ceiling thickness up to 25mm. Cable, L 500mm.

Darklight reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 30°. For lamp replacement, removable from the lampholder carrier without

Diffuser as lamp cover: glass, frosted.

Cover: metal, silver mirror-finish. Transformer according to EN 61558 or EN 61347 to be ordered separately. Accessories page 774





	h(m)	E(Ix)	D(m)
			17°
60°	1	2823	0.30
	2	706	0.60
L/7#Y\J	3	314	0.90
	4	176	1.20
30° 4000 cd 30° (5	113	1.49

Starpoint Downlight for metal halide lamps





87640.000 Silver HIT-TC-CE 20W PGJ5 1650lm

Weight 0.70kg LMF D 日本 🐠 🖭

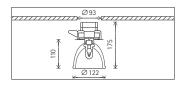
Frosted glass cover for indirect light emission.

Lampholder carrier: cast aluminium, silver powder-coated.

Mounting ring: plastic, aluminium vaporised, silver mirror-finish. Scratchresistant special coating. Fixing springs for ceiling thickness up to 25mm. Connection cable with plug, L 500mm. Darklight reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 30°. For lamp replacement, removable from the lampholder carrier without

Diffuser as lamp cover: glass, frosted.

Cover: metal, silver mirror-finish. Control gear to be ordered separately. Accessories page 774





	1 /	n(m)	E(IX)	D(m)
XXX	KX			15°
(60°)	× 60°,	1	6482	0.26
\times		2	1620	0.53
$\bigvee \mathcal{H}$	$\# Y \setminus$	3	720	0.79
1		4	405	1.05
30° 750	00 cd 30°C	5	259	1.32

Starpoint Surface-mounted downlight for low-voltage halogen lamps





87602.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm

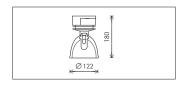
Weight 0.65kg LMF D **K**r <u>@</u> @ 🗆

Frosted glass cover for indirect light emission.

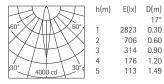
Lampholder carrier: cast aluminium, silver powder-coated.

Transformer housing: plastic, silver. Electronic transformer 230/12V, 50W. Darklight reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 30°. For lamp replacement, removable from the lampholder carrier without

Diffuser as lamp cover: glass, frosted. Accessories page 774







1.49

773

Starpoint Accessories

	83	871,00	831,00	833.00	679.00	879.00	816,000	819,000	219,00	356,00	350,000 83°C	380,00
87600.000	•	•	•		•	•	•	•	•	•	•	
87602.000					•	•						
87640.000				•		•		•	•	•	•	

















83817.000

DALI transformer EN 61347 230/240/12V, 50-60Hz. 20-105W at max 60°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 90mm
Weight 0.18kg

SELV WWTS-115

83831.000

Electronic transformer EN 61347 230/12V, 50-60Hz. 20-105W at max 50°C ambient temperature. Secondary voltage 11.8V. Installation in ceiling voids, showcases,

furniture. Plastic housing. Primary and secondary cable clamps and terminal blocks.

Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared. Overload and overheat protection:

automatic load-sensing.
Use dimmers for electronic transformers (trailing edge). For interference suppression to

VDE 0875, part 2, secondary conductor length 2m max.

For ceiling aperture ø 80mm, recessed depth 70mm

83833.000

Electronic transformer EN 61347 230/12V, 50Hz. 20-105W at max. 50°C ambient temperature, 1V-10V controllable.

Secondary voltage 11.7V. Installation in ceiling voids, showcases, furniture.

Plastic housing. Primary and secondary cable clamps and terminal blocks. Short-circuit protection: electronic cut-out, reconnect once short-circuit is cleared.

Overload and overheat protection: automatic load-sensing. For interference suppression to VDE 0875, part 2, secondary conductor length 2m max. Terrigit 211 max.
For ceiling aperture ø 80mm, recessed depth 125mm
Weight 0.20kg

© © SELV WWTS-115

83679.000

Control gear for HIT-TC-CE 20W, PGJ5. Metal, black powder-coated. Electronic control gear 220-240V, 50-60Hz. Strain relief. Through-wiring possible. 5-pole terminal block. Luminaire connection cable with plug connection, L 200mm. Weight 0.36kg



Kookaburra Restaurant lounge, Bochum. Architect: Gernot Schulz, Cologne.

Starpoint Accessories











83816.000
DALI
DALI switch actuator, double, 16A
Two voltage-free contacts for switching
ohmic, inductive and capacitive loads
max 16A.
DALI interface with two independent
addresses.
Mounting on DIN rail.
Weight 0.21kg



83819.000 Overvoltage protection device for max. 10 electronic transformers. L 45mm, B 25mm, H 22mm. 2x1,5mm², L 80mm. Weight 0.05kg



83579.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 2.80kg



345

83956.000 Plaster ring Metal, white. Height 20mm.







83980.000 Cover ring Metal, white. For covering the gap where ceiling cutouts are too big. Inner and outer diameter to be specified when placing order.

Cylinder



In their basic form, downlights direct light downwards in narrow or wide beams. They are normally used to provide ambient lighting. The higher a room is and the larger the ceiling, the more anyone looking up is likely to be dazzled by light from the luminaires. It therefore makes sense to equip downlights installed in particularly glaresensitive areas – say, over conference tables – with correspondingly high cut-off reflectors. The neutral design of the cylindrical surfacemounted downlight housing is a discreet architectural detail.

Darmstadt Evangelical Church, Darmstadt. Lighting design: Prof. Harald Hofmann, Lüdenscheid.

Cylinder



The cylindrical housing is aluminium and powder-coated white. Glare-free Darklight reflectors are aluminium and are silver anodised. The cut-off angle is up to 40°. Accessories include a ceilingmounting ring with safety cord, to allow surface-mounted downlights to be installed as comizeneed. installed as semirecessed.

Surface-mounted downlights



Surface-mounted downlights are available in sizes 5, 7 and 8 for various lamps. Halogen reflector lamps QPAR20 50W or QPAR30 up to 100W, metal halide lamps 70W or compact fluorescent lamps TC-DEL 26W are to be used.

ApplicationRotationally symmetrical, narrow to wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

Representat-ive offices of Lower-Saxony & Schleswig-Holstein, Berlin. Architect: Cor-nelsen + Seelinger, Seelinger + Vogels, Darmstadt.



Cylinder Surface-mounted downlight for PAR lamps

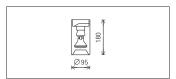




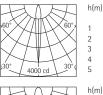
Cylinder: aluminium, powder-coated. 2-pole terminal block. Anti-dazzle cone: plastic, silver, mirrorfinish aluminium vaporised. Scratchresistant special coating. Accessories page 779













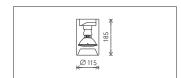
E(Ix) 1000 0.54 250 1.07 1.61

> 40 2.68

D(m)

86005.000 White (RAL9002) QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°







QPAR20









E(Ix) D(m) h(m) 30° 3000 0.54 1.07 750 333 1.61 188 2.14 120 2.68

Cylinder Surface-mounted downlight for metal halide lamps



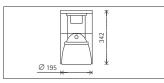




Cylinder: aluminium, powder-coated. Linear air diffusers. Control gear with temperature control-ler, timer-ignitor, capacitor. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Flood lens as safety glass above the Darklight reflector. Accessories page 779

85890.000 White (RAL9002) HIT-DE-CE 70W RX7s 6500lm









Number of luminaires per 100lx



Number of luminaires per 100m² for 100lx 85890.000 6 10

Connected load Connected load per 100lx 85890.000 1.74 W/m²

Illuminance E_n (lx) for module (m) 1.2x1.8 85890.000 70 W 1558 1169 877

Cylinder Surface-mounted downlight for compact fluorescent lamps



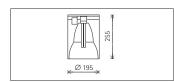




Cylinder: aluminium, powder-coated. Electronic control gear. 1 cable entry. 3-pole terminal block. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Accessories see below

85887.000 White (RAL9002) ECG TC-DEL 26W G24q-3 1800lm





500lx





0.61 UGR 1000 cd/m² 55° <

198

Number of luminaires per 100m² for 100lx

200lx 300lx 85887.000 26 W 18 27

Illuminance E_n (lx) for module (m)

85887.000 26 W

1.8x1.8

352

528

Connected load 85887.000 26 W

Connected load per 100lx 85887.000 2.28 W/m² Number of luminaires per 100lx 85887.000 8.78 1/100m²

264



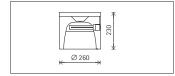




Cylinder: aluminium, powder-coated. 2 electronic control gear units. 1 cable entry. 3-pole terminal block. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Accessories see below

85888.000 White (RAL9002) ECG 2xTC-DEL 26W G24q-3 1800lm









1.8x1.8

718

0.64 UGR 200 cd/m² 65° <

Number of luminaires per 100m² for

200lx 300lx 500lx 85888 000 2x26 W 13 22

85888 000 2x26 W

Illuminance E_n (lx) for module (m)

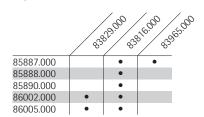
1077

404

538

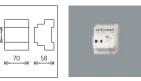
Connected load 85888.000 52 W Connected load per 100lx 85888.000 2.24 W/m² Number of luminaires per 100lx 4.30 1/100m²

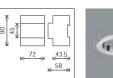
Cylinder Accessories













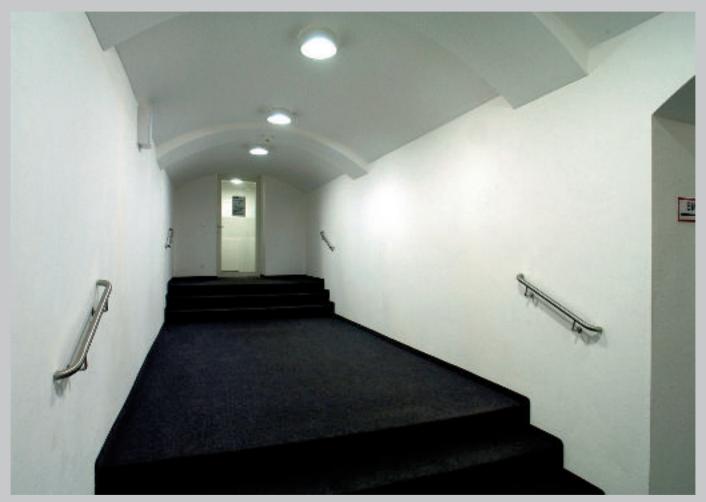
83829.000 DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

83816.000 DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg

83965.000 Mounting ring Aluminium, white. Clamp fixing. Safety cord.

779

Panarc



Panarc downlights and corridor luminaires are designed to provide an economical and high-quality lighting of such areas. Due to their wide beam, downlights with flood lenses provide uniform, horizontal ambient lighting, even from wide luminaire spacings. The corridor luminaires with prism lenses illuminate both side walls along a hallway from the ceiling down to the floor, making the room look bright and welcoming. A sturdy, waterjet-proof construction enables Panarc luminaires to be used in almost any type of building.

K21 Art Gallery (former Parliament Building), Düsseldorf. Architect: Uwe Kiessler, Munich. Lighting designer: Licht Kunst Licht, Bonn/Berlin.

Panarc



All luminaires in this product range are white plastic. The diffusers available include flood lenses and prism lenses. The required electronic control gear is contained within the housing. All Panarc luminaires meet IP44 protection mode.

Surface-mounted downlights



The downlights are available in two housing sizes. Depending on the version, compact fluorescent lamps 2x9W, 2x18W or 1x36W are to be used. The lamps are arranged horizontally, resulting in a very shallow installation height. A rotationally symmetrical beam is produced with the flood lens.

Application Rotationally symmetrical, wide

beam light distribution, for ambient lighting or lighting arranged for specific zones, including entrances and lobbies, thoroughfares and development zones as well as covered outdoor areas.

Surface-mounted corridor luminaires



Corridor luminaires usually consist of the same two housings as the downlights in this product range. Here too, either 2x9W, 2x18W or 1x36W compact fluorescent lamps are to be used, depending on the version. The lamps are arranged horizontally, resulting in a very shallow installation height. A double washlight effect is achieved with the prism lens, which predominantly illuminates the walls of corridors and hallways.

Application

Axially symmetrical light distribution for illumination of parallel walls mainly of corridors and hallways.

781

Fire station, Altena-Rosmart. Architect: KKW Architekten, Altena.



Panarc Surface-mounted downlight with flood lens

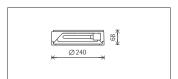




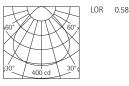
Housing for surface mounting: plastic. 2 electronic control gear units. 2 cable entries, through-wiring possible. 5-pole terminal block. Upper reflector: aluminium, white (RAL9010) powder-coated. Flood lens, plastic, clear. Approved as IP44 only for ceiling mounting. Accessories page 783

85594.000 White (RAL9002) ECG 2xTC-SEL 9W 2G7 600lm

Weight 1.00kg LMF D **▲**IP44







Number of luminaires per 100m² for 100lx

200lx 300lx 500lx 85594.000 2x9 W 15 30 45 74 Illuminance E_n (lx) for module (m)

1.8x1.8 85594.000 2x9 W 314 209 157 118

85594.000 22 W Connected load per 100lx 85594.000 P*: 3.24 W/m² Number of luminaires per 100lx 85594.000 14.75 1/100m²

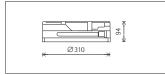




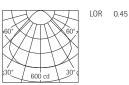
Housing for surface mounting: plastic. Electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block.
Upper reflector: aluminium, white (RAL9010) powder-coated. Flood lens, plastic, clear.
Approved as IP44 only for ceiling mounting.
Accessories page 783

85588.000 White (RAL9002) ECG 2xTC-L 18W 2G11 1200lm

Weight 1.90kg LMF D **▲**IP44

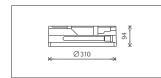




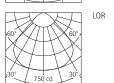


85592.000 White (RAL9002) ECG TC-F 36W 2G10 2800lm

Weight 1.90kg LMF D **▲**IP44







Number of luminaires per 100m² for

300lx 500lx 85588.000 2x18 W 10 19 29 48 85592.000 36 W 39 16 24

Illuminance E_n (lx) for module (m)

1.2x1.8 1.8x2.4 2.4x2.4 85588.000 2x18 W 490 327 245 184 85592.000 299 224 597 398

Connected load 85588.000 85592.000

40 W 39 W

Connected load per 100lx 85588.000 3.78 W/m² 85592.000 3.02 W/m²

Number of luminaires per 100lx 85588.000 9.44 1/100m² 85592.000 n*: 7.75 1/100m²

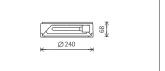
Panarc Surface-mounted corridor luminaire with prism lens





Housing for surface mounting: plastic. 2 electronic control gear units. 2 cable entries, through-wiring possible. 5-pole terminal block. Upper reflector: aluminium, white (RAL9010) powder-coated. Prism lens, plastic, clear. Approved as IP44 only for ceiling mounting. Accessories see below

85595.000 White (RAL9002) ECG 2xTC-SEL 9W 2G7 600lm





Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 0.90
 1.20

 Luminaire spacing (m)
 0.60
 0.90
 1.20
 1.20

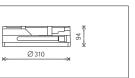
 Illuminance En (kx)
 155
 108
 82
 74





Housing for surface mounting: plastic. Electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block.
Upper reflector: aluminium, white (RAL9010) powder-coated.
Prism lens, plastic, clear.
Approved as IP44 only for ceiling mounting.
Accessories see below

85589.000 White (RAL9002) ECG 2xTC-L 18W 2G11 1200lm





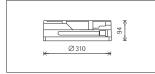
Mean illuminance E_n (lx)
Wall height (m) 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance E_n (lx)
 145
 111
 99
 80

85593.000 White (RAL9002) ECG TC-F 36W 2G10 2800lm





Mean illuminance E_n (lx)

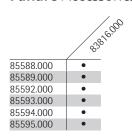
 Wall height (m)
 3.0

 Offset from wall (m)
 0.90
 0.90
 1.20
 1.20

 Luminaire spacing (m)
 0.90
 1.20
 1.50
 1.50

 Illuminance En (kx)
 182
 139
 125
 101

Panarc Accessories







83816.000 DALI

DALI switch actuator, double, 16A Two voltage-free contacts for switching ohmic, inductive and capacitive loads max 16A. DALI interface with two independent addresses. Mounting on DIN rail. Weight 0.21kg



The specially designed wallwasher reflector for fluorescent lamps provides uniform wall illumination. The use of economical fluorescent lamps makes these wallwashers particularly suitable for the ambient lighting of walls in museums as well as sales areas and promotional areas. The illumination of a wall can be used for vertical visual tasks or simply to reveal the wall as a surface delineating the room. Due to the reflections from the wall, indirect ambient lighting will produce uniform, diffuse light and a bright and welcoming atmosphere in the room.

"Stern" editorial offices, Gruner + Jahr, Hamburg. Architects: Steidle & Partner, Kiessler & Partner.

	The product range includes linear luminaires in two lengths for use with T16 fluorescent lamps. The housings with mounting frame are sheet metal powder-coated white, the wallwasher reflectors are satin finish aluminium, silver anodised.	
Surface-mounted wallwashers	Wallwashers for T16 fluorescent lamps up to 54W are available in surface-mounted versions.	Application Asymmetrical light distribution for highly uniform wallwashing. Applications include museums, trade fair stands, exhibitions, sale areas and promotional areas.

www.erco.com ERCO Program 2010/11

785

TFL Wallwasher for fluorescent lamps



Housing: aluminium profile, powder-

1 cable entries. Through-wiring possible. 3-pole terminal block. Electronic control

gear. Wallwasher reflector: aluminium, silver, satin matt anodised. Hinged cover for lamp replacement.

Accessories see below



T16 28W G5 2600lm







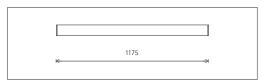


Mean illuminance E_n (lx) Wall height (m) 1.00 1.00 1.25 1.25 1.25 1.50 1.25 1.75 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)

65044.000 White (RAL9002) ECG T16 54W G5 4450lm

Weight 4.00kg LMF C 日本 鑑" 🕮 🕞





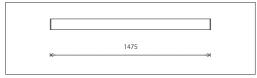


Mean illuminance En (lx) Wall height (m) 3.0 Offset from wall (m) Luminaire spacing (m) 1.00 1.00 1.25 1.25 1.25 1.50 1.25 1.75 Illuminance E_n (lx)

65045.000 White (RAL9002) ECG T16 35W G5 3300lm

Weight 5.00kg LMF C 日本 ⑧ ⑩ ⑩

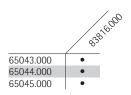






Mean illuminance E_n (lx) Wall height (m) 1.00 1.00 1.25 1.25 1.50 1.75 1.50 2.00 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 367 317 330 252

TFL Wallwasher Accessories







83816.000

DALI switch actuator, double, 16A
Two voltage-free contacts for switching
ohmic, inductive and capacitive loads
max 16A. DALI interface with two independent

addresses. Mounting on DIN rail. Weight 0.21kg

Pendant luminaires



Pendant downlights provide economical ambient lighting with high visual comfort and are seen as succinct architectural details. They are often used to highlight particular areas or focal points in a room but also in situations where the luminaire itself assumes the role of an architectural element. Additionally, the Pendant suspension system allows the exact height of the luminaire to be selected, giving optimum glare control. This ensures a high level of visual comfort, for example, when lighting tables or bars.





Parabelle



High-pressure discharge lamps Fluorescent lamps

790

791

Starpoint



Low-voltage halogen lamps High-pressure discharge lamps 796 797

Cylinder



High-pressure discharge lamps

800

www.erco.com ERCO Program 2010/11

787

Parabelle



Martin Braun Backforum, Hanover. Architect: Ackermann & Raff, Tübingen.

Pendant downlights are a superb example of functional design. Their shape clearly derived from the task for which they are designed. The reflector sizes and different housings for the lampholders and control gear design depend on the type of lamp used, its temperature and the lighting task to be achieved. Parabelle pendant downlights are available in two sizes. They can be fitted with metal halide lamps or compact fluorescent lamps

rarabelle pendant downlights are available in two sizes. They can be fitted with metal halide lamps or compact fluorescent lamps.

Not only does the silver anodised aluminium Darklight reflector provide glare-free illumination, it is also a visible component of the luminaire. The reflector rim has an impact resistant guard for stability. Safety glasses can be retrofitted. The cylinder contains the necessary control gear. The housing features cooling fins to ensure maximum heat dissipation. The pendant downlights for TC-T lamps has been formally modified. Pendant downlights are suspended either by means of wire ropes or pendant tubes.

Parabelle



The housings are cast aluminium or aluminium extrusions and powder-coated silver. The surfaces are designed as heat sinks. The visible, glare-free Darklight reflectors are also made of aluminium and silver anodised. The cut-off angle is 40°. The lower reflector edge is finished off by a cover ring painted silver on the outside and black on the inside. The pendant downlights are available in sizes 8 and 10. Pendant tubes, wire ropes, spiral cables and safety glasses are available as accessories.

Pendant downlights



High-pressure discharge lamps up to 150W and compact fluorescent lamps up to 42W are to be used in the two reflector sizes.

Application Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

789

Museo de Bellas Artes, Castellon de la Plana. Architect: Archa Luis m. Mansilla, Emilio Tunon.



Parabelle Pendant downlight for metal halide lamps





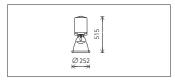


Housing: aluminium profile, powdercoated, designed as heat sink. Mounting bush, ø 16mm, for pendant tube or wire rope suspension. Electronic control gear. 3-pole terminal

Darklight reflector: aluminium, silver, bright anodised, externally silver lacquered. Cut-off angle 40°. Diffuser. Fixing ring: plastic, internally black, externally silver. Safety glass. Suspension to be ordered separately. Accessories page 793

87610.000 Silver ECG HIT-CE 70W G12 7300lm

Weight 4.60kg LMF D **₹**10 <u>0</u>0 <u>0</u>0

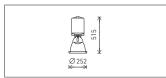


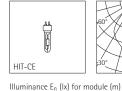




87611.000 Silver ECG HIT-CE 150W G12 15000lm Use lamp with cylindrical discharge

Weight 4.80kg LMF D







0.49 UGR 22.4 200 cd/m² 75° <

Turrioci or	idililiali es pei	100111	101
		100lx	2001
87610 000	70 W	3	

		TUUIX	200IX	300IX	500IX
87610.000	70 W	3	6	9	14
87611.000	150 W	2	3	4	7

87610 000 70 W 87611.000 150 W

1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 1696 1131 848 636 1743 1307

Connected load 87610 000 P· 79 W 87611.000 160 W Connected load per 100lx 2.16 W/m² 87610 000 2.12 W/m² 87611.000

Number of luminaires per 100lx 2.73 1/100m² 87610 000 87611.000 1.33 1/100m²







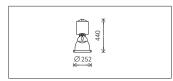
Housing: aluminium profile, powder-coated, designed as heat sink. Mounting bush, ø 16mm, for pendant tube or wire rope suspension.
Control gear with temperature control-

ler, timed-ignitor and capacitor. 3-pole connection.

Darklight reflector: aluminium, silver, bright anodised, externally silver lacquered. Cut-off angle 40°. Diffuser. Fixing ring: plastic, internally black, externally silver. Safety glass. Suspension to be ordered separately. Accessories page 793

87621.000 Silver HIT-CE 70W G12 6600lm





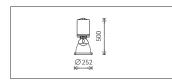




0.49 UGR 1000 cd/m² 65° <

87626.000 Silver HIT-CE 150W G12 15000lm Use lamp with cylindrical discharge









LOR 0.49 UGR 22.4 75° < 200 cd/m²

Number of luminaires per 100m² for

98 W

170 W

100lx 300lx 500lx 87621.000 70 W 6 10 16 87626,000 150 W

87621.000 70 W 87626.000 150 W

Illuminance E_n (lx) for module (m) 2.4x2.4 1534 1023 767 575 1743 1307

Connected load 87621 000 87626.000

Connected load per 100lx 87621.000 2.66 W/m² 2.26 W/m² 87626.000

Number of luminaires per 100lx 87621.000 3.02 1/100m² 87626.000 1.33 1/100m²

Parabelle Pendant downlight for compact fluorescent lamps







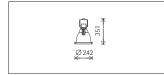
Housing: aluminium profile, powdercoated, designed as heat sink. Mounting bush, ø 13mm, for pendant tube or wire rope suspension. Electronic control gear. 3-pole terminal

Darklight reflector: aluminium, silver, bright anodised, externally silver lacquered. Cut-off angle 40°.
Fixing ring: plastic, internally black, externally silver.

Suspension to be ordered separately. Accessories page 793

87603.000 Silver ECG TC-TELI 18W GX24q-2 1200lm





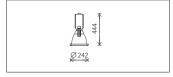




0.68 UGR 200 cd/m² 55° <

87607.000 Silver ECG TC-TELI 26W GX24q-3 1800lm

Weight 1.60kg LMF C **%** © P





Illuminance E_n (lx) for module (m)

18 W

26 W



0.69 UGR 13.6 200 cd/m² 55° <

Number	of	luminaires	per	100m ²	for
				1001	20

		100lx	200lx	300lx	500lx
87603.000	18 W	12	24	36	60
87607.000	26 W	8	16	24	39

		8/6	07.000
r	100lx		
•	10017		2

87603.000

1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 392 261 196 147 398 224 597 299

Connected load 18 W 87603 000 87607.000 26 W Connected load pe 87603 000 2 13 W/m² 87607.000 2.01 W/m² Number of luminaires per 100lx 11.81 1/100m² 87603 000 87607.000 7.75 1/100m² n*:







Housing: cast aluminium/aluminium profile, powder-coated, designed as heat sink. Mounting bush, ø 13mm, for pendant tube or wire rope suspension. Electronic control gear. 3-pole terminal

Darklight reflector: aluminium, silver, bright anodised, externally silver lacquered. Cut-off angle 40°.
Fixing ring: plastic, internally black, externally silver.

Suspension to be ordered separately.

Accessories page 793

87608.000 Silver ECG TC-TELI 32W GX24q-3 2400lm







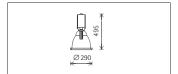


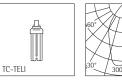
0.78 UGR 200 cd/m² 55° <

791

Parabelle Pendant downlight for compact fluorescent lamps

87609.000 Silver ECG TC-TELI 42W GX24q-4 3200lm Weight 1.90kg LMF C





LOR 0.67 UGR 13.7 55° < 200 cd/m²

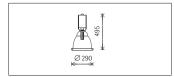
87615.000 Silver ECG 1-10V TC-TELI 42W GX24q-4 3200Im 2-pole terminal block for control line. Separate control line necessary.

Connected load

87608.000

87609.000

87615.000





Illuminance E_n (lx) for module (m)

1.2x1.8

894

1030

1030



1.8x1.8

596

687

LOR 0.67 UGR 13.7 55° < 200 cd/m²

2.4x2.4

335

386

Number of luminaires per 100m ² for					
		100lx	200lx	300lx	500lx
87608.000	32 W	6	11	16	26
87609.000	42 W	5	9	14	23
87615 000	42 W	5	9	14	23

35 W

45 W

JUUIN	3001X		
16	26		
14	23		
14	23		
	Connected	load per	100lx
	87608.000	P*:	1.81

87609.000

87615.000

87609.000 42 W 87615.000 42 W 100lx 1.81 W/m² 2.02 W/m²

2.02 W/m²

87608 000 32 W

Number of luminaires per 100lx 87608.000 n*: 5.18 1/100m² 87609.000 n*: 4.49 1/100m² 87615.000 n*: 4.49 1/100m²

1.8x2.4

447

515

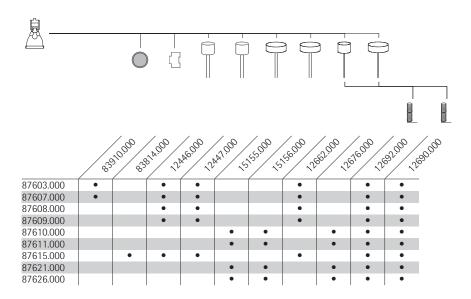


BMW Mini Dinamica dealership, Brescia. Architect: Scaramuzza/Rubelli. Lighting design: Piero Comparotto Arkilux, Verona.



Palais du Vin, Les Ateliers des Tanneurs , Brussels. Architect: Christophe GILLIS, OZON Architecture, Brussels.

Parabelle Accessories





83910.000 Safety glass Plastic ring, silver. Rapid locking clips. Weight 0.80kg

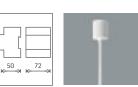


12692.000 White 3x1,5mm 12690.000 Black 3x1,5mm² Spiral cable L 500/2,500mm.



83814.000

DALI analogue converter 230V \pm 10%, For connection of luminaires with ECG 1-10V to Light System DALI. Conversion of a DALI signal into a 1-10V signal. Internal relay for inductive loads of max. 5A. Mounting on DIN rail. Weight 0.22kg



12446.000 White 12447.000 Silver Pendant tube suspension Pendant tube: metal, powder-coated. ø 13mm, L 1,040mm. Baldachin: plastic. ø 64mm, H 73mm. Load: 20kg.

Ø 13 J 1040











12676.000 Wire rope suspension Wire rope ø 1.75m, L 5000mm. Mounting bush: metal. Canopy: plastic, white, ø 105mm, H 43mm. Cable entry for 3x1.5mm². 5-pole terminal block.



ERCO Program 2010/11

Starpoint



Restaurant Bistro Lyonel, Neu-Isenburg. Architect: Tom Eisenbach, Frankfurt.

What makes Starpoint pendant downlights special is their matt frosted glass cover. The shimmering surface is more than just a decorative effect: it diffuses a small proportion of the light and results not only in bright light on the horizontal surface, but also comfortable ambient brightness. The aluminium lampholder housing has a ribbed heat sink which effectively dissipates the heat of the low-voltage halogen lamps are more energy efficient than incandescent lamps.

They last up to four times as long, retaining their brilliant light, power and colour throughout their life. Today, ever smaller light sources provide an opportunity to use the luminaire with a metal halide lamp. Starpoint pendant downlights are available in two versions for mounting on ERCO 3-circuit track or with ceiling fixtures.

Starpoint



The lampholder carriers are cast aluminium designed as heat sinks and powder-coated silver. Glarefree Darklight reflectors are aluminium and anodised with a silver mirror-finish. The visible luminaire cover is frosted glass. A frosted glass diffuser acts as the lamp cover within the reflector. Suspension of these luminaires is the lamp to the control of these luminaires in the lamb sion of these luminaires is by the connection cable.

Pendant downlights



The downlights are used for low-voltage halogen lamps up to 50W/12V or metal halide lamps of 20W. A pendant downlight has a transadapter for ERCO 3-circuit track. Another version is available with a silver plastic ceiling fixture, which houses the electronic trans which houses the electronic transformer.

ApplicationRotationally symmetrical, narrow beam light distribution, for decorative highlighting of free-standing presentation surfaces, seating areas, tables or following the contour of sales counters.

795

Garden Restaur-ant, Stockholm. Architect: Rosen-bergs Arkitek-ter, Stockholm, Akabaljev Bar-row Arkitekter, Stockholm.



Starpoint Pendant downlight with transadapter for low-voltage halogen lamps





73233.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm

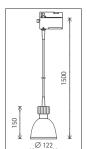
Weight 0.72kg LMF D **K**17 <u>CC</u> **C**3 □

Lampholder carrier: cast aluminium, powder-coated, designed as heat sink. Cable with strain relief, black. ERCO Transadapter for 3-circuit track: plastic. Electronic transformer 220-240/12V, 20-50W. Potentiometer for brightness control 10%-100%. LED function indicator. Circuit pre-selection. Frosted glass cover for indirect light emission.

Darklight reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 30°.

Diffuser as lamp cover: glass, frosted.

Use dimmers for electronic transformers (trailing edge).







h(m)	E(Ix)	D(m)
		17°
1	2823	0.30
2	706	0.60
3	314	0.90
4	176	1.20
5	113	1.49

Starpoint Pendant downlight for low-voltage halogen lamps



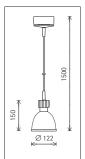


73270.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm

Weight 0.80kg LMF D **%** © © □



Lampholder carrier: cast aluminium, powder-coated, designed as heat sink. Cable with strain relief, black. Ceiling fixture: plastic, with electronic transformer 230/12V, 20-50W. 2-pole terminal block. Frosted glass cover for indirect light emission.
Darklight reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 30°. Diffuser as lamp cover: glass, frosted. Use dimmers for electronic transformers (trailing edge).





MAM	h(m)	E(Ix)	D(m)
$\chi \rangle H \langle \chi \rangle$			17°
0, × (00, 1	1	2823	0.30
\times / \mathbb{M} \ \times	2	706	0.60
/ / 	3	314	0.90
	4	176	1.20
0° 4000 cd 30° s	5	113	1.49

Starpoint Pendant downlight with transadapter for metal halide lamps



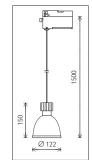


73275.000 Silver ECG HIT-TC-CE 20W PGJ5 1650lm

Weight 0.72kg LMF D

Lampholder carrier: cast aluminium, powder-coated, designed as heat sink. Cable with strain relief, black. ERCO Transadapter for 3-circuit track: plastic. Electronic control gear. Circuit pre-selection. Frosted glass cover for indirect light emission

Darklight reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 30°.
Diffuser as lamp cover: glass, frosted.







h(m)	E(Ix)	D(m)
		15°
1	6482	0.26
2	1620	0.53
3	720	0.79
4	405	1.05
5	259	1.32
	1 2 3 4	1 6482 2 1620 3 720 4 405

Cafe at the Rhine-land Industrial land Industrial Museum, Eu-skirchen. Archi-tect: Planteam West, Cologne. Lighting designer: Robin Uber, Licht-plan, Cologne.



797

Cylinder



The streamlined, simple form of the Cylinder pendant downlight means it can be integrated in many different types of architecture. It also provides high visual comfort. The Darklight technology combines the maximum visual comfort with the maximum light output ratio. In their basic form, downlights direct light downwards in narrow or wide beams and can especially be used to produce ambient lighting. The higher a room is and the larger the ceiling, the more anyone looking up is likely to be dazzled by light from the luminaires.

up is likely to be dazzled by light from the luminaires.

Downlights installed in particularly glare-sensitive areas – for example, over conference tables – should be fitted with reflectors which provide exceptional glare control.

St. Urban parish church, Freiburg. Lighting design: Hermann Hölker, Electrical/light engineering, Freiburg.

Cylinder



The cylindrical housing is aluminium and powder-coated white. Glare-free Darklight reflectors are aluminium and are silver anodised. The cut-off angle is 40°. When suspended a white pendant tube is used and the electrical connection to the ceiling is concealed within the small white plastic canopy.

Pendant downlights



In the 70W double-ended metal halide lamp version, the lamp compartment is covered with a flood lens. The control gear is contained within the cylindrical housing.

Application
Rotationally symmetrical, wide beam light distribution for ambient lighting applications such as museums, trade fair stands, exhibitions, sales areas and promotional areas.

799

Adalbert Stifter pharmacy, Vienna. Architect/lighting design: bpw architektur, Wien.



Cylinder Pendant downlight for metal halide lamps



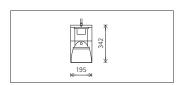




Cylinder: aluminium, powder-coated. Cylinder: aluminium, powder-coated. Linear air diffusers. Control gear with temperature control-ler, timed ignitor, capacitor. Suspension: pendant tube, white powder-coated, Ø 13mm, L 1000mm. Canopy: plastic, white, Ø 64mm, H 82mm. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Flood lens as safety glass above the Darklight reflector.

87890.000 White (RAL9002) HIT-DE-CE 70W RX7s 6500lm

Weight 5.30kg LMF D **4** <u>@</u> @







LOR UGR CO UGR C90 16.2 128 55° < 200 cd/m²

Number of luminaires per 100m² for 100lx 200lx

300lx 500lx 87890.000 70 W 6 11 Illuminance E_n (lx) for module (m)

1.8x1.8 87890.000 70 W 1533 1149 862

Connected load Connected load per 100lx 87890.000 P: 88 W 87890.000 P*: 1.77 W/m² Number of luminaires per 100lx 87890.000 2.01 1/100m²



Cylinder pendant luminaires emphasise the checkout area in the Diesel flagship store on Kings Road, London.

Task lights



The advantages of task lights are their total flexibility to suit the particular task. In addition, reducing the ambient lighting in favour of a locally illuminated task area also results in considerable energy savings. Task lights feature the high-quality lighting technology necessary to meet any ergonomic demands. The double arm provides versatility due to the extensive horizontal reach.



Lucy



Low-voltage halogen lamps Tungsten halogen lamps Fluorescent lamps 805 805 805

www.erco.com ERCO Program 2010/11

801

Lucy



Great Portland Estates, London. Architect: ORMS Architects, Gavin Hutchinson, London.

Lucy task lights combine high-quality design and high-quality lighting technology. Versions are available for fluorescent lamps and halogen lamps of different wattages to suit various applications. Versions for compact fluorescent lamps feature an anti-dazzle attachment with a Fresnel lens which distributes the luminous flux broadly over larger working areas such as layout tables. Versions with tungsten halogen lamps are suitable for complex lighting tasks such as fine detail or low contrast.

The low-voltage version has a relatively narrow beam with a matt glass anti-dazzle attachment. The tungsten halogen version has a matt glass anti-dazzle attachment to produce a wide light beam. Both anti-dazzle attachments act as UV filters. The double arm provides versatility due to the extensive horizontal reach. Lucy task lights can be permanently fixed to a desk top by means of a table base or can remain moveable using a table clamp. They are also available with a desk top base. The Lucy can be mounted to a wall by means of a wall plate or can be used with a floor standing base.

Lucy



The product range consists of three light heads of silver-lacquered aluminium. They have cast aluminium lampholder carriers designed as heat sinks containing the control switch. The light heads can rotate and tilt on the rigid arm. Two aluminium arms are connected together by a hinge and a visible connecting strut, this together with internal springs provides stabilisation. The integral cables are only visible at the hinged joints.

only visible at the hinged joints.

The transformer or control gear required for the lamp are fitted to the connection cable. The mechanical connection consists of a mounting stud with a safety ring. Accessories are available for floor, table and wall mountings.

Task lights



Lamps available are: low-voltage halogen lamps of 50W/12V, tungsten halogen lamps up to 75W or compact fluorescent lamps up to 26W. A safety glass or Fresnel lens acts as the luminaire cover.

ApplicationDirect beam, rotationally symmetrical light distribution for the illu-

mination of work surfaces.

803

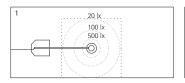
Library, Gödöllö. Architect: György Major. Lighting design: István Szakál (Iparterv Elektro).



Lucy

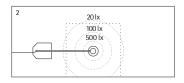


The luminaires are provided with hinges to allow flexibility to suit any lighting requirement. The Fresnel lens or spread lens as lamp cover ensures optimum light distribution.



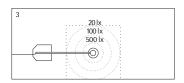


When using a low-voltage halogen lamp QT12 50W/12V, a matt glass produces a soft-edged light beam.



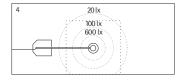


With a tungsten halogen lamp and a matt antidazzle attachment, the light beam is some-what wider.





When using a compact fluores-cent lamp TC-T 18W, a Fresnel lens ensures glare-free light with high visual comfort.





A compact fluorescent lamp TC-T 26W increases the illuminance in proportion to the higher watt-age. Here, too, a Fresnel lens as lamp cover ensures high visual comfort.



Functional luminaire design does not include superfluous elements and derives its quality from the technical necessities which is evident, especially in the design details. All Lucy task light hinges are made of solid cast aluminium and can be individually adjusted. Moulded plastic elements ensure that the exposed cables are held at the correct angles.

ERCO Program 2010/11

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Lucy Task light for low-voltage halogen lamps





33170.000 Silver QT12-ax-RE 50W 12V GY6.35 1250lm



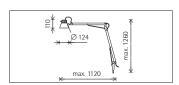
Light head: aluminium, anodised. Switch. Cast aluminium lampholder carrier, designed as heat sink. Articulated arm: aluminium profile, anodised. Stabilising of forces by means of visible steel connecting struts with internal springs.

Hinges: cast aluminium. Plastics elements for optimum conductor routing visible within range of joints, however otherwise concealed.

Mounting stud with mounting and safety ring for mounting to base, to be ordered separately.

Cable with 3-pin plug and transformer, L 2,500mm.

Reflector: aluminium, silver anodised, mirror-finish. Frosted spread lens. Accessories page 806







Lucy Task light for tungsten halogen lamps





33179.000 Silver QT18 75W/c 230V B15d L86mm 1100lm

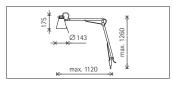
Weight 1.60kg LMF D

Light head: aluminium, anodised. Switch. Cast aluminium lampholder carrier, designed as heat sink. Articulated arm: aluminium profile, anodised. Stabilising of forces by means of visible steel connecting struts with internal springs.

Hinges: cast aluminium. Plastics elements for optimum conductor routing visible within range of joints, however otherwise concealed.

Mounting stud with mounting and safety ring for mounting to base, to be ordered separately.
Cable with 3-pin plug, L 2,500mm.

Reflector: aluminium, silver anodised. Frosted spread lens. Accessories page 806







Lucy Task light for compact fluorescent lamps





33176.000 Silver TC-T 18W GX24d-2 1200lm



Light head: aluminium, anodised. Switch. Cast aluminium lampholder carrier, designed as heat sink. Articulated arm: aluminium profile, anodised. Stabilising of forces by means of visible steel connecting struts with internal springs.

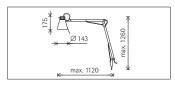
Hinges: cast aluminium. Plastics elements for optimum conductor routing visible within range of joints, however otherwise concealed.

Mounting stud with mounting and safety ring for mounting to base, to be ordered separately.



Accessories page 806

Cable with 3-pin plug and low-loss control gear, L 2,500mm. Reflector: plastic, silver. Fresnel lens.







Lucy Task light for compact fluorescent lamps





33189.000 Silver TC-T 26W GX24d-3 1800lm

Weight 1.80kg LMF D

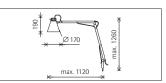
Light head: aluminium, anodised. Switch. Cast aluminium lampholder Articulated arm: aluminium profile, anodised. Stabilising of forces by means of visible steel connecting struts with

internal springs.
Hinges: cast aluminium. Plastics elements for optimum conductor routing visible within range of joints, however

otherwise concealed.

Mounting stud with mounting and safety ring for mounting to base, to be ordered separately.

Cable with 3-pin plug and low-loss control gear, L 2,500mm. Fresnel lens as safety glass. Accessories see below







Lucy Accessories

	85°	33,000	90,00	91,00	92.00	93.00	94,00
33170.000	•	•	•	•	•	•	
33176.000		•	•	•	•	•	
33179.000	•	•	•	•	•	•	
33189.000		•	•	•	•	•	





83829.000 DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



33190.000 Lucy Floor standing base Plate and tube: steel, silver powdercoated. Weight 8.50kg



780

33191.000 Lucy Wall bracket Cast aluminium, silver powder-coated. Weight 0.20kg





Lucy Table base

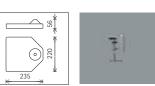
Weight 0.35kg



Cast aluminium, silver powder-coated.

To be screwed to table-top.

33193.000 Lucy Desk top base Cast aluminium, silver powder-coated. Weight 6.40kg



33194.000 Lucy Table clamp Cast aluminium, silver powder-coated.

Clamp extension up to 50mm. Weight 0.25kg

73

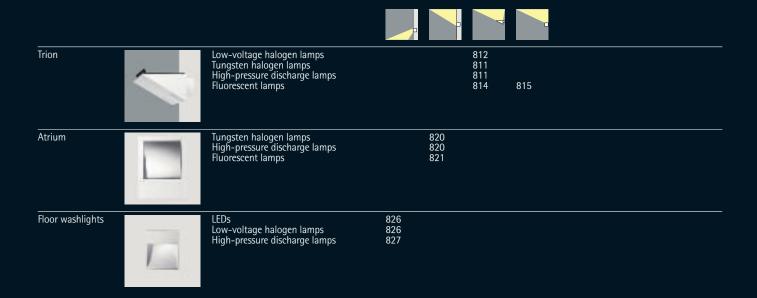
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Wall-mounted luminaires



Wall mounted downlights can perform many different functions. Ceiling washlights provide an illumination of the ceiling with a high degree of uniformity. Additional adjustable cut-off shields restrict the projected beam to the precise section of ceiling to be illuminated. Uplights are designed for optimum efficiency and light distribution. As such, they are ideal for economical indirect lighting especially with metal halide or compact fluorescent lamps. Floor washlights are designed to provide safe illumination of traffic routes.



www.erco.com ERCO Program 2010/11

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Trion



Galleria d'Arte moderna "Sant'Anna", Palermo. Lighting design: Adragna Illuminazione, Alcamo.

The product range of ceiling lighting luminaires is called Trion. These luminaires have a stylistic simplicity that has been designed to ensure their unobtrusive incorporation into architectural interiors, whether ancient or modern. Trion ceiling washlights provide ceiling illumination of exceptional uniformity. Two adjustable cut-off shields restrict the projected beam to the precise area to be illuminated. Depending on the lighting requirements, Trion ceiling washlights for two lamp types are available: Tungsten halogen lamps produce a brilliant light and excellent colour rendition; The Trion ceiling washlights with metal halide lamps provide high luminous efficacy and long service life.

The necessary control gear for the metal halide lamps is housed on the wall plate. Whereas Trion ceiling washlights are designed to be as versatile as possible and can be adapted to exactly suit the requirements of the space, Trion Uplights are designed for maximum efficiency and light distribution. As such, Trion Uplights are ideal for economical indirect lighting especially with metal halide lamps. To provide excellent colour rendition, tungsten halogen or low-voltage halogen version are available.

The main feature of the Trion Uplight for T16 lamps is its compact rectangular aluminium profile. The mounting wall remains free of spill light. Trion is ideal for use in rooms with high ceilings.

Trion



The product design consists of a triangular housing with cast aluminium wall plate, powder-coated white. The reflectors are aluminium silver anodised. Cut-off shields allow free adjustability to suit the ceiling area to be illuminated.

Ceiling washlights



For Trion ceiling washlights for uniform ceiling illumination, double-ended QTDE12 tungsten halogen lamps up to 500W, or metal halide lamps up to 150W are to be used. Two cut-off shields provide variable control on the main axis of the luminaire, these can be freely adjusted.

Application

Indirect, asymmetrical light distribution for uniform ceiling illumination, with adjustable beam for adaptation to the room geometry, for illumination of ceilings in historical buildings, churches, theatres and museums.

Uplights



Trion uplights are designed for optimum efficiency and light distribution. QT12 low-voltage halogen lamps of up to 50W/12V are to be used in the smaller sized housing. The electronic transformer is housed on the wall plate. This uplight has an additional cut-off shield to prevent spill light on the wall. In the medium and larger sized housings, QT-DE12 double-ended tungsten halogen lamps up to 500W are to be used. Some versions are fitted with a cut-off shield to prevent spill light on the wall. Double-ended HIT-DE metal halide lamps up to 250W are to be used in the largest luminaire housing. The necessary control gear or electronic components are housed on the wall plate. Compact fluorescent lamps are to be used in the largest of the triangular housings. TC-T lamps up to 42W are used. Both low-loss control gear and electronic control gear are used. Trion uplights for T16 fluorescent

lamps rectangular in cross-section, are made of aluminium profile and powder-coated white. The luminaires available in lengths up to approx. 1.2m. T16 lamps up to 54W are to be used. T16 lamps generally have electronic control gear.

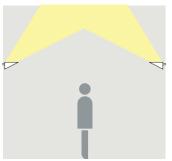
Application

Asymmetrical light distribution for indirect lighting and indirect general lighting in offices, passageways and corridors areas, exhibitions, sales areas and promotional areas, etc.

809

Trion



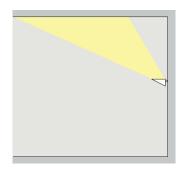


Trion ceiling washlights
The Trion ceiling washlight has a light distribution system which combines two features: while large areas of the ceiling are illuminated, the walls are not. Two cut-off shields provide adjustable control on the main axis of the beam. Ceiling washlights are ideal for the lighting of rooms with either high or vaulted ceilings.



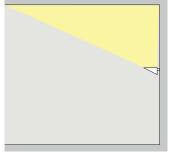
Trion uplights
Uplights are often preferred for indirect lighting in rooms. The basic distinguishing feature in contrast to ceiling washlights is that their reflector geometry provides a defined light distribution and a higher light output ratio. The reflector geometry of the Trion uplights was designed specifically to maximise the light output ratio for indirect work-

place lighting.

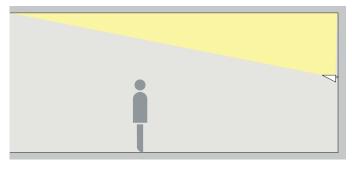


Trion ceiling washlights ensure ceiling illumination of exceptional uniformity. Two adjustable cut-off shields restrict the projected beam to the precise area to be illuminated. If both cut-off shields are closed, the beam angle is 35°. The angle

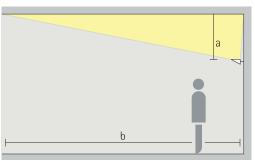
between the wall on which the luminaire is mounted and the edge of the beam on the ceiling is adjustable.



If the rear cutoff shield is accurately adjusted, the ceiling can be illuminated beyond the Trion luminaire without light spilling on the wall.



If the front cut-off shield is adjusted, the ceiling is illuminated up to a width of well over 12m. Depending on the size of the room, it can make sense to illuminate the ceiling from both opposite walls.



For uniform ceiling illumination, the mounting distance below the ceiling is recommended to be a third of the ceiling to be illuminated.

Trion Ceiling washlight for tungsten halogen lamps



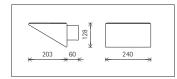


powder-coated. 2-pole terminal block. Reflector: aluminium, silver anodised. 2 cut-off shields: metal, black powder-Safety glass.
With max. wattage, the safety distance to the surface above must not be less than 0.4m. Accessories page 816

Housing and wall plate: cast aluminium,

33498.000 White (RAL9002) QT-DE12-RE 400W 230V R7s L114mm 9000lm

Weight 2.20kg LMF F 日本 鑑7 🕮 🖭







Trion Ceiling washlight for metal halide lamps





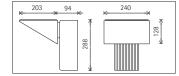
Housing and wall plate: cast aluminium, powder-coated.

3-pole terminal block. Control gear with temperature controller, timer-ignitor, capacitor.
Reflector: aluminium, silver anodised.
2 cut-off shields: metal, black powder-

coated. Safety glass. With max. wattage, the safety distance to the surface above must not be less than 0.4m.

33497.000 White (RAL9002) HIT-DE-CE 70W RX7s 6500lm



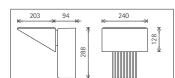








Weight 6.00kg LMF F 日本 罷 🕮 🕞





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811

Trion Uplight for low-voltage halogen lamps





33445.000 White (RAL9002) Weight 0.55kg 0T12-ax-RE 50W 12V GY6.35 1250lm Weight 0.55kg LMF F € € € © □

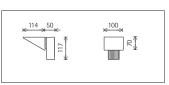
Housing: cast aluminium, powdercoated. Wall plate: cast aluminium, plastic.

2–pole terminal block. Electronic transformer 230/12V, 20–50W. Reflector: aluminium, silver anodised. Towards the wall: adjustable cut-off shield.

Cover frame: cast aluminium, black powder-coated. Safety glass. With max. wattage, the safety distance to the surface above must not be less than 0.4m.

Use dimmers for electronic transformers (trailing edge).

Accessories page 816







LOR 0.36 DLOR 0.00 ULOR 0.36

Connected load 33445.000 P: 53 W Connected load per 100lx 33445.000 P*: 22.84 W/m² Number of luminaires per 100lx 33445.000 n*: 43.09 1/100m²

Trion Uplight for tungsten halogen lamps





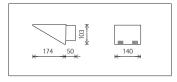
Housing: cast aluminium, powdercoated. Wall plate: cast aluminium, plastic. 2-pole terminal block. Reflector: aluminium, silver anodised. Towards the wall: adjustable cut-off

shield.
Cover frame: cast aluminium, black powder-coated. Safety glass.
With max. wattage, the safety distance to the surface above must not be less than 0.4 m

than 0.4m. Accessories page 816

33440.000 White (RAL9002) OT-DE12-RE 120W 230V R7s L75mm 2300lm









LOR 0.44 DLOR 0.00 ULOR 0.44

Connected load 33440.000 P: 120 W Connected load per 100lx 33440.000 P*: 22.82 W/m² Number of luminaires per 100lx 33440.000 n*: 19.01 1/100m²

Trion Uplight for tungsten halogen lamps

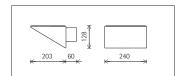




Housing and wall plate: cast aluminium, powder-coated.
2-pole terminal block.
Reflector: aluminium, silver anodised.
Cover frame: cast aluminium, black powder-coated.
Safety glass.
With max. wattage, the safety distance to the surface above must not be less than 0.4m.
Accessories page 816

33486.000 White (RAL9002) OT-DE12-RE 400W 230V R7s L114mm 9000lm









LOR 0.62 DLOR 0.00 ULOR 0.62

Connected load 33486.000 P:

400 W

Connected load per 100lx 33486.000 P*: 13.91 W/m²

Number of luminaires per 100lx 33486.000 n*: 3.48 1/100m²

Trion Uplight for metal halide lamps



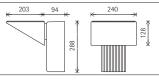


Housing and wall plate: cast aluminium, powder-coated.
3-pole terminal block. Electronic control gear.
Reflector: aluminium, silver anodised.
Cover frame: cast aluminium, black powder-coated. Safety glass.

powder-coated. Safety glass. With max. wattage, the safety distance to the surface above must not be less than 0.4m.

33494.000 White (RAL9002) ECG HIT-DE-CE 70W RX7s 6500lm

Weight 3.90kg LMF F © ©







33489.000 White (RAL9002) ECG HIT-DE-CE 150W RX7s 14200lm

Weight 4.10kg LMF F Wr @ @ 203 394 240 38 27 240 27



7500 cd 150° LOR 0.52 DLOR 0.00 ULOR 0.52

Connected load 33494.000 P: 79 W 33489.000 P: 160 W Connected load per 100lx 33494.000 P*: 4.50 W/m² 33489.000 P*: 4.17 W/m² Number of luminaires per 100lx 33494.000 n*: 5.70 1/100m² 33489.000 n*: 2.61 1/100m²

813

Trion Uplight for metal halide lamps

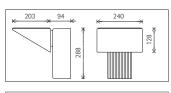




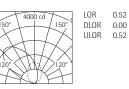
Housing and wall plate: cast aluminium, powder-coated.
3-pole terminal block. Control gear with temperature controller, timer-ignitor, capacitor.
Reflector: aluminium, silver anodised.
Cover frame: cast aluminium, black powder-coated. Safety glass.
With max. wattage, the safety distance to the surface above must not be less than 0.4m.

33495.000 White (RAL9002) HIT-DE-CE 70W RX7s 6500lm

Weight 4.80kg LMF F 日本 **愛** ©





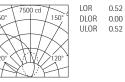


33491.000 White (RAL9002) HIT-DE-CE 150W RX7s 14200lm

Weight 6.00kg LMF F 日本 **《** [©] [©]

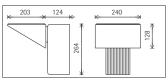
203 94 240 240





33488.000 White (RAL9002) HIT-DE 250W Fc2 20000lm

Weight 7.50kg LMF F 日本 **W** [®] [®]







Connected load 33495.000 P: 88 W 33491.000 P: 170 W 33488.000 P: 275 W

Connected load per 100lx 33495.000 P*: 5.02 W/m² 33491.000 P*: 4.44 W/m² 33488.000 P*: 5.09 W/m² Number of luminaires per 100lx 33495.000 n*: 5.70 1/100m² 33491.000 n*: 2.61 1/100m² 33488.000 n*: 1.85 1/100m²

Trion Uplight for compact fluorescent lamps



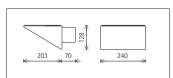


Housing: cast aluminium, powder-coated. Wall plate: cast aluminium, plastic.
2-pole terminal block.
Reflector: aluminium, silver anodised.
Cover frame: cast aluminium, black powder-coated.

Accessories page 816

33485.000 White (RAL9002) TC-T 26W GX24d-3 1800lm TC-D 26W G24d-3 1800lm Low-loss control gear.













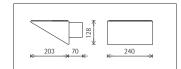


LOR 0.55 DLOR 0.00 ULOR 0.55

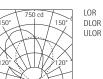
Trion Uplight for compact fluorescent lamps

33483.000 White (RAL9002) ECG TC-TELI 26W GX24q-3 1800lm TC-TELI 32W GX24q-3 2400lm Electronic control gear.

Weight 2.10kg LMF F 日本 **《** © ©







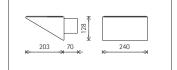
LOR 0.60 DLOR 0.00 ULOR 0.60

0.60

0.00

33482.000 White (RAL9002) ECG TC-TELI 42W GX24q-4 3200lm Electronic control gear.

Weight 2.10kg LMF F 日本 **W © ©**





TC-TELI



LOR 0.60 DLOR 0.00 ULOR 0.60

0	La a al		
Connected	ioad		
33485.000	P:	31	W
33485.000	P:	31	W
33483.000	P:	26	W
33483.000	P:	35	W
33482 000	p.	45	۱۸

Connected load per 100lx 33485.000 P*: 6.01 W/m² 33485.000 P*: 6.01 W/m² 33483.000 P*: 4.64 W/m² 33483.000 P*: 4.64 W/m² 33482.000 P*: 4.48 W/m²

Number of luminaires per 100lx 33485.000 n*: 19.38 1/100m² 33485.000 n*: 17.69 1/100m² 33483.000 n*: 13.27 1/100m² 33483.000 n*: 13.27 1/100m² 33482.000 n*: 9.95 1/100m²

Trion Uplight for fluorescent lamps



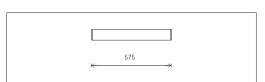


Housing: aluminium profile, powder-coated.
1 cable entry. 3-pole terminal block. Electronic control gear. Reflector: aluminium, silver, bright anodised. Aperture hinged to facilitate lamp replacement.

65046.000 White (RAL9002) ECG T16 24W G5 1750lm

Weight 2.00kg LMF F © ©









LOR 0.59 DLOR 0.00 ULOR 0.59

65048.000 White (RAL9002) ECG T16 54W G5 4450lm

Weight 4.00kg LMF F © ©









LOR 0.59 DLOR 0.00 ULOR 0.59

Connected load 65046.000 P: 27 W 65048.000 P: 58 W

Connected load per 100lx 65046.000 P*: 5.11 W/m² 65048.000 P*: 4.32 W/m² Number of luminaires per 100lx 65046.000 n*: 18.94 1/100m² 65048.000 n*: 7.45 1/100m²

Trion Accessories

	33	²⁵ 9.00	879,000
33440.000		•	
33445.000		•	
33482.000	•		
33483.000	•		
33485.000	•		
33486.000		•	
33498.000		•	



33429.000 Acrylic cover





83829.000
DALI
DALI dimmer 1000W
for ohmic loads, conventional and electronic transformers.
Mounting on DIN rail.
Weight 0.18kg





Castell d' Alaquas, Valencia. Lighting design: Claude R. Engle, Chevy Chase.

Dresden Frauenkirche (Church of Our Lady), Dresden. Lighting design: Ingenieurbüro Bamberger, Pfünz.

Atrium



Centro Cultural Fundación Círculo de Lectores, Barcelona. Architect and lighting designer: Jordi Garcés, Barcelona.

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The special light distribution of the Atrium Uplights is highly suitable for the indirect illumination of rooms or to highlight large areas of ceiling. A horizontal diffuser improves the quality of light producing a high degree of uniformity on the ceiling. Excellent visual comfort is provided by the high glare control of the Darklight reflector. The compact design of the flushplastered luminaire produces a highly aesthetic quality and creates a significant detail on the wall.

The Multichrome Uplight means that rooms can be illuminated using different colours of light. Multichrome refers to the technique of mixing different colours of light by switching the lamps. Seven different colours are possible by combining the three coloured fluorescent lamps: the three primary colours red, green and blue, and four additional secondary colours. Due to the spectral properties of coloured fluorescent lamps, all the colours of light produced have a pastel character. The horizontal diffuser produces a uniformly mixed colour on the ceiling.

Atrium



The range is available in two sizes and features a rectangular housing for cavity wall installation. The aluminium Darklight reflector is silver anodised. A horizontal, internal diffuser also serves as a safety glass. Flush-fitting installation in brick-work or cavity walls is possible with a housing for recessed mounting, available as an accessory.

Uplights



The following lamps are used in Atrium Uplights: double-ended tungsten halogen lamps up to 150W, compact, single-ended, metal halide lamps up to 70W, and 26W compact fluorescent lamps.

Application Asymmetrical light distribution for indirect lighting and/or indirect general lighting in exhibitions, sales areas, promotional areas, passages and walkways.

Uplights, multichrome



With the large version of the Multichrome Atrium Uplight, the three 9W compact fluorescent lamps for red, green and blue can be switched on individually or in combination. The horizontal diffuser produces a uniformly mixed colour on the ceiling.

Application

Asymmetrical light intensity distribution for indirect lighting or indirect ambient lighting; applications include exhibitions, bars, promotional areas and adding scenic lighting to spaces.



Emden Art Hall. Architect: Prof. Friedrich and In-geborg Spengelin, Hanover; Ven-neberg & Zech, Hanover.

Atrium

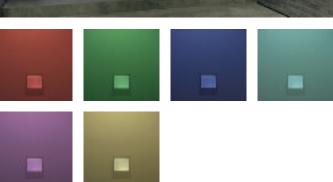


The Multichrome version of the uplight allows space to be recreated with different colours of light. The flood light distribution means that coloured, scenic lighting effects can be projected uniformly across a ceiling. Due to the spectral properties of coloured fluorescent lamps, all the colours of light produced have a pastel character.

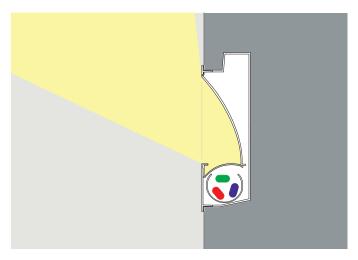




The three coloured fluorescent lamps can be switched on in any combination, resulting in seven possible colours: the three primary colours of red, green and blue, the three secondary colours of cyan, magenta and yellow and the mixed colour of white.



819



The Multichrome Atrium Uplight utilises high-quality lighting technology that produces the various colours of light by switching on different lamp combinations. To achieve a uniform colour on the ceiling, the coloured light of the individual lamps must be perfectly mixed. A light colour mixer with a combined reflector-diffuser system ensures that totally mixed colours are projected onto the cover glass without any coloured shadows. The light is consequently uniformly projected across the ceiling without any colour deviations at the edge of the beam.

Atrium Uplight for tungsten halogen lamps

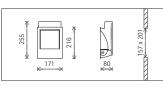




Size 5
Housing for mounting in dry-wall
partitions: metal, black powder-coated.
Mounting bracket with screw fixing.
Clamp extension 10-25mm.
2 cable entries, through-wiring possible.
5-pole terminal block.
Front cover: cast aluminium, white
(RAL9002) powder-coated.
Darklight reflector: aluminium, anodised. Horizontal diffuser as safety glass.
Accessories page 822

33510.000 Reflector silver QT-DE12-RE 80W 230V R7s L75mm 1450lm

Weight 1.70kg LMF F 日本 **愛** ©





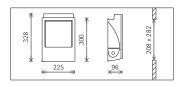




Size 7
Housing for mounting in dry-wall partitions: metal, black powder-coated. Mounting bracket with screw fixing. Clamp extension 10-25mm.
2 cable entries, through-wiring possible. 5-pole terminal block.
Front cover: cast aluminium, white (RAL9002) powder-coated. Darklight reflector: aluminium, anodised. Horizontal diffuser as safety glass. Accessories page 822

33512.000 Reflector silver OT-DE12-RE 120W 230V R7s L114mm 2300lm









Atrium Uplight for metal halide lamps

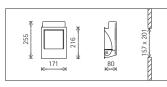




Size 5
Housing for mounting in dry-wall partitions: metal, black powder-coated. Mounting bracket with screw fixing. Clamp extension 10-25mm.
Electronic control gear. 2 cable entries, through-wiring possible. 5-pole terminal block.
Front cover: cast aluminium, white (RAL9002) powder-coated.
Darklight reflector: aluminium, anodised. Horizontal diffuser as safety glass.
Accessories page 822

33511.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm

Weight 1.90kg LMF F 日本 **狐**ºs ��





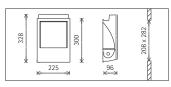


Atrium Uplight for metal halide lamps













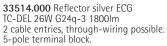
Atrium Uplight for compact fluorescent lamps

%05 PC

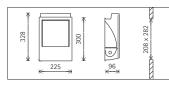


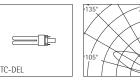


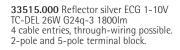
Size 7 Housing for mounting in dry-wall partitions: metal, black powder-coated. Mounting bracket with screw fixing. Clamp extension 10-25mm. Electronic control gear.
Front cover: cast aluminium, white
(RAL9002) powder-coated.
Darklight reflector: aluminium, anodised. Horizontal diffuser. Accessories page 822



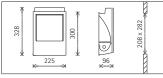
Weight 2.70kg LMF F 日本 ❸5 №







Weight 2.75kg LMF F **₹**05 **P**







Headquarters of the CETIB association of engineers, Barcelona. Light-ing designer: Biosca y Botey, Barcelona.



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Atrium Uplight multichrome for compact fluorescent lamps



33516.000 Reflector silver TC-S 9W G23 200lm blue TC-S 9W G23 400lm red TC-S 9W G23 800lm green



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Weight 4.00kg LMF F

Size 7

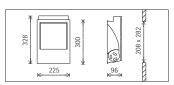
Housing for mounting in dry-wall partitions: metal, black powder-coated. Mounting bracket with screw fixing. Clamp extension 10-25mm.

Lamps can be switched on/off individually or in combination.
3 sets of low-loss control gear. 2 cable entries, through-wiring possible. 5-pole

terminal block.
Front cover: cast aluminium, white (RAL9002) powder-coated.
Darklight reflector: aluminium, anodicad

ised. Light colour mixer: the reflector-diffuser system ensures that the separate light colours are thoroughly mixed and emitted from the light aperture without any coloured shadows. Hinges open for lamp replacement without tools.

Accessories see below















Atrium Accessories

	635	829,000	335	235	18,00
33510.000	•		•		
33511.000			•		
33512.000	•			•	
33513.000				•	
33514.000				•	
33515.000		•		•	
33516.000				•	



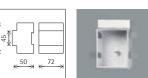


83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



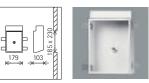
83814.000

DALI
DALI analogue converter 230V ± 10%, 5A
For connection of luminaires with ECG
1-10V to Light System DALI.
Conversion of a DALI signal into a
1-10V signal.
Internal relay for inductive loads of max. 5A.
Mounting on DIN rail.
Weight 0.22kg



33517.000

Housing for recessed mounting Flush-mounting in brickwork or in dry-wall partitions. Metal, white (RAL9010) powder-coated. Mounting bracket: metal. Clamp extension 10-25mm. 2 cable entries. Weight 1.00kg



33518.000
Housing for recessed mounting
Flush-mounting in brickwork or in drywall partitions. Metal, white (RAL9010)
powder-coated.
Mounting bracket: metal. Clamp extension 10-25mm.
4 cable entries.
Weight 1.50kg

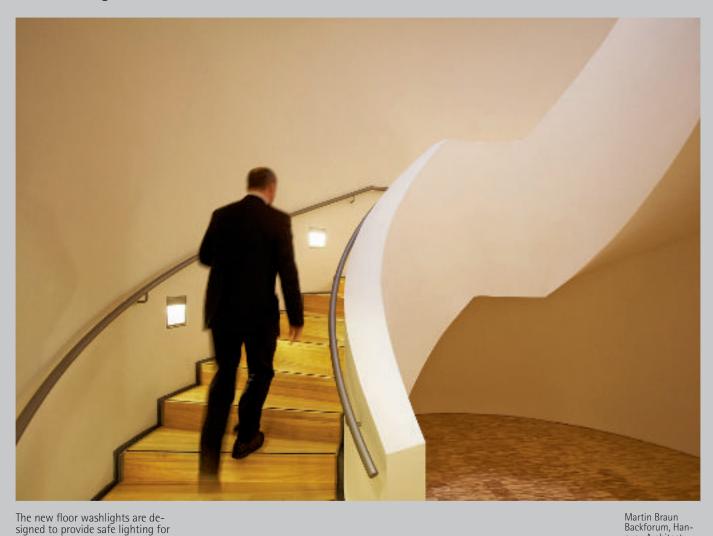
Floor washlights

safety glass in front of the inner re-

flector prevents the ingress of dust within the luminaire improving the luminaires maintenance factor. The mounting plate for double-sided

use provides a choice between two types of mounting: the floor wash-

types of mounting: the floor washlights can be mounted both with an overlapping recessed edge and absolutely flush with the wall. The lamps for the floor washlight range from low-voltage halogen lamps through efficient high-power LEDs to the powerful metal halide lamps.



traffic routes such as corridors and hallways or stairs. The reflector system produces a wide beam light distribution with a pleasantly soft progression of the illuminance gradient. Passers-by receive optimal orientation by way of the illuminated surface and the discreet illuminance of the satin-matt outer reflector. The reflector has a scratch-proof silver coating which ensures a lasting, high-quality appearance even in public areas. A

Martin Braun Backforum, Hanover. Architect: Ackermann & Raff, Tübingen.

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Floor washlights



The interior upper reflector of the floor washlight is silver anodised aluminium and the reflector as front plate, is plastic with a silver surface-coating. The mounting frames can be used in two ways. In the conventional version, the frame neatly covers the ceiling aperture. In the version 'with trim detail flush with the wall', the mounting frame is simply inverted and the other side is used. This side is intended for mounting in plastered walls. When mounted in this way, both the frames and luminaires are flush mounted.

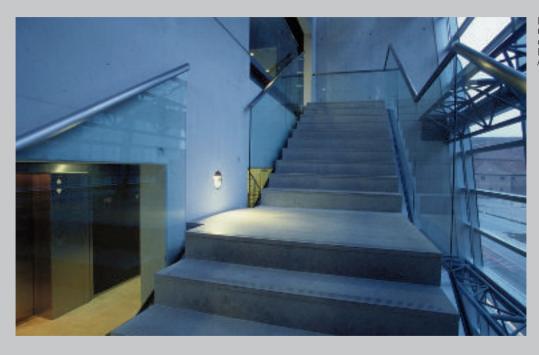
Floor washlights



LED modules, low-voltage halogen lamps QT9 20W/12V and metal halide lamps of 20W in square or round versions are used in the floor washlights. The LED modules are available in both daylight white, with a colour temperature of 5500K and in 3500K warm white. Electronic transformers or other control gear are integral within the housing and through-wiring is possible. A horizontally arranged

Softec lens functions as a safety

Application
Direct beam, asymmetrical light distribution, to illuminate or identify walkways, hallways and stairs in buildings such as hotels, theatres, cinemas and concert halls.



Royal Library, Copenhagen. Ar-chitect: Schmidt, Hammer & Lassen,

Floor washlights



The floor washlights produce a wide beam light distribution to provide safe orientation for stairs and walkways. The front cover consisting of silver-coated cover plate and reflector is available in round or square version in order that the luminaire performs technically and can be correlated with the architecture. The upper baffle covers a silver anodised aluminium reflector. For a uniform luminaire Maintenance Factor, the design includes a diffuser as safety glass.

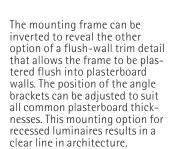


To cater for different styles of architecture, the floor washlight is available in two versions – square and round.

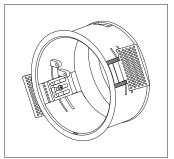


In LED technology, the floor washlights are highly energy-efficient with a long life that makes them effectively maintenance-free.

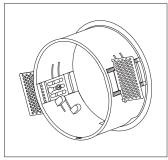
The floor washlights have a reversible mounting frame for two different mounting options. This means that the floor washlight can be mounted – with the mounting frame overlapping the wall aperture to form a neat cover.







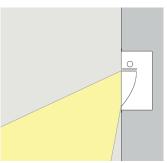




825



LED versions: due to the rapid technological development of LEDs, the luminance has been rising steadily. ERCO documents this improvement as a product version on the type plate of its luminaires.



Floor washlight with LED



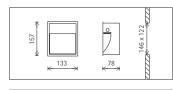


44596.000 Reflector silver LED day-LED 3.6W 135lm 5500K Version 1



Housing for recessed mounting in dry-Housing for recessed mounting in dry-wall partitions: plastic. Double-sided reversible mounting frame, for covering the wall cut-out or for use as plastered-in flush wall, trim detail: plastic, white (RAL9002) lacquered. Mounting bracket: metal. Clamp extension 8-22mm. Electronic control gear. 5-pole terminal block. Through-wiring possible. Replaceable LED module. Cover plate with reflector: plastic, sur-Cover plate with reflector: plastic, surface-coated silver. Horizontal Softec lens as safety glass.



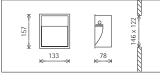






44594.000 Reflector silver LED warm LED 3.6W 90lm 3500K Version 1









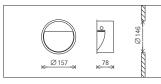
Housing for recessed mounting in drywall partitions: plastic. Double-sided reversible mounting

Double-sided reversible mounting frame, for covering the wall cut-out or for use as plastered-in flush wall, trim detail: plastic, white (RAL9002) lacquered. Mounting bracket: metal. Clamp extension 8-22mm. Electronic control gear. 5-pole terminal block. Through-wiring possible. Replaceable LED module. Cover plate with reflector: plastic sur-Cover plate with reflector: plastic, surface-coated silver. Horizontal Softec lens as safety glass.

Wall cut-out ø 157mm with flush wall, trim detail.





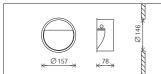
















Floor washlight for low-voltage halogen lamps





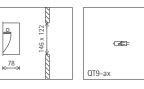
44574.000 Reflector silver QT9-ax 20W 12V G4 320lm

Weight 0.82kg LMF C 日本 優。 @ ⑫

Housing for recessed mounting in drywall partitions: plastic.

Double-sided reversible mounting frame, for covering the wall cut-out or for use as plastered-in flush wall, trim detail: plastic, white (RAL9002) lacquered. Mounting bracket: metal. Clamp extension 8-22mm. Electronic transformer 230/240/12V. 5-pole terminal block. Through-wiring

Cover plate with reflector: plastic, sur-face-coated silver. Horizontal Softec lens as safety glass.





Use dimmers for electronic transformers (trailing edge).

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Floor washlight for low-voltage halogen lamps





44584.000 Reflector silver QT9-ax 20W 12V G4 320lm



Weight 0.76kg 日本 🌠 🥨 🕞

Housing for recessed mounting in drywall partitions: plastic.

wall partitions: plastic.
Double-sided reversible mounting frame, for covering the wall cut-out or for use as plastered-in flush wall, trim detail: plastic, white (RAL9002) lacquered. Mounting bracket: metal. Clamp extension 8-22mm.
Electronic transformer 230/240/12V.
5-pole terminal block. Through-wiring possible

Cover plate with reflector: plastic, surface-coated silver. Horizontal Softec lens as safety glass.

Housing for mounting in dry-wall

Double-sided reversible mounting

Double-sided reversible mounting frame, for covering the wall cut-out or for use as plastered-in flush wall, trim detail: plastic, white (RAL9002) lacquered. Mounting bracket: metal. Clamp extension 8-22mm. Electronic control gear. 5-pole terminal block. Through-wiring possible. Cover plate with reflector: plastic, surface-coated silver. Horzontal Softeclens as safety plass.

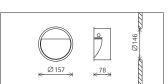
partitions: plastic.

lens as safety glass.

Wall cut-out ø 157mm with flush wall, trim detail.

Use dimmers for electronic transformers

(trailing edge).
Accessories page 828







Floor washlight for metal halide lamps



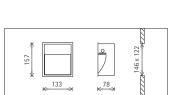
44592.000 Reflector silver ECG

HIT-TC-CE 20W GU6.5 1615lm



Weight 0.82kg LMF C 日本 🌃 🕮 🖭













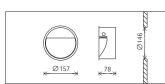
HIT-TC-CE 20W GU6.5 1615lm



Weight 0.76kg LMF C 日本 鑑。 璺 昣



lens as safety glass. Wall cut-out ø 157mm with flush wall, trim detail.

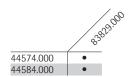






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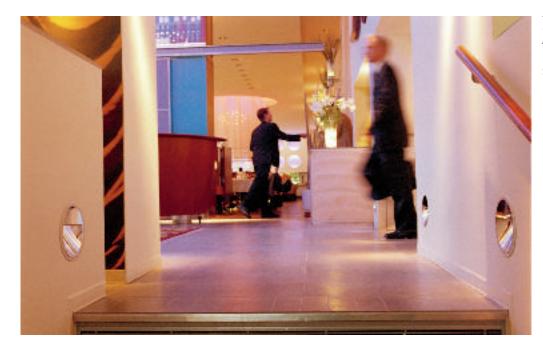
Floor washlights Accessories







83829.000
DALI
DALI dimmer 1000W
for ohmic loads, conventional and electronic transformers.
Mounting on DIN rail.
Weight 0.18kg



Teatteri Ravintola, Helsinki. Architecture and lighting design: Rupert Gardner, Stockholm.

Recessed floor luminaires



Recessed floor luminaires are highly visible for two reasons. They are the only light sources present at ground level and the distinctive upward light beam immediately attracts attention. In this respect they also assume some tasks of directive lighting, e. g. by marking pathways or highlighting entrances. In addition to these rather technical applications, the luminaires can also provide highly effective architectural lighting, whether individual features are dramatically highlighted or to emphasise architectural lines using a row of luminaires.







Nadir IP67

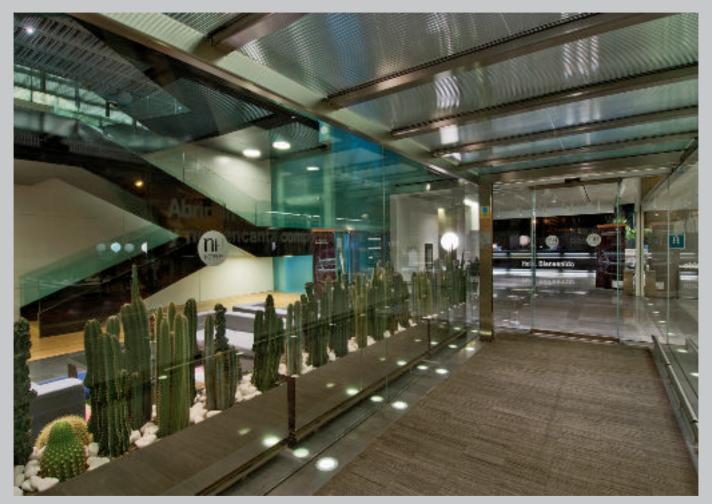


LEDs Low-voltage halogen lamps High-pressure discharge lamps 833 833 833 834 835 834 834

www.erco.com ERCO Program 2010/11

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Nadir IP67 Recessed floor luminaires



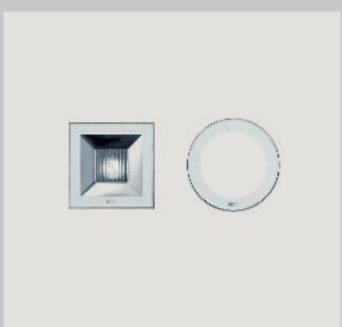
Hotel NH Constanza, Barcelona. Architect: Manuel de Solá-Morales, Barcelona; Lucho Marcial, Rafael Moneo, Madrid.

In interiors and in transition zones between indoors and outdoors, recessed floor luminaires are often chosen to produce grazing light, to create dramatic lighting accents or as directive luminaires. These tasks are ideal for the new Nadir range of recessed floor luminaires with low to medium light levels. Nadir luminaires attract attention not only because these light sources are situated at ground level but also because of their upward beam direction, which makes them particularly noticeable. The selection of round or square housing shapes allows the luminaire's geometry to match the architecture and to take on a variety of lighting tasks. As grazing light, they emphasise wall surfaces and accentuate fine textures. The directional luminaires are suitable for accent lighting of columns, thoroughfares or individual features. In addition to the effective lighting of architecture, the varychrome luminaire is also used for orientation, for marking routes or for the identification of areas using a row of luminaires. Nadir recessed floor luminaires can either be fitted with an overlapping mounting frame or installed flush in the ground.

The compact, cast aluminium luminaire housings are designed to meet the requirements of IP67, a protection mode not usually found indoors, this is for them to withstand dirt and moisture arising, for example, during floor cleaning.

Their design was optimised to allow for shallow recess depths to ensure that Nadir luminaires can easily be integrated into standard floor superstructures without problematic sound bridges. The recessed floor housing allows compensation of dimensional tolerances and floor alignment through the height adjustable frame, this ensures correct installation. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software. Tesis recessed floor luminaires are available in the ERCO Outdoor Lighting Program for the special demands of architectural and landscape lighting in the outdoor environment.

Nadir IP67 Recessed floor luminaires



The Nadir range consists of square and round recessed floor luminaires. The housings are cast aluminium with a no-rinse surface treatment which is followed by a double powder-coating. The luminaire has a high load resistant safety glass. All luminaires are fitted with an electrical connection cable. Nadir recessed floor luminaires meet IP67 protection mode. Recessed housings and mounting frames are available as accessories for all sizes. The recessed housings have height adjustable cover frames to compensate for dimensional tolerances and can be used as flush floor, trim detail or for covering the floor aperture.

Recessed floor luminaires square



LED modules, low-voltage halogen reflector lamps and metal halide lamps in square format are used in sizes 4 and 5 to produce grazing light wallwashers and directional luminaires. The light in the vary-chrome recessed floor luminaire is produced by LED modules.

Application

The three light distribution patterns of Nadir allow different types of application. Grazing light wallwashers with axially symmetrical light distribution, for example, to pro-duce grazing light on areas such as walls and for lettering. Directional luminaires with a narrow beam, rotationally symmetrical light distribution, for uses including dramatic accent lighting of architectural details, identification of special areas or for tiltable illumination of exhibits. Orientation luminaires with diffuse light distribution are ideal for applications including the identification of architectural edges and route directions. They can also be used to identify restricted areas or other information.

Recessed floor luminaires round



LED modules, low-voltage halogen reflector lamps and metal halide lamps in round format are used in sizes 4 and 5 to produce grazing light wallwashers and directional luminaires. The light in the vary-chrome recessed floor luminaire is produced by LED modules.

Application

The three light distribution patterns of Nadir allow different types of application. Grazing light wallwashers with axially symmetrical light distribution, for example, to produce grazing light on areas such as walls and for lettering. Directional luminaires with a narrow beam, rotationally symmetrical light distribution, for uses including dramatic accent lighting of architectural details, identification of special areas or for tiltable illumination of exhibits. Orientation luminaires with diffuse light distribution are ideal for applications including the identification of architectural edges and route directions. They can also be used to identify restricted areas or other information

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Nadir IP67

Nadir grazing light wallwashers produce amazing lighting effects to highlight the texture of surfaces. To achieve the effect of light trailing across the wall, the luminaire needs to be positioned close to the wall. For exact alignment, it can be tilted by up to 30° in the housing and fixed by using the fixing screws. When arranged in a row, the wide beam light distribution along the wall produces a homogeneous grazing light on the wall.





Nadir directional luminaires are used for accent lighting on objects or architectural details. Due to their angle of tilt of up to 30°, they can have flexibility in their alignment. Compared with the grazing light wallwashers, the directional luminaires produce a rotationally symmetrical light distribution. Positioned close to the wall, the beam of light is considerably narrower. The Softec lens in front of the lamp greatly enhances the light quality without compromising the beam angle.





The Nadir varychrome recessed floor luminaire produces points of light used to identify traffic areas, mark out entrances or, mounted in a row, identify architectural lines or pathways. Using the colour change function the luminaire for dynamic route lighting can also be used in buildings.



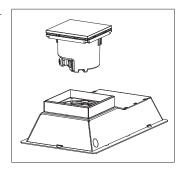




The DALI-compatible luminaires have digital con-trol gear which can address each luminaire indi-vidually – for instance when using the Light Studio software.

The height-adjust- ture. Even mountable frame of the in-ground housing allows a compensation of dimensional tolerances between floor slab and finished floor or for slanting floors. The shallow recess depth from 100mm makes the Nadir suitable for many applications in architec-

ing in floating floor screed with sound insulation straight-forward.





The Nadir recessed floor luminaires can be mounted using a frame to cover the floor



A junction box rated protection mode IP67 is avail-able for the efficient throughwiring of a row of luminaires

aperture or with flush-floor trim detail

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Nadir Recessed floor luminaire Grazing light wallwasher with LED





33812.000 LED daylight white LED 3.6W 135lm 5500K Temperature on the light aperture 30°C

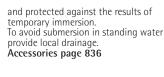


33804.000 LED warm white LED 3.6W 90lm 3500K Version 1 Temperature on the light aperture 30°C

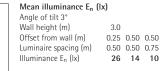


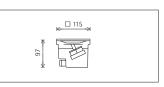
For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treat-ment. Black double powder-coated. Lampholder carrier 0°-25° tilt Electronic control gear. Connection cable, 2x1,5mm², L 500mm. Replaceable LED module. Aperture mask: aluminium, silver, mirror-finish anodised. Sculpture lens. Safety glass: 6mm, clear. Load: 5kN. Mounting accessories to be ordered separately.











□ 115



Mean illuminance E _n	(Ix)		
Angle of tilt 3°			
Wall height (m)	3.0		
Offset from wall (m)	0.25	0.50	0.50
Luminaire spacing (m)	0.50	0.50	0.75
Illuminance E _n (lx)	22	14	10

Nadir Recessed floor luminaire Grazing light wallwasher for low-voltage halogen lamps



33802.000

QR-CBC35 20W 12V GU4 10°

Temperature on the light aperture 63°C



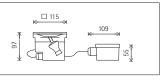
Weight 0.96kg LMF E 日本 🌃 🗆 ♦ ♦ ♦ IP67

For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 500mm. Lampholder carrier 0°-30° tilt

Separate control gear: plastic. Junction box for through-wiring, 2-pole terminal block. Electronic transformer 230/12V. Aperture mask: aluminium, silver, mirror-finish anodised. Sculpture lens. Safety glass: 6mm, clear. Load: 5kN. Mounting accessories to be ordered separately.

Protection mode IP67: dust-proof and protected against the results of temporary immersion. To avoid submersion in standing water

provide local drainage Accessories page 836





Mean illuminance En (Ix) Angle of tilt 3° Wall height (m) 3.0 0.25 0.50 0.50 Offset from wall (m) 0.50 0.50 0.75 Luminaire spacing (m) Illuminance En (Ix) 40

Nadir Recessed floor luminaire Grazing light wallwasher for metal halide lamps





33831.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650lm Temperature on the light aperture 61°C

Weight 1.68kg LMF E 日本 ❸05 ♦ ♦ ♦ IP67

Size 5 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Con-

nection cable, L 500mm. Lampholder carrier 0°-30° tilt Separate control gear: plastic. Junction

box for through-wiring, 3-pole terminal block. Electronic control gear. Spot reflector: aluminium, silver, bright anodised. Anti-dazzle cap: metal. Aperture mask: aluminium, silver, mirror-finish anodised. Sculpture lens Safety glass: 8mm, clear. Load: 5kN.

> Ĥ HIT-TC-CE

Mounting accessories to be ordered separately. Protection mode IP67: dust-proof

and protected against the results of temporary immersion. To avoid submersion in standing water

provide local drainage.

Accessories page 836

Mean illuminance En (Ix)

Angle of tilt 3° Wall height (m)

40 0.25 0.50 0.50 Offset from wall (m) Luminaire spacing (m) 0.50 0.50 0.75

833

□ 155

Nadir Recessed floor luminaire Directional luminaire with LED





33811.000 LED daylight white LED 3.6W 135lm 5500K Version 1 Temperature on the light aperture 30°C

Weight 0.90kg LMF E 日本 🌠05 🗆 ♦ ♦ ♦ IP67

33803.000 LED warm white LED 3.6W 90lm 3500K Version 1 Temperature on the light aperture 30°C Weight 0.90kg LMF E 日本 劉 □ ♦ IP67

For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-25° tilt, 90° rotation. Electronic control gear. Connection cable, 2x1,5mm², L 500mm.
Replaceable LED module. Aperture mask: aluminium, silver, mirror-finish anodised. Softec lens. Safety glass: 6mm, clear. Load: 5kN.

Mounting accessories to be ordered separately.

Protection mode IP67: dust-proof and protected against the results of temporary immersion. To avoid submersion in standing water provide local drainage Accessories page 836



□ 115

□ 115





h(m) E(lx) D(m) 15° 16° 1.32 1.41 5 25 39 1.05 1.12 70 0.79 0.84 158 0.53 0.56 630 0.26 0.28



500 cd	-
150° 150°	- (
	\
XXHHXX	ĺ
120°	_
MVM	_

Protection mode IP67: dust-proof

temporary immersion.

provide local drainage

Accessories page 836

and protected against the results of

To avoid submersion in standing water

h(m)	E(Ix)	D(m)	
		19°	19°
5	15	1.67	1.67
4	23	1.34	1.34
3	41	1.00	1.00
2	92	0.67	0.67
1	369	0.33	0.33

Nadir Recessed floor luminaire Directional luminaire for low-voltage halogen lamps



33801.000

QR-CBC35 20W 12V GU4 10°

Temperature on the light aperture 63°C



Weight 0.96kg LMF E 日本 ❸□ ♦ ♦ ♦ IP67

Size 4 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 500mm. Lampholder carrier, 0°-30° tilt, 90° rotation. Separate control gear: plastic. Junction box for through-wiring, 2-pole terminal block. Electronic transformer 230/12V. Aperture mask: aluminium, silver, mirror-finish anodised. Softec lens. Safety glass: 6mm, clear. Load: 5kN. Mounting accessories to be ordered separately.



OR-CRC35



separately.

E(Ix) D(m) h(m) 19° 21° 45 1.67 1.85 70 1.34 1.48 4 3 125 1.00 1.11 281 0.67 0.74 1124 0.33 0.37

□ 115

Nadir Recessed floor luminaire Directional luminaire for metal halide lamps

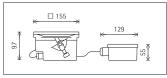




33813.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650lm Temperature on the light aperture 61°C

Weight 1.70kg LMF E 日本 **電**º⁵ ♦ ♦ ♦ IP67

Size 5 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 500mm. Lampholder carrier, 0°-30° tilt, 90° rotation. Separate control gear: plastic. Junction box for through-wiring, 3-pole terminal block. Electronic control gear. Spot reflector: aluminium, silver, bright anodised. Anti-dazzle cap: metal. Aperture mask: aluminium, silver, mirror-finish anodised. Softec lens. Safety glass: 8mm, clear. Load: 5kN.





temporary immersion.	
To avoid submersion in standing	water
provide local drainage.	
Accessories page 836	

Mounting accessories to be ordered

Protection mode IP67: dust-proof

and protected against the results of



7	h(m)	E(Ix)	D(m)	
150°			15°	15°
	5	224	1.32	1.32
\times	4	350	1.05	1.05
$\langle X $	3	622	0.79	0.79
120° 1	2	1400	0.53	0.53
FH	1	5598	0.26	0.26

Nadir Recessed floor luminaire varychrome with LED







33854.000 LED red, green, blue LED 3.3W 24V DC Temperature on the light aperture 39°C



For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.
Black double powder-coated. Connection cable, 4x1,5mm², L 500mm. Replaceable LED module. Safety glass with diffuser, 6mm. Load: 5kN.

The three LED colours red, green and blue are controlled by separate 24V DC control gear (common 24V, floating earth for PWM (Pulse Width Modulation)). Control gear to be ordered separately.

Mounting accessories to be ordered separately.

separately.

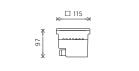
Protection mode IP67: dust-proof
and protected against the results of
temporary immersion.

To avoid submersion in standing water

provide local drainage.

Accessories page 836









33809.000 LED red, green, blue DALI LED 3.3W 24V DC

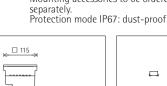
Temperature on the light aperture 39°C





Size 4 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.
Black double powder-coated.
DALI control gear, with plug and play connectivity for ERCO varychrome colour mixing. Connection cable, 4x1.5mm², L 500mm. Replaceable LED module. Safety glass with diffuser, 6mm. Load: 5kN

Mounting accessories to be ordered

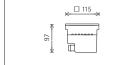




835

and protected against the results of

temporary immersion.





Palau Güell, Barcelona. Architect: Antonio Gaudí, restoration: Antonio González.



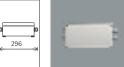
www.erco.com ERCO Program 2010/11

Nadir IP67 Accessories

	83	836.00	831,000	838.00	339.00	852.00 335	819.00	838.00 33 ⁵	33,000	339.00	186.00	81,000	28,000
33801.000				•		•	•			•		•	
33802.000				•		•	•			•		•	
33803.000					•	•	•			•		•	
33804.000					•	•	•			•		•	
33809.000					•	•	•			•		•	
33811.000					•	•	•			•		•	
33812.000					•	•	•			•		•	
33813.000								•	•		•	•	
33831.000								•	•		•	•	
33854.000	•	•	•		•	•	•			•		•	

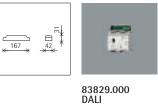














83836,000

Control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum.

Input voltage 230/240V AC, 3x1V-10V

Output voltage 2x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and

water jet-proof. Weight 0.90kg

83837.000 DALI

DALI control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation

luminaires maximum. Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and

water jet-proof. Weight 0.85kg

83838.000 DALI

DALI control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation

8 Axis Walklights or 10 LED orientation luminaires maximum. Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Weight 0.16kg



DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

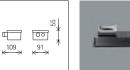


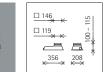
Hotel NH Constanza, Barcelona. Architect: Manuel de Solá-Morales, Barcelona; Lucho Marcial, Rafael Moneo, Madrid.

Nadir IP67 Accessories











33838.000



□ 186 159

□ 162



33829.000



33852.000 Junction box Plastic, black. 2 screwed cable glands for cable diameters of 5-14mm. Protection mode IP67: dust-proof and protected against the results of temporary immersion. Weight 0.10kg





coverings of 2-17mm. Tilt adjustment max. 10° in all directions. Weight 2.95kg

for screed-covered mounting: metal, powder-coated. Height adjustable frame with flush floor, trim detail: stainless steel, for floor coverings of 2-17mm. Tilt adjustment max. 10° in all directions.

Housing for recessed mounting

for screed-covered mounting: metal, powder-coated. Height adjustable frame to cover the floor aperture: stainless steel, for floor coverings of 2-17mm. Tilt adjustment max. 10° in all directions. Weight 4.10kg

Housing for recessed mounting



Housing for recessed mounting

for screed-covered mounting: metal,

trim detail: stainless steel, for floor

max. 10° in all directions.

coverings of 2-17mm. Tilt adjustment

powder-coated. Height adjustable frame with flush floor,

33839.000

Weight 4.05kg





Weight 0.42kg

Weight 3.10kg

33786.000 Mounting frame to cover the floor aperture. Mounting in hollow floor. Corrosion resistant stainless steel. Clamp extension 19-65mm.

□ 146

☐ 119



33787.000 Mounting frame to cover the floor aperture. Mounting in hollow floor. Corrosion resistant stainless steel. Clamp extension 19-65mm. Weight 0.60kg



33799,000 Suction cup for removing the luminaire from the recessed housing, mounting frame or mounting ring. Rubber, black

Nadir Recessed floor luminaire Grazing light wallwasher with LED





33835.000 LED daylight white LED 3.6W 135Im 5500K Temperature on the light aperture 30°C

Temperature on the light aperture 30°C

33834.000 LED warm white

LED 3.6W 90lm 3500K

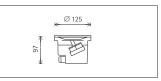
Weight 0.90kg LMF E 日本 Ѿ⁵ 🗆 ♦ IP67

Weight 0.90kg LMF E 日本 🐠 🗆



Size 4 For mounting in accessories. Housing: corrosion-resistant cast Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier 0°-25° tilt Electronic control gear. Connection cable, 2x1,5mm², L 500mm. Replaceable LED module. Aperture mask: aluminium, silver, mirror-finish anodised. Sculpture lens. Safety glass: 6mm, clear. Load: 5kN. Mounting accessories to be ordered separately. Protection mode IP67: dust-proof

and protected against the results of temporary immersion. To avoid submersion in standing water provide local drainage. Accessories page 840





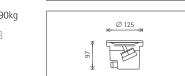
Mean illuminance En (Ix) Angle of tilt 3° Wall height (m) 3.0 0.25 0.50 0.50 Offset from wall (m)

0.50 0.50 0.75

13 25

Luminaire spacing (m)

Illuminance E_n (lx)





Mean illuminance E_n (lx) Angle of tilt 3° Wall height (m) 0.25 0.50 0.50 Offset from wall (m) Luminaire spacing (m) 0.50 0.50 0.75 Illuminance En (Ix) 14

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Nadir Recessed floor luminaire Grazing light wallwasher for low-voltage halogen lamps





33814.000 QR-CBC35 20W 12V GU4 10° Temperature on the light aperture 63°C

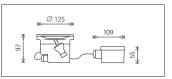
Weight 0.96kg LMF E 日本 ❸□ ♦
♦
♦ IP67

Size 4 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 500mm. Lampholder carrier 0°-30° tilt

Separate control gear: plastic. Junction

Protection mode IP67: dust-proof and protected against the results of temporary immersion. To avoid submersion in standing water provide local drainage Accessories page 840

box for through-wiring, 2-pole terminal block. Electronic transformer 230/12V. Aperture mask: aluminium, silver, mirror-finish anodised. Sculpture lens. Safety glass: 6mm, clear. Load: 5kN Mounting accessories to be ordered separately.





Mean illuminance E_n (lx)

Angle of tilt 3° Wall height (m) Offset from wall (m) 0.25 0.50 0.50 0.50 0.50 0.75 Luminaire spacing (m) Illuminance E_n (Ix) 68 40 29

Nadir Recessed floor luminaire Grazing light wallwasher for metal halide lamps



33824.000 Reflector silver ECG

Temperature on the light aperture 61°C

HIT-TC-CE 20W PGJ5 1650lm



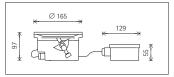
Weight 1.63kg LMF E 日本 **3** ♦ ♦ ♦ № 8 1P67 Size 5 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 500mm. Lampholder carrier 0°-30° tilt Separate control gear: plastic. Junction box for through-wiring, 3-pole terminal block. Electronic control gear. Spot reflector: aluminium, silver, bright anodised. Anti-dazzle cap: metal. Aperture mask: aluminium, silver, mirror-finish anodised. Sculpture lens Safety glass: 8mm, clear. Load: 5kN.

Mounting accessories to be ordered separately.

Protection mode IP67: dust-proof and protected against the results of temporary immersion.

To avoid submersion in standing water provide local drainage

Accessories page 840



Size 4



Mean illuminance En (Ix)

Angle of tilt 3° Wall height (m) Offset from wall (m)

0.25 0.50 0.50 Luminaire spacing (m) 0.50 0.50 0.75 Illuminance E_n (Ix) 160 104 76

Nadir Recessed floor luminaire Directional luminaire with LED





33833.000 LED daylight white LED 3.6W 135lm 5500K Temperature on the light aperture 30°C Weight 0.90kg LMF E 日本 劉 □

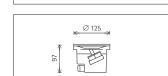
33832.000 LED warm white LED 3.6W 90lm 3500K Temperature on the light aperture 30°C

838

Weight 0.90kg LMF E

日本 🌃 🗆

♦ ♦ IP67



Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-25° tilt, 90° rotation. Electronic control gear. Connection cable, 2x1,5mm², L 500mm.
Replaceable LED module. Aperture mask: aluminium, silver, mirror-finish anodised. Softec lens. Safety glass: 6mm, clear. Load: 5kN. Mounting accessories to be ordered separately.

For mounting in accessories.





Protection mode IP67: dust-proof and protected against the results of temporary immersion. To avoid submersion in standing water provide local drainage Accessories page 840

E(Ix) D(m) h(m) 16° 1.41 39 1.12 3 70 0.84 630 0.28 h(m) E(Ix) D(m) 1.67 4 23 1.34 41 3 1.00 92 0.67 369 0.33

Nadir Recessed floor luminaire Directional luminaire for low-voltage halogen lamps





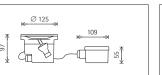
33817.000 QR-CBC35 20W 12V GU4 10° Temperature on the light aperture 63°C

Weight 0.96kg LMF E 日本 **W**⁵ 回

♦ ♦ ♦ IP67

Size 4 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.
Black double powder-coated. Connection cable, L 500mm. Lampholder carrier, 0°-30° tilt, 90° rotation. Separate control gear: plastic. Junction box for through-wiring, 2-pole terminal block. Electronic transformer 230/12V. Aperture mask: aluminium, silver, mirror-finish anodised. Softec lens. Safety glass: 6mm, clear. Load: 5kN. Mounting accessories to be ordered separately.







and protected against the results of temporary immersion. To avoid submersion in standing water provide local drainage Accessories page 840

Protection mode IP67: dust-proof

1500 cd	h(m)	E(Ix)	D(m)
150°			20°
$X \setminus \mathbb{N} \setminus X$	5	45	1.76
	4	70	1.41
XXHHXXI	3	125	1.06
120°	2	281	0.71
AXVXX	1	1124	0.35

Nadir Recessed floor luminaire Directional luminaire for metal halide lamps



33823.000 Reflector silver FCG

HIT-TC-CE 20W PGJ5 1650lm



Weight 1.63kg LMF E Temperature on the light aperture 61°C 日本 **3** ♦ ♦ ♦ IP67

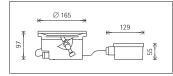
Size 5 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 500mm. Lampholder carrier, 0°-30° tilt, 90° rotation. Separate control gear: plastic. Junction box for through-wiring, 3-pole terminal block. Electronic control gear. Spot reflector: aluminium, silver, bright anodised. Anti-dazzle cap: metal. Aperture mask: aluminium, silver, mirror-finish anodised. Softec lens. Safety glass: 8mm, clear. Load: 5kN.

Mounting accessories to be ordered separately. Protection mode IP67: dust-proof

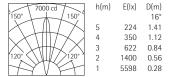
and protected against the results of temporary immersion. To avoid submersion in standing water

provide local drainage



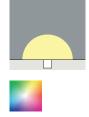






Nadir Recessed floor luminaire varychrome with LED



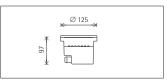


33816.000 LED red, green, blue LED 3.3W 24V DC Temperature on the light aperture 39°C



Size 4 For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, 4x1,5mm², L 500mm. Replaceable LED module. Softec lens. Safety glass with diffuser, 6mm. Load: 5kN

The three LED colours red, green and blue are controlled by separate 24V DC control gear (common 24V, floating earth for PWM (Pulse Width Modulation)). Control gear to be ordered separately.





Mounting accessories to be ordered separately.

Protection mode IP67: dust-proof and protected against the results of

temporary immersion.
To avoid submersion in standing water provide local drainage

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Accessories page 840

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Nadir Recessed floor luminaire varychrome with LED





33818.000 LED red, green, blue DALI LED 3.3W 24V DC Temperature on the light aperture 39°C

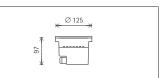
Weight 0.80kg **3** □ ♦ ♦ ♦ IP67

For mounting in accessories. For mounting in accessories. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. DALI control gear, with plug and play connectivity for ERCO varychrome colour mixing. Connection cable, 4x1.5mm², L 500mm. Replaceable LED module. Softec lens. Safety, glass with diffuser, 6mm, Load.

Safety glass with diffuser, 6mm. Load: 5kN. Mounting accessories to be ordered

separately.

Protection mode IP67: dust-proof





and protected against the results of temporary immersion.
To avoid submersion in standing water provide local drainage

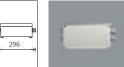
Accessories see below

Nadir IP67 Accessories

	&S	356,000	837,000	838,000	335	852.000 335	335	335	335	33	188.00	33798.00	٥
33814.000				•		•	•			•		•	
33816.000	•	•	•		•	•	•			•		•	
33817.000				•		•	•			•		•	
33818.000					•	•	•			•		•	
33823.000								•	•		•	•	
33824.000								•	•		•	•	
33832.000					•	•	•			•		•	
33833.000					•	•	•			•		•	
33834.000					•	•	•			•		•	
33835.000					•	•	•			•		•	

















83836.000

Control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum.

Input voltage 230/240V AC, 3x1V-10V signal.

Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and

water jet-proof. Weight 0.90kg

83837.000 DALI

DALI control gear

for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum.

Inminares maximum. Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and

water jet-proof. Weight 0.85kg

83838.000 DALI

DALI control gear

for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum.

Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Weight 0.16kg

83829.000 DALI DALI dimmer 1000W

for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

www.erco.com ERCO Program 2010/11

Nadir IP67 Accessories







temporary immersion. Weight 0.10kg

♦ ♦ ♦ IP67





33827.000 Housing for recessed mounting for screed-covered mounting: metal,

powder-coated. Height adjustable frame to cover the floor aperture: stainless steel, for floor coverings of 2-17mm. Tilt adjustment max. 10° in all directions. Weight 3.00kg





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33825.000

¥ 100

Housing for recessed mounting for screed-covered mounting: metal,

powder-coated. Height adjustable frame with flush floor, trim detail: stainless steel, for floor coverings of 2-17mm. Tilt adjustment max. 10° in all directions. Weight 2.90kg





841

33828.000

Housing for recessed mounting for screed-covered mounting: metal,

powder-coated. Height adjustable frame to cover the floor aperture: stainless steel, for floor coverings of 2-17mm. Tilt adjustment max. 10° in all directions. Weight 4.00kg















33826.000

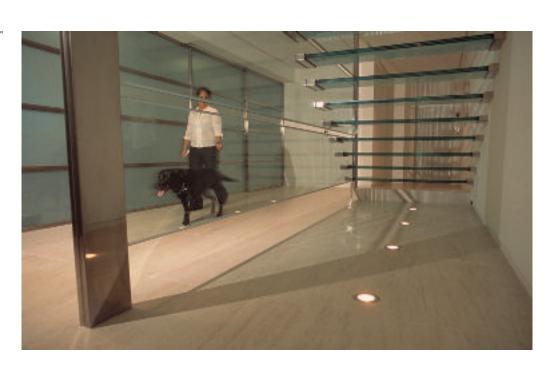
Housing for recessed mounting for screed-covered mounting: metal, powder-coated. Height adjustable frame with flush floor, reight adjustable frame with flush flo trim detail: stainless steel, for floor coverings of 2-17mm. Tilt adjustment max. 10° in all directions. Weight 3.95kg



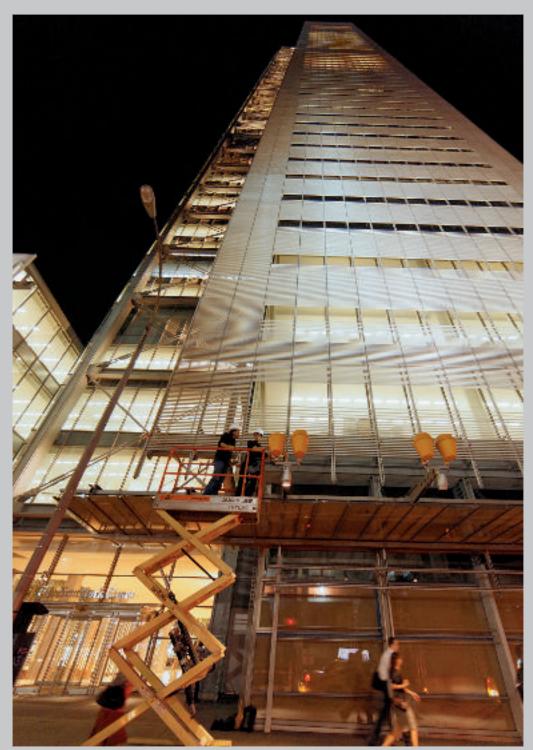
33789,000 Mounting ring to cover the floor aperture. Mounting in hollow floor.
Corrosion resistant stainless steel. Clamp extension 19-65mm. Weight 0.60kg

33799,000 Suction cup for removing the luminaire from the recessed housing, mounting frame or mounting ring. Rubber, black

"Casa en Jardins" private resid-ence, São Paulo. Architect: João Armentano, São Paulo. Lighting design: Rodrigo Jardim



Light in the outdoor area



Architectural lighting in outdoor areas is essentially about dealing directly with the effect of the elements, with nature and also with the social realities of towns and cities. On the one hand, this places a lot of responsibility on lighting designers and manufacturers, but, on the other, it also gives them an opportunity to create symbols and images of exceptional radiance. Whoever tries to design light professionally requires a coherent toolbox of lighting technology rather than decorative products. The ERCO outdoor lighting program provides efficient visual comfort – not only by way of future-proof lamps and control gear but also through optimum and effective lighting technology for a wide variety of applications.

The New York
Times Building,
New York.
Architect: Renzo
Piano Building
Workshop, Genoa/
Paris; FXFowle
Architects P.C.,
New York. Lighting design: OVI
Office for Visual
Interaction, New
York

Grote Markt, Antwerp. Architect: City of Antwerp, Department Public Lighting, Rudy de Bock. Lighting design: Lichtvormgevers Belgie BVB.



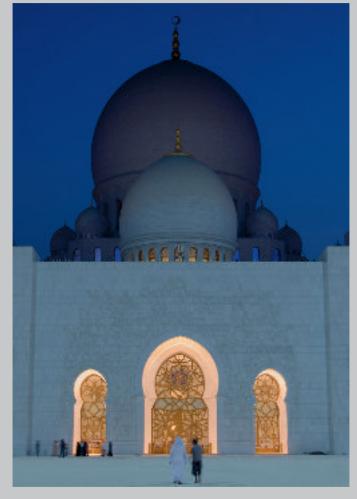
Light in the outdoor area



Indre Kai – harbour front and bridge, Haugesund. Architect: Smedsvig Landskapsarkitekter AS, Bergen. Electrical design engineers: Multiconsult AS, Nesttun; Cowi AS, Haugesund.

Theaterplein, Antwerp. Architect: Studio Bernardo Secchi+Paola Vigano, Milan.







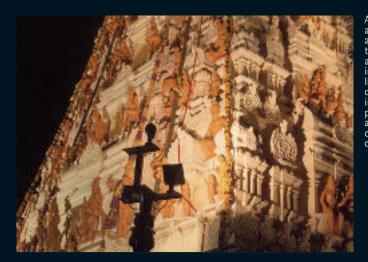
Chicco company headquarters and flagship store, Grandate. Architecture and lighting design: Arch. Paolo Lucchetta Retaildesign Srl, Venice.

843

Sheikh Zayed bin Sultan Al Nahyan Mosque, Abu Dhabi. Architect: Yusef Abdelki (design), Halcrow, Dubai Office (implementation). Interior design: Spatium Architects, Milan. Lighting design: Speirs and Major Associates, Edinburgh.

www.erco.com ERCO Program 2010/11

Projectors and floodlights



Accent lighting with projectors can give a specific emphasis to individual spatial areas or objects in the room. For functional reasons, the extensive range of accessories such as filters and lenses are integrated within the housing. Floodlights with axially symmetrical light distribution are ideal for general lighting, whereas asymmetric floodlights are particularly suited to the even illumination of surfaces. The luminaires' high cut-off angles ensure very good visual comfort.

				,	•		,	•	
Powercast	9	LEDs Low-voltage halogen lamps High-pressure discharge lamps			850 852 853	857 858		858 859	
Grasshopper	4	LEDs Low-voltage halogen lamps High-pressure discharge lamps			865 867 867				
Beamer	9	Low-voltage halogen lamps PAR lamps High-pressure discharge lamps			873 873 874				
Focalflood	Ą	Tungsten halogen lamps High-pressure discharge lamps Fluorescent lamps				888 889 887			
Parscoop	4	Tungsten halogen lamps High-pressure discharge lamps Fluorescent lamps	908	913 914 916			909	920 920 921	

Powercast



Powercast is a universal range of economic lighting tools for outdoor applications. The projectors and floodlights feature cuttingedge technologies including LEDs and Spherolit reflectors for efficient visual comfort. Their system design with a uniform housing shape produces symmetrical light distributions for narrow spot to wide flood accent lighting, but also various wide beam distribution patterns. Powercast is a highly versatile, cost-effective and flexible range of luminaires used, for example, for the illumination of facade details, signs or vegetation.
The rectangular housing with protection mode IP65 encloses the lighting technology and the control gear. With its multilayer powdercoated surfaces, a lockable hinge, a sturdy mounting bracket, and a double cable entry for through-wiring, Powercast distinguishes itself as an efficient lighting tool that proves easy to install and ensures excellent protection against the effects of the weather. For high illuminances, Powercast is available with efficient metal halide lamps. An optional internal anti-dazzle cylinder can be used for additional glare protection in applications where visual comfort is particularly

The Powercast models with lowvoltage halogen lamps are valuable for dimmable lighting. Just as in spotlights with Spherolit reflectors for indoor applications, the Powercast reflectors can also be replaced without tools. So here, too, the light distribution can be changed to suit the application. As a particularly low-maintenance, energy-efficient alternative, Powercast projectors are also available with LED technology in warm white and daylight white light colours. Optimal lighting control is ensured by lens systems consisting of a specially developed collimator and different lenses for spot, flood and wide flood characteristics. The DALI-compatible luminaires for low-voltage halogen lamps have digitally address able control gear which means that each luminaire can be individually controlled - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Fitted with Spherolit reflectors or lenses, the Powercast range provides the right light distribution for a multitude of lighting applications in the outdoor area – from efficient wallwashers to the precise spot version.

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Powercast



Powercast luminaires are suitable for both outdoor and indoor use. The Powercast range comprises projectors and floodlights with Spherolit reflectors in two sizes. The housings are high-quality cast aluminium provided with a special coating, over which a double powder-coating in Graphit m is applied. A lockable joint with scale enables accurate settings of the angle of tilt. The mechanical connection is through the mounting bracket. The housing has a double cable entry for easy through-wiring. An anti-dazzle cylinder can be used with Spherolit reflectors narrow spot and spot to prevent direct glare. For safe mounting outdoors, a ground spike is available.

Projectors



The projectors with LEDs up to 42W are available in warm white and daylight white. The versions for low-voltage halogen lamps up to 100W and metal halide lamps up to 250W are available with Spherolit reflectors narrow spot, spot, flood and wide flood.

Application Very narrow to wide, focused, powerful beam characteristics for applications including highlighting on buildings, lettering or inscriptions, in parks and landscapes, e.g. for lighting trees and objects of

historical interest.

Floodlights



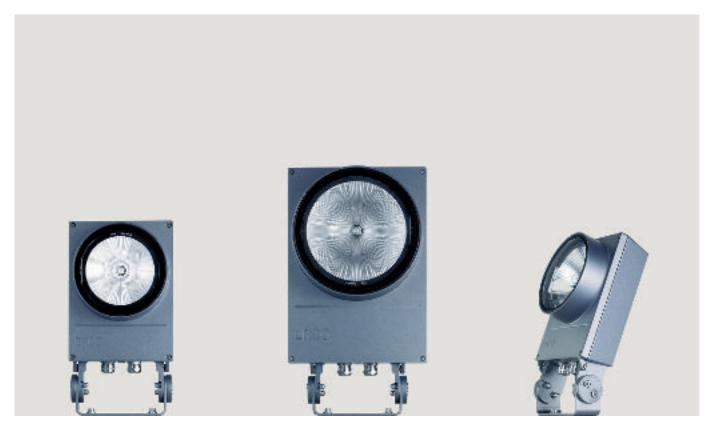
The versions for low-voltage halogen lamps up to 100W and metal halide lamps up to 250W are available with Spherolit reflectors oval flood and washlight. The Spherolit reflector can be rotated through 360° and fixed at 90° positions.

Application

The floodlight is available in two versions. Wide-beam, axially symmetrical light distribution with an oval beam. Applications include the lighting of entrances and facades, object illumination, lettering and incrementations are sent and groups of inscriptions, parks and groups of trees. The Spherolit reflector washlight produces an asymmetrical light distribution, e.g. for ceiling illumination and for the vertical illumination of facades, in arcades or atriums.

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Powercast









The sturdy pivot bracket with scale ensures a large swivelling range and consistent alignment of the luminaires.



Powercast with mounting bracket can be mounted directly on the floor, wall or ceiling. Alternatively, it can also be fixed to existing poles and cantilevers.





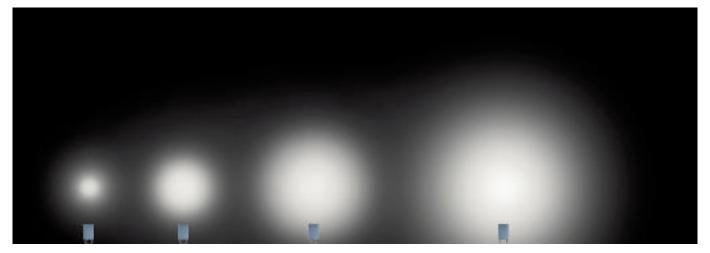








Powercast with Spherolit reflectors





Narrow spot To accentuate smaller objects with high illuminance or to cover considerable distances between luminaire and object. Beam angle < 10°.



Spot
The standard
characteristic to
accentuate all
kinds of objects,
specifically to
model the threedimensional
shape. Beam
angle 10°-20°.

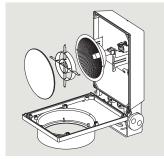


Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.



Wide flood
To provide flexible floodlighting
for surfaces and
areas of a room.
Beam angle > 45°.

Powercast produces a wide range of light distribution patterns for a wide variety of lighting tasks, including accent lighting and floodlighting.



The housing swings open for easy lamp or reflector change. The Spherolit

reflector can be replaced without tools.





Oval flood
To provide floodlighting for surfaces and objects.
The oval-shaped
beam can be
swivelled for vertical or horizontal
light distribution.



To provide a soft gradient, the floodlight with Spherolit reflector oval flood up to 150W is available with a Softec lens as accessory.



For great flexibility in practical applications, the Spherolit reflector oval flood can be rotated through 360° and fixed at 90° positions. Similar to the use of a sculpture lens,



the oval-shaped beam can be aligned for optimal illumination of the object.

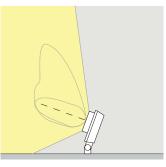




Washlight Wide-beam, asymmetrical light distribution for floodlighting vertical surfaces such as facades, walls or hedges.



Floodlights with Spherolit reflector washlight up to 70W are equipped with a Softec lens.



The Powercast with Spherolit reflector washlight can be tilted for optimal

brightness distribution on vertical surfaces.

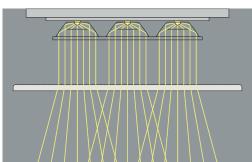


Spot For precise accent light on objects and details, specifically to model the three-dimensional shape. Beam angle 10°-20°.

Flood For efficient accent light on larger objects or for wider spread lighting of areas of a room. Beam angle 25°-35°.

Wide flood To provide flexible floodlighting for surfaces and areas of a room. Beam angle > 45°.





Lighting control
The plastic collimating lens
designed and produced by ERCO
creates a parallel
beam, while a further special lens
produces the precise beam angle
required.



The spot lens system features a Softec lens made of clear glass.



The flood and wide flood lens systems feature a Spherolit lens made of clear plastic.

849







Daylight white Powercast spotlights in daylight white of 5500K ensure superior efficiency with acceptable colour rendition. The light colour is similar to daylight.







Warm white In warm white, Powercast spotlights have a somewhat lower luminous efficacy than in daylight white, but better colour rendition. The light colour of 3200K comes close to the light of halogen lamps.

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Powercast Projector with LED





34243.000 Graphit m LED daylight white LED 28W 2160lm 5500K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Maximum wind load area 0.063m²

Weight 4.50kg LMF E 日本 **您**⁵ **② A A** IP65 Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized, $\pm 90^\circ$ tilt.

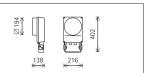
2 electronic control gear units. 2 cable entries and M25 cable glands. Throughwiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Replaceable LED module: high-power LEDs on metal-core PCB.

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 856

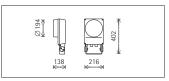




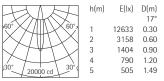
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K/ 74	$HY \setminus J$	3	1742	0.90
		4	980	1.20
30° 2000	00 cd 30° c	5	627	1.49

34242.000 Graphit m LED warm white LED 28W 1740lm 3200K Version 2 Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Maximum wind load area 0.063m²

Weight 4.50kg LMF E 日本 《 IP65

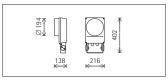






34245.000 Graphit m LED daylight white LED 28W 2160lm 5500K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Maximum wind load area 0.063m²

Weight 4.50kg LMF E 日本 **狐**⁵⁵ **◆ ▲ △** IP65

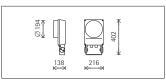




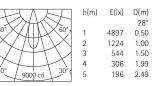
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× /ITI\	2	1520	1.00
7 744 V	3	676	1.50
\sim	4	380	1.99
0° 9000 cd 30° (5	243	2.49

34244.000 Graphit m LED warm white LED 28W 1740lm 3200K Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Maximum wind load area 0.063m²

Weight 4.50kg LMF E 日本 **狐**⁵s **♠ ▲ △** IP65







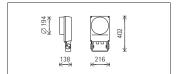
Powercast Projector with LED

34247.000 Graphit m LED daylight white LED 28W 2160lm 5500K

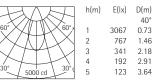
Version 2 Lens system, wide flood: collimating lens, plastic, clear. Spherolit lens, wide

Maximum wind load area 0.063m²

Weight 4.50kg LMF E 日本 ❸5





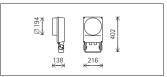


34246.000 Graphit m LED warm white LED 28W 1740lm 3200K Version 2

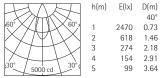
Lens system, wide flood: collimating lens, plastic, clear. Spherolit lens, wide

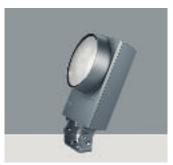
Maximum wind load area 0.063m²

Weight 4.50kg LMF E 日本 ❸○5 ♠ ▲ ▲ IP65











Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

a electronic control gear units. 2 cable entries and M25 cable glands. Throughwiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Replaceable LED module: high-power LEDs on metal-core PCB.

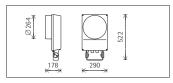
Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.

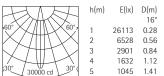
Accessories page 856

34249.000 Graphit m LED daylight white LED 42W 3240Im 5500K Version 2

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Maximum wind load area 0.119m² Weight 8.00kg LMF E 日本 🐠 ♠ ▲ ▲ IP65



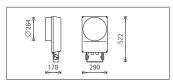




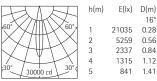
34248.000 Graphit m LED warm white LED 42W 2610lm 3200K

Lens system, spot: collimating lens, plastic, clear. Spherolit lens, spot. Maximum wind load area 0.119m²

Weight 8.00kg LMF E 日本 🚳 ♠ ▲ ▲ IP65



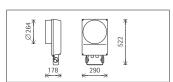




34251.000 Graphit m LED daylight white LED 42W 3240lm 5500K

Version 2 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Maximum wind load area 0.119m²

Weight 8.00kg LMF E 日本 ❸○5 ♠ ▲ ▲ IP65





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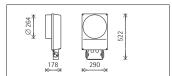
www.erco.com ERCO Program 2010/11

Powercast Projector with LED

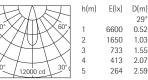
34250.000 Graphit m LED warm white LED 42W 2610lm 3200K Version 2

Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood. Maximum wind load area 0.119m²

Weight 8.00kg LMF E 日本 🚳 ♠ ▲ ▲ IP65





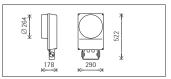


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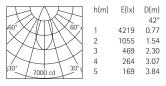
34253.000 Graphit m LED daylight LED 42W 3240lm 5500K Version 2 Lens system, wide flood: collimating lens, plastic, clear. Spherolit lens, wide

Maximum wind load area 0.119m²

Weight 8.00kg LMF E 日本 🐠 ♠ ▲ ▲ IP65



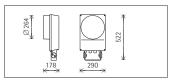




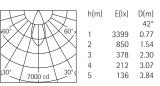
34252.000 Graphit m LED warm white LED 42W 2610lm 3200K Lens system, wide flood: collimating lens, plastic, clear. Spherolit lens, wide

Maximum wind load area 0.119m²

Weight 8.00kg LMF E 日本 🐝 ♠ ▲ ▲ IP65







Powercast Projector for low-voltage halogen lamps





34219.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, narrow spot Maximum wind load area 0.063m²

34218.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Maximum wind load area 0.063m²

Weight 4.60kg LMF E 日本 **◆ ▲ △** IP65

Weight 4.60kg LMF E 日本 ◆ ▲ A IP65 Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized, ±90° tilt.

Electronic transformer 230/240/12V. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block.

Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Reflector replacement without tools:

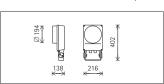
aluminium, silver, mirror-finish anodised.

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Use dimmers for electronic transformers (trailing edge).

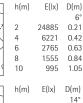
Protection mode IP65: dust-proof and water jet-proof.

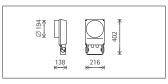
Accessories page 856



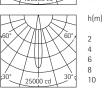










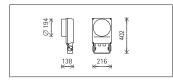


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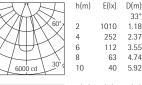
Powercast Projector for low-voltage halogen lamps

34220.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Maximum wind load area 0.063m²

Weight 4.60kg 日本 **◆ ▲ △ I**P65

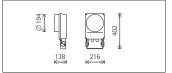




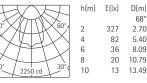


34221.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood Maximum wind load area 0.063m²

Weight 4.60kg 日本 **◆ ▲ △** IP65











DALI PLUG+ PLAY

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

DALI transformer, 230/240/12V, with plug and play connectivity. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Reflector replacement without tools:

aluminium, silver, mirror-finish anod-

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

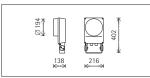
Protection mode IP65: dust-proof and water jet-proof.

Accessories page 856

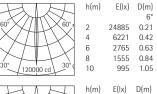




Weight 4.70kg LMF E ♠ ▲ ▲ IP65

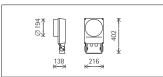






34224.000 Graphit m DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, spot Maximum wind load area 0.063m²

Weight 4.70kg LMF E ♠ ▲ ▲ IP65

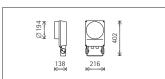




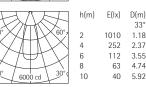


34226.000 Graphit m DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, flood Maximum wind load area 0.063m²

Weight 4.70kg LMF E ♠ ▲ ▲ IP65

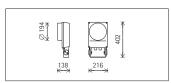




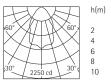


34227.000 Graphit m DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, wide flood Maximum wind load area 0.063m²

Weight 4.70kg LMF E ♠ ▲ ▲ IP65







E(Ix) D(m) 68° 327 2.70 82 5.40 8.09 36 20 10.79 13 13.49

Powercast Projector for metal halide lamps





34203.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, narrow spot Maximum wind load area 0.063m²

Weight 4.65kg LMF E 日本 🚳 ♠ ▲ ▲ IP65

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized, ±90° tilt.

Electronic control gear. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

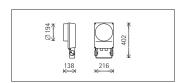
Reflector replacement without tools:

aluminium, silver, mirror-finish anodised.

Fitting the cable glands and mounting bracket to the housing must be carried out on site

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 856







/	h(m)	E(Ix)	D(m) 6°
)°,	2	21455	0.21
\setminus	4	5364	0.42
	6	2384	0.63
7	8	1341	0.84
) (10	858	1.05

Powercast Projector for metal halide lamps

Powercast Projector for	metai naiide ia	amps			
34200.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, spot Maximum wind load area 0.063m ²	Weight 4.65kg LMF E 日本 ⑥	138 K-34	216 84	HIT-TC-CE	h(m) E(lx) D(m) 15° 2 3264 0.53 4 816 1.05 6 363 1.58 8 204 2.11 10 131 2.63
34206.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, flood Maximum wind load area 0.063m ²	Weight 4.65kg LMF E 日本 《	138.8 K—X	216	HIT-TC-CE	h(m) E(lx) D(m) 33° 4500 cd 30° 4500 cd 30° 10 31 500 31 8 4 193 2.37 6 86 3.55 8 48 4.74 10 31 5.92
34209.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, wide flood Maximum wind load area 0.063m ²	Weight 4.65kg LMF E 日本 《 ◆ ▲ ▲ IP65	138 8 138	216 216	HIT-TC-CE	h(m) E(x) D(m) 60° 2 240 2.75 4 600 5.50 6 27 8.25 8 15 11.00 10 10 13.75
			face for reduced ad Mounting bracket: ±90° tilt. Control gear with the ler, timer-ignitor and must be seen the	surface treatment. ated. Optimised sur- ccumulation of dirt. steel, hot galvanized, temperature control- nd capacitor. 2 cable able glands. Through- pole terminal block. over with safety glass: cast aluminium, ated. Hinge open for	aluminium, silver, mirror-finish anodised. Fitting the cable glands and mounting bracket to the housing must be carried out on site. Protection mode IP65: dust-proof and water jet-proof. Accessories page 856
34204.000 Graphit m HIT-CE 35W G12 3300lm Spherolit reflector, narrow spot Maximum wind load area 0.063m ²	Weight 5.40kg LMF E 日本 《 ◆ ① ① IP65	138 138	€ 216 × 216	AA () HIT-CE	60° 2 31088 0.24 4 7772 0.49 6 3454 0.73 8 1943 0.98 30° 150000 cd 30° 10 1244 1.22
34201.000 Graphit m HIT-CE 35W G12 3300Im Spherolit reflector, spot Maximum wind load area 0.063m ²	Weight 5.40kg LMF E 日本 餐 ② ② ② IP65	138 K—3	216	AA () HIT-CE	h(m) E(lx) D(m) 16° 2 5921 0.56 4 1480 1.12 6 658 1.69 8 370 2.25 30° 30000 cd 30° 10 237 2.81
34207.000 Graphit m HIT-CE 35W G12 3300lm Spherolit reflector, flood Maximum wind load area 0.063m ²	Weight 5.40kg LMF E 日本 《 ◆ () () IP65	138 K—3	€ 216 × 216	AA () HIT-CE	h(m) E(lx) D(m) 32° 2 1599 1.15 4 400 2.29 6 178 3.44 8 100 4.59 30° 9000 cd 30° 10 64 5.73
34210.000 Graphit m HIT-CE 35W G12 3300lm Spherolit reflector, wide flood Maximum wind load area 0.063m ²	Weight 5.40kg LMF E 日本 《 ◆ () () IP65	138 K—3	216 216	HIT-CE	60° 2 521 2.45 4 130 4.90 6 58 7.35 8 33 9.80 30° 3500 cd 30° 10 21 12.26
34205.000 Graphit m HIT-CE 70W G12 6600Im Spherolit reflector, narrow spot Maximum wind load area 0.063m ²	Weight 5.80kg LMF E 日本 愛	\$\$ \$\frac{1}{2}\$ \$\frac{1}{2}\$\$	216	AA () HIT-CE	h(m) E(lx) D(m) 7° 2 38871 0.24 4 9718 0.49 6 4319 0.73 8 2429 0.98 30° 180000 cd 30° 10 1555 1.22
34202.000 Graphit m HIT-CE 70W G12 6600Im Spherolit reflector, spot Maximum wind load area 0.063m ²	Weight 5.80kg LMF E 日本 蜒° ◈ ⚠ ⚠ IP65	20 461 Ø 461 Ø	402	<u> </u>	h(m) E(lx) D(m) 17° 2 10621 0.60 4 2655 1.20 6 1180 1.79

Powercast Projector for metal halide lamps D(m) 34208.000 Graphit m Weight 5.80kg h(m) E(Ix) HIT-CE 70W G12 6600lm LMF E 33° 3065 2 1.18 Spherolit reflector, flood 日本 🚳 402 Maximum wind load area 0.063m² 766 2.37 0 8 192 474 138 216 HIT-CE 10 123 5.92 34211.000 Graphit m Weight 5.80kg h(m) E(Ix) D(m) HIT-CE 70W G12 6600lm LMF E 65° Spherolit reflector, wide flood 日本 🐠 989 2.55 402 Maximum wind load area 0.063m² ♠ ♠ ♠ IP65 247 5.10 0 6 7.64 110 62 10.19 138 216 HIT-CE 10 40 12 74 aluminium, silver, mirror-finish anod-Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised sur-Fitting the cable glands and mounting face for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized, bracket to the housing must be carried out on site. Protection mode IP65: dust-proof and Control gear with temperature controller, timer-ignitor and capacitor. 2 cable entries and M25 cable glands. Throughwiring possible. 5-pole terminal block. water jet-proof. Accessories page 856 Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Reflector replacement without tools: Weight 8.80kg LMF E 34231.000 Graphit m h(m) E(Ix) D(m) HIT-CE 150W G12 14000lm 0.24 Spherolit reflector, narrow spot **₹**05 **♠ ▲ ▲** IP65 2 78890 522 19723 0.49 Maximum wind load area 0.119m² 4 6 8766 0.73 178 4931 0.98 HIT-CE 10 3156 1 2 2 34230.000 Graphit m Weight 8.80kg E(Ix) D(m) h(m) HIT-CE 150W G12 14000lm 16° LMF E Spherolit reflector, spot **₹**05 **♠ ▲ ▲** IP65 24662 0.56 522 Maximum wind load area 0.119m² 6165 1.12 6 2740 1.69 8 1541 2 25 178 290 HIT-CE 10 986 2.81 34232.000 Graphit m Weight 8.80kg E(Ix) D(m) h(m) HIT-CE 150W G12 14000lm 33° Spherolit reflector, flood **₹**05 **♠ ▲ △** IP65 2 6477 1 18 522 Maximum wind load area 0.119m² 4 1619 2.37 6 3.55 720 178 405 4.74 HIT-CE 10 259 5.92 34233.000 Graphit m h(m) E(Ix) D(m) Weight 8.80kg HIT-CE 150W G12 14000lm 66° LMF E 2176 Spherolit reflector, wide flood **₹**05 **♠ ▲ ▲** IP65 2 2.60 522 Maximum wind load area 0.119m² 4 544 5.20 6 242 7.79 136 10.39 178 290 HIT-CE 10 87 12.99 34237.000 Graphit m h(m) E(Ix) D(m) Weight 10.00kg HIT-CE 250W G12 23000lm LMF 104082 Spherolit reflector, narrow spot 2 0.28 ♠ ♠ IP65 522 Maximum wind load area 0.119m² 26020 4 0.56 6 11565 0.84 6505 178 HIT-CE 10 4163 1.40 **34236.000** Graphit m E(Ix) D(m) Weight 10.00kg LMF E h(m) HIT-CE 250W G12 23000lm Spherolit reflector, spot 2 38298 0.56 522 Maximum wind load area 0.119m² 9574 1.12 6 4255 1.69 2394 2.25 178 290 HIT-CE 10 1532 2.81 Weight 10.00kg LMF E **34238.000** Graphit m HIT-CE 250W G12 23000lm h(m) E(Ix) D(m) 33°

522

522

HIT-CE

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178

₹05 **♠ ▲ ▲** IP65

Weight 10.00kg LMF E

₹⁶⁵ **♠ ⚠ △ △ △ △ IP65**

Spherolit reflector, flood

34239.000 Graphit m HIT-CE 250W G12 23000lm

www.erco.com

Spherolit reflector, wide flood

Maximum wind load area 0.119m²

Maximum wind load area 0.119m²

2.60

10392 1.18

2598 2.37

1155 3.55 649 4.74

416 5.92

3608

902 5.20

401 7.79

226 10.39

144 12.99

4

6

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h(m) E(lx) D(m)

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ERCO Program 2010/11

Powercast Accessories

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34275.000 34279.000 Spherolit reflector, narrow spot Reflector replacement without tools: aluminium, silver, mirror-finish anodised.



34276.000 34280.000 Spherolit reflector, spot Reflector replacement without tools: aluminium, silver, mirror-finish anodised.



34277.000 34281.000 Spherolit reflector, flood Reflector replacement without tools: aluminium, silver, mirror-finish anodised.



34278.000 34282.000 Spherolit reflector, wide flood Reflector replacement without tools: aluminium, silver, mirror-finish anodised.



34262.000 34263.000 Skintone filter



34264.000 34265.000 Daylight conversion filter



34266.000 34267.000 Colour filter Magenta



34268.000 34269.000 Colour filter Amber

Powercast Accessories



34270.000 34271.000 Colour filter Sky blue



34272.000 34273.000 Colour filter Night blue



34260.000 34261.000 Anti-dazzle cylin-Metal, black.



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm Weight 0.47kg ♦
♦
♦ 3mIP68



33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg



Powercast Floodlight for low-voltage halogen lamps

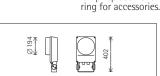


34222.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, oval flood Maximum wind load area 0.063m²



Weight 4.60kg LMF E 日本 **◆ ▲** IP65







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.

Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

Electronic transformer 230/240/12V. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole ter-

Screw-mounted cover with safety glass:

corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Concealed fixing

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized, ±90° tilt.

DALI transformer, 230/240/12V, with plug and play connectivity. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Concealed fixing ring for accessories.

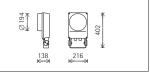
Reflector replacement without tools: aluminium, silver, mirror-finish anodised. 90° rotation.

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Use dimmers for electronic transformers

(trailing edge). Protection mode IP65: dust-proof and water jet-proof.

Accessories page 861



minal block.



L	h(m)	E(Ix)	D(m)	
_			101°	30°
60°,	1	1158	2.43	0.54
$^{\lambda}$	2	289	4.85	1.07
Ų	3	129	7.28	1.61
7	4	72	9.70	2.14
30°	5	46	12.13	2.68

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. 90° rotation.

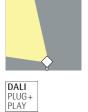
Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 861

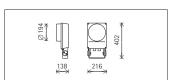


34228.000 Graphit m DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, oval flood Maximum wind load area 0.063m²



Weight 4.70kg LMF E

♠ ▲ ▲ IP65







	h(m)	E(Ix)	D(m)	
			101°	30°
0°,	1	1158	2.43	0.54
\mathcal{N}	2	289	4.85	1.07
Ж	3	129	7.28	1.61
	4	72	9.70	2.14
0° (5	46	12.13	2.68

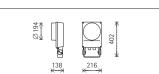
Powercast Floodlight for low-voltage halogen lamps





34223.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, washlight Maximum wind load area 0.063m²





minal block.

lamp replacement.



Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

Housing: corrosion-resistant cast alu-

minium, No-Rinse surface treatment.

Electronic transformer 230/240/12V. 2 cable entries and M25 cable glands.

Through-wiring possible. 5-pole ter-

Reflector replacement without tools:

Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for

Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

DALI transformer, 230/240/12V, with plug and play connectivity. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Reflector replacement without tools:

aluminium, silver, mirror-finish anodised. 360° rotation. Softec lens. Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Use dimmers for electronic transformers

(trailing edge).
Protection mode IP65: dust-proof and

water jet-proof. Accessories page 861



Wall height (m) 2.00 2.50 3.00 3.00 Offset from wall (m)

Luminaire spacing (m) 2.00 2.50 2.00 3.00 Illuminance E_n (Ix) 158 112 121 81

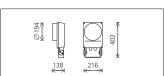


34229.000 Graphit m DALI QT12-ax 100W 12V GY6.35 2200lm Spherolit reflector, washlight Maximum wind load area 0.063m²



DALI PLUG+ PLAY

Weight 4.70kg LMF E ♠ ▲ ▲ IP65





aluminium, silver, mirror-finish anodised. 360° rotation. Softec lens. Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 861

Mean illuminance E_n (Ix)

Wall height (m) 3.0 2.00 2.50 3.00 3.00 2.00 2.50 2.00 3.00 Offset from wall (m) Luminaire spacing (m) 158 112 121 Illuminance E_n (Ix)

Powercast Floodlight for metal halide lamps



34212.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, oval flood Maximum wind load area 0.063m²



Weight 4.65kg LMF E 日本 🐠 ♠ ▲ ▲ IP65

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized, $\pm 90^{\circ}$ tilt.

Electronic control gear. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Concealed fixing ring for accessories.

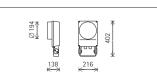
Reflector replacement without tools:

aluminium, silver, mirror-finish anodised. 90° rotation.

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 861







D(m) h(m) E(lx) 103° 33° 2.51 0.59 189 5.03 1.18 84 7.54 1.78 47 10.06 2.37 30 12.57 2.96

Powercast Floodlight for metal halide lamps



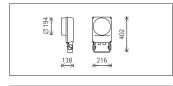


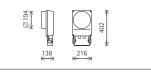
34213.000 Graphit m HIT-CE 35W G12 3300lm Spherolit reflector, oval flood Maximum wind load area 0.063m²

Weight 5.40kg LMF E 日本 🐠 ♠ ▲ ▲ IP65

34214.000 Graphit m HIT-CE 70W G12 6600lm Spherolit reflector, oval flood Maximum wind load area 0.063m²

Weight 5.80kg LMF E 日本 🚳 ♠ ▲ ▲ IP65





HIT-CE Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.

Control gear with temperature controller, timer-ignitor and capacitor. 2 cable entries and M25 cable glands. Throughwiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Concealed fixing ring for accessories.

Mounting bracket: steel, hot galvanized,

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. 90° rotation.

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and

water jet-proof. **Accessories page 861**



Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.

Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

Control gear with temperature controller, timer-ignitor and capacitor. 2 cable entries and M25 cable glands. Throughwiring possible. 5-pole terminal block.

Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Concealed fixing

ring for accessories.

30° 5000 cd 30° 5	5	78	12.35	2.68
	h(m)	E(Ix)	D(m)	
			103°	31°
60°	1	3748	2.51	0.55
	2	937	5.03	1.11
KYYYY	3	416	7.54	1.66
	4	234	10.06	2.22
30° 10000 cd 30°	5	150	12.57	2.77

h(m) E(lx) D(m)

h(m)

E(lx) D(m) 102° 30° 1954 2.47 0.54

4.94 1.07

7.41 1.61

9.88 2.14

488

122

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. 90° rotation.

Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.
Accessories page 861



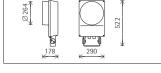
34234.000 Graphit m HIT-CE 150W G12 14000lm Spherolit reflector, oval flood

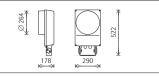
Maximum wind load area 0.119m²





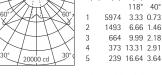


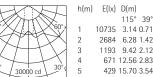










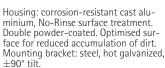




34215.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Spherolit reflector, washlight Maximum wind load area 0.063m²

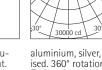


Weight 4.65kg LMF E 日本 🐠 ♠ ▲ ▲ IP65



Electronic control gear. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block.
Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement

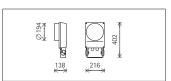
Reflector replacement without tools:



aluminium, silver, mirror-finish anodised. 360° rotation. Softec lens. Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 861





Mean illuminance E _n	(lx)			
Wall height (m)	3.0			
Offset from wall (m)	2.00	2.50	3.00	3.00
Luminaire spacing (m)	2.00	2.50	2.00	3.00
Illuminance E _n (lx)	114	81	88	59

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Powercast Floodlight for metal halide lamps

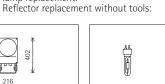




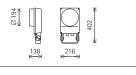
34216.000 Graphit m HIT-CE 35W G12 3300lm Spherolit reflector, washlight Maximum wind load area 0.063m²

Weight 5.40kg 日本 ❸₀₅ ♠ ▲ ▲ IP65

138 216



water jet-proof. Accessories page 861



lamp replacement.



Mean illuminance E_n (Ix) Wall height (m) 2.50 3.00 3.00 4.00 2.00 2.00 3.00 3.00 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (Ix) 177 163 110 90

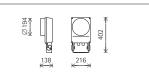
aluminium, silver, mirror-finish anod-

Fitting the cable glands and mounting bracket to the housing must be carried out on site. Protection mode IP65: dust-proof and

ised. 360° rotation. Softec lens.







HIT-CE

Mean illuminance E_n (Ix) Wall height (m) Offset from wall (m) 3.00 4.00 4.00 6.00 2.00 3.00 4.00 4.00 Luminaire spacing (m) Illuminance E_n (Ix) 221 140 105 85





Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

Housing: corrosion-resistant cast alu-

minium, No-Rinse surface treatment.

Double powder-coated. Optimised surface for reduced accumulation of dirt. Mounting bracket: steel, hot galvanized,

Control gear with temperature control-ler, timer-ignitor and capacitor. 2 cable entries and M25 cable glands. Through-wiring possible. 5-pole terminal block.

Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for

Control gear with temperature controller, timer-ignitor and capacitor. 2 cable entries and M25 cable glands. Throughwiring possible. 5-pole terminal block. Screw-mounted cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Concealed fixing ring for accessories.

Reflector replacement without tools: aluminium, silver, mirror-finish anodised. 360° rotation.

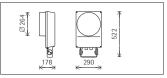
Fitting the cable glands and mounting bracket to the housing must be carried out on site.

Protection mode IP65: dust-proof and water jet-proof.
Accessories page 861







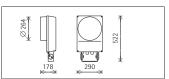




Mean illuminance E_n (lx) Wall height (m) 4.00 6.00 6.00 8.00 4.00 4.00 6.00 6.00 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx) 210 179 120 98



Weight 10.00kg **₹**05 **♠ ⚠ △ △ △ △ IP65**





Mean illuminance E_n (lx) Wall height (m) 6.00 8.00 8.00 10.00 6.00 6.00 8.00 8.00 Offset from wall (m) Luminaire spacing (m) 175 153 115 Illuminance E_n (Ix)



With Spherolit reflector in washlight version, the Powercast floodlights are ideal for vertical illuminance in the outdoor area a key factor in ensuring efficient visual comfort.

Powercast Accessories

	34	183.00 3k	184.00 3K	162.000	763.000 3A	164.000 34°	165.000 3.4°	166.000 3A	161,000 3A	168.00 3A	169.00 3th	10.00	17,000	172.000	273.000 34°	374.000	15,00
34212.000	•		•		•		•		•		•		•		•	•	
34213.000	•		•		•		•		•		•		•		•	•	
34214.000	•		•		•		•		•		•		•		•	•	
34215.000			•		•		•		•		•		•		•	•	
34216.000			•		•		•		•		•		•		•	•	
34217.000			•		•		•		•		•		•		•	•	
34222.000	•		•		•		•		•		•		•		•	•	
34223.000			•		•		•		•		•		•		•	•	
34228.000	•		•		•		•		•		•		•		•	•	
34229.000			•		•		•		•		•		•		•	•	
34234.000		•		•		•		•		•		•		•	•	•	
34235.000		•		•		•		•		•		•		•	•	•	
34240.000															•	•	
34241.000															•	•	



34283.000 34284.000 Softee lens



34262.000 34263.000 Skintone filter



34264.000 34265.000 Daylight conversion filter



34266.000 34267.000 Colour filter Magenta



34268.000 34269.000 Colour filter Amber



34270.000 34271.000 Colour filter Sky blue



34272.000 34273.000 Colour filter Night blue



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ♠ ▲ 3mlP68

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33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg

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Grasshopper



The Grasshopper range of spotlights completes the range of low power rating outdoor projectors. Its design is characterised by the use of compact lamps and the corresponding electronic control gear ensures continuity. With their sturdy, multilayer powder-coated aluminium housing, their lockable hinge and versatile mounting possibilities, these luminaires are suitable for flexible accent lighting of facade details, objects such as company signs or sculptures, plants and trees. Lamp options of different wattages and reflectors of different beam angles allow the Grasshopper spotlights for low-voltage halogen lamps or metal halide lamps to be selected for specific lighting tasks. Their reflectors feature the innovative Selection of the selection of ative Spherolit technology that allows the option of spot, flood or wide-flood characteristics all from

reflectors of the same size.
Alternatively, high-performance
LEDs with a collimating lens system
can be used, either in white or in
varychrome technology for a variable colour of light. The LED varychrome luminaires have a colour
compensation feature to correct
the manufacturing tolerances by
calibrating the LED module. The
result is that the same DALI control
values will give the user exactly
the same colour of light for all
luminaires of a specific type. The
control gear housing is separate
from the light head and provides
optimum operating conditions for

the electronic components. The DALI-compatible luminaires have digital control gear which can address each luminaire individually for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Leonardo Glass Cube, Bad Driburg. Architect: 3deluxe, Wiesbaden. Lighting design: Atelier Schiefer, Leverkusen.

Grasshopper



The Grasshopper projector is suitable for both outdoor and indoor use. The housings are high-quality cast aluminium provided with a special coating, over which a double powder-coating in Graphit m is applied. Over this, a double powder-coating in Graphit m is applied. A graduated lockable pivot bracket enables both rotation and tilt to be adjusted and set. All electric cables are routed internally. The housing is available in cylindrical or square shapes depending on the type of lamp. To ensure safe mounting on the ground, a ground spike is available.

Projectors



The Grasshopper projector is available for low-voltage halogen lamps up to 50W or metal halide lamps up to 35W with Spherolit, spot, flood and wide-flood reflectors. The Grasshopper LED is available in warm white and daylight white versions. The varychrome LED luminaires have a colour compensation feature to correct the LED manufacturing tolerance. The electrical connections and control gear are contained within the housing. In the version with sculpture lens, the 600mm bracket, when wall-mounted, provides an optimum angle of inclination for wall illumination or, if illuminating vegetation, a more elevated luminaire position above plants.

Application

Narrow to wide beam light distribution for uses including accent lighting on buildings or lettering, in parks and landscapes, e.g. to illuminate trees, shrubbery or objects.

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Victorinox Flagship Store, London. Architect: retailpartners AG, Wetzikon (CH). Lighting design: neuco AG, Zurich.



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Grasshopper



LED technology

The maintenance-free Grasshoppers with LEDs are designed for outdoor use in places that are difficult to access. The Grasshopper projectors are ideal for highlighting facade details, sculptures, plants and trees and are available with white LEDs and in DALI-controlled varychrome technology. They have a robust multi-powdercoated IP65 cast aluminium housing and can be accurately adjusted due to their rigid hinges. The control gear housing is separate from the light head and provides optimal operating conditions for the electronic components.





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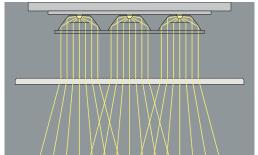
Daylight white Grasshopper



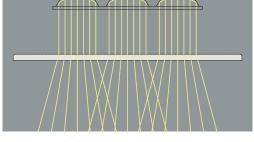




Warm white In warm white, Grasshopper spotlights have a somewhat lower light output ratio than in daylight white, but better colour ren-dition. The light colour of 3200K comes close to the light of halogen lamps.



Lighting control The plastic collimating lens designed and pro-duced by ERCO creates a parallel beam, while a further special lens produces the precise beam angle required.





LED heat management Like other lamps, high-power LEDs generate heat. To prevent the luminous flux and life of the

lamp from decreasing drastically, the maximum junction temperature must not be exceeded even during continuous operation. ERCO places particular importance on heat management in its luminaires to ensure that the LED modules remain below the critical temperature range and operate at full output throughout their lives. Mounting the LED module directly on metal-core PCBs effectively dissipates

the heat to the luminaire housing. The form, design and material of the housing all contribute to effective heat management. Extensive simulations and tests in the development phase ensure the success of the production procedures used.

The DALI-compatible lumi-naires have digital control gear which allows each luminaire to be individually addressed, for example by using the ERCO Light System DALI with integral ERCO Light Studio software.

www.erco.com ERCO Program 2010/11

Grasshopper Projector with LED





34021.000 Graphit m LED daylight LMF E

Weight 2.30kg **₹**05 **♠ ▲ ▲** IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°. Electronic control gear. 2 cable entries.

Through-wiring possible. 3-pole terminal block.

Compact light head with safety glass. Corrosion-resistant cast aluminium, double powder-coated. Improved lamp screening for highest visual comfort.

Replaceable LED module: high-power LEDs on metal-core PCB. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 869

white LED 14W 1080lm 5500K Version 3 Lens system, spot: collimating lens, plastic, clear. Softec lens.

34030.000 Graphit m LED warm white

Weight 2.30kg LMF E

206 124 235 160

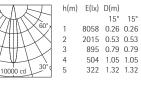
 \bigcirc LED

h(m) E(lx) D(m) 15° 15° 10004 0 26 0 26 2501 0.53 0.53 2 1112 0.79 0.79 625 1.05 1.05 400 1.32 1.32

LED 14W 870lm 3200K Version 3 Lens system, spot: collimating lens, plastic, clear. Softec lens. 124 160

124

 $rac{1}{2}$ LED

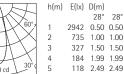


34034.000 Graphit m LED daylight LED 14W 1080lm 5500K Version 3 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 2.30kg **₹**05 **♠ ▲ ▲** IP65

206 93 235 160





34035.000 Graphit m LED warm white LED 14W 870lm 3200K Version 3 Lens system, flood: collimating lens, clear plastic. Spherolit lens, flood.

Weight 2.30kg LMF E **₹**05 **♠ ▲ ▲** IP65 160



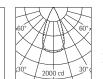


34036.000 Graphit m LED daylight white LED 14W 1080lm 5500K Version 3

Lens system, wide flood: collimating lens, plastic, clear. Spherolit lens, wide

Weight 2.30kg LMF E **₹**05 **♠ ▲ △** IP65

235 160 LED

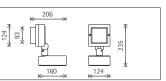


E(Ix) D(m) h(m) 46° 44° 1248 0.85 0.81 2 312 1.70 1.62 3 139 2.55 2.42 78 3.40 3.23 50 4.24 4.04

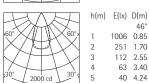
34037.000 Graphit m LED warm white LED 14W 870lm 3200K Version 3

Lens system, wide flood: collimating lens, plastic, clear. Spherolit lens, wide flood.

Weight 2.30kg LMF E **₹**05 **♠ ▲ ▲** IP65







46° 44° 1006 0.85 0.81 251 1.70 1.62 112 2.55 2.42 63 3.40 3.23 40 4.24 4.04





PHIG+

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°.

DALI control gear, with plug and play connectivity. 2 cable entries. Throughwiring possible. 5-pole terminal block. Compact light head with safety glass. Corrosion-resistant cast aluminium. double powder-coated. Improved lamp screening for highest visual comfort.

Replaceable LED module: high-power LEDs on metal-core PCB. Protection mode IP65: dust-proof and water jet-proof. Accessories page 869

34039.000 Graphit m LED daylight white DALI LED 14W 1080lm 5500K Version 3 Lens system, spot: collimating lens, plastic, clear. Softec lens.

Weight 2.30kg LMF E ♠ ▲ ▲ IP65

206 124 235 160

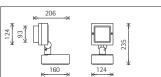




E(lx) D(m) h(m) 15° 15° 10004 0.26 0.26 2 2501 0.53 0.53 3 1112 0.79 0.79 625 1.05 1.05 400 1.32 1.32

34038.000 Graphit m LED warm white LED 14W 870lm 3200K Version 3 Lens system, spot: collimating lens,

Weight 2.30kg LMF E ♠ ♠ ♠ IP65







E(Ix) D(m) h(m) 15° 8058 0.26 0.26 2015 0.53 0.53 2 895 0.79 0.79 3 1.05 504 322 1.32 1.32

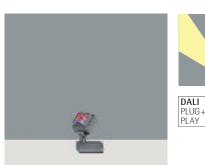
plastic, clear. Softec lens.

Grasshopper Projector with LED

34041.000 Graphit m LED daylight Weight 2.30kg LMF E E(Ix) D(m) 206 white DALI 28° 28° 2942 0.50 0.50 LED 14W 1080lm 5500K ♠ ▲ ▲ IP65 735 1.00 1.00 Version 3 235 327 1.50 1.50 Lens system, flood: collimating lens, plastic, clear. Spherolit lens, flood. 184 1.99 1.99 160 LED 118 2.49 2.49 Weight 2.30kg LMF E E(Ix) D(m) 34040.000 Graphit m LED warm white 206 28° 28° LED 14W 870lm 3200K ♠ ▲ ▲ IP65 2370 0.50 0.50 124 592 1.00 1.00 Version 3 Lens system, flood: collimating lens, 263 1.50 1.50 plastic, clear. Spherolit lens, flood. 148 1.99 1.99 160 LED 95 2.49 2.49 34043.000 Graphit m LED daylight Weight 2.30kg E(lx) D(m)206 46° 44° 1248 0.85 0.81 ♠ ▲ ▲ IP65 white DALI LED 14W 1080lm 5500K 93 Version 3 Lens system, wide flood: collimating 312 1.70 1.62 235 2.55 2.42 lens, plastic, clear. Spherolit lens, wide 78 3.40 3.23 160 50 4.24 4.04 LED 34042.000 Graphit m LED warm white Weight 2.30kg LMF E h(m) E(lx) D(m) 46° 44° LED 14W 870lm 3200K ♠ ▲ ▲ IP65 124 124 1006 0.85 0.81

160

Grasshopper Projector varychrome with LED



34029.000 Graphit m LED red, green,

Colour compensation for precise light

blue DALI

Version 1

colour.

LED 10W 290lm

Version 3 Lens system, wide flood: collimating

lens, plastic, clear. Spherolit lens, wide





Weight 2.30kg LMF E Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°.

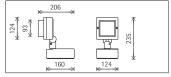
LED

2 cable entries. Through-wiring possible. 5-pole terminal block. DALI control gear, with plug and play connectivity for ERCO varychrome colour mixing. Replaceable LED module: high-power LEDs on metal-core PCB with spot reflector lens system.

Compact light head with Softec lens. Corrosion-resistant cast aluminium, double powder-coated. Improved lamp screening for the optimum visual comfort.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 869







h(m) E(lx) D(m) 15° 15° 2141 0.26 0.26 535 0.53 0.53 238 0.79 0.79 134 1.05 1.05 86 1.32 1.32

251 1.70 1.62 112 2.55 2.42

40 4.24 4.04

63 3.40 3.23

Primary colours LED module				
Colour	Φ (Im)	λ(nm)	S(%)	
Red	105	620-625	99	
Green	138	525-530	77	
Rlue	48	465-470	97	

Grasshopper Projector for low-voltage halogen lamps





corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°. Electronic transformer 230/240/12V.

Housing, hinge and mounting plate:

Electronic transformer 230/240/12V. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver, mirror-finish anodised.

Compact light head with safety glass. Corrosion-resistant cast aluminium,

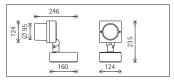
double powder-coated. Improved lamp screening for highest visual comfort. Use dimmers for electronic transformers (trailing edge)

(trailing edge). Protection mode IP65: dust-proof and water jet-proof.

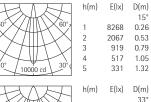
Accessories page 869





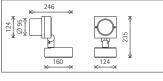




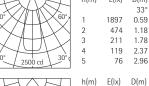


34032.000 Graphit m OT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, flood









46°

244 1.70

D(m)

0.26

0.53

0.79

1.32

0.83

1.66

2.49 3.31

867

55 4.14

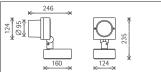
976 0.85

108 2.55 61 3.40

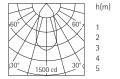
39 424

34033.000 Graphit m QT12-ax-RE 50W 12V GY6.35 1250lm Spherolit reflector, wide flood









Grasshopper Projector for metal halide lamps





Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°.

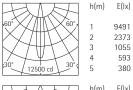
Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver, mirrorfinish anodised.

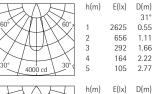
Compact light head with safety glass. Corrosion-resistant cast aluminium, double powder-coated. Improved lamp screening for highest visual comfort. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 869

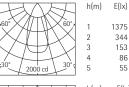
34022.000 Graphit m ECG HIT-TC-CE 20W G8.5 1700lm Spherolit reflector, spot 

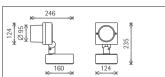


34023.000 Graphit m ECG HIT-TC-CE 20W G8.5 1700lm Spherolit reflector, flood 



34024.000 Graphit m ECG HIT-TC-CE 20W G8.5 1700Im Spherolit reflector, wide flood 



34025.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, spot 

Ä	
HIT-TC-CE	

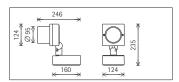
60°, 60°, 30°, 20000 cd 30°,

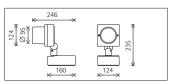
\overline{A}	h(m)	E(Ix)	D(m)
\times 1			16°
×60°	1	16750	0.28
\searrow	2	4187	0.56
	3	1861	0.84
	4	1047	1.12
30,	5	670	1.41

Grasshopper Projector for metal halide lamps

34026.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, flood

34027.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, wide flood Weight 2.30kg LMF E **K**05 👨 ♠ ▲ ▲ IP65



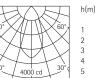




HIT-TC-CE







2.77 E(Ix) D(m) 2878 0.85 720 1.70 320 2.55 180 3.40 115 4.24

Grasshopper Projector with cantilever for metal halide lamps





34028.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Spherolit reflector, spot



Weight 3.55kg LMF E ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with graduations and internal wiring, 80° tilt. Mounting plate rotatable through 360°.

Cantilever: corrosion-resistant aluminium tube.

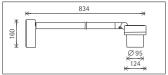
Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver, mirrorfinish anodised. Sculpture lens for

uniform illumination of areas in close proximity.

Compact light head with improved lamp screening for highest visual comfort. Corrosion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 869







h(m) E(lx) D(m) 19° 47° 5287 0.33 0.87 1322 0.67 1.74 587 1.00 2.61 330 1.34 3.48 211 1.67 4.35



District Hall (Paul Wunderlich House), District of Barnim Eberswalde. Architect: GAP mbH, Berlin. Lighting design: Hecht, Rankweil.

Grasshopper Accessories

	34	349,000	31A,000 335	313.000	390,000
34021.000					
34022.000	•	•	•	•	
34023.000		•	•	•	
34024.000		•	•	•	
34025.000	•	•	•	•	
34026.000		•	•	•	
34027.000		•	•	•	
34028.000		•	•	•	
34029.000		•	•	•	
34030.000		•	•	•	
34031.000		•	•	•	
34032.000		•	•	•	
34033.000		•	•	•	
34034.000		•	•	•	
34035.000		•	•	•	
34036.000		•	•	•	
34037.000		•	•	•	
34038.000		•			
34039.000		•	•	•	
34040.000		•	•	•	
34041.000		•	•	•	
34042.000		•	•	•	
34043.000		•	•	•	



34949.000 Sculpture lens



34974.000 34974.000
Distribution box, IP68
With four cable entries, 7-25mm.
Plastic.

Ø 95mm,
L 240mm.
Weight 0.47kg

♦ \$ 3mIP68



300

33973.000 Ground spike Metal, hot-dip galvanised. Cable entry. Weight 0.48kg







34990.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.16kg

Palmengarten (Palm Garden), Frankfurt. Lighting design: Atelier deLuxe, Daniel Zerlang-Rösch, Offenbach.



869



Beamer projectors, together with Focalflood and Parscoop flood-lights, form a group of luminaires suitable for demanding outdoor lighting concepts. Common design elements and mounting components contribute to the coherency of this luminaire group. As the name implies, Beamer projectors – with their narrow-beam, rotationally symmetrical light intensity distribution – produce concentrated beams of light. For example, to illuminate sculptures, buildings or facade details such as inscriptions, but also trees and shrubbery.

talls such as inscriptions, but also trees and shrubbery.
Even over great distances, the segmented reflectors of the Beamer projectors produce an even, soft edged beam of light. The front section is designed as a snoot with integral cross-baffle and ensures optimum anti-glare protection. Various filters and lenses can be fitted inside the housing. Beamers are available in a range of housing sizes with a choice of low-voltage halogen lamps or metal halide lamps giving typical luminous flux values of 950 lumen (QT12 50W/12V) to 35000 lumen (HIT-DE 400W).

Indre Quay, Haugesund. Architect: Smedsvig Landskapsarkitekter AS, Bergen. Electrical engineering: Multiconsult AS, Nesttun; Cowi AS, Haugesund.



Projectors with mounting plates

Beamer projectors are suitable for both outdoor and indoor use. The housings are high-quality cast aluminium provided with a special coating. Over this, a double powder-coating in Graphit m is applied. A graduated lockable pivot bracket enables accurate settings of the angle of tilt. All electric cables are routed internally. Beamers with mounting plates or with mounting brackets are available for a variety of mechanical and electrical connections. A snoot with integral cross-baffle and safety glass ensures that each Beamer has a cut-off angle of up to 50° to prevent spill light. This is also used to contain the extensive range of accessories. These include mounting rings, sculpture lenses, Softec lenses, conversion filters and interference colour filters. Beamers are available in four housing sizes I to IV, to suit the lamp type, power or control gear.

For capsule lamps, silver anodised aluminium spot reflectors are generally used. To suit the lighting task, a choice is offered between low-voltage halogen lamps up to 100W/12V and metal halide lamps up to 400W. The reflector lamps used are PAR38 and PAR56 in spot version. To ensure safe mounting on the ground accessories such as concrete anchors, mounting plates or ground sockets are available.

Beamers with mounting plates are attached directly to the mounting surface, the electrical connections and control gear are integrated within the luminaire.

Application
Narrow focused, powerful beam characteristics for applications including highlighting on buildings, lettering or inscriptions, in parks and landscapes, e. g. lighting trees and objects of historical interest.

Projectors with mounting brackets



Beamers with mounting brackets can only be attached on special mounting accessories. Posts, cantilever arms and adapter sleeves for masts are available for this purpose.

Application
Narrow focused, powerful beam characteristics for applications including highlighting on buildings, lettering or inscriptions, in parks and landscapes, e. g. lighting trees and objects of historical interest.

871

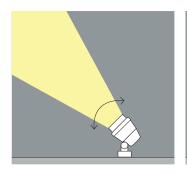
US Air Force Memorial, Arlington VA. Architect: Pei Cobb Freed & Partners, New York. Lighting design: Office for Visual Interaction, Inc. (OVI), Jean M. Sundin, Enrique Peiniger, New York.

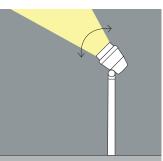


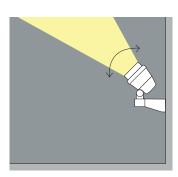
www.erco.com ERCO Program 2010/11



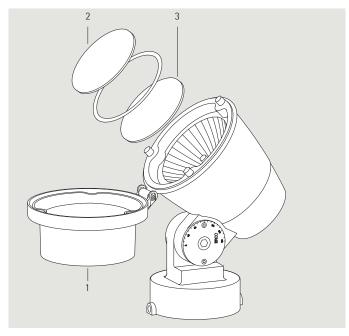
The smoothsurfaced, castaluminium housing is double powder-coated. Its form minimises accumulation of dirt and blends in neutrally with architectural surroundings.



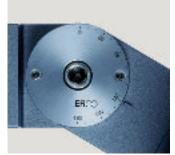




An extensive range of mounting accessories is shared by Beamer, Focalflood and Parscoop. These accessories enable the optimum mounting position in all situations, whether on the building itself or in the grounds.



Characteristic feature of the Beamer projector: front-section designed as snoot with louvre (1); lens and filter (2+3) positioned inside the housing for protection.



The pivot bracket with scale allows accurate alignment.

Beamer I Projector with mounting plate for low-voltage halogen lamps





34000.000 Graphit m QT12-ax-RE 50W 12V GY6.35 1250lm Spot reflector Maximum wind load area 0.03m²



♠ ▲ ▲ IP65

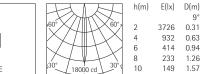
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

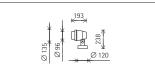
Safety transformer 230/12V. 2 cable entries. Through-wiring possible. 3-pole terminal block. Reflector: aluminium, silver, mirror-

finish anodised.

Screw-fastened snoot with safety glass:

corrosion-resistant cast aluminium. double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light. Protection mode IP65: dust-proof and water jet-proof. Accessories page 876





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Ø 153



Beamer II Projector with mounting plate for low-voltage halogen lamps





34001.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm $\dot{\text{Maximum}}$ wind load area 0.06m^2

Weight 6.90kg 日本 🌑 🕸 🕙 ♠ ▲ ▲ IP65

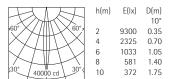
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

Safety transformer 230/12V. 2 cable entries. Through-wiring possible. 3-pole terminal block. Reflector: aluminium, silver, mirror-

finish anodised.

Screw-fastened snoot with safety glass:





corrosion-resistant cast aluminium double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light.
Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 876

Beamer II Projector with mounting plate for PAR lamps





34003.000 Graphit m PAR38 120W 230V E27 12° PAR38 120W 230V E27 30° Maximum wind load area 0.06m²

Weight 5.80kg LMF E 日本 🚳 🕸 🕙 ♠ ▲ ▲ IP65

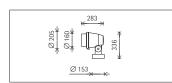
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°. 2 cable entries. Through-wiring possible.

3-pole terminal block.

Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium double powder-coated. Cross-baffle:

metal, black lacquered. Cut-off angle 50°. Without spill light. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 876





PAR38



	h(m)	E(Ix)	D(m)
o°,	2	2193 548	0.42
	6	244 137	1.26
)° (10	88	2.10

h(m) E(Ix) D(m) 1.07 4 183 2.14 3.22 6 81 4.29 10 5.36

Beamer II Projector with mounting plate for metal halide lamps





34004.000 Graphit m HIT-CE 35W G12 3300lm Spot reflector Maximum wind load area 0.06m²

34005.000 Graphit m HIT-CE 70W G12 6600lm Spot reflector Maximum wind load area 0.06m²

Weight 7.00kg LMF E 日本 🏝 🙆 😢 ♠ ▲ ▲ IP65

Weight 7.30kg LMF E 日本 🌑 🅸 🕑 ♠ ▲ ▲ IP65

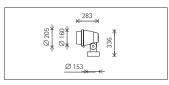
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

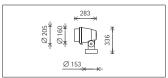
Control gear with temperature controller, timer-ignitor, capacitor. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver, mirrorfinish anodised.

Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light. Protection mode IP65: dust-proof and water jet-proof.

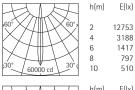
Accessories page 876











$\cup \setminus X \cup $	-		
H	8	797	1.26
0 cd 30° c	10	510	1.57
H	h(m)	E(Ix)	D(m)
\mathbb{M}^{\times}			9°
X 60°	2	19698	0.31
	4	4924	0.63
HV	6	2189	0.94
+	8	1231	1.26
00 cd 30° c	10	788	1.57

E(Ix)D(m)

0.31

0.63 0.94

Beamer III Projector with mounting plate for PAR lamps





34007.000 Graphit m PAR56 300W 230V GX16d 9° 15° PAR56 300W 230V GX16d 16° 40° Maximum wind load area 0.09m²

Weight 9.10kg LMF E 日本 🐠 🕸 🖭 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

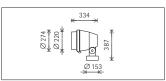
2 cable entries. Through-wiring possible. 3-pole terminal block

Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium double powder-coated. Cross-baffle:

metal, black lacquered. Cut-off angle 50°. Without spill light.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 876





PAR56









h(m)	E(Ix)	D(m)	
		16°	40°
2	1940	0.56	1.46
4	485	1.12	2.91
6	216	1.69	4.37
8	121	2.25	5.82
10	78	2.81	7.28

Beamer III Projector with mounting plate for metal halide lamps





34008.000 Graphit m HIT-CE 150W G12 14000lm Spot reflector Maximum wind load area 0.09m²

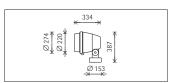
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

2 cable entries. Through-wiring possible. 3-pole terminal block. Control gear with temperature controller, timer-ignitor. Capacitor.

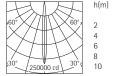
Reflector: aluminium, silver, mirror-finish anodised.

Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light.
Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 876







11(111)	E(IX)	D(III)
		8°
2	53987	0.28
4	13497	0.56
6	5999	0.84
8	3374	1.12
10	2159	1.40

E(ly) D(m)

Beamer IV Projector with mounting plate for metal halide lamps





34009.000 Graphit m HIT-DE 250W Fc2 20000lm Spot reflector Maximum wind load area 0.18m²

34010.000 Graphit m HIT-DE 400W Fc2 35000lm Spot reflector Maximum wind load area 0.18m² Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

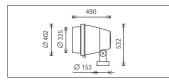
2 cable entries. Through-wiring possible. 3-pole terminal block. Control gear with temperature controller, timer-ignitor. Capacitor.

Reflector: aluminium, silver, mirror-finish anodised.

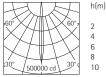
Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light.
Protection mode IP65: dust-proof and

water jet-proof.

Accessories page 876

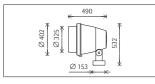








E(Ix) D(m)







1	h(m)	E(Ix)	D(m)
			9°
	2	95966	0.31
	4	23991	0.63
	6	10663	0.94
	8	5998	1.26
	10	3839	1.57

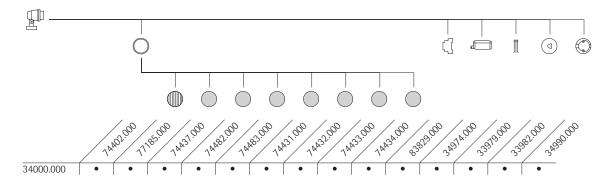
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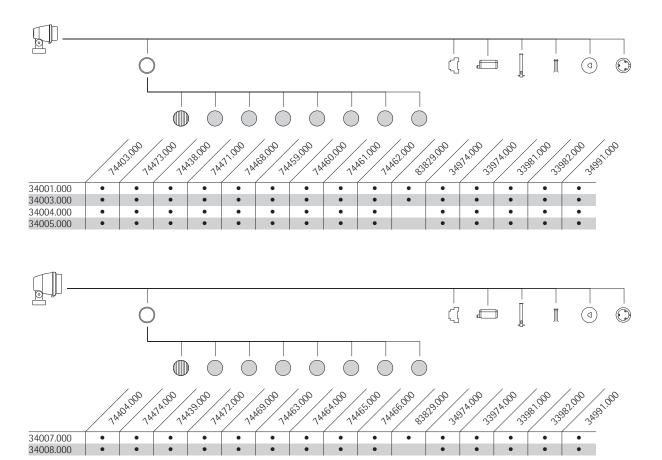
Mosteiro de Alcobaça monastery, Alcobaça.

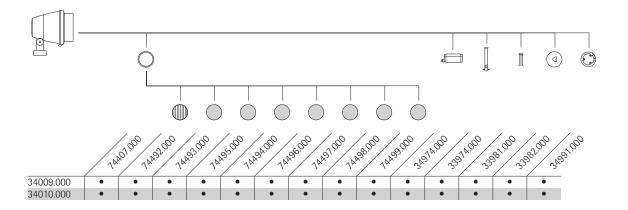


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Beamer Accessories







Beamer Accessories



74473.000 74474.000 74492.000 77185.000 Sculpture lens



74437.000 74438.000 74439.000 74493.000 Softec lens



74471.000 74472.000 74482.000 74495.000 Skintone filter



74468.000 74469.000 74483.000 74494.000 Daylight conversion filter



74431.000 74459.000 74463.000 74496.000 Interference colour filter Magenta



74432.000 74460.000 74464.000 74497.000 Interference colour filter Amber



74433.000 74461.000 74465.000 74498.000 Interference colour filter Sky blue



74434.000 74462.000 74466.000 74499.000 Interference colour filter Night blue



74402.000 Mounting ring for max. 2 filters or lenses. Stainless steel, black powdercoated.



74403.000 Mounting ring for max. 2 filters or lenses. Aluminium, black powder-coated.



74404.000 Mounting ring for max. 2 filters or lenses. Aluminium, black powder-coated.



74407.000 Mounting ring for max. 2 filters or lenses. Aluminium, black powder-coated.



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



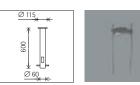
70 58

Ø 124

34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ◆ ▲ ▲ 3mlP68



33974.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 2.30kg



33979.000Concrete anchor
Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site.
Weight 0.25kg



33981.000
Concrete anchor
Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site.
Weight 0.76kg



33982.000Mounting plate
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Graphit m,
double powder-coated.
Weight 1.70kg

877



34990.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.16kg



34991.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.23kg

Beamer I Projector with mounting bracket for low-voltage halogen lamps





34050.000 Graphit m QT12-ax-RE 50W 12V GY6.35 1250lm Spot reflector Maximum wind load area 0.03m²

Weight 2.80kg LMF E 日本 🌑 🕸 🖭 **▲**IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant

Safety transformer 230/12V. Heatresistant cable with plug. Reflector: aluminium, silver, mirror-finish anodised.

Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium,

aluminium.

QT12-ax-RE

double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light. Mounting accessories to be ordered

separately. Accessories page 881

1-1		11(111)	L(I/)	D(III
XXX	$\mathbb{H}(X)$			9
60° X	× 60°	2	3726	0.3
$\sim \sim 11$		4	932	0.6
\sqrt{H}	HV	6	414	0.9
\sim		8	233	1.26
^{30°} / 1800	00 cd / 30°	10	149	1.5

double powder-coated. Cross-baffle:

metal, black lacquered. Cut-off angle

Mounting accessories to be ordered separately.

50°. Without spill light.

Accessories page 881

E(Iv)

Beamer II Projector with mounting bracket for low-voltage halogen lamps



34051.000 Graphit m

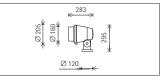


Weight 6.40kg LMF E QT12-ax 100W 12V GY6.35 2200lm Spot reflector Maximum wind load area 0.06m² 日本 🌯 🕸 🕑 **▲**IP44

For mounting on accessories Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium.

Safety transformer 230/12V. Heatresistant cable with plug. Reflector: aluminium, silver, mirrorfinish anodised.

Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium,



193



HAIAH	h(m)	E(Ix)
60°,	2	9300
	4	2325
W7##Y W	6	1033
	8	581
30° 40000 cd 30°	10	372

Mounting accessories to be ordered

Accessories page 881

separately.

\Box	h(m)	E(Ix)	D(m)
			10°
60°,	2	9300	0.35
X	4	2325	0.70
$ \ \ \ \ \ \ \ \ \ \ \ \ \ $	6	1033	1.05
ベー		E01	1 10

1.75

Beamer II Projector with mounting bracket for PAR lamps



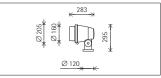


34053.000 Graphit m PAR38 120W 230V E27 12° PAR38 120W 230V E27 30° Maximum wind load area 0.06m²

Weight 5.10kg LMF E 日本 🌑 🕸 🖭 **▲**IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light.







30° 10000 cd 30°

10000 cd	- 1
	h
60° 60°, 30° 4000 cd 30°	2 4 6 8 1

7	h(m)	E(Ix)	D(m)
			12°
7	2	2193	0.42
	4	548	0.84
	6	244	1.26
	8	137	1.68
9	10	88	2.10
7	h(m)	F(ly)	D(m)

30° 1.07 183 2.14 81 3.22 29 5.36

Beamer II Projector with mounting bracket for metal halide lamps





34055.000 Graphit m HIT-CE 35W G12 3300lm Spot reflector Maximum wind load area 0.06m²

Weight 6.50kg LMF E 日本 **《** 企 © **▲** IP44

34058.000 Graphit m HIT-CE 70W G12 6600lm Spot reflector Maximum wind load area 0.06m² Weight 6.80kg LMF E 日本 🐨 🕸 😢 **▲** IP44

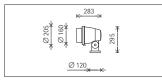
For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium.

Control gear with temperature controller, timer-ignitor, capacitor. Heat-resistant cable with plug. Reflector: aluminium, silver, mirror-

finish anodised.

Screw-fastened snoot with safety glass:

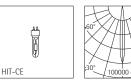
corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light. Mounting accessories to be ordered separately. Accessories page 881

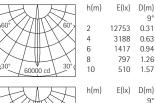


Ø 120









	h(m)	E(Ix)	D(m)
\times			9°
0° × 60°	2	19698	0.31
\sim / \parallel \mid \sim	4	4924	0.63
J 7#14 V	6	2189	0.94
	8	1231	1.26
0° 100000 cd 30° (10	788	1.57

Beamer III Projector with mounting bracket for PAR lamps





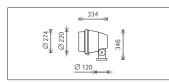
34063.000 Graphit m PAR56 300W 230V GX16d 9° 15° PAR56 300W 230V GX16d 16° 40° Maximum wind load area 0.09m²

Weight 8.20kg LMF E 日本 🐠 🕸 🖭 **▲** IP44

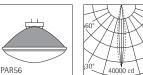
For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Screw-fastened snoot with safety glass: corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light.

Mounting accessories to be ordered separately. Accessories page 881















h(m)	E(Ix)	D(m)	
		16°	40°
2	1940	0.56	1.46
4	485	1.12	2.91
6	216	1.69	4.37
8	121	2.25	5.82
10	78	2.81	7.28

www.erco.com

Beamer III Projector with mounting bracket for metal halide lamps





34065.000 Graphit m HIT-CE 150W G12 14000lm Spot reflector Maximum wind load area 0.09m²

Weight 9.60kg LMF E 日本 🌑 🕸 🖭 **▲**IP44

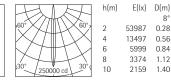
For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium.

Control gear with temperature controller, timer-ignitor, capacitor. Heat-resistant cable with plug. Reflector: aluminium, silver, mirror-

finish anodised.

Screw-fastened snoot with safety glass:

metal, black lacquered. Cut-off angle 50°. Without spill light. Mounting accessories to be ordered Accessories page 881



Screw-fastened snoot with safety glass:

corrosion-resistant cast aluminium, double powder-coated. Cross-baffle: metal, black lacquered. Cut-off angle 50°. Without spill light.

Mounting accessories to be ordered

0.28

0.56

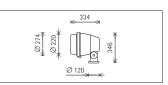
0.84

1.12

1.40

corrosion-resistant cast aluminium,

double powder-coated. Cross-baffle:





Beamer IV Projector with mounting bracket for metal halide lamps





34066.000 Graphit m HIT-DE 250W Fc2 20000lm Spot reflector Maximum wind load area 0.18m²

Weight 18.80kg LMF E

34067.000 Graphit m HIT-DE 400W Fc2 35000lm Spot reflector Maximum wind load area 0.18m² **⋘**⁰ **▲**IP44

Weight 21.10kg 🐠 🕸 🖭 🕭 IP44

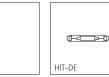
Ø 120

For mounting on accessories Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 130° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Control gear with temperature controller, timerignitor.

Capacitor.

Reflector: aluminium, silver, mirrorfinish anodised.





HIT-DE



separately.

Accessories page 881

104393 0.28 26098 0.56 11599 0.84 6525 1.12 10 4176 1.40 h(m) E(Ix) D(m)

h(m)

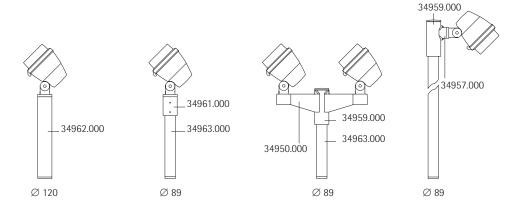
E(lx) D(m)

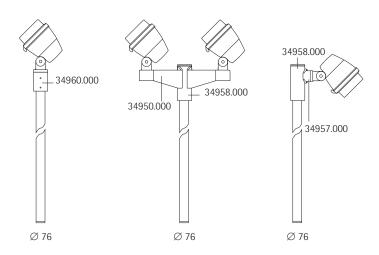


95966 0.31 23991 0.63 10663 0.94 5998 1.26 3839 1.57

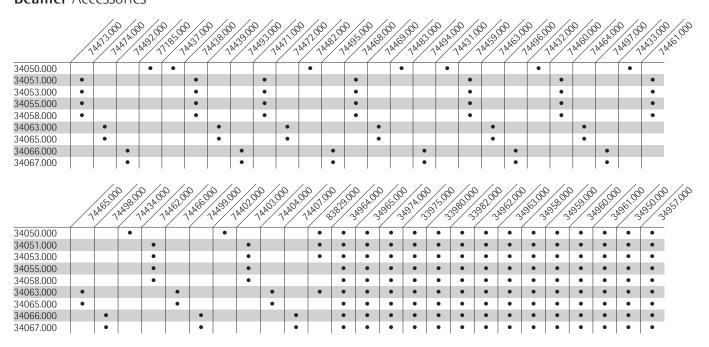


Vin Contoret wine dealers, Tidaholm. Architect: White Artkitekter AB, Gothenburg. Lighting designer: White Design AB Gothenburg, PeO Ottosson Elkon-sult, Jönköping.





Beamer Accessories



Beamer Accessories



74473.000 74474.000 74492.000 77185.000 Sculpture lens



74437.000 74438.000 74439.000 **74493.000** Softee lens



74471.000 74472.000 74482.000 **74495.000** Skintone filter



74468.000 74469.000 74483.000 74483.000 74494.000 Daylight conversion filter



74431.000 74459.000 74463.000 74496.000 Interference colour filter Magenta



74432.000 74460.000 74464.000 74497.000 Interference colour filter Amber

70



74433.000 74461.000 74465.000 74498.000 Interference colour filter Sky blue



74434.000 74462.000 74466.000 74499.000 Interference colour filter Night blue

65

1

65 K



74402.000 Mounting ring for max. 2 filters or lenses. Stainless steel, black powder-coated.



74403.000 Mounting ring for max. 2 filters or lenses. Aluminium, black powder-coated.



74404.000 Mounting ring for max. 2 filters or lenses. Aluminium, black powder-coated.



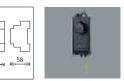
74407.000 Mounting ring for max. 2 filters or lenses. Aluminium, black powder-coated.



Ø 83

502

83829.000 DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34964.000 Cable junction box Plastic, black. Terminal block 2 of 5x2.5mm². 1 fuse D01 E14 10A. Weight 0.25kg

Ø 124



882

34965.000 Cable junction box Plastic, grey.
Terminal block 2 of 5x6mm². 1 fuse D01 E14 10A. Weight 0.55kg



34974.000 Distribution box, With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm. Weight 0.47kg ♦ ♦ ♦ 3mIP68



33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg





Beamer Accessories





33982.000 Mounting plate Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 1.70kg



34962.000 Post Metal, hot-dip galvanised. Graphit m, double powder-coated. Mounting plate: metal. 5-pole terminal block for cable 5x2.5mm². Through-wiring possible. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire. Weight 5.60kg



Ø 120

34963.000 for adapter sleeves. Metal, hot-dip galvanised. Graphit m, double powder-coated. Mounting plate: metal. 5-pole terminal block for cable 5x2.5mm². Through-wiring possible. IP44 protection mode when used with relevant accessories. Not for concrete anchor 33980.000 and mounting plate 33982.000. Weight 1.50kg



Ø 89

Ø 120



34958.000 Adapter sleeve for poles ø 76mm and cantilever arms. Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powdercoated. Screw fixing. Terminal block 5x2,5mm². Throughwiring possible. 2 cable entries for cantilever arms.

Protection mode IP44 only with accessories.
Cantilever arms to be ordered separ-

Poles ø 76mm to be ordered separately. Weight 3.80kg



34959.000

Adapter sleeve

for posts ø 89mm and cantilever arms.

Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface

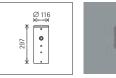
cast auminium, No-kinse surface treatment. Graphit m, double powder-coated. Screw fixing.

Terminal block 5x2,5mm². Through-wiring possible. 2 cable entries for cantilever arms.

Protection mode IP44 only with ac-

cessories. Posts ø 89mm and cantilever arms to be

















883

34950.000 Cantilever arm For mounting on adapter sleeve or wall. For standing luminaire installation. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Inspection cover: corrosion-resistant aluminium, double powder-coated in graphit m. 1 cable entry. 3-pole terminal block for

control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire. Weight 3.55kg



ordered separately.

Weight 3.20kg



34957.000 Side-mounted sleeve For mounting on adapter sleeve. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. 1 cable entry. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP65 only with moun-Weight 0.90kg

www.erco.com ERCO Program 2010/11

Focalflood



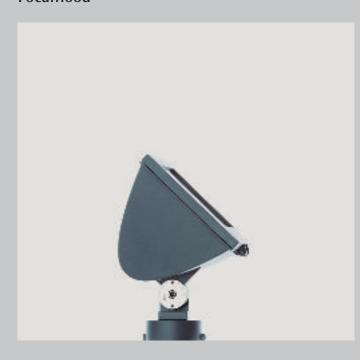
Transparent architecture and increasingly less scope in the choice of mounting locations due to ever decreasing available space in many cities mean that factors such as visual comfort and limitation of glare are important criteria when selecting outdoor luminaires. The Focalflood produces a wide light distribution along one axis, with the focal point on the other. In contrast to conventional wide beam floodlights, their highly focused light distribution at right angles to the lamp axis allows the luminaire to be placed closer to objects. They are therefore particularly suitable for efficient lighting of façade surfaces as well as trees. At the same time, Focalflood also offers exceptionally high visual comfort with a cut-off angle of up to 50°; passers-by, traffic users and people inside the building all benefit from Focalflood's all-round glare control. This results from the special design of the reflector contour and reflector surfaces. As a special feature, the version of the Focalflood for T16 fluorescent lamps is also available with Varychrome technology with electronic control for an extensive range of light colours.

With their double powder-

With their double powdercoated, IP65 cast aluminium housings, these floodlights have longterm resistance to outdoor conditions. The smooth-surfaced design reduces dirt accumulation. Focalflood floodlights use the same versatile mounting accessories as the Beamer projectors and Parscoop washlights. They can therefore be easily combined for ambitious lighting concepts. The DALI-compatible luminaires have digital control gear through which each luminaire can be individually addressed - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

MUDAM Musée d'Art Moderne, Luxembourg. Architect: Pei Cobb Freed & Partners, New York. Lighting design: ARUP, London; Fisher Marantz Stone, New York; Projekt Licht - Andreas Thiel, Saarbrücken.

Focalflood



Focalflood floodlights are suitable for both outdoor and indoor use. The housings are high-quality cast aluminium provided with a special coating. Over this, a double powder-coating in Graphit m is applied. A graduated lockable pivot bracket enables accurate settings of the angle of tilt. All electric cables are routed internally. Focalflood with mounting plates or with mounting brackets are available for the mechanical and electrical connections.

All Focalflood luminaires are fitted with flood reflectors which produce a central focus. In contrast to all conventional floodlights and projectors, a focused narrow beam area is created on the main axis of the beam. This type of light distribution allows the luminaires to be placed close to the surfaces or facades to be illuminated. The sides of the lamp are shielded by mirror-finish, anodised side reflectors which appear to be almost black. By using controlled luminance levels these provide the highest level of visual comfort.

Accessories in the form of conversion filters and colour filters are fitted using mounting frames.

Focalflood I to IV are available in four housing sizes, to suit the lamp design, power or control gear. To suit the lighting task, a choice is offered between doubleended tungsten halogen lamps up to 1000W, metal halide lamps up to 400W and compact fluorescent lamps up to 42W. To ensure safe mounting on the ground accessories such as concrete anchors, mounting plates or ground sockets are available. The product range also includes the option of using floodlights for T16 fluorescent lamps up to 54W. Due to their overall length, they have a rectangular mounting plate and can therefore only be tilted.

Floodlights, varychrome



Focalflood floodlights are designed for three coloured T16 fluorescent lamps of 28W. The electronic control gear is contained within the luminaire itself. Individual colour mixing is achieved by specifically controlling each fluorescent lamp. The uniformity of the actual colour mixture results from the combination of reflectors, diffusers and Softec lenses.

Application
Wide-beam light distribution, with
a great variety of light colours to
create coloured designs on sur-

Floodlights with mounting plates



Focalflood with mounting plates are attached directly to the mounting surface, the electrical connections and control gear are contained within the luminaire.

Application
Wide-beam, axially symmetrical
light distribution with a focal point.
Applications include wall lighting, e.g. of entrances and facades,

ing, e.g. of entrances and facades, object illumination, lettering and inscriptions, paths, parks and landscapes, e.g. groups of trees, hedges and broad trees.

Floodlights with mounting brackets



Focalflood with mounting brackets are only to be attached with special mounting accessories. For this reason, posts, cantilever arms and adapter sleeves for poles are available.

Application

Wide-beam, axially symmetrical light distribution with a focal point. Applications include wall lighting, e.g. of entrances and facades, object illumination, lettering and inscriptions, paths, parks and land-scapes, e.g. groups of trees, hedges and broad trees.

885

www.erco.com ERCO Program 2010/11

Focalflood



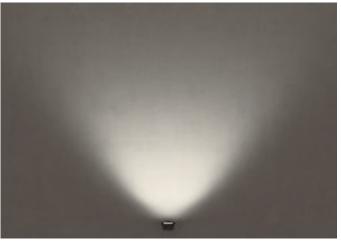
The Focalflood floodlights are suitable for use in the outdoor environment, both for the efficient lighting of façade surfaces and also for vegetation. In indoor areas such as swimming pools, they provide protection against moisture and even dust in harsh environmental conditions. At the same time, Focalflood also offers high visual comfort with a cut-off angle of 50° on both major axes.





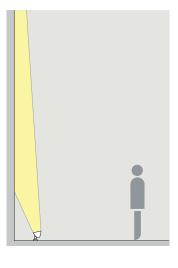


An extensive range of mounting accessories is shared by Beamer, Focalflood and Parscoop. These accessories always enable the optimum mounting position, whether on the building itself or in the ground.



The floodlight versions of Focalflood produce a wide light distribution on the x-axis with the point of

focal emphasis on the y-axis. With a focused narrow beam at right angles to the lamp axis, the luminaires can be placed closer to objects than conventional wide beam floodlights.



In situations where little space is available between luminaire and facade, the Focalflood floodlight efficiently illuminates the façade with grazing light. The

light distribution on the other axis provides economical lighting to produce the appearance of uniform brightness across the width of the façade.

Additive colour mixing enables the light from the Focalflood Varychrome luminaires to produce a multitude of colour nuances. The individually controllable fluorescent lamps in the primary colours red, green and blue produce a smoothly changing, coloured light for illuminating wall surfaces or facades.

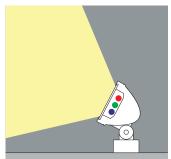


The DALI-compatible luminaires feature digitally addressable control gear with which every single luminaire can be individually

controlled - i.e.

using the ERCO Light System DALI and the pre-programmed ERCO Light Studio software.







A diffuser and a Softec lens guarantee the optimum mixture of the three primary colours at the front lens; this permits the controlled colour of light to appear absolutely uniformly on the illuminated surface. To facilitate lamp replace-

ment, the twopart front frame can be simply hinged open. The dusttight and jet-water proof housing with IP65 protection mode is made of aluminium and features a multiple powdercoated finish.

Focalflood Floodlight varychrome for fluorescent lamps





PLUG+

Three electronic control gear units for ERCO varychrome colour mixing. DALI version offers plug and play connectivity. Two cable entries. Through-wiring

aluminium. Hinge with internal wiring, 130° tilt.

Housing: corrosion-resistant aluminium

profile, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinges, graduated disc and mounting plate: corrosion-resistant

Reflector: aluminium, silver anodised,

mirror-finish. Diffuser and Softec lens

for uniform colour mixing. Screw-fastened cover with safety glass: corrosion-resistant aluminium profile, double powder-coated. Hinge open for lamp replacement.

Reduction of luminous flux below 0°C. Protection mode IP65: dust-proof and water iet-proof.

Accessories see below



34118.000 Graphit m ECG 1-10V

T16 28W G5 3500lm green 7-pole terminal block for mains and

Maximum wind load area 0.2m²

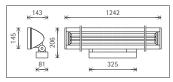
T16 28W G5 700lm blue T16 28W G5 2100lm red

control line.

Weight 11.00kg LMF E **%** 60 € ♠ ▲ ▲ IP65

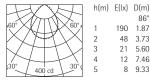
% 60 €

♠ ▲ ▲ IP65

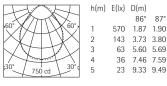


1242









190

48

12 7.46 7 59

8

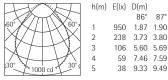
187 190

3.73 3.80

9.33 9.49

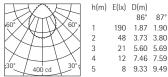
5.60



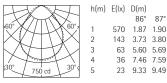










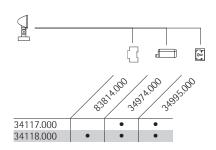






h(m) E(Ix) D(m) 86° 87° 950 187 190 238 3.73 3.80 2 3 106 5.60 5.69 7.46 7.59 38 9.33 9.49

Focalflood Accessories





DALI analogue converter 230V \pm 10%,

5A For connection of luminaires with ECG

1–10V to Light System DALI. Conversion of a DALI signal into a

Internal relay for inductive loads of

83814.000

1-10V signal.

Mounting on DIN rail. Weight 0.22kg



34974.000 Distribution box, With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm Weight 0.47kg





34995.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.25kg

Focalflood Floodlight with mounting plate for fluorescent lamps





PLUG+

Housing: corrosion-resistant aluminium profile, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinges, graduated disc and mounting plate: corrosion-resistant aluminium. Hinge with internal wiring, 130° tilt.

Electronic control gear, plug and play connectivity with DALI version. 2 cable entries. Through-wiring possible. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-off angle 50° (CO). Without spill light. Screw-fastened cover with safety glass: corrosion-resistant aluminium profile, double powder-coated. Hinge open for lamp replacement.

Reduction of luminous flux below 0°C.

Protection mode IP65: dust-proof and water jet-proof. Accessories page 893

34119.000 Graphit m ECG DALI T16 28W G5 2600lm T16 54W G5 4450lm Flood reflector 5-pole terminal block. Maximum wind load area 0.2m2

34115.000 Graphit m ECG

34116.000 Graphit m ECG

Maximum wind load area 0.2m²

Maximum wind load area 0.2m²

T16 28W G5 2600lm

3-pole terminal block.

T16 54W G5 4450lm

3-pole terminal block.

Flood reflector

Flood reflector

Weight 10.10kg LMF E

Weight 10.10kg

LMF E

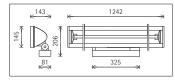
日本 優⁵ №

♠ ▲ ▲ IP65

Weight 10.10kg LMF E

日本 🌃 🍽

♠ ▲ ▲ IP65







h(m) E(lx) D(m)44° 103° 1444 0.81 2.51 361 1.62 5.03 160 2.42 90 3.23 10.06 58 4.04 12.57



h(m) E(lx) D(m) 44° 103° 2472 0.81 2.51 618 1.62 5.03 275 2.42 7.54 154 3.23 10.06 99 4 04 12 57

T16



h(m) E(lx) D(m) 44° 103° 1444 0.81 2.51 361 1.62 5.03 160 2.42 90 3.23 10.06

81 325 143 1242

1242

325

143



T16



E(lx) D(m) h(m) 44° 103° 2472 0.81 2.51 618 1.62 5.03 275 2.42 7.54 154 3.23 10.06 99 4.04 12.57

58 4.04 12.57

Focalflood I Floodlight with mounting plate for tungsten halogen lamps





34100.000 Graphit m QT-DE12-RE 120W 230V R7s L75mm Flood reflector Maximum wind load area 0.04m²

Weight 2.40kg LMF E 日本 🐒 🕸 🖭 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

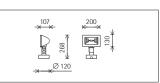
2 cable entries. Through-wiring possible. 3-pole terminal block

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to

increase the visual comfort along the lamp axis, mirror-finish anodised. Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 893







h(m) E(lx) D(m) 53° 1129 1.00 1.93 282 1.99 3.86 125 2.99 5.79 3.99 7.73 45 4.99 9.66

Focalflood I Floodlight with mounting plate for compact fluorescent lamps





34101.000 Graphit m ECG TC-DEL 10W G24q-1 600lm Flood reflector Maximum wind load area 0.04m²

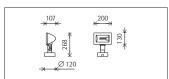
Weight 2.50kg LMF E 日本 鑑 @ ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

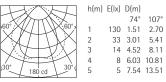
Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.
Protection mode IP65: dust-proof and

water jet-proof. **Accessories page 893**







Focalflood II Floodlight with mounting plate for tungsten halogen lamps



QT-DE12-RE 230W 230V R7s L114mm

Maximum wind load area 0.07m²

5000lm

Flood reflector



Weight 4.35kg 日本 🌑 🕸 🕙 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

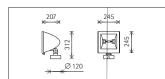
2 cable entries. Through-wiring possible. -pole terminal block

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light.

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for

lamp replacement.
Protection mode IP65: dust-proof and water jet-proof.

Accessories page 893







E(Ix) D(m) h(m) 3677 0.55 1.40 919 1.11 2.80 409 1.66 4.20 230 2.22 5.60 147 2.77 7.00

Focalflood II Floodlight with mounting plate for metal halide lamps





34103.000 Graphit m ECG HIT-CE 35W G12 3500lm Flood reflector Electronic control gear. Maximum wind load area 0.07m²

Weight 4.85kg LMF E 日本 🚳 🕸 🕙 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable

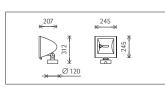
through 240°.
2 cable entries. Through-wiring possible. 3-pole terminal block.

Flood reflector with focal emphasis in beam direction: aluminium, silver. bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light.

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium double powder-coated. Hinge open for

lamp replacement.
Protection mode IP65: dust-proof and

water jet-proof. **Accessories page 893**





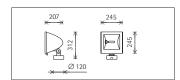
60° X / / \ X 60°
$1\times$ ///
Y XIIIX
1
30° / 3500 cd \ 30°
J 3300 Cu

	h(m)	E(Ix)	D(m)	
			22°	71°
)°,	1	2877	0.39	1.43
\setminus	2	719	0.78	2.85
$\overline{}$	3	320	1.17	4.28
	4	180	1.56	5.71
)°(5	115	1.94	7.13

889

www.erco.com ERCO Program 2010/11

Focalflood II Floodlight with mounting plate for metal halide lamps

34104.000 Graphit m HIT-CE 35W G12 3300lm Flood reflector Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.07m² 





 h(m)
 E(lx)
 D(m)

 22°
 71°

 1
 2713
 0.39
 1.43

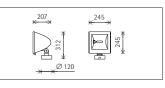
 2
 678
 0.78
 2.85

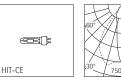
 3
 301
 1.17
 4.28

 4
 170
 1.56
 5.71

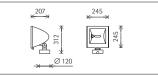
 5
 109
 1.94
 7.13

34105.000 Graphit m ECG HIT-CE 70W G12 7300lm Flood reflector Electronic control gear. Maximum wind load area 0.07m²







34106.000 Graphit m HIT-CE 70W G12 6600lm Flood reflector Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.07m² 





Focalflood II Floodlight with mounting plate for compact fluorescent lamps





34107.000 Graphit m ECG TC-TEL 26W GX24q-3 1800lm Flood reflector Maximum wind load area 0.07m²

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light. Screw-fastened cover with safety glass:

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement

lamp replacement. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 893

207 × 245 ×





h(m) E(lx) D(m) 73° 75° 1 711 1.48 1.53 2 178 2.96 3.07 3 79 4.44 4.60 4 44 5.92 6.14 5 28 7.40 7.67

Focalflood III Floodlight with mounting plate for tungsten halogen lamps





34108.000 Graphit m QT-DE12-RE 400W 230V R7s L114mm 9000lm Flood reflector Maximum wind load area 0.13m²

Weight 9.40kg LMF E 日本 🌑 🕸 😢 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

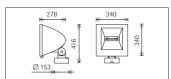
2 cable entries. Through-wiring possible. 3-pole terminal block

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light.

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for

lamp replacement.
Protection mode IP65: dust-proof and water iet-proof.

Accessories page 894







h(m) E(Ix) D(m) 6801 0.63 1.43 1700 1.26 2.85 2 1.89 4.28 756 425 2.52 5.71 272 3.15 7.13

Focalflood III Floodlight with mounting plate for metal halide lamps





34109.000 Graphit m ECG HIT-DE-CE 150W RX7s 14200lm Flood reflector Electronic control gear. Maximum wind load area 0.13m²

34110.000 Graphit m HIT-DE-CE 150W RX7s 14200lm Flood reflector Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.13m²

Weight 10.00kg 日本 🌑 🕸 🕙 ♠ ▲ ▲ IP65

Weight 11.80kg LMF E **&** 🕸 🖭 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

2 cable entries. Through-wiring possible. -pole terminal block

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes.

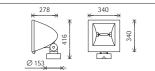
Without spill light. Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

HST-DE 150W possible. Protection mode IP65: dust-proof and

h(m)

2

water jet-proof. Accessories page 894



Ø 153

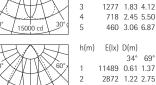


340



ф/«С>~ф





34° 69° 11489 0.61 1.37 2872 1.22 2.75 3 1277 1.83 4.12 718 2.45 5.50 460 3.06 6.87

891

E(lx) D(m)

11489 0.61 1.37 2872 1.22 2.75

www.erco.com ERCO Program 2010/11

Focalflood III Floodlight with mounting plate for compact fluorescent lamps





34111.000 Graphit m ECG TC-TEL 42W GX24q-4 3200lm Flood reflector Maximum wind load area 0.13m²

Weight 9.60kg LMF E 日本 鑑 @ ⑫ ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole ter-

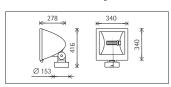
minal block. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to

increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light. Screw-fastened cover with safety glass:

corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 894







	n(m)	E(IX)	D(m)		
1			64°	78°	
1	1	1534	1.25	1.62	
1	2	384	2.50	3.24	
1	3	170	3.75	4.86	
	4	96	5.00	6.48	
1	5	61	6.25	8.10	

Focalflood IV Floodlight with mounting plate for tungsten halogen lamps



34112.000 Graphit m QT-DE12 1000W 230V R7s L186mm

Maximum wind load area 0.24m²

Flood reflector



Weight 18.70kg LMF E 日本 🌯 🕸 🍽 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

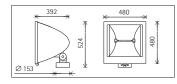
2 cable entries. Through-wiring possible. -pole terminal block

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light.

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.
Protection mode IP65: dust-proof and

water iet-proof.

Accessories page 894







	n(m)	E(IX)	D(m)	
`			21°	61°
2	1	33403	0.37	1.18
V	2	8351	0.74	2.36
1	3	3711	1.11	3.53
	4	2088	1.48	4.71
°	5	1336	1.85	5.89

E(III) D(ma)



Spreitenbach Centre, Spreitenbach near Zürich. Architecture and lighting design: Matteo Thun.

Focalflood IV Floodlight with mounting plate for metal halide lamps





Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

Control gear with temperature controller, timer-ignitor, capacitor. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-off angle 50° along the main axes. Without spill light. Screw-fastened cover with safety glass:

corrosion-resistant cast aluminium,

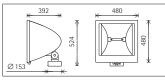
double powder-coated. Hinge open for lamp replacement.
Protection mode IP65: dust-proof and

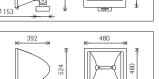
water jet-proof. Accessories page 894

34113.000 Graphit m HIT-DE 250W Fc2 20000lm Flood reflector Maximum wind load area 0.24m²

34114.000 Graphit m HIT-DE 400W Fc2 35000lm Flood reflector HST-DE 400W possible. Maximum wind load area 0.24m² Weight 22.50kg LMF E **%** 🕸 🕑 ♠ ▲ ▲ IP65

Weight 23.90kg LMF E ♠ ▲ ▲ IP65







HIT-DE



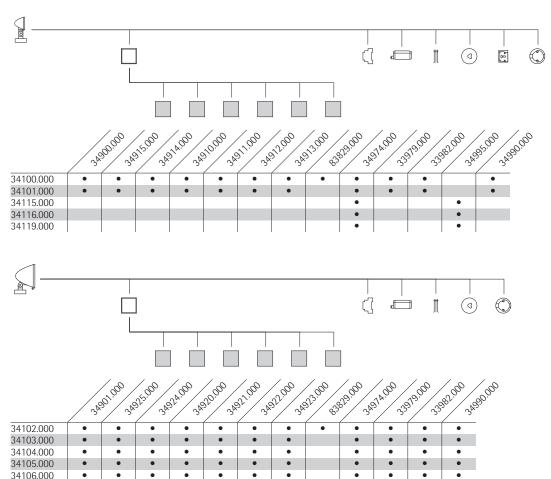
E(lx) D(m) h(m) 29526 0.33 1.30 7381 0.67 2.60 3281 1.00 3.90 1845 1.34 5.20 1181 1.67 6.49

h(m) E(lx) D(m) 19° 51670 0.33 1.30 12917 0.67 2.60 3 5741 1.00 3.90 3229 1.34 5.20 2067 1.67 6.49

893

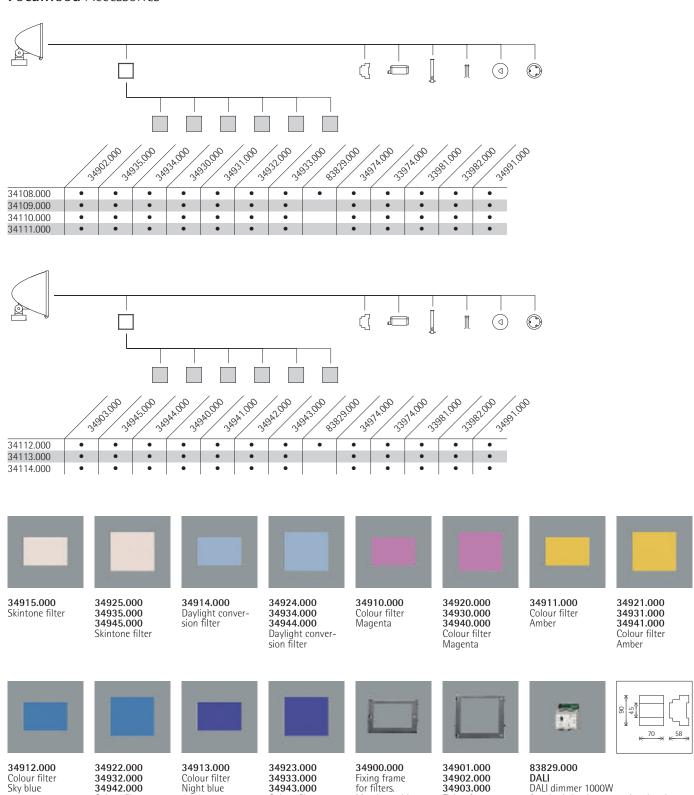
Focalflood Accessories

34107.000



Focalflood Accessories

Colour filter Sky blue



Metal, graphit m,

powder-coated.

Fixing frame for filters.

Metal, graphit m, powder-coated.

Colour filter

Night blue

for ohmic loads, conventional and electronic transformers.

Mounting on DIN rail. Weight 0.18kg

Focalflood Accessories



34974.000
Distribution box, IP68
With four cable entries, 7-25mm. Plastic.
Ø 95mm, L 240mm.
Weight 0.47kg



33974.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 2.30kg



33979.000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site. Weight 0.25kg



33981.000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site. Weight 0.76kg

Ø 124



Weight 1.70kg





Ø 115

34995.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.25kg



34990.000
Spacer
for surface-mounted cables.
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Graphit m,
double powder-coated.
Weight 0.16kg





Focalflood I Floodlight with mounting bracket for tungsten halogen lamps



34150.000 Graphit m QT-DE12-RE 120W 230V R7s L75mm 2300lm Flood reflector Maximum wind load area 0.04m²



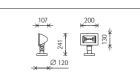
For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant

aluminium.
Heat-resistant cable with plug.
Flood reflector with focal emphasis
in beam direction: aluminium, silver,
bright anodised. Side reflectors to
increase the visual comfort along the
lamp axis, mirror-finish anodised.

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Mounting accessories to be ordered

separately.
Accessories page 902







h(m) E(lx) D(m) 53° 88° 1 1 1129 1.00 1.93 2 282 1.99 3.86 3 125 2.99 5.79 4 71 3.99 7.73 5 45 4.99 9.66

Focalflood I Floodlight with mounting bracket for compact fluorescent lamps





34151.000 Graphit m ECG TC-DEL 10W G24q-1 600lm Flood reflector Maximum wind load area 0.04m²

Weight 2.35kg LMF E **⋘**º 🕸 🖭 🛦 IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface or reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium.

Electronic control gear. Heat-resistant

cable with plug. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to

increase the visual comfort along the lamp axis, mirror-finish anodised. Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Mounting accessories to be ordered separately.

off angle 50° along the main axes.

Mounting accessories to be ordered

off angle 50° along the main axes.

corrosion-resistant cast aluminium,

Mounting accessories to be ordered

Screw-fastened cover with safety glass:

double powder-coated. Hinge open for

Without spill light.

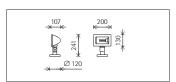
lamp replacement.

separately.

Accessories page 902

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for

Accessories page 902







Without spill light.

lamp replacement.

separately.
Accessories page 902

h(m)	E(Ix)	D(m)	
		74°	107°
1	130	1.51	2.70
2	33	3.01	5.41
3	14	4.52	8.11
4	8	6.03	10.81
5	5	7.54	13.51

Focalflood II Floodlight with mounting bracket for tungsten halogen lamps





34152.000 Graphit m QT-DE12-RE 230W 230V R7s L114mm Flood reflector Maximum wind load area 0.07m²

Weight 4.20kg LMF E 日本 ❸¹º <u></u> **▲**IP44

For mounting on accessories Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-





1	h(m)	E(Ix)	D(m)	
			31°	70°
7	1	3677	0.55	1.40
	2	919	1.11	2.80
	3	409	1.66	4.20
.	4	230	2.22	5.60
°٩	5	147	2 7 7	7.00

Focalflood II Floodlight with mounting bracket for metal halide lamps



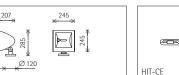


34153.000 Graphit m ECG HIT-CE 35W G12 3500lm Flood reflector Electronic control gear. Maximum wind load area 0.07m²

Weight 4.70kg LMF E 日本 🌑 🕸 🖭 **▲**IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-







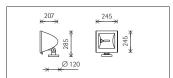
	h(m)	E(Ix)	D(m)	
			22°	71°
7	1	2877	0.39	1.43
	2	719	0.78	2.85
	3	320	1.17	4.28
	4	180	1.56	5.71
٥٩	5	115	1.94	7.13

Focalflood II Floodlight with mounting bracket for metal halide lamps

34154.000 Graphit m HIT-CE 35W G12 3300lm Flood reflector Control gear with temperature controller, timer-ignitor, capacitor.

Maximum wind load area 0.07m²

Weight 5.55kg LMF E **⋘**⁰ 🅸 🖭 🛦 IP44







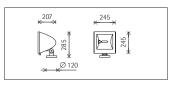
E(Ix) D(m) 22° 71° 2713 0.39 1.43 678 0.78 2.85 301 1.17 4.28 170 1.56 5.71 109 1.94 7.13

> 22° 71°

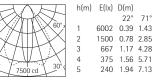
1.56 5.71

34155.000 Graphit m ECG HIT-CE 70W G12 7300lm Flood reflector Electronic control gear. Maximum wind load area 0.07m² Weight 4.70kg LMF E 日本 🚳 🕸 🕙 **▲** IP44

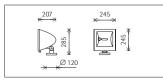
Weight 5.95kg LMF E **⋘**⁰ 🅸 🖭 🛦 IP44



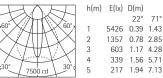




34156.000 Graphit m HIT-CE 70W G12 6600lm Flood reflector Control gear with temperature control-ler, timer-ignitor, capacitor. Maximum wind load area 0.07m²







Focalflood II Floodlight with mounting bracket for compact fluorescent lamps



34157.000 Graphit m FCG

Flood reflector

TC-TEL 26W GX24q-3 1800lm

Maximum wind load area 0.07m²



Weight 4.45kg LMF E

日本 🌑 🕸 😢

▲ IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium.

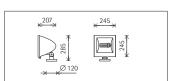
Electronic control gear. Heat-resistant cable with plug.

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes.

Without spill light.
Screw-fastened cover with safety glass:
corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Mounting accessories to be ordered separately

Accessories page 902







h(m) E(Ix) D(m) 711 1.48 1.53 178 2.96 3.07 2 79 4.44 4.60 44 5.92 6.14 28 7.40 7.67

www.erco.com

Focalflood III Floodlight with mounting bracket for tungsten halogen lamps





34158.000 Graphit m QT-DE12-RE 400W 230V R7s L114mm 9000lm Flood reflector Maximum wind load area 0.13m²

Weight 8.85kg LMF E 日本 🐒 🕸 🖭 **▲**IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-

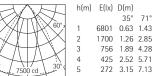
QT-DE12-RE

off angle 50° along the main axes. Without spill light. Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Mounting accessories to be ordered

separately.

Accessories page 902



off angle 50° along the main axes.

Mounting accessories to be ordered

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for

Without spill light.

lamp replacement.

separately. HST-DE 150W possible.

Accessories page 902

Focalflood III Floodlight with mounting bracket for metal halide lamps



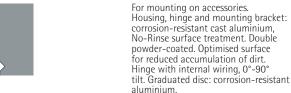


34159.000 Graphit m ECG HIT-DE-CE 150W RX7s 14200lm Flood reflector Electronic control gear. Maximum wind load area 0.13m²

34160.000 Graphit m HIT-DE-CE 150W RX7s 14200lm Flood reflector Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.13m²

Weight 9.45kg LMF E 日本 🌑 🕸 🕙 **▲**IP44

Weight 11.25kg 🐠 🕸 🖭 🕭 IP44



278

278

Heat-resistant cable with plug. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-

> HIT-DE-CE







34° 69° 11489 0.61 1.37 2872 1.22 2.75 1277 1.83 4.12 718 2.45 5.50 460 3.06 6.87

h(m)

E(lx) D(m)



h(m) E(lx) D(m) 34° 69° 11489 0.61 1.37 2872 1.22 2.75 1277 1.83 4.12 718 2.45 5.50 460 3.06 6.87

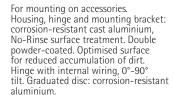
Focalflood III Floodlight with mounting bracket for compact fluorescent lamps







Weight 9.05kg LMF E 日本 **《** 企 © **(**) IP44



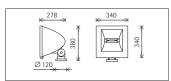
Electronic control gear. Heat-resistant cable with plug.

Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light.

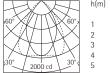
Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Mounting accessories to be ordered separately.

Accessories page 902







n(m)	E(IX)	D(m)	
		64°	78°
1	1534	1.25	1.62
2	384	2.50	3.24
3	170	3.75	4.86
4	96	5.00	6.48
5	61	6.25	8.10

Focalflood IV Floodlight with mounting bracket for tungsten halogen lamps



34162.000 Graphit m QT-DE12 1000W 230V R7s L186mm 22000lm Flood reflector Maximum wind load area 0.24m²



Weight 18.20kg LMF E 日本 **《** △ ♠ **② △** IP44



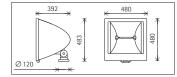
Heat-resistant cable with plug. Flood reflector with focal emphasis in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cut-

off angle 50° along the main axes. Without spill light.

Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

Mounting accessories to be ordered

separately.
Accessories page 902







L	n(m)	E(IX)	D(m)	
_			21°	61°
60°,	1	33403	0.37	1.18
\times	2	8351	0.74	2.36
/	3	3711	1.11	3.53
1	4	2088	1.48	4.71
30°(5	1336	1.85	5.89

Castillo de Manzanares el Real. Architect: Gines Sanchez Hevia, Madrid.



www.erco.com ERCO Program 2010/11 899

Focalflood IV Floodlight with mounting bracket for metal halide lamps





For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, 0°-90° tilt. Graduated disc: corrosion-resistant aluminium.

Control gear with temperature controller, timer-ignitor, capacitor. Heat-resist-ant cable with plug. Flood reflector with focal emphasis

in beam direction: aluminium, silver, bright anodised. Side reflectors to increase the visual comfort along the lamp axis, mirror-finish anodised. Cutoff angle 50° along the main axes. Without spill light.

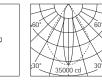
Screw-fastened cover with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.

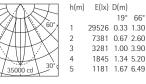
Mounting accessories to be ordered separately.

Accessories page 902

34163.000 Graphit m HIT-DE 250W Fc2 20000lm Flood reflector Maximum wind load area 0.24m² Weight 21.95kg LMF E **₹**10 ♠ 🖭 ♠ IP44

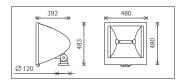
HIT-DE







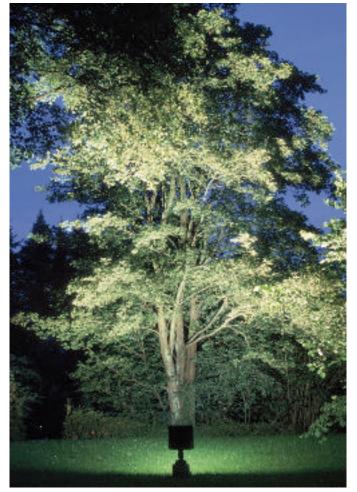
Weight 23.05kg LMF E Ø 120





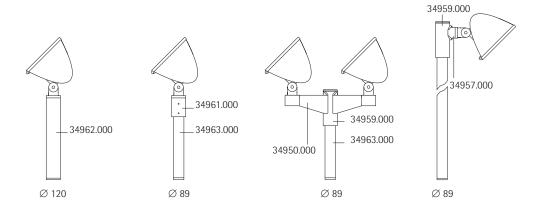


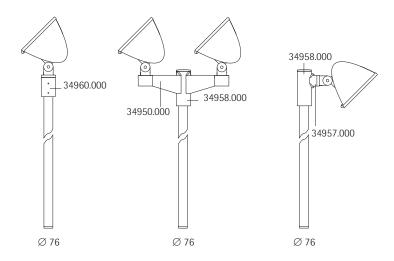
E(lx) D(m) 19° 66° 51670 0.33 1.30 12917 0.67 2.60 5741 1.00 3.90 3229 1.34 5.20 2067 1.67 6.49



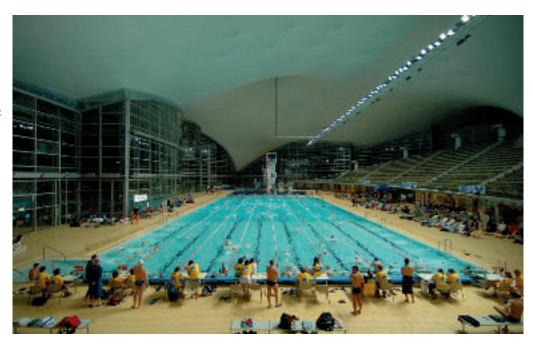
ERCO Lightpark, Lüdenscheid.

Focalflood



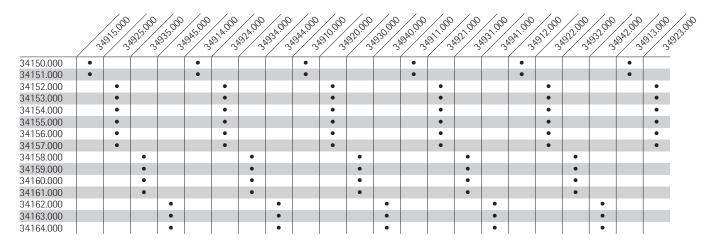


Olympic Swimming Pool, Munich. Architect (existing building): Behnisch & Partner, Stuttgart. Roof construction: Frei Otto. Site management (renovation): Carsten Kiese, Olympiapark München GmbH. Electrical design: Ingenieurbüro Riemhofer, Munich.



901

Focalflood Accessories



	/	300	300	7000	100	7000	300	000	100	(100)	100	1,000	7000	1000	1000	300	000	000	7000	100	100	1000
	31	×333.00	13 130 3t	300,000	×901,000	302.00	×303.00	2829,000	1964,000	4065.000	x314,000	915.00°	380,00	31892.00	31/31/31	×963,000	258,000	2 ³ 53,00	360,00	×961,00	349	5100
34150.000		_	(•		_	_	_		<u> </u>		<u> </u>		-	(• ·	-		<u> </u>	(• ·	_	(• ·		
34151.000			•							•	•		•	•	•			•	•	•	•	
34152.000								•				•		•		•		•	•	•	•	
34153.000				•			_	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
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34156.000				•				•		•	•	•	•	•	•	•		•	•	•	•	
34157.000				•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34158.000	•				•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34159.000	•				•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34160.000	•				•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34161.000	•				•			•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34162.000		•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34163.000		•				•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
34164.000		•				•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	



34915.000 Skintone filter



34925.000 34935.000 34945.000 Skintone filter



34914.000Daylight conversion filter



34924.000 34934.000 34944.000 Daylight conversion filter



34910.000 Colour filter Magenta



34920.000 34930.000 34940.000 Colour filter Magenta



34911.000 Colour filter Amber



34921.000 34931.000 34941.000 Colour filter Amber



34912.000 Colour filter Sky blue



34922.000 34932.000 34942.000 Colour filter Sky blue



34913.000 Colour filter Night blue



34923.000 34933.000 34943.000 Colour filter Night blue



34900.000Fixing frame for filters.
Metal, graphit m, powder-coated.



34901.000 34902.000 34903.000 Fixing frame for filters. Metal, graphit m, powder-coated.



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

ERCO Program 2010/11 www.erco.com

Focalflood Accessories



33980.000

Concrete anchor

Weight 0.30kg

Mounting plates with threaded bar and

fixing screws. Individual parts to be assembled on-site.

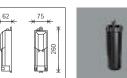


Ø 124

34964.000 Cable junction box Plastic, black. Terminal block 2 of 5x2.5mm². 1 fuse D01 E14 10A. Weight 0.25kg



34965.000 Cable junction box Plastic, grey. Terminal block 2 of 5x6mm². 1 fuse D01 E14 10A. Weight 0.55kg

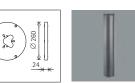


34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm.



33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg









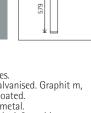
34962.000 Post Metal, hot-dip galvanised. Graphit m, Metal, not-olp galvanisco. Graphic III, double powder-coated. Mounting plate: metal. 5-pole terminal block for cable 5x2.5mm². Through-wiring possible. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire. Weight 5.60kg



34963.000

Post

Ø 83



Ø 89

903

Post
for adapter sleeves.
Metal, hot-dip galvanised. Graphit m,
double powder-coated.
Mounting plate: metal.
5-pole terminal block for cable
5x2.5mm². Through-wiring possible.
IP44 protection mode when used with
relevant accessories.
Not for concrete anchor 33980 000 and Not for concrete anchor 33980.000 and mounting plate 33982.000. Weight 1.50kg

Church, Rørvik. Lighting design: Stokkan Lys AS, Trondheim.



Focalflood Accessories







34958.000

Adapter sleeve

for poles ø 76mm and cantilever arms. Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-

coated. Screw fixing. Terminal block 5x2,5mm². Through-wiring possible. 2 cable entries for cantilever arms.

Protection mode IP44 only with ac-

cessories.
Cantilever arms to be ordered separ-

Poles ø 76mm to be ordered separately. Weight 3.80kg





34959.000

Adapter sleeve

for posts ø 89mm and cantilever arms. Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-

coated. Screw fixing. Terminal block 5x2,5mm². Through-wiring possible. 2 cable entries for cantilever arms. Protection mode IP44 only with ac-

cessories. Posts ø 89mm and cantilever arms to be ordered separately. Weight 3.20kg



34960.000

Adapter sleeve

for poles ø 76mm.

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated.

Ø 120

Screw fixing.
3-pole terminal block for control line.
Through-wiring possible.
Luminaire rotatable through 360°.
Protection mode IP44 only with mountable through 360°. ted luminaire. Weight 2.55kg



Ø 120

34961.000

Adapter sleeve for posts ø 89mm. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Screw fixing.
3-pole terminal block for control line.

Through-wiring possible. Luminaire rotatable through 360°. Protection mode IP44 only with mounted luminaire. Weight 1.95kg



34950.000







120

Cantilever arm For mounting on adapter sleeve or wall. For standing luminaire installation. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.

Graphit m, double powder-coated. Inspection cover: corrosion-resistant aluminium, double powder-coated in graphit m.

1 cable entry. 3-pole terminal block for control line. Luminaire rotatable through 360°.

Protection mode IP44 in connection with mounted luminaire. Weight 3.55kg

34957.000

Side-mounted sleeve For mounting on adapter sleeve. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated.

1 cable entry. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP65 only with mounted luminaire. Weight 0.90kg



Rehstockhad swimming baths, Frankfurt. Architect: Architek-tenbüro 4a, Stuttgart (conversion/renovation) Original build-ing: Architect Dieter Glaser, Frankfurt (1983). Lighting design: bhp Beiersdorf Herzhauser Planung.



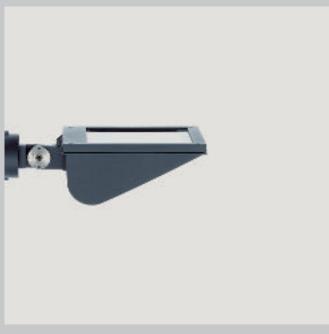
Washlights and wallwashers, built to the high protection mode of IP65, have been brought together under the name Parscoop. Although primarily intended for outdoor architectural lighting, they are also suitable for indoor areas. Mounted on the wall, Parscoop washlights can illuminate ceilings, porches or floors. When ceiling or floor-mounted, they can illuminate walls and facades. A wide range of mounting accessories enable these washlights to be optimally positioned under all conditions. The beam direction can be adjusted by setting the robust hinge to the required angle.

Parscoop luminaires have asymmetric reflectors: They ent below

Parscoop luminaires have asymmetric reflectors: They emit maximum light distribution at below approx. 25° thereby producing optimum, uniform illumination. All Parscoop luminaires have robust housings made of cast aluminium. The IP65 protection mode guarantees optimum protection against dust and humidity for the lamps and optical systems. Parscoop luminaires are available in four housing sizes, the luminous flux lies between 2600 lumen (QT-DE12 150W) and 35000 lumen (HIT-DE 400W) depending on the lamp used.

The New York
Times Building,
New York. Architect: Renzo Piano
Building Workshop, Genoa/Paris,
FXFowle Architects, New York.
Lighting design:
OVI Office for
Visual Interaction,
New York.

905



Wallwashers with mounting plates

Parscoop washlights and wallwashers are suitable for both outdoor and indoor use. The housings are high-quality cast aluminium provided with a special coating. Over this, a double powder-coating in Graphit m is applied. A graduated lockable pivot bracket enables accurate settings of the angle of tilt. All electric cables are routed internally. Parscoop with mounting plates or with mounting brackets are available for various mechanical and electrical connections. All Parscoop luminaires are fitted with asymmetric beam reflectors. The light distributions are designed for even wall illumination or surfaces without perceptible edges to the beam. Accessories in the form of conversion filters and colour filters are fitted using mounting frames.

The Parscoop I wallwasher is available in the smallest, symmetrical housing design, which itself is based on the housing of the small

Focalflood.

The Parscoop mounting plates are attached directly to the mounting surface. The electrical connections and control gear are contained within the luminaire.

Application

are available.

Asymmetric light distribution for many applications including garden and park lighting or for lighting the walls and ceilings of facades and entrances

Double-ended tungsten halogen lamps up to 150W are to be used. Parscoop II to Parscoop IV are avail-

able in three housing sizes, to suit

the lamp design, power or control

gear. The lamps are also usually op-

erated horizontally in these housings. To suit the lighting task, a

choice is offered between double-

up to 1000W, metal halide lamps

up to 400W and compact fluores-

cent lamps up to 42W. To ensure safe mounting on the ground, ac-

cessories such as concrete anchors,

mounting plates or ground sockets

ended tungsten halogen lamps

Wallwashers with mounting brackets



Parscoop with mounting brackets can only be attached on special mounting accessories. For this purpose support posts, cantilever arms and adapter sleeves for poles are available.

Application

Asymmetric light distribution for many applications including garden and park lighting or for lighting the walls and ceilings of facades and entrances.

Washlights with mounting



The Parscoop mounting plates are attached directly to the mounting surface. The electrical connections and control gear are contained within the luminaire. A cantilever with internal wiring is available for mounting the luminaire to the surface to be illuminated.

Application

Asymmetric light distribution for uses including wall and ceiling lighting, illumination of facades and historical buildings, illumination of park and garden complexes as well as arcades, passages and

Washlights with mounting brackets



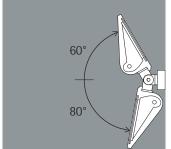
Parscoop with mounting brackets can only be attached on special mounting accessories. For this purpose support posts, cantilever arms and adapter sleeves for poles are available.

Application

Asymmetric light distribution for uses including wall and ceiling lighting, illumination of facades and historical buildings, illumination of park and garden complexes as well as arcades, passages and

906 ERCO Program 2010/11 www.erco.com





The Parscoop hinge with internal wiring can be tilted for maximum flexibility during installation and alignment in order to create exceptional lighting effects on the building.



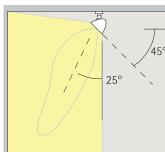






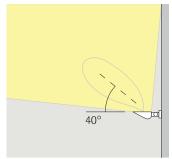


Luminaires with mounting plate can be mounted directly on the floor, wall or ceiling. Parscoop wallwashers and washlights with mounting bracket can be mounted on upright supporting poles, brackets or cantilevers.









Parscoop washlights can be mounted on walls, ceilings or floors and in addition can also be tilted.

The wallwashers for tungsten halogen lamps are most effective when set at 45°.

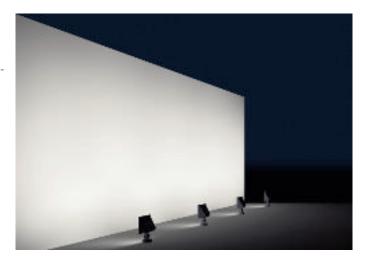
Washlights for tungsten halogen lamps and high-pressure discharge lamps

are most effective when set at 25° with approx. 500cd/klm.

The washlights for compact fluorescent lamps are most effective

when set at 40° with approx. 300cd/klm.

The reflector geometry produces an asymmetrical light distribution for uniform illumination of surfaces.



907

Parscoop I Wallwasher with mounting plate for tungsten halogen lamps



33240.000 Graphit m **33201.000** White (RAL9002) **33200.000** Silver m OT-DE12-RE 120W 230V R7s L75mm Maximum wind load area 0.04m²



Weight 2.40kg LMF E 日本 **愛** 🅸 🕑 ♠ ▲ IP65



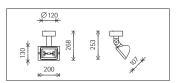
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

2 cable entries. Through-wiring possible.

3-pole terminal block. Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and water jet-proof.

Accessories see below



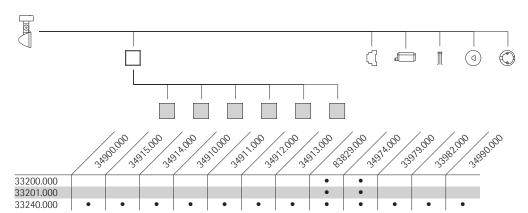




Mean illuminance E_n (lx)

Wall height (m) 1.00 1.00 1.00 1.00 1.00 1.25 1.50 1.80 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)

Parscoop Accessories





34915.000 Skintone filter



34914.000 Daylight conver-sion filter



34910.000 Colour filter Magenta



34911.000 Colour filter



34912.000 Colour filter Sky blue



34913.000 Colour filter Night blue



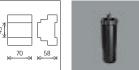
34900.000 Fixing frame for filters. Metal, graphit m, powder-coated.

Parscoop Accessories





83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm Weight 0.47kg ♦ ♦ ♦ 3mIP68



33979.000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site. Weight 0.25kg



Weight 1.70kg

33982.000 Mounting plate Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated.





34990.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.16kg

Parscoop I Wallwasher with mounting bracket for tungsten halogen lamps







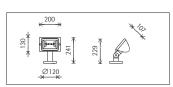
Weight 2.30kg LMF E 日本 🚳 🕸 🕑 **▲** IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^{\circ}$ tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Reflector: aluminium, silver anodised.

Without spill light.
Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

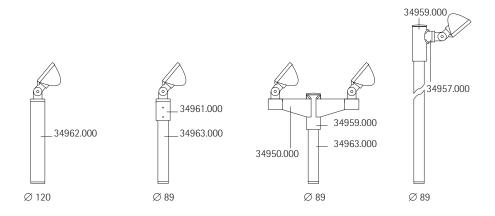
Accessories page 910

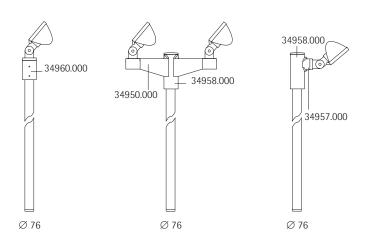




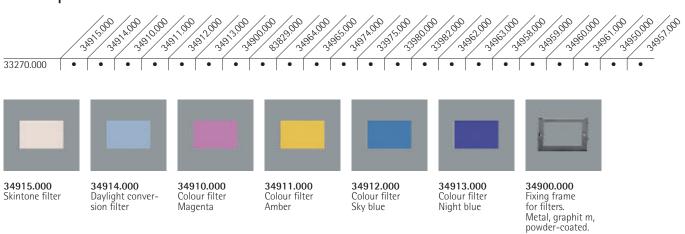
Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 1.00 1.00 1.00 1.00 Luminaire spacing (m) 1.00 1.25 1.50 1.80 Illuminance E_n (lx) 399 321 268 223

909





Parscoop Accessories



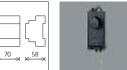
910 ERCO Program 2010/11 www.erco.com

Parscoop Accessories





83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34964.000 Cable junction box Plastic, black. Terminal block 2 of 5x2.5mm². 1 fuse D01 E14 10A. Weight 0.25kg

× 65 ×

65 0 8

Ø 124

200



34965.000 Cable junction box Plastic, grey. Terminal block 2 of 5x6mm². 1 fuse D01 E14 10A. Weight 0.55kg



34974.000 Distribution box, Plastic.



33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg

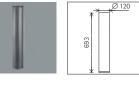


33980,000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site. Weight 0.30kg



33982.000 Mounting plate
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Graphit m,
double powder-coated.
Weight 1.70kg





34962.000 Post Metal, hot-dip galvanised. Graphit m, double powder-coated. Mounting plate: metal. 5-pole terminal block for cable 5x2.5mm². Through-wiring possible. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire. Weight 5.60kg

911

Mosteiro de Alcobaça monastery, Alcobaça.



Parscoop Accessories





34963.000 Post for adapter sleeves. Metal, hot-dip galvanised. Graphit m, double powder-coated. Mounting plate: metal. 5-pole terminal block for cable 5x2.5mm². Through-wiring possible. IP44 protection mode when used with relevant accessories. Not for concrete anchor 33980.000 and mounting plate 33982.000. Weight 1.50kg





34958.000 Adapter sleeve for poles ø 76mm and cantilever arms. Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-

coated. Screw fixing. Terminal block 5x2,5mm². Through-wiring possible. 2 cable entries for cantilever arms. Protection mode IP44 only with ac-

cessories. Cantilever arms to be ordered separ-

Poles ø 76mm to be ordered separately. Weight 3.80kg





34959.000 Adapter sleeve for posts ø 89mm and cantilever arms. Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powdercoated. Screw fixing. Terminal block 5x2,5mm². Throughwiring possible. 2 cable entries for

cantilever arms. Protection mode IP44 only with accessories.

Posts ø 89mm and cantilever arms to be ordered separately. Weight 3.20kg





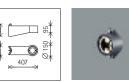
34960.000 Adapter sleeve for poles ø 76mm. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Screw fixing.
3-pole terminal block for control line.
Through-wiring possible.
Luminaire rotatable through 360°.
Protection mode IP44 only with mounted luminaire. Weight 2.55kg













34961.000 Adapter sleeve for posts ø 89mm. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Screw fixing. 3-pole terminal block for control line. Through-wiring possible. Luminaire rotatable through 360°. Protection mode IP44 only with mounted luminaire. Weight 1.95kg

Cantilever arm For mounting on adapter sleeve or wall. For standing luminaire installation. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Inspection cover: corrosion-resistant aluminium, double powder-coated in graphit m. 1 cable entry. 3-pole terminal block for

control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire. Weight 3.55kg

34957.000 Side-mounted sleeve For mounting on adapter sleeve. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.
Graphit m, double powder-coated.
1 cable entry. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP65 only with mounted luminaire. Weight 0.90kg



Europabad, Karls-ruhe. Architect: Geier + Geier, Stuttgart. Lighting design: b.i.g. Bechtold Ingenieurgesellschaft, Karlsruhe.

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Parscoop II Washlight with mounting plate for tungsten halogen lamps



33241.000 Graphit m **33211.000** White (RAL9002) **33210.000** Silver m OT-DE12-RE 230W 230V R7s L114mm 5000lm Maximum wind load area 0.07m²







Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^\circ$ tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

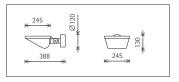
2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast alu-

minium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 918





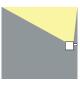


Mean illuminance E_n (lx)

Parscoop II Washlight with cantilever for tungsten halogen lamps



33290.000 Graphit m OT-DE12-RE 230W 230V R7s L114mm 5000lm Maximum wind load area 0.1m²



Weight 6.70kg LMF E 日本 **《** △ ♠ •

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

Cantilever: stainless steel tube, powder-coated.

2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver anodised. Without spill light.

245 3 1072





Screw-fastened cover frame with safety glass: corrosion-resistant cast alu-

minium, double powder-coated. Hinge

open for lamp replacement. Protection mode IP65: dust-proof and



Parscoop II Washlight with mounting plate for metal halide lamps



33242.000 Graphit m 33213.000 White (RAL9002) 33212.000 Silver m HIT-CE 35W G12 3300lm Maximum wind load area 0.07m²





Weight 5.30kg LMF E 日本 **《** 企 © ♠ ▲ ▲ IP65



Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

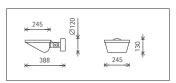
2 cable entries. Through-wiring possible. 3-pole terminal block

Control gear with temperature controller, timer-ignitor. Capacitor.

Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and

water iet-proof. Accessories page 918







Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m) Luminaire spacing (m)

1.50 1.50 2.00 2.00 1.50 2.50 2.00 3.00 Illuminance E_n (Ix) 227 137 147

Parscoop II Washlight with cantilever for metal halide lamps



33291.000 Graphit m HIT-CE 35W G12 3300lm Maximum wind load area 0.1m²



Weight 8.30kg LMF E 日本 🖭 ♠ ▲ ▲ IP65

Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

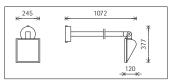
Cantilever: stainless steel tube, powdercoated.

Control gear with temperature con-troller, timer-ignitor, capacitor. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver anodised. Without spill light. Screw-fastened cover frame with safety

glass: corrosion-resistant cast alu-minium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 918









Brunner Communications Centre, Rheinau-Freistett. Architecture and lighting design: Schneider+Schumacher, Frankfurt.

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Parscoop III Washlight with mounting plate for tungsten halogen lamps



33243.000 Graphit m 33215.000 White (RAL9002) 33214.000 Silver m QT-DE12-RE 400W 230V R7s L114mm Maximum wind load area 0.13m²





Weight 8.30kg LMF E 日本 **《** 企 © ♠ ▲ ▲ IP65



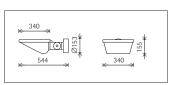
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast alu-

minium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and water jet-proof. Accessories page 918







Mean illuminance E_n (lx)

Wall height (m) 6.0 2.00 2.00 2.50 2.50 Offset from wall (m) 2.00 3.00 2.50 3.50 Luminaire spacing (m) Illuminance E_n (lx) 263 177 188 135

Parscoop III Washlight with mounting plate for metal halide lamps



33245.000 Graphit m **33219.000** White (RAL9002) 33218.000 Silver m HIT-DE-CE 70W RX7s 6500lm HST-DE 70W possible. Maximum wind load area 0.13m²

33246.000 Graphit m 33221.000 White (RAL9002)

33220.000 Silver m

HIT-DE-CE 150W RX7s 14200lm HST-DE 150W possible.

Maximum wind load area 0.13m²





Weight 10.20kg LMF E 日本 鑑 @ ♠ ▲ ▲ IP65



Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°. 2 cable entries. Through-wiring possible.

Housing, hinge and mounting plate: corrosion-resistant cast aluminium,

No-Rinse surface treatment. Double

powder-coated. Optimised surface

for reduced accumulation of dirt.

3-pole terminal block. Control gear with temperature control-

ler, timer-ignitor. Capacitor.

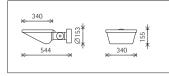
Reflector: aluminium, silver anodised. Without spill light. Screw-fastened cover frame with safety

glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and

water jet-proof. Accessories page 918

237 158 172 123

915



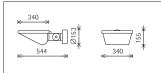


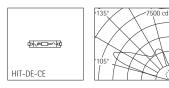


Mean illuminance En (Ix) 6.0 Wall height (m) 2.00 2.00 2.50 2.50 Offset from wall (m) 2.00 3.00 2.50 3.50 Luminaire spacing (m)

Illuminance E_n (lx)

Weight 10.70kg LMF E ♠ ▲ ▲ IP65





Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 2.00 2.00 2.50 2.50 Luminaire spacing (m) Illuminance E_n (lx) 2.00 3.00 2.50 3.50 381 255 271 194

Parscoop III Washlight with mounting plate for compact fluorescent lamps



33244.000 Graphit m ECG **33217.000** White (RAL9002) ECG **33216.000** Silver m ECG TC-TEL 42W GX24q-4 3200lm Maximum wind load area 0.13m²





Weight 9.00kg LMF E 日本 **《** 企 © ♠ ▲ IP65



Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°

Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block. Reflector: aluminium, silver anodised.

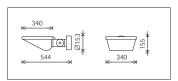
Without spill light. Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement.
Protection mode IP65: dust-proof and water iet-proof.

minium, double powder-coated. Hinge open for lamp replacement.

Protection mode IP65: dust-proof and

water jet-proof. Accessories page 918

Accessories page 918







Mean illuminance E_n (lx)

Wall height (m) 4.0 1.50 1.50 2.00 2.00 Offset from wall (m) 1.50 2.50 2.00 3.00 Luminaire spacing (m) Illuminance E_n (Ix)

Parscoop IV Washlight with mounting plate for tungsten halogen lamps



33247.000 Graphit m **33223.000** White (RAL9002) 33222.000 Silver m QT-DE12 1000W 230V R7s L186mm 22000lm Maximum wind load area 0.25m²





Weight 14.80kg LMF E 日本 🐠 🕸 🖭 ♠ ▲ ▲ IP65

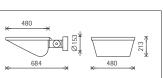


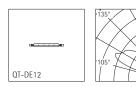
Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°.

2 cable entries. Through-wiring possible. 3-pole terminal block Reflector: aluminium, silver anodised.

Without spill light

Screw-fastened cover frame with safety glass: corrosion-resistant cast alu-





Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 3.00 3.00 4.00 4.00 3.00 4.00 4.00 5.00 Luminaire spacing (m) Illuminance E_n (Ix) 383 290 235 189

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Parscoop IV Washlight with mounting plate for metal halide lamps



33249.000 Graphit m **33227.000** White (RAL9002) **33226.000** Silver m HIT-DE 250W Fc2 20000lm Maximum wind load area 0.25m²





Housing, hinge and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^{\circ}$ tilt. Graduated disc: corrosion-resistant aluminium. Mounting plate rotatable through 240°. Control gear with temperature con-

Control gear with temperature controller, timer-ignitor, capacitor. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 918

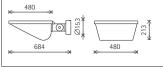
917



480





33250.000 Graphit m **33229.000** White (RAL9002) **33228.000** Silver m HIT-DE 400W Fc2 35000lm HST-DE 400W possible. Maximum wind load area 0.25m² 





 Mean illuminance E_n (lx)

 Wall height (m)
 8.0

 Offset from wall (m)
 3.00
 3.00
 4.00
 4.00

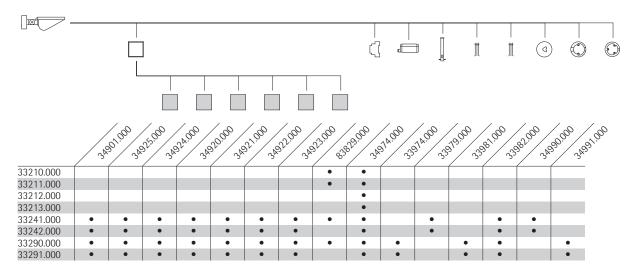
 Luminaire spacing (m)
 3.00
 4.00
 4.00
 5.00

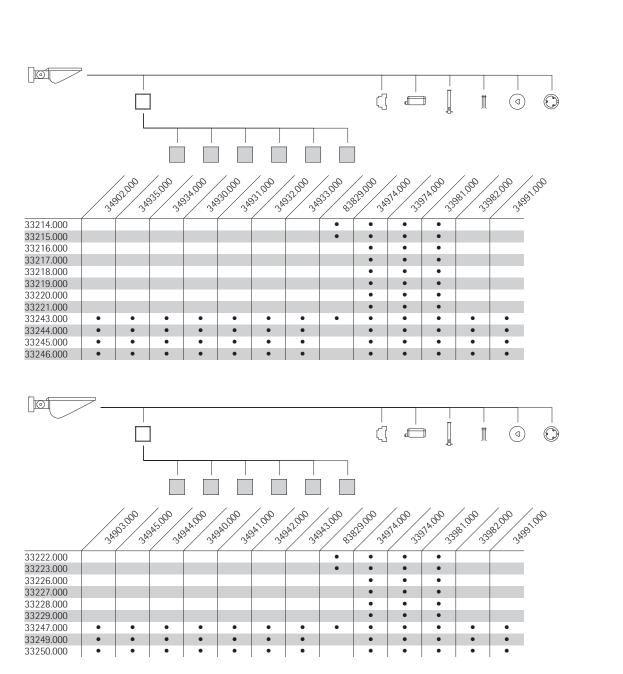
 Illuminance E_n (lx)
 553
 417
 352
 282

Apple Store, Regent St., London. Lighting designer: ISP Design Miami, Sylvia Bistrong.



Parscoop Accessories





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Parscoop Accessories



34925.000 34935.000 34945.000 Skintone filter



34924.000 34934.000 34944.000 Daylight conversion filter



34920.000 34930.000 34940.000 Colour filter Magenta



34921.000 34931.000 34941.000 Colour filter Amber



34922.000 34932.000 34942.000 Colour filter Sky blue

Ø 115

Ø 60



34923.000 34933.000 34943.000 Colour filter Night blue

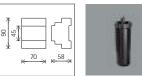


34901.000 34902.000 34903.000 Fixing frame for filters. Metal, graphit m, powder-coated.

Ø 124



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg





33974.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 2.30kg



33979.000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site. Weight 0.25kg

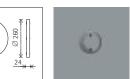


33981.000Concrete anchor
Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site.
Weight 0.76kg



Ø 124

33982.000
Mounting plate
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Graphit m,
double powder-coated.
Weight 1.70kg



34990.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.16kg



34991.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.23kg

Parscoop II Washlight with mounting bracket for tungsten halogen lamps





33271.000 Graphit m QT-DE12-RE 230W 230V R7s L114mm 5000lm Maximum wind load area 0.07m²

Weight 3.60kg LMF E 日本 **《** 企 ©

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Reflector: aluminium, silver anodised. Without spill light. Screw-fastened cover frame with safety

Screw-fastened cover frame with safet glass: corrosion-resistant cast alu-

minium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

Accessories page 923



245

361



Mean illuminance E_n (lx)
Wall height (m)

Parscoop II Washlight with mounting bracket for metal halide lamps





33273.000 Graphit m Weight 5.20kg HIT-CE 35W G12 3300lm LMF E Maximum wind load area 0.07m² 日本 **《** ② ②

Weight 5 20kg

▲IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium.

Control gear with temperature controller, timer-ignitor, capacitor. Heat-resistant cable with plug. Reflector: aluminium, silver anodised.

Without spill light.
Screw-fastened cover frame with safety

₩ ₩ HIT-CE

glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

Accessories page 923

Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 1.50
 1.50
 2.00
 2.00

 Luminaire spacing (m)
 1.50
 2.50
 2.00
 3.00

 Illuminance E_n (lx)
 227
 137
 147
 99

Parscoop III Washlight with mounting bracket for tungsten halogen lamps



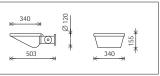


33274.000 Graphit m OT-DE12-RE 400W 230V R7s L114mm 9000lm Maximum wind load area 0.13m²

Weight 7.80kg LMF E 日本 **《** 企 **(** 企) For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, ±90° tilt. Graduated disc: corrosion-resistant aluminium

Heat-resistant cable with plug. Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast alu-



Ø120

361



minium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

Accessories page 923

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Parscoop III Washlight with mounting bracket for metal halide lamps





33278.000 Graphit m HIT-DE-CE 70W RX7s 6500lm HST-DE 70W possible. Maximum wind load area 0.13m²

Weight 9.70kg LMF E 日本 🚳 🕸 🕙 **▲** IP44

33276.000 Graphit m HIT-DE-CE 150W RX7s 14200lm HST-DE 150W possible. Maximum wind load area 0.13m²

Weight 10.20kg LMF E **⋘**⁰ 🅸 🖭 🛦 IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^{\circ}$ tilt. Graduated disc: corrosion-resistant aluminium.

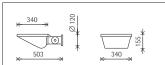
Control gear with temperature controller, timer-ignitor, capacitor. Heat-resistant cable with plug. Reflector: aluminium, silver anodised.

Without spill light.

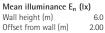
Screw-fastened cover frame with safety

glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

Accessories page 923



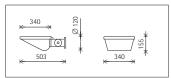




200 200 250 250 2.00 3.00 2.50 3.50 Luminaire spacing (m) 237 158 172 123 Illuminance E_n (Ix)



6.0 Wall height (m) Offset from wall (m) 2.00 2.00 2.50 2.50 2.00 3.00 2.50 3.50 Luminaire spacing (m) 381 255 271 194 Illuminance En (Ix)





Parscoop III Washlight with mounting bracket for compact fluorescent lamps





33279.000 Graphit m ECG TC-TEL 42W GX24q-4 3200lm Maximum wind load area 0.13m²

Weight 8.50kg LMF E 日本 🚳 🕸 🕙 **№** IP44

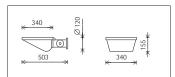
For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^\circ$ tilt. Graduated disc: corrosion-resistant aluminium.

Electronic control gear. Heat-resistant cable with plug.

Reflector: aluminium, silver anodised. Without spill light

Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately

Accessories page 923





Mean illuminance E_n (lx)

4.0 Wall height (m) Offset from wall (m) 1.50 1.50 2.00 2.00 1.50 2.50 2.00 3.00 Luminaire spacing (m) 242 147 151 102 Illuminance En (Ix)

Parscoop IV Washlight with mounting bracket for tungsten halogen lamps





33280.000 Graphit m QT-DE12 1000W 230V R7s L186mm Maximum wind load area 0.25m²

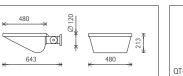
Weight 14.30kg LMF E 日本 🌑 🕸 🕑 **▲** IP44

For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^{\circ}$ tilt. Graduated disc: corrosion-resistant aluminium.

Heat-resistant cable with plug. Reflector: aluminium, silver anodised. Without spill light.

Screw-fastened cover frame with safety glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

Accessories page 923





Mean illuminance E_n (lx) 8.0 Wall height (m) 3.00 3.00 4.00 4.00 3.00 4.00 4.00 5.00 Offset from wall (m) Luminaire spacing (m) 383 290 235 189 Illuminance En (Ix)

921

Parscoop IV Washlight with mounting bracket for metal halide lamps





33281.000 Graphit m HIT-DE 250W Fc2 20000lm Maximum wind load area 0.25m²

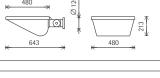
33282.000 Graphit m HIT-DE 400W Fc2 35000lm

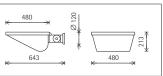
Maximum wind load area 0.25m²

HST-DE 400W possible.

Weight 20.00kg LMF E **₹**0 ♠ № ♠ IP44

Weight 20.70kg LMF E





For mounting on accessories. Housing, hinge and mounting bracket: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Hinge with internal wiring, $\pm 90^{\circ}$ tilt. Graduated disc: corrosion-resistant aluminium.

Control gear with temperature controller, timer-ignitor, capacitor. Heat-resistant cable with plug. Reflector: aluminium, silver anodised.

Without spill light.

Screw-fastened cover frame with safety

HIT-DE

HIT-DE

glass: corrosion-resistant cast aluminium, double powder-coated. Hinge open for lamp replacement. Mounting accessories to be ordered separately.

Accessories page 923

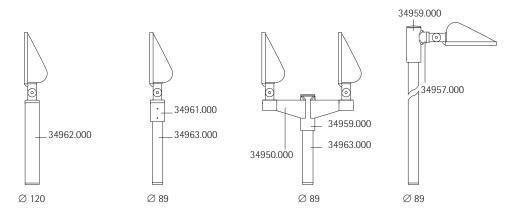
Mean illuminance E_n (lx)

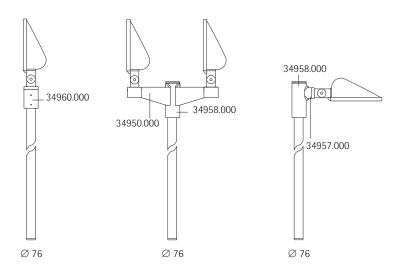
Wall height (m) Offset from wall (m) 3.00 3.00 4.00 4.00 3.00 4.00 4.00 5.00 316 238 201 161 Luminaire spacing (m)
Illuminance E_n (lx)

Mean illuminance E_n (Ix)

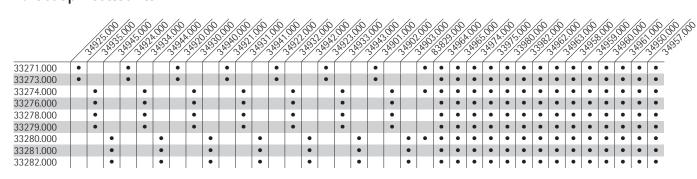
Wall height (m) 3.00 3.00 4.00 4.00 3.00 4.00 4.00 5.00 553 417 352 282 Offset from wall (m) Luminaire spacing (m)
Illuminance E_n (lx)

Parscoop





Parscoop Accessories





34925.000 34935.000 34945.000 Skintone filter



34924.000 34934.000 34944.000 Daylight conversion filter



34920.000 34930.000 34940.000 Colour filter Magenta



34921.000 34931.000 34941.000 Colour filter Amber



34922.000 34932.000 34942.000 Colour filter Sky blue



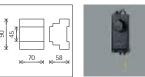
34923.000 34933.000 34943.000 Colour filter Night blue



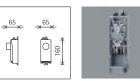
34901.000 34902.000 34903.000 Fixing frame for filters. Metal, graphit m, powder-coated.



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34964.000Cable junction box
Plastic, black.
Terminal block 2 of 5x2.5mm². 1 fuse
D01 E14 10A.
Weight 0.25kg



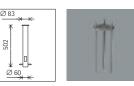
34965.000Cable junction box
Plastic, grey.
Terminal block 2 of 5x6mm². 1 fuse
D01 E14 10A.
Weight 0.55kg



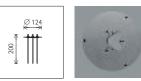
34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg



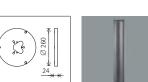
33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg



33980.000Concrete anchor
Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site.
Weight 0.30kg



33982.000
Mounting plate
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Graphit m,
double powder-coated.
Weight 1.70kg



34962.000
Post
Metal, hot-dip galvanised. Graphit m, double powder-coated.
Mounting plate: metal.
5-pole terminal block for cable 5x2.5mm². Through-wiring possible.
3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire.
Weight 5.60kg

Parscoop Accessories





34963.000 Post for adapter sleeves. Metal, hot-dip galvanised. Graphit m, double powder-coated. Mounting plate: metal. 5-pole terminal block for cable 5x2.5mm². Through-wiring possible. IP44 protection mode when used with relevant accessories. Not for concrete anchor 33980.000 and mounting plate 33982.000. Weight 1.50kg





34958.000 Adapter sleeve for poles ø 76mm and cantilever arms.

Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-

coated. Screw fixing. Terminal block 5x2,5mm². Through-wiring possible. 2 cable entries for cantilever arms. Protection mode IP44 only with ac-

cessories.
Cantilever arms to be ordered separ-

Poles ø 76mm to be ordered separately. Weight 3.80kg



34959.000

Adapter sleeve

cantilever arms.

ordered separately.

Weight 3.20kg

cessories.



for posts ø 89mm and cantilever arms.

Housing and cover: corrosion-resistant cast aluminium, No-Rinse surface

treatment. Graphit m, double powder-

coated. Screw fixing. Terminal block 5x2,5mm². Throughwiring possible. 2 cable entries for

Protection mode IP44 only with ac-

Posts ø 89mm and cantilever arms to be





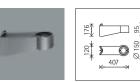


34960.000 Adapter sleeve for poles ø 76mm. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Screw fixing.
3-pole terminal block for control line.
Through-wiring possible.
Luminaire rotatable through 360°.
Protection mode IP44 only with mounted luminaire. Weight 2.55kg















34961.000 Adapter sleeve for posts ø 89mm. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Screw fixing. 3-pole terminal block for control line. Through-wiring possible. Luminaire rotatable through 360°. Protection mode IP44 only with mounted luminaire. Weight 1.95kg

Cantilever arm For mounting on adapter sleeve or wall. For standing luminaire installation. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Inspection cover: corrosion-resistant aluminium, double powder-coated in graphit m. 1 cable entry. 3-pole terminal block for

control line. Luminaire rotatable through 360°. Protection mode IP44 in connection with mounted luminaire. Weight 3.55kg

34957.000 Side-mounted sleeve For mounting on adapter sleeve. Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.
Graphit m, double powder-coated.
1 cable entry. 3-pole terminal block for control line. Luminaire rotatable through 360°. Protection mode IP65 only with mounted luminaire. Weight 0.90kg



Postoffice tower, Deutsche Post AG, Bonn. Architect: Murphy Jahn Inc., Chicago. Lighting designer: L-Plan Lichtplanung, Michael F. Rohde, Berlin.

Facade luminaires



Vertical surfaces in an urban setting contribute significantly to the spatial definition of squares, road axes and buildings. From the point of view of perception psychology and design, facade lighting thus is a key element in the night lighting concept for urban areas. Different types of facade require specific lighting concepts to bring out the qualities of the architecture. The wide range of facade luminaires allows for a variety of lighting solutions that range from grazing light on facades to pathway lighting.



Facade luminaires



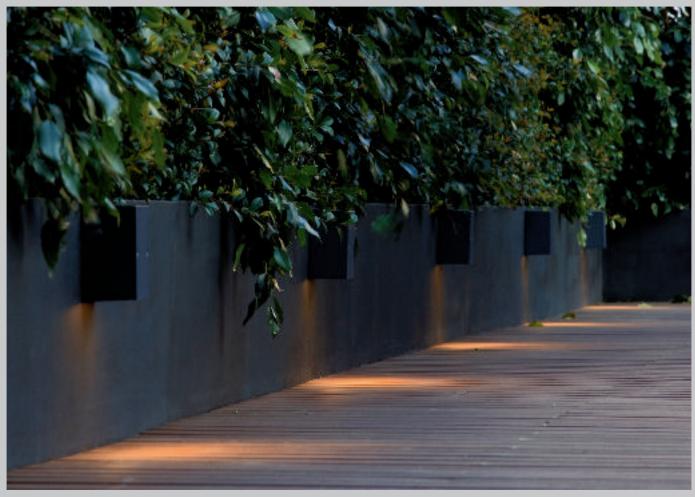
New in the program



Kubus 927

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Kubus



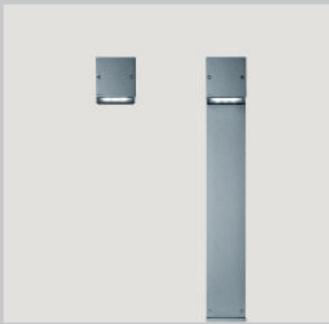
ide lamps. The double cable entry at the mounting place enables efficient through-wiring on site. Fundacion Francisco Godia, Barcelona. Architect: Jordi Garces, Barcelona.

927

The outdoor luminaires of the Kubus range feature powerful light sources in extremely compact, discreet packaging - true to ERCO's maxim of "Light, not luminaires". The design of the Kubus range works universally with square housings using different lighting technologies to accentuate facades, illuminate pathways near buildings or to assist orientation in open areas by using bollard luminaires. The safety glasses fitted within the luminaires produce flush surfaces that are easy to clean. By using recessed housing versions, the Kubus can be discreetly integrated into architecture. The combination of reflectors/lenses for Kubus luminaires results in precise and efficient light emissions without spill light and ensures optimum visual comfort. Two lighting technologies for the floor washlights meet different requirements: for pathway lighting, the oval, long light beam parallel to the pathway marks the way as a band of light.

The Floor washlights for open area lighting by contrast direct their light onto a larger area in front of the wall to create required light for areas such as entrances or terraces. The facade luminaires, on the other hand, produce grazing light which is directed upward. High-power LEDs of 3 x 1W with compact housing dimensions produce excellent lighting effects. Higher illuminances are achieved with versions fitted with metal hal-

Kubus



Kubus pathway and facade luminaires meet the requirements of protection mode IP65 making them suitable for outdoor use. The housings are provided with a special treatment which is followed by a double powder-coating in Graphit m. The lens system of the luminaires is fitted with a safety glass to protect them against the ingress of dust and dirt. The control gear is integral to the luminaire housings. A wide variety of accessories for in-ground installation and mounting on or in the wall are available, including concrete anchor, upright supporting tube, recessed housing or recessed mounting plate.

Floor washlights



The square Kubus floor washlights are available with different light distribution patterns. The first version uses a sculpture lens for the LED module to produce a wide beam light distribution for pathway lighting. For open area lighting a version produces a beam of light projecting deep into an area through a prism lens. Both versions are available with high-power LEDs or 20W metal halide lamps.

Application

Asymmetrical light distribution with wide beam characteristics parallel to the luminaire for lighting pathways and entrances. Alternatively flat beam, asymmetrical light distribution with a wide beam for the lighting of driveways and squares.

Facade luminaires



Used in combination with a Softec lens, the square Kubus facade luminaires in LED module version produce upward grazing light. The version for 20W metal halide lamps has a reflector/lens to direct the wide-beam grazing light onto the façade. An anti-dazzle element acts as a shield preventing direct glare.

Application

Asymmetrical light distribution for the illumination of vertical surfaces including walls and facades to highlight lettering on buildings.

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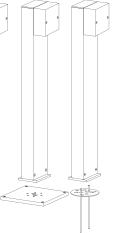
Kubus



The floor washlights can be installed on buildings, but can also be mounted on a post made of corrosion-resistant cast aluminium for positioning in open areas.



The Kubus can be mounted to suit any situa tion using ERCO's range of acces-sories: a mounting plate, a post, a base, and a concrete anchor.



Depending on the required characteristics, there are various mounting alternatives. All Kubus luminaires can be used on walls as surface-mounted versions.



Kubus floor washlights can also be mounted on a post available as an accessory and freely positioned in an area for use as a bollard luminaire.



The floor washlights are also suitable for flush wall mounting using the recessed housing or mounting tray available as accessories.

The Kubus floor washlights can be used for both pathway lighting and for the illumination of open areas. The lens system of the LED floor washlight for pathway lighting spreads the beam to produce a distinct oval pattern parallel to the wall. The Softec lens as lamp cover thus produces a soft luminance gradient. Contrary to the Kubus floor washlights for pathway lighting, the floor wash-lights for open area illumination emit the light deeper into the room. A small component of light also illuminates the wall below the luminaire to produce an eyecatcher on the building.













The lighting technology of the Kubus facade luminaire in the LED version produces a narrow beam of grazing light directed upwards on the wall. The variant with metal halide lamp, on the other hand, emits wide-beam grazing light onto the facade.

929

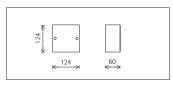
Kubus Floor washlight with LED





33364.000 Graphit m LED daylight white LED 3.3W 300Im 5500K Version 3 Sculpture lens Housing temperature 34°C Temperature on the light aperture 35°C

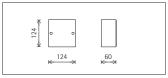
Housing and wall plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.
Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.
Replaceable LED module: high-power LEDs on metal-core PCB. Collimating lens, plastic, clear.
Softec lens as safety glass.
Protection mode IP65: dust-proof and water jet-proof.
Accessories page 931







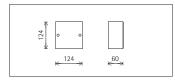
33365.000 Graphit m LED warm white LED 3.3W 240lm 3300K Version 3 Sculpture lens Housing temperature 34°C Temperature on the light aperture 35°C







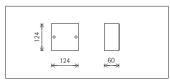
33366.000 Graphit m LED daylight white LED 3.3W 300lm 5500K Version 3 Prism lens Housing temperature 34°C Temperature on the light aperture 35°C







33367.000 Graphit m LED warm white LED 3.3W 240lm 3300K Version 3 Prism lens Housing temperature 34°C Temperature on the light aperture 35°C







Kubus Floor washlight for metal halide lamps



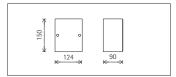


33519.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Housing temperature 55°C Temperature on the light aperture 77°C

Weight 1.73kg LMF E 日本 **%** © **A A I**P65

Housing and wall plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.
Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.
Reflector: aluminium, silver, satin-matt anodised.
Spread lens as safety glass.
Protection mode IP65: dust-proof and water jet-proof.

Accessories see below







Kubus Accessories

	34	31A,000	329.000	24.00°	332.00	26,00	335	25.00	375.00	319.00	333	553,000
33364.000	•							•	•	•	•	
33365.000	•							•	•	•	•	
33366.000	•	•		•		•		•	•	•	•	
33367.000	•	•		•		•		•	•	•	•	
33519.000	•		•		•		•	•	•	•	•	

100



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ◆ ▲ 3mIP68



33329.000
Concrete housing
Plastic.
2 cable entries.
Recommended 0-8mm aggregate for the concrete.
Recessed mounting plate to be ordered separately.
Weight 0.79kg



Concrete housing
Metal, hot-dip galvanised.
2 cable entries.
Recommended 0-8mm aggregate for the concrete.
Recessed mounting plate to be ordered separately.
Weight 3.50kg



3332.000
Housing for recessed mounting for recessed mounting in brickwork. Plastic.
2 cable entries.
Recessed mounting plate to be ordered separately.
Weight 0.35kg

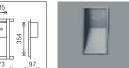
Kubus Accessories





33526.000

Housing for recessed mounting for recessed mounting in brickwork. Corrosion resistant stainless steel. 2 cable entries. Recessed mounting plate to be ordered separately. Weight 1.00kg





33362.000

Recessed mounting plate for concrete housings and housings for recessed mounting. Metal, graphit m, powder-coated. 2 cable entries. Concrete housings and housings for recessed mounting to be ordered separ-Weight 0.25kg



33525.000 Recessed mounting plate

for concrete housings and housings for recessed mounting. Metal, graphit m, powder-coated. 2 cable entries. Concrete housings and housings for recessed mounting to be ordered separ-

Weight 0.39kg



Ø 83

33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg













33979.000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site. Weight 0.25kg



33363.000

Post Aluminium profile, No-Rinse surface treatment. Double powder-coated. Base plate for mounting on ground socket, concrete anchor or mounting plate: cast aluminium.
2 screwed cable glands M20.
Mounting accessories to be ordered separately. Weight 2.70kg

Kubus Facade luminaire with LED





Housing and wall plate: corrosionresistant cast aluminium, No-Rinse surface treatment. Double powdercoated. Optimised surface for reduced accumulation of dirt. Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Collimating lens, plastic, clear. Softee lens as safety glass. Protection mode IP65: dust-proof and

33368.000 Graphit m LED daylight LED 3.3W 300lm 5500K Version 3 Housing temperature 34°C Temperature on the light aperture 35°C Weight 0.88kg LMF E **K**05 PC ♠ ▲ ▲ IP65

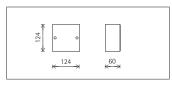


water jet-proof.





33369.000 Graphit m LED warm white LED 3.3W 240Im 3300K Version 3 Housing temperature 34°C Temperature on the light aperture 35°C Weight 0.88kg LMF E **₹**05 **P**C ♠ ▲ ▲ IP65



124





Kubus Facade luminaire for metal halide lamps





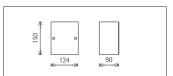
33520.000 Graphit m ECG HIT-TC-CE 20W GU6.5 1615lm Housing temperature 52°C Temperature on the light aperture 88°C

Housing and wall plate: corrosion-

Housing and wall plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.
Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.
Reflector: aluminium, silver, satin-matt anodised. Anti-dazzle cover: aluminium, black powder-coated. Optimised lamp screening ensures no direct light emission.
Sculpture lens as safety glass.

Sculpture lens as safety glass.

Protection mode IP65: dust-proof and water jet-proof.







Fundacion Fran-cisco Godia, Barcelona. Architect: Jordi Garces, Barcelona.



933

Axis Walklight



The combination of an advanced LED light source and ERCO's experience with glare free systems for light direction created the Axis walklight. This is an innovative tool for the lighting of stairways and paths with unequalled power and visual comfort. The Axis walklight is installed in stairways or walls. Its flat and wide beam illuminates paths or steps all the way to the edge. An LED module, the actual light source, is completely concealed from view for optimum visual comfort. Only a slight brightness on the rectangular, lens-like cover glass reveals the light emis-

The Axis Walklight is suitable for both outdoor and indoor use. Housings and cover frames have a special coating over which a double powder-coating in Graphit m is applied. Using the recessed housing, each individual luminaire can be accurately positioned before the construction of the steps or pathway is completed. The light to illuminate steps or paths is produced using the asymmetrical reflectorlens system. In this system, the LED module is concealed, irrespective of the observer's position. A Softec lens acting as safety glass projects the light all the way to the edge of the tread and therefore provides an excellent illumination of the edges of steps or paths. The LED module itself provides excellent light distribution to illuminate wide steps. Coverage and illuminance of

the area to be lit depends on the mounting height.

The luminaire never needs servicing; the LED module with daylight white or warm white lamps is highly efficient and has an exceptionally long service life. The robust, multilayer powder-coated housing offers excellent protection and the mains connection of the Axis walklights guarantee fast and easy installation. In the Axis product range the Axis varychrome walklight is especially noteworthy. Due to the LED module with RGB technology a wide range of light colours can be changed dynamically and continuously. This establishes new and exciting creative possibilities in architecture. Control is carried out individually or via a separate control gear with analogue control inputs. The DALI-compatible luminaires feature digital control gear, which can address each luminaire individually or in groups of up to eight, for instance, using the ERCO Light System DALI and the preprogrammed ERCO Light Studio software.

Czartoryski Square, Krakow. Architect: Biuro Projektów Lewicki Latak, dr inz. Piotr Lewicki, inz. Witold Opalinski.

934 ERCO Program 2010/11 www.erco.com

Axis Walklight



The Axis Walklight is suitable for both outdoor and indoor use. Housings and cover frames have a special coating over which a double powder-coating in Graphit m is applied. Using the recessed housing, each individual luminaire can be accurately positioned before the construction of the steps or pathway is completed. The light to illuminate steps or paths is produced using the asymmetrical reflectorlens system. In this system, the LED module is concealed, irrespective of the observer's position. A Softec lens acting as safety glass projects the light all the way to the edge of the tread and therefore provides an excellent illumination of the edges of steps or paths. The LED module itself provides excellent light distribution to illuminate wide steps. Coverage and illuminance of the area to be lit depends on the mounting height.

Walklight



Axis Walklight is available in daylight white version with a colour temperature of 5500K or in warm white with 3500K.

ApplicationAsymmetric light distribution for lighting pathways and stairs.

Walklight, varychrome



Characteristic of the varychrome version is the use of coloured LEDs (red, green and blue). Control gear is available as 1V-10V version for control via a conventional lighting control or as DALI versions for control with the ERCO Light System DALI. This allows almost limitless colours to be generated.

Application

Asymmetric light distribution with a multitude of light colours for identification and illumination of pathways and stairs.

935

In white or Varychrome, with maintenancefree LED technology: The Axis Walklight provides glarefree, attractive lighting of steps or pathways.



Axis Walklight

The Axis Walklight provides lighting for pathways, steps and landings. Concrete housings are available for flush-mounting installations in stairs or walls. Due to the use of LEDs, these luminaires provide very economical lighting.

The high protection mode IP65 and the operation of mains voltage make the luminaire particularly easy to install and maintenance-free. The IP68-rated varychrome version must be operated via a separate controller.

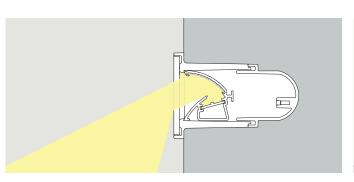
separate controller.

Because the direct component of the light from the LEDs is shielded, this is a totally indirect lighting system. This ensures very high glare control and good visual comfort. The luminous flux of the LEDs is defined by the reflector. The reflector produces a wide-spread light distribution across the step. However, the front lens surface maintains a low luminance. Glass and housing are bonded together, this ensures impenetrability and is in keeping with the minimalist design of the luminaire.

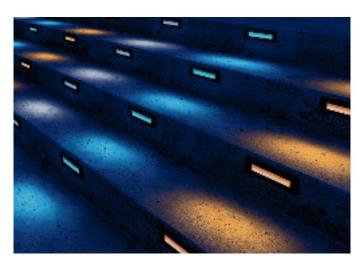




In addition to daylight white which has a colour temperature of 5500K, stairs can be illuminated using warm white at 3500K.





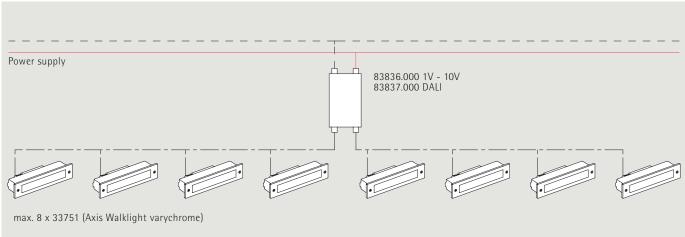


A maximum of eight Axis Walklights can be controlled via the control gear. This is available both as a 1V-10V version and as a DALI version. The control gear converts the input voltage of 230/240V into an output voltage of 3x24V for Pulse Width Modulation for the three LED colours of red, green and blue. The maximum cable length between a luminaire and a control gear is 10m.



The DALI-compatible luminaires feature digitally addressable control gear with which every single luminaire can be individually

controlled – i.e. using the ERCO Light System DALI and the pre-programmed ERCO Light Studio software.



Axis Walklight with LED





33750.000 Reflector silver LED daylight white LED 1.7W 230V AC 35Im 5500K

Weight 0.85kg LMF E 日本 **《** 企 C ♠ ▲ ▲ IP65

33733.000 Reflector silver LED warm

Weight 0.85kg LMF E LED 1.7W 230V AC 25lm 3500K 日本 🚳 🕸 🕑 ♠ ▲ ▲ IP65

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Fixing element: plastic. Clamp extension 7-20mm.

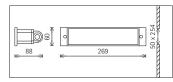
2 cable entries. Through-wiring possible.

3-pole terminal block.
Asymmetric reflector lens system: aluminium, silver anodised. Optimised screening for the LEDs ensures no direct light emission. Replaceable LED module. Cover frame with Softec lens: cor-rosion-resistant cast aluminium, graphit m double powder-coated.

Protection mode IP65: dust-proof and water jet-proof.

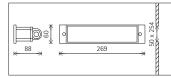
On sité protection must be provided using a residual current circuit breaker, Fl≦30mA.

Accessories page 938













Axis Walklight varychrome with LED







33751.000 Reflector silver LED red, green, blue LED 2.6W 24V DC 30Im

Weight 0.85kg LMF E **&** @ @ ♦
♦
♦ 3mIP68

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Fixing element: plastic. Clamp extension 7-20mm.

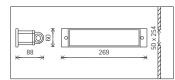
4-core cable, L 1500mm.

Asymmetric reflector lens system: aluminium, silver anodised. Optimised screening for the LEDs ensures no direct light emission.

Cover frame with Softec lens: corrosion-resistant cast aluminium, graphit m double powder-coated. The three LED colours red, green and blue are controlled by separate 24V DC control gear (common 24V, floating earth for PWM (Pulse Width Modulation)). Control gear to be ordered

separately.
Protection mode: IP68 3m, i.e. protection against the ingress of dust and against the effects of continuous immersion in water up to a maximum depth of 3m.

Accessories page 938







Primary	colours	LED module	
Colour	Φ (Im)	λ(nm)	S(%)
Red	10	615-625	99
Green	17	520-530	77
Blue	3	460-470	96

Axis Walklight Accessories

	\$5°	836,00	831,000	38.00 3A	31 ^{A,00} 33	132,000
33733.000				•	•	
33750.000				•	•	
33751.000	•	•	•	•	•	

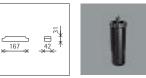














83836.000 Control gear

for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum.

Input voltage 230/240V AC, 3x1V-10V

Output voltage 2x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and

water jet-proof. Weight 0.90kg

83837.000

DALI control gear

DALI control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum. Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and votor ict. proof.

water jet-proof. Weight 0.85kg

83838.000 DALI DALI control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation

8 AXIS Walkinghts of 10 LED orientation luminaires maximum. Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Weight 0.16kg

%' 🗀 🖤

Distribution box, IP68 With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm. Weight 0.47kg

34974.000





33732.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 0.55kg



Federal Environment Office, Dessau: Axis Walklight as energy saving, mainten-ancefree step lighting in the auditorium. Architects: Sauber-bruch Hutton, Berlin.



Nasjonalmuseet for kunst, arkitektur og design (Museum of Architecture), Oslo. Architect: Prof. Arch. Sverre Fehn, Oslo.

939

The Visor range includes recessed wall installations for lighting open areas and pathways. The common design feature of the Visor range is a semi-circular cover glass. As a light source, the Visor luminaires are discreet and provide high visual comfort. When installed at the correct height, Visor luminaires ensure glare-free light for passers-by or road users, as they emit almost no light above the horizontal. Only an unobtrusive refraction of light from the sculpture lens indicates that the light source is switched on. The reflector system with sculpture lens ensures an excellent illumination of outdoor areas such as public squares, courtyards, terraces, footpaths or driveways. An anti-dazzle cover for the low-voltage halogen lamps and metal halide lamps conceals the lamp from direct view. Visor luminaires fitted with compact fluorescent lamps emit a broader beam directly below, i.e. from the mounting surface, making them ideal for pathway lighting.
The design of the Visor lumin-

The design of the Visor luminaires with round stainless steel cover and the semi-circular front lens provide a consistent appearance. The IP65 protection mode guarantees optimum protection against dust and humidity for the lamps and optical systems. The recessed wall luminaires can also be used in indoor areas, where, in addition to protection against moisture, dust-proofing is also required.

Visor



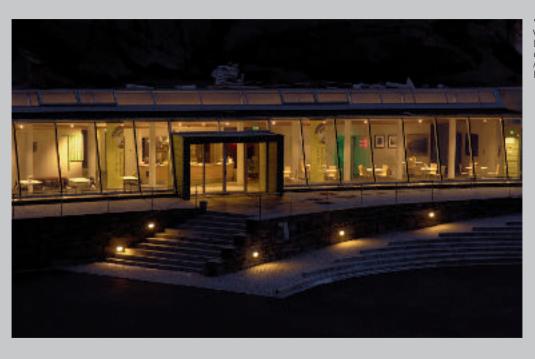
Floor washlights



By contrast, Visor luminaires with compact fluorescent lamps with a wide beam light distribution only illuminate the area immediately in front of the luminaires. This version can be recognised by their evenly illuminated cover glass. Transformers, control gear or ECGs are mounted inside the luminaire housings.

Three housing sizes are available for use in brickwork or cavity wall installation. Visor I to Visor III can be fitted with low-voltage halogen lamps, metal halide lamps or compact fluorescent lamps. Con-crete housings and plaster rings are available as accessories for wall mounting.

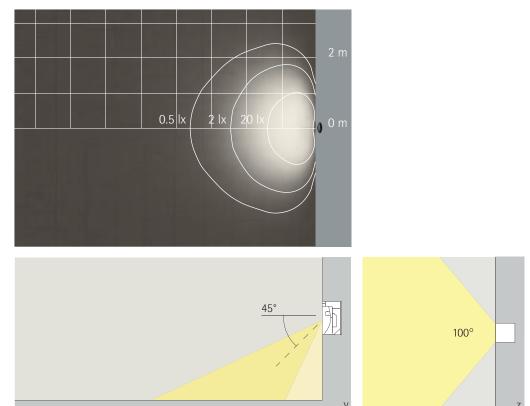
Application With low-voltage halogen lamps and metal halide lamps: extremely flat, narrow beam light distribution to provide wide-spread lighting on driveways, pathways and squares. With compact fluorescent lamps: wide beam light distribution for lighting on pathways, entrances and areas near to walls.



"Lindesnes Fyr" Visitor's centre, Lindesnes. Architect: Basis Arkitekter AS, Kristiansand.

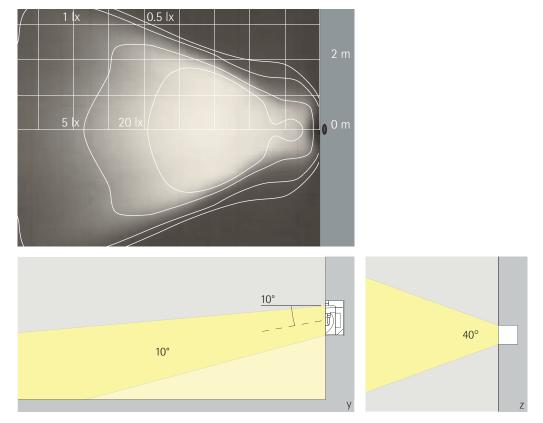
Visor

Pathway luminaires In pathway luminaires, the lamp is concealed from the direct view of observers from all positions resulting in good visual comfort. The spread lens extends the beam so that paths can be uniformly lit along their length.



Open area luminaires

In contrast to the pathway luminaire with its wide light distribution, the open area luminaire projects light far forward up to approx. 8m away. The lamp is shielded by a vertically-mounted anti-dazzle cylinder.



941

Visor I Floor washlight for low-voltage halogen lamps



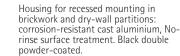
33300.000 Reflector silver

QT9-ax 20W 12V G4 320Im

Temperature on the light aperture



Weight 1.30kg LMF E 日本 **《** © © ② **(**) **(**) IP65



Mounting by means of an adjustable bar. Clamp extension 1-25mm. Predrilled holes in the base of the housing. Electronic transformer 230/240/12V. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Asymmetric reflector system: aluminium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission. Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt.
Use dimmers for electronic transformers (trailing edge).

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 944







Visor II Floor washlight for low-voltage halogen lamps



QT12-ax-RE 50W 12V GY6.35 1250lm Temperature on the light aperture 90°C



Weight 4.20kg LMF E

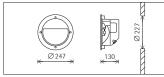
Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, Norinse surface treatment. Black double powder-coated.

Mounting by means of an adjustable bar. Clamp extension 1-35mm. Predrilled holes in the base of the housing. Safety transformer 230/12V. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission.

Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 944





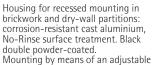


Visor II Floor washlight for metal halide lamps





33306.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650lm Temperature on the light aperture 60°C



Mounting by means of an adjustable bar. Clamp extension 1-35mm. Predrilled holes in the base of the housing. Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission.

Ø 227

130

HIT-TC-CE



Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 944

Visor II Floor washlight for compact fluorescent lamps





33301.000 Reflector silver ECG TC-DEL 10W G24q-1 600lm Temperature on the light aperture 40°C



Weight 3.30kg LMF E 日本 優⁵ №

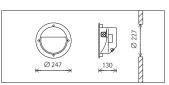
♠ ▲ ▲ IP65

Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, Norinse surface treatment. Black double powder-coated.

Mounting by means of an adjustable bar. Clamp extension 1-35mm. Predrilled holes in the base of the housing. Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver, satin matt anodised. Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 944







Visor III Floor washlight for metal halide lamps





33304.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Temperature on the light aperture 60°C

Weight 3.70kg LMF E **%**05 @ **@** ♠ ▲ ▲ IP65

33305.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 70°C Weight 4.70kg LMF E **₹**05 €

♠ ▲ ▲ IP65

Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, No-rinse surface treatment. Black double powder-coated.

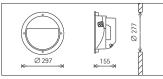
Mounting by means of an adjustable bar. Clamp extension 1-35mm. Predrilled holes in the base of the housing. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission

Screw-fastened cover with sculpture

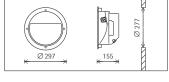
lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt Protection mode IP65: dust-proof and water iet-proof.

Accessories page 944













Visor III Floor washlight for compact fluorescent lamps





33303.000 Reflector silver ECG TC-DEL 18W G24q-2 1200lm Temperature on the light aperture 40°C

Weight 3.80kg LMF E 日本 ❸ ◎ ♠ ▲ ▲ IP65

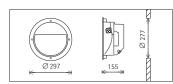
Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, Norinse surface treatment. Black double nowder-coated

Mounting by means of an adjustable bar. Clamp extension 1-35mm. Predrilled holes in the base of the housing. Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver, satin matt anodised. Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel. Optimised surface for reduced accumulation of dirt. Protection mode IP65: dust-proof and water jet-proof.

943

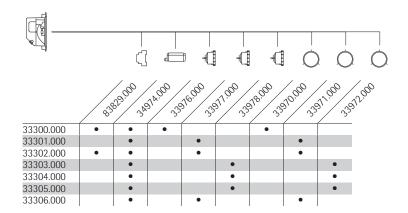
Accessories page 944





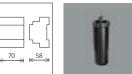


Visor Accessories

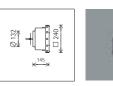


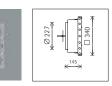












83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm. Weight 0.47kg ♦ ♦ \$3mIP68

33976.000 Concrete housing
Metal, galvanised.
Recommended 0-8mm aggregate for
the concrete.
Weight 3.60kg

33977.000 Concrete housing Metal, galvanised. Recommended 0-8mm aggregate for the concrete. Weight 4.50kg







33978.000 Concrete housing Metal, galvanised. Recommended 0-8mm aggregate for the concrete. Weight 8.00kg

33970.000 33971.000 33972.000 Plaster ring Metal, white.

Lightmark



ERCO's outdoor lighting product range features the combination of archetypal shapes with highly advanced lighting technology. Lightmark floor washlights and facade luminaires comprise a series of small, yet distinctive models with different lighting technology. This provides lighting designers and architects with a wide range of new design possibilities for lighting of pathways, open areas and facades. The robust aluminium housings with protection mode IP65 are multilayer powder-coated. Further features of the Lightmark luminaires include asymmetrical light distribution and effective anti-glare protection.

The dark sky technology maximises visual comfort and prevents light from being emitted above the horizontal. Light sources include low-voltage halogen lamps, tungsten halogen lamps, high-pressure discharge lamps and compact fluorescent lamps. Depending on the version, Lightmark floor washlights produce wide beams of light which are ideal for lighting pathways, or beams that penetrate deep into an area, which are effective in illuminating open spaces such as public squares or terraces.

Through an innovative reflectorlens system, Lightmark facade luminaires set relatively close to a facade can illuminate an extremely large facade area above the luminaire. This produces an attractive grazing light effect, both above and below the luminaire if it has double-sided light apertures. Provided it is mounted accurately, spill light can be prevented from being emitted into the night sky.

Yachtklub hotel, Kiel. Architect: Nagel & Partner Architekten BDA, Kiel; Bendfeldt Hermann Franke BDLA, Kiel. Lighting design: team licht, Felsch Giesecke Gbr, Hamburg

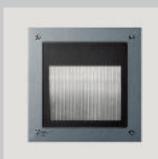
945

Lightmark



Due to the protection mode IP65, the Lightmark floor washlights and facade luminaires are suitable for outdoor use. The housings are provided with a special coating. Over this, a double powder-coating in Graphit m is applied. Control gear or ECGs are mounted inside the luminaire housings. This applies also to the electrical equipment. The mirror-finish reflectors are silver anodised aluminium. The lens system of the luminaires is fitted with a safety glass to protect the luminaires against the ingress of dust and dirt.

Floor washlights



Lightmark floor washlights are available in two different light distribution patterns. The light distribution of the floor washlights for pathway lighting is produced using an asymmetrical reflector/lens system. In this system, the lamp is not visible, irrespective of the observer's position. A lens spreads the width of the beam so that pathways can be evenly illuminated. Lightmark floor washlights for open area lighting use an asymmetrical reflector-flood lens system. A sculpture lens, acting as a safety glass, projects the light deep into the area. The lamps are shielded by a vertically suspended anti-dazzle cover clearly visible through the cover glass. The Lightmark floor wallwashers for open area lighting and for pathway lighting are clearly differentiated by the appearance of their cover glass. The accessories available for the floor washlights include frames for surface mounting and concrete

housings. Lamps available are: lowvoltage halogen lamps of 50W/12V, metal halide lamps up to 35W and compact fluorescent lamps of 18W.

ApplicationExtremely flat light distribution penetrating deep into an area, to provide wide-spread lighting on driveways, pathways and squares, or wide beam light distribution for the lighting of pathways, entrances and areas adjacent to walls.

Facade luminaires



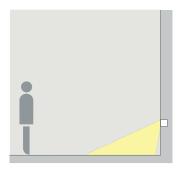
Lightmark luminaires with singlesided light apertures, produce the light distribution for facade lighting using an asymmetric reflector-lens system. Double-ended tungsten halogen lamps up to 150W or metal halide lamps 35W are available. A spread lens provides a wide distribution so that walls and facades can be flooded with light. Lightmark facade luminaires can be installed using mounting frames, which are available as accessories. The increased offset from the facade gives a larger area of illumination compared to luminaires without mounting frames. For double-sided use, Lightmark facade luminaires with front lens on both sides are available. The

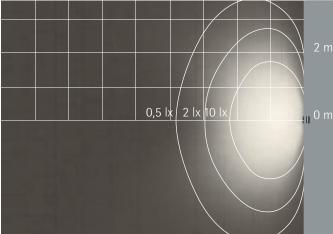
reflector technology required to achieve double-sided light emission increases the luminaire height. Double-ended tungsten halogen lamps to 300W or metal halide lamps up to 70W are to be used.

Wide beam light distribution for lighting facades and lettering.

Lightmark

Pathway lighting
In pathway luminaires, the lamp
is hidden from the direct view of
observers from all positions resulting in good visual comfort. The spread lens extends the beam so that paths can be uniformly lit along their length.

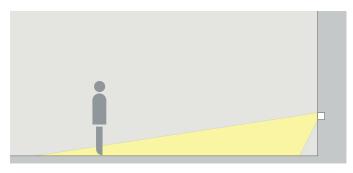


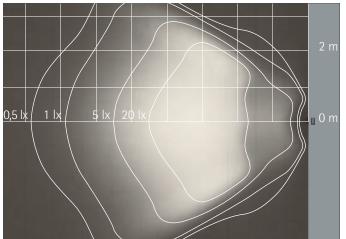


The soft-edged beam creates a beam creates a pleasant transi-tion from bright to darker surround-ings. The gentle gradient of the beam improves perception, as the eye requires less adantation less adaptation between signifi-cant contrasts.

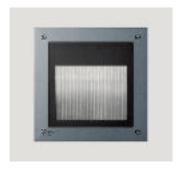
947

Open area lighting In contrast to the pathway luminaires with their wide light distribution, the open area lumi-naires with sculpture lenses project light far forward. The lamp is shielded by a vertically-mounted anti-dazzle cylinder.





Lightmark Floor washlight Pathway lighting for low-voltage halogen lamps





33377.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Temperature on the light aperture 56°C

Weight 4.16kg LMF E ♠ ▲ ▲ IP65

Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated.

Mounting with 4-point support and screw fixing. Clamp extension 5-33mm. Pre-drilled holes in the housing frame. Electronic transformer 230/240/12V. 2 cable entries. Through-wiring possible. 5-pole terminal block

Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light emission.

Cover plate with sculpture lens as safety glass: corrosion-resistant cast aluminium, silver double powder-coated. Optimised surface for reduced accumulation of dirt.

Use dimmers for electronic transformers (trailing edge).
Protection mode IP65: dust-proof and

Accessories page 950

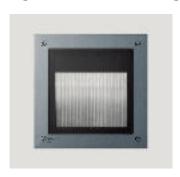
water iet-proof.







Lightmark Floor washlight Pathway lighting for metal halide lamps





33376.000 Reflector silver ECG HIT-TC-CE 20W GU6.5 1615lm Electronic control gear Temperature on the light aperture 40°C Weight 4.20kg LMF E ♠ ▲ ▲ IP65

33370.000 Reflector silver ECG HIT-CE 35W G12 3500lm Electronic control gear. Temperature on the light aperture 52°C

33371.000 Reflector silver HIT-CE 35W G12 3300lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 58°C

Weight 4.28kg LMF E ♠ ▲ ▲ IP65

Weight 5.13kg LMF E ♠ ▲ ▲ IP65

Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated.

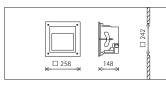
Mounting with 4-point support and screw fixing. Clamp extension 5-33mm. Pre-drilled holes in the housing frame. 2 cable entries. Through-wiring possible. 5-pole terminal block

Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light

Cover plate with sculpture lens as

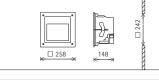
safety glass: corrosion-resistant cast aluminium, silver double powdercoated. Optimised surface for reduced accumulation of dirt.
Protection mode IP65: dust-proof and water jet-proof.

Accessories page 950



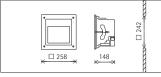








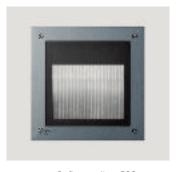








Lightmark Floor washlight Pathway lighting for compact fluorescent lamps





33374.000 Reflector silver ECG TC-DEL 18W G24q-2 1200lm Temperature on the light aperture 37°C



♠ ▲ ▲ IP65

Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated.

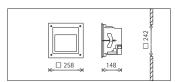
Mounting with 4-point support and screw fixing. Clamp extension 5-33mm. Pre-drilled holes in the housing frame. Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light emission.

Cover plate with sculpture lens as safety glass: corrosion-resistant cast aluminium, silver double powdercoated. Optimised surface for reduced accumulation of dirt.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 950







Lightmark Floor washlight Open area lighting for metal halide lamps





33372.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Temperature on the light aperture 52°C Weight 4.17kg LMF E ♠ ▲ ▲ IP65

33373.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 58°C Weight 5.02kg

LMF E **%**05 PC

♠ ▲ ▲ IP65

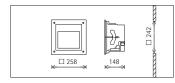
Housing for recessed mounting in brickwork and dry-wall partitions: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting with 4-point support and

screw fixing. Clamp extension 5-33mm. Pre-drilled holes in the housing frame. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector-flood system: aluminium, silver, mirror-finish anodised. Anti-dazzle cover: metal. No direct light emission.

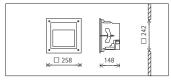
Cover plate with sculpture lens as

safety glass: corrosion-resistant cast aluminium, silver double powdercoated. Optimised surface for reduced accumulation of dirt.
Protection mode IP65: dust-proof and water jet-proof.
Accessories page 950













Restaurant Bistro Lyonel, Neu-Isenburg. Architect: Tom Eisenbach, Frankfurt



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Lightmark Accessories

	838	3A9,000	374.000	378.000	19,00
33370.000		•	•	•	
33371.000		•	•	•	
33372.000		•	•	•	
33373.000		•	•	•	
33374.000		•	•	•	
33376.000		•	•	•	
33377.000	•	•	•	•	



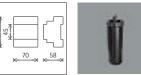
DALI dimmer 1000W

Mounting on DIN rail. Weight 0.18kg

for ohmic loads, conventional and electronic transformers.

83829.000





34974.000 Distribution box, With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm. Weight 0.47kg



33378.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 3.99kg

200 317

242



33379.000 Plaster frame Corrosion resistant stainless steel, white powdercoated. Weight 0.45kg

Lightmark Facade luminaire with single-sided light emission for tungsten halogen lamps





33380.000 Graphit m QT-DE12-RE 120W 230V R7s L75mm Housing temperature 99°C Temperature on the light aperture 103°C

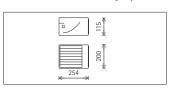


Luminaire housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.

Wall plate: cast aluminium. 2 cable entries. Through-wiring possible.

5-pole terminal block. Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light

emission. Spread lens as safety glass. Protection mode IP65: dust-proof and water jet-proof.







Accessories page 952

Lightmark Facade luminaire with single-sided light emission for metal halide lamps





Weight 4.60kg LMF E

₹05 ∰ €

♠ ▲ ▲ IP65

33382.000 Graphit m ECG HIT-CE 35W G12 3500lm Weight 3.40kg LMF E 日本 **W** © Electronic control gear. Housing temperature 49°C Temperature on the light aperture 53°C ♠ ▲ ▲ IP65

33384.000 Graphit m HIT-CE 35W G12 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Housing temperature 54°C Temperature on the light aperture 58°C

Luminaire housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.

Wall plate: cast aluminium.

2 cable entries. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light emission.

Spread lens as safety glass. Protection mode IP65: dust-proof and water jet-proof.

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112





Accessories page 952

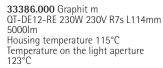






Lightmark Facade luminaire with double-sided light emission for tungsten halogen lamps







Weight 4.20kg LMF E 日本 ❸ ◎ ♠ ▲ IP65

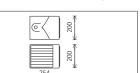
Luminaire housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt

Wall plate: cast aluminium.

2 cable entries. Through-wiring possible.

5-pole terminal block. Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light emission.

Spread lenses as safety glasses. Protection mode IP65: dust-proof and water jet-proof.







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www.erco.com

Lightmark Facade luminaire with double-sided light emission for metal halide lamps





33388.000 Graphit m ECG
HIT-DE-CE 70W RX7s 6500Im
Electronic control gear.
Housing temperature 55°C
Temperature on the light aperture 60°C

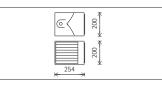
33390.000 Graphit m
HIT-DE-CE 70W RX7s 6500Im
Control gear with temperature controller, timer-ignitor, capacitor.
Housing temperature 62°C
Temperature on the light aperture 67°C

Luminaire housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.

Wall plate: cast aluminium. 2 cable entries. Through-wiring possible. 5-pole terminal block.

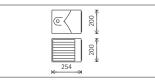
Asymmetric reflector-lens system: aluminium, silver anodised. Optimised lamp screening ensures no direct light emission.
Spread lenses as safety glasses.

Spread lenses as safety glasses. Protection mode IP65: dust-proof and water jet-proof. Accessories see below





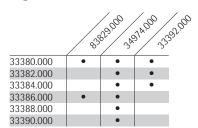








Lightmark Accessories





83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ♦ ♦ ♦ 3mlP68



33392.000 Graphit m
Cantilever
Corrosion-resistant cast aluminium,
No-Rinse surface treatment. Double
powder-coated.
Aluminium cover for concealed wiring.
Fixing screws for support frame.
Weight 1.50kg

200 115

Cylinder



Castell d'Alaquas, Valencia. Lighting design: Claude R. Engle, Chevy Chase.

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Lighting designers like to use façade-mounted luminaires both for general lighting immediately around buildings and to create lighting effects on the building itself. The Cylinder facade luminaires are powerful and flexible tools for these application. Cylinder facade luminaires are available in three sizes, identified by lamps and characteristics. All three share the basic cylindrical form with a rectangular wall plate and highquality IP65 housing made of cast aluminium with multiple powder coatings.

The smallest versions of this luminaire product group are fitted with low-voltage halogen reflector lamps. A Softec lens has been fitted to optimise the lighting quality of these lamps. A downlight version and an uplightdownlight version equipped with two lamps are available. The versions for low-voltage general diffuse halogen capsule lamps and for HIT-CE lamps both emit light upwards and downwards. Whereas the downlight component is guided by a Darklight reflector with high visual comfort, the smaller component of the lamp lumens is focused via a lens system and emitted upwards. This narrow beam of light should be tilted slightly towards the facade to achieve a grazing light effect. The beam angle can be adjusted in three settings.

Cylinder



Cylinder facade luminaires are suitable for both outdoor and indoor use. The housings are high-quality cast aluminium provided with a special coating, over which a double powder-coading in Graphit m is applied. The wall plate is used both for the electrical connection and for fixing to walls and facades. Three housing sizes are available for low-voltage halogen lamps or high-intensity discharge lamps. The choice is additionally between luminaires producing direct or direct/indirect emission. The high-quality reflectors are protected against the ingress of dust and dirt of any kind.

Facade luminaires



The small version of the Cylinder facade luminaire is only for a coolbeam lamp 35W/12V emitting light directly downwards. The mediumsized luminaire is suitable for direct or indirect emitted light. Designed either for two 50W/12V coolbeam lamps or a low-voltage halogen capsule lamp and a 20W metal halide lamp. The large version is only for metal halide lamps, up to 70W. The integral electronic control gear unit are mounted on the wall plate. A special feature of all Cylinder facade luminaires for capsule lowvoltage or highintensity discharge lamps is the use of the 3level adjustable Variolens. This allows three clearly defined upper light beam angles to be set. The downwards light emission is normally wide and not affected by the selected lens position. A Darklight reflector limits the cut-off angle to 30° below the horizontal plane. For lamp replacement, the lower cover ring with protective glass and reflector are

removed by releasing the securing

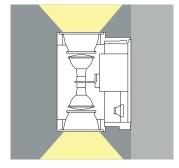
Application

Direct and direct/indirect light distribution for facade lighting, i. e. for emphasising entrances and architectural details.



Carlton Banks Mansion Hotel, Amsterdam. Lighting design: Today Design, Nieuwegein.

Cylinder



The medium and large-sized luminaire is suit-able for directly or indirectly emitted light.

The narrow-beam grazing light gives facades their own distinctive pat-terns of light.

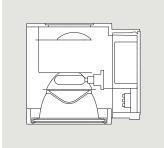


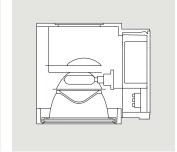














The small version of the Cylinder facade luminaire is intended exclusively to emit light vertically downwards.



The direct beam emphasises the lower area of a lower area of a building with grazing light on the facade sur-face and pools of light on the ground.



www.erco.com

Cylinder Facade luminaire direct lighting for low-voltage halogen lamps







Weight 2.50kg

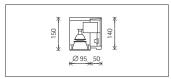
♠ ▲ ▲ IP65

LMF E 日本 **《** © ©

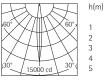
Size 2 30°

Housing and wall plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Housing removable for lamp replacement. Tamper-proof screw. 2 Cable entries. Through-wiring possible. 3-pole terminal block. 320/12V, 35-50VA safety transformer. Reflector: aluminium, silver, bright anodised. Softec lens. Lower safety glass. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 958







1 12000 0.17 2 3000 0.35 3 1333 0.52 4 750 0.70 5 480 0.87 h(m) E(Ix) D(m) 60°

E(lx) D(m)

QR-CBC51-RE

	h(m)	E(Ix)	D(m) 60°
60°	1	1144	1.15
	2	286	2.31
NAMA	3	127	3.46
	4	71	4.62
30° 1750 cd 30°	5	46	5.77

Cylinder Facade luminaire direct/indirect lighting for low-voltage halogen lamps



85023.000 Graphit m 2xQR-CBC51 35W 12V GU5.3 10° 2xQR-CBC51 35W 12V GU5.3 60°

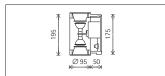




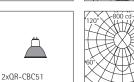
2 Cable entries. Through-wiring possible. 3-pole terminal block. 230/12V, 50-70VA safety transformer. Reflectors: aluminium, silver, bright anodised. Softec lenses. Protection mode IP65: dust-proof and water jet-proof. Accessories page 958

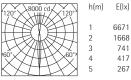
Housing and wall plate: corrosionresistant cast aluminium, No-rinse surface treatment. Double powdercoated. Optimised surface for reduced accumulation of dirt. Upper and lower

safety glass. Housing removable for lamp replacement. Tamper-proof screw.









D(m)

10°

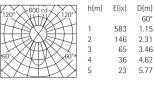
0.17

0.35

0.52

0.70

0.87



Cylinder Facade luminaire direct/indirect lighting for low-voltage halogen lamps







Weight 3.80kg

LMF E **%**05 @ PO ♠ ▲ ▲ IP65

Size 3 30°

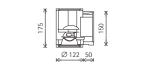
Housing and wall plate: corrosionresistant cast aluminium, No-rinse surface treatment. Double powdercoated. Optimised surface for reduced accumulation of dirt. Upper safety

2 Cable entries. Through-wiring possible. 3-pole terminal block. 230/12V, 75-100VA safety transformer. Vario-lens, adjustable, 3 levels for indirect light emission 8°, 15°, 30°.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser as lamp cover: glass, frosted. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp re placement. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 958

















Cylinder Facade luminaire direct/indirect lighting for metal halide lamps



85026.000 Graphit m ECG HIT-TC-CE 20W PGJ5 1650lm



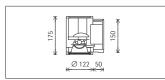
Size 3 30°

Weight 2.55kg LMF E **₹**05 <u>₩</u> P∂ ♠ ▲ ▲ IP65



glass. 2 Cable entries. Through-wiring possible. 3-pole terminal block. Electronic control gear. Vario-lens, adjustable on 3 levels for indirect light emission 8°, 15°, 30°. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser as lamp cover: glass, frosted. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 958











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Cylinder Facade luminaire direct/indirect lighting for metal halide lamps







Size 5

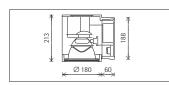
Housing and wall plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Upper safety glass.

glass.
2 Cable entries. Through-wiring possible.
3-pole terminal block.
Electronic control gear.
Vario-lens, adjustable, 3 levels for indirect light emission 8°, 15°, 30°.
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°.
Diffuser as lamp cover: glass, frosted.
Fixing ring with safety glass: corro-

sion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof.

Accessories see below











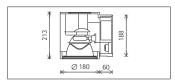






85028.000 Graphit m ECG HIT-CE 70W G12 7300lm









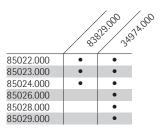








Cylinder Accessories





83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ♦ ♦ \$ 3mIP68

Focalflood



The illumination of facades with grazing light brings out the surface texture at night. A narrow beam light distribution has been developed for the Focalflood façade luminaire, allowing the light to graze the wall without causing unnecessary light pollution. A wide light distribution in the other direction ensures a uniform impression of brightness across the width of the wall when facade luminaires are mounted in a row. The use of LEDs results in a low connected power for relatively high luminous flux. The long service life of LEDs ensures economical lighting costs. The LED varychrome luminaires have a colour compensation feature to correct the manufacturing tolerances by calibrating the LED module. As a result, the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type. The DALI-compatible luminaires have digital control gear which can address each luminaire individually for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Museum Vitenfabrikken (Science Factory), Sandnes. Architect: Askim & Lantto AS, Oslo. Electrical engineering: Cowi AS, Stavanger.

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Focalflood



Focalflood facade luminaires are suitable for both outdoor and indoor use. The form of the luminaire housing is a miniature version of the Focalflood floodlight. Two mounting points facilitate the mounting of the luminaire on the wall and adjustable tilt. All visible metallic parts are specially coated, over which, a double powder-coating in Coating the special powder and the second ing in Graphit m is applied. The high-quality reflector system is protected against the ingress of dust and dirt of any kind. In ad-dition to the Varychrome version, the Focalflood facade luminaire is also available in daylight white and warm white.

Facade luminaires



The Focalflood facade luminaire is available with high performance LEDs. The LED varychrome luminaires have a colour compensation feature to correct the LED manufacturing tolerance . The lu-minaire's lens system has been optimised so that a narrow beam light distribution gives an efficient grazing light on the wall surface, while in the other direction a wide light distribution is produced. In the Varychrome version, different colours of light can be produced through RGB colour mixing technology. The necessary control gear is contained within the luminaire. The DALI compatible Varychrome facade luminaire can be controlled via the ERCO Light System DALI.

ApplicationNarrow beam light distribution for grazing light on façades, information boards and lettering. Wide light distribution for a uniform impression of brightness when mounted in a row.



Salt Mine Mu-seum, Wieliczka near Krakow. Architect: Akademia Sztuk Pieknych Krakow, Prof. Ma-ciej Radnicki.

Focalflood



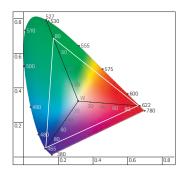
When mounted in a row along the building, the broad light distribution and its even gradient ensure uniform facade illumination



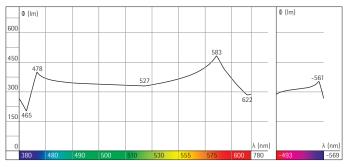
The Focalflood luminaire has a very narrow beam angle towards the wall and a wide light distribution along the wall, allowing the light to graze a wide area without producing any spill light.



In addition to the daylight white with a colour temperature of 5,500K, a warm white version is also available with a temperature of 3,200K. This allows the colour of light to be selected to optimally match the material colour.



Coloured LEDs have high saturation and therefore allow a large number of mixed colours to be produced. The line from the central white point to the RGB points serves as a scale for saturation. The numeric values on the outer edge of the curve indicate the wavelength.



The saturation diagram shows the mixed colours as wavelength λ with the saturation given as a percentage.

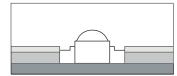
100

ERCO's varychrome LED luminaires have been optimised to produce high luminous flux with highly saturated light colours. The luminous flux diagram indicates the output of the LED module with respect to the wavelength.



The DALI-compatible luminaires have digital control gear which allows each luminaire to be individually addressed, for example by using the ERCO

Light System DALI with integral ERCO Light Studio software.



Like other lamps, high-power LEDs generate heat. To prevent the luminous flux and life of the lamp from decreasing drastically, the maximum junction temperature must not be exceeded even during continuous operation. ERCO places particular importance on heat management in its luminaires to ensure that the LED modules remain below the critical temperature range and operate at full output through-

out their lives. Mounting the LED module directly on metal-core PCBs effectively dissipates the heat to the luminaire housing. Extensive simulations and tests in the development phase ensure the success of the production procedures used.



LED versions: Due to the rapid technical development of the LED, the luminous flux increases steadily. ERCO records the resultant improvements as product versions on the luminaire's type label.

www.erco.com

ERCO Program 2010/11

Focalflood Facade luminaire with LED





34172.000 Graphit m LED daylight white 2xLED 12W 900lm 5500K Version 3

Maximum wind load area 0.05m²

34170.000 Graphit m LED warm white 2xLED 12W 725Im 3200K Version 3 Maximum wind load area 0.05m²

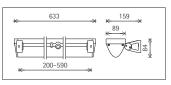
Weight 3.20kg **₹**05 **♠ ▲ ▲** IP65

Weight 3.20kg LMF E **₹**05 **♠ ▲ ▲** IP65 Housing: corrosion-resistant aluminium profile, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Screw-fastened end plates: corrosion-resistant cast aluminium. Two mounting brackets for positioning as required: corrosion-resistant aluminium. 135° tilt.

2 electronic control gear units. Connection cable, 3x1mm², L 1.5m. 3-pole terminal block. Replaceable LED module.

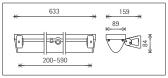
Axially symmetrical reflector lens system: aluminium, silver anodised. Optimised LED screening ensures no direct light emission. Front section with Softec lens: corrosion-resistant aluminium, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 963













Focalflood Facade luminaire varychrome with LED







Housing: corrosion-resistant aluminium profile, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt. Screw-fastened end plates: corrosion-resistant cast aluminium. Two mounting brackets for positioning as required: corrosion-resistant aluminium. 135° tilt.

Connection cable, 5x1.5mm², L 1.5m.

5-pole terminal block.
DALI control gear, with plug and play connectivity for ERCO varychrome colour mixing.
Replaceable LED module.

Axially symmetrical reflector lens system: aluminium, silver anodised. Optimised LED screening ensures no direct light emission. Front section with Softec lens: cor-

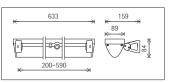
rosion-resistant aluminium, double powder-coated.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 963

34171.000 Graphit m LED red, green, blue DALI LED 20W 580lm Version 1 Colour compensation for precise light colour. Maximum wind load area 0.05m2

Weight 3.20kg ♠ ▲ ▲ IP65







Primary colours LED module				
Colour	Φ (Im)	λ(nm)	S(%)	
Red	210	620-625	99	
Green	276	525-530	77	
Dluo	0.0	4CF 470	0.7	

Focalflood Accessories





34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ♦ ♦ 3mIP68

Museo Superior de Bellas Artes Palacio Ferreyra, Cordoba. Architect: GGMPU Arquitectos, Cordoba.



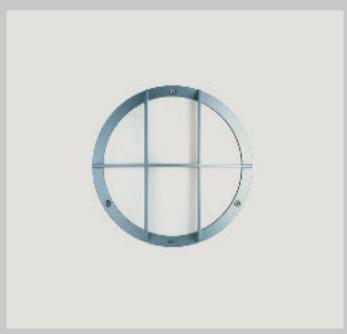
963

Site



Site is a range of luminaires for compact fluorescent lamps, with robust, impact-resistant plastic covers. Their striking form makes them architectural details in entrances and facades. For energy efficiency and extended maintenance cycles, these luminaires are designed for compact fluorescent lamps. Impact-resistant plastic and the additional protective grid provide vandal protection. Their higher protection mode of IP65 allows Site to be used in all areas of the building including outdoors. The diffuse light emission means that this source of direct lighting can be used both on ceiling and walls. The special lighting control produced by the half-covered, wall-mounted version provides good visual comfort and directs light to the floor.

Prof Krott residence, Ravensburg. Architect: Huber & Partner, Ravensburg.



As with all outdoor luminaires, the housings of the Site range are corrosion-resistant cast aluminium and have a special treatment which is followed by a double powder-coating in Graphit m or Silver m. Screw-on cover rings enclose the domed white plastic lamp covers. The range is available in three diameters and three versions: with smooth-surfaced covers, with protective grid and with a combined protective grid and half-shielded cover. Control gear or ECGs are contained within the luminaire.

Wall-mounted luminaires



When wall-mounted, the luminaires whose upper half is shielded by a cover only allow light to be emitted downwards. The light is therefore only directed to the floor and wall areas below the luminaires. Site wall-mounted luminaires are to be used with compact fluorescent lamps TC-DEL 18W or TC-TEL 26W and 42W.

Application

Asymmetric light distribution for many applications including garden and park lighting or for lighting the walls and ceilings of facades and entrances

Ceiling / wall-mounted luminaires



Ceiling and wall luminaires are each available with smooth-surfaced, domed covers or with cover rings with additional cast aluminium protective grids. A rotationally symmetrical diffuse beam is produced. For Site ceiling and wall-mounted luminaires, compact fluorescent lamps TC-DEL 18W up to TC-TEL 42W can be used.

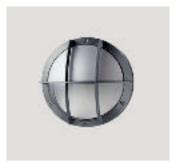
Application

Rotationally symmetrical light distribution for many applications including garden and park lighting or for lighting the walls and ceilings of facades and entrances.

Palais du Vin - Les Ateliers des Tanneurs, Brussels. Architect: Christophe Gillis, OZON Architecture, Brussels.



Site Wall-mounted luminaire for compact fluorescent lamps







Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.

Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control gear.

Reflector: metal, white (RAL9010) powder-coated. Cover: impact-resistant plastic, clear,

Cover: impact-resistant plastic, clear, half painted silver light-proof. Screw-fastened cover ring with protective grid: corrosion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 967















1



Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.

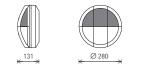
Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control gear.

gear. Reflector: metal, white (RAL9010)

powder-coated.
Cover: impact-resistant plastic, clear, half painted silver light-proof.
Screw-fastened cover ring with protective grid: corrosion-resistant cast aluminium, double powder-coated.
Protection mode IP65: dust-proof and water jet-proof.

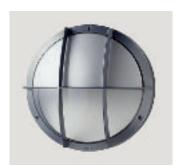
Accessories page 967











44570.000 Graphit m ECG **44549.000** Silver m ECG TC-TEL 42W GX24q-4 3200lm



Weight 3.50kg LMF E

₹7 <u>©</u> €3 ♦ **△ △** IP65



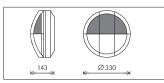
Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.

Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control gear.

Reflector: metal, white (RAL9010)

powder-coated.
Cover: impact-resistant plastic, clear, half painted silver light-proof.
Screw-fastened cover ring with protective grid: corrosion-resistant cast aluminium, double powder-coated.
Protection mode IP65: dust-proof and water jet-proof.

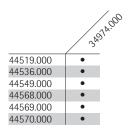








Site Accessories





34974.000 Distribution box, IP68
With four cable entries, 7-25mm.
Plastic.

Site Ceiling-/wall-mounted luminaire for compact fluorescent lamps



44571.000 Graphit m ECG **44518.000** Silver m ECG TC-DEL 18W G24q-2 1200lm



% © ©

Connected load

18 W 18 W

44571.000 44518.000

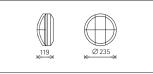


Weight 1.65kg LMF E ♠ ▲ IP65



gear.
Reflector: metal, white (RAL9010)
powder-coated.
Cover: impact-resistant plastic, white.
Screw-fastened cover ring with protective grid: corrosion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 970



Connected load per 100lx 6.17 W/m² 6.17 W/m² 44571.000 44518.000

Housing: corrosion-resistant cast aluminium, No-rinse surface treatment.

Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control



Number of luminaires per 100lx 44571.000 44518.000 34.28 1/100m² 34.28 1/100m²

967

Bodegas Vega Sicilia wine cellars, Valladolid. Architect: Jesús M. Gómez Gaite.



Site Ceiling-/wall-mounted luminaire for compact fluorescent lamps







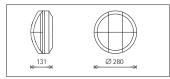
Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Reflector: metal, white (RAL9010) powder-coated.

Cover: impact-resistant plastic, white. Screw-fastened cover ring with pro-tective grid: corrosion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 970

44572.000 Graphit m ECG **44527.000** Silver m ECG TC-TEL 32W GX24q-3 2400lm Electronic control gear.

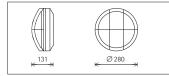






44573.000 Graphit m **44526.000** Silver m TC-D 26W G24d-3 1800lm Low-loss control gear.

Weight 3.10kg LMF E **K**17 <u>@</u> **@** ♠ ▲ ▲ IP65





Connected load 44572.000 35 W 35 W 44527.000 31 W 44573.000 44526.000 31 W

Connected load per 100lx 5.19 W/m² 44572.000 44527.000 5.19 W/m² 44573.000 7.11 W/m² 44526.000 P*: 7.11 W/m²

Number of luminaires per 100lx 44572.000 14.82 1/100m² n*: 44527.000 n*: 14.82 1/100m² 44573.000 22.94 1/100m² 44526.000 22.94 1/100m²









Housing: corrosion-resistant cast aluminium, No-rinse surface treatment.

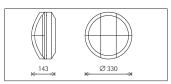
Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control

Reflector: metal, white (RAL9010)

powder-coated. Cover: impact-resistant plastic, white. Screw-fastened cover ring with protective grid: corrosion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 970







Connected load 44563.000 45 W 44548.000 45 W

Connected load per 100lx 3.93 W/m² 44563.000 44548.000 3.93 W/m²

Number of luminaires per 100lx 8.73 1/100m² 44563,000 44548.000 8.73 1/100m²

Site Ceiling-/wall-mounted luminaire for compact fluorescent lamps



44564.000 Graphit m ECG **44517.000** Silver m ECG TC-DEL 18W G24q-2 1200lm



Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control

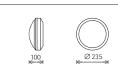
gear. Reflector: metal, white (RAL9010)

powder-coated. Cover: impact-resistant plastic, white.

Screw-fastened cover ring: corrosion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and

water jet-proof. Accessories page 970

Weight 1.50kg LMF E





Connected load 18 W 44564.000 44517.000 18 W

♠ ▲ ▲ IP65

Connected load per 100lx 5.31 W/m² 44564.000 44517.000 5.31 W/m²

Number of luminaires per 100lx 44564.000 29.50 1/100m² 29.50 1/100m² 44517.000



44565.000 Graphit m ECG **44523.000** Silver m ECG





Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. 2 cable entries. Through-wiring possible. 3-pole terminal block. Reflector: metal, white (RAL9010) powder-coated. Cover: impact-resistant plastic, white. Screw-fastened cover ring: corro-sion-resistant cast aluminium, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

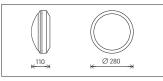
Accessories page 970

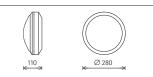
TC-TEL 32W GX24q-3 2400lm Electronic control gear.















Connected	load	
44565.000	P:	35 W
44523.000	P:	35 W
44566.000	P:	31 W
44522.000	P:	31 W

Connected load per 100lx 4.43 W/m² 44565.000 4.43 W/m² 44523.000 44566.000 6.02 W/m² 44522.000 P*: 6.02 W/m² Number of luminaires per 100lx 12.66 1/100m² 12.66 1/100m² 44565.000 44523.000 44566.000 19.42 1/100m² 44522.000 19.42 1/100m²

969

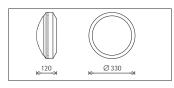
Site Ceiling-/wall-mounted luminaire for compact fluorescent lamps



44567.000 Graphit m ECG **44547.000** Silver m ECG TC-TEL 42W GX24q-4 3200lm



Housing: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.
2 cable entries. Through-wiring possible.
3-pole terminal block. Electronic control gear.
Reflector: metal, white (RAL9010) powder-coated.
Cover: impact-resistant plastic, white.
Screw-fastened cover ring: corrosion-resistant cast aluminium, double powder-coated.
Protection mode IP65: dust-proof and water jet-proof.
Accessories see below





Connected load 44567.000 P: 45 W 44547.000 P: 45 W

Connected load per 100lx 44567.000 P*: 3.45 W/m² 44547.000 P*: 3.45 W/m²

Number of luminaires per 100lx 44567.000 n*: 7.66 1/100m² 44547.000 n*: 7.66 1/100m²

Site Accessories

	34374,000
44517.000	•
44518.000	•
44522.000	•
44523.000	•
44526.000	•
44527.000	•
44547.000	•
44548.000	•
44563.000	•
44564.000	•
44565.000	•
44566.000	•
44567.000	•
44571.000	•
44572.000	•
44573.000	•



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ◆ ▲ ▲ 3mlP68

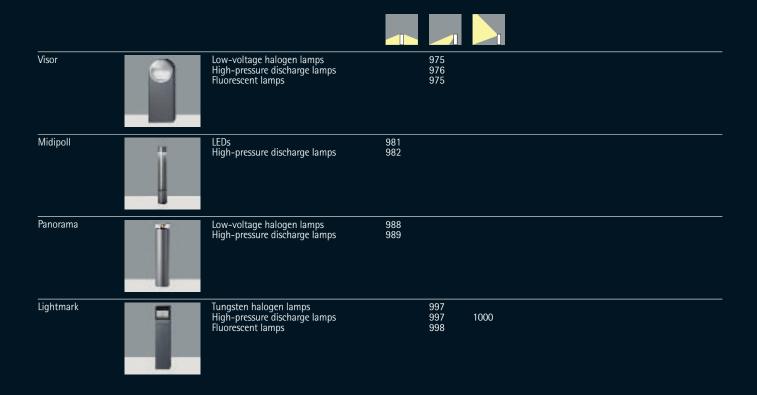


Prof Krott residence, Ravensburg. Architect: Huber & Partner, Ravensburg.

Open area luminaires



Buildings and their surroundings require a range of lighting solutions for the various tasks from the functional lighting of pathways, stairs or open areas to the dramatic lighting of facades. Luminaire ranges with different but predominantly widebeam, asymmetric light distributions can be used to solve these problems. Each range of products with a uniform design providing the lighting designer with a choice mounting and luminaire position options. Irrespective of the functional principle of the lighting technology, priority is always given to key Dark Sky features as well as the prevention of glare and of unnecessary spill light.



New in the program



Midipoll 978

www.erco.com ERCO Program 2010/11

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Visor



Fundación Banco Santander Central Hispano, Madrid. Architect und lighting designer: Kevin Roche John Dinkeloo and Associates, Dublin.

The common design feature of the Visor range is a semi-circular cover glass. As a light source, the Visor luminaires are discreet and provide high visual comfort. Visor bollard luminaires ensure glare-free light for passers-by or road users, as they emit almost no light above the horizontal. Only an unobtrusive refraction of light from the sculpture lens indicates that the light source is switched on. The reflector system with sculpture lens ensures an excellent illumination of outdoor areas such as public squares, courtyards, terraces, footpaths or driveways. An anti-dazzle cover for the low-voltage halogen lamps and metal halide lamps conceals the lamp from direct view. Visor luminaires fitted with compact fluorescent lamps emit a broader beam directly below, i.e. from the mounting surface, making them ideal for pathway lighting.

The design of the Visor luminaires with round stailers steet

The design of the Visor luminaires with round stainless steel cover and the semi-circular front lens provide a consistent appearance. The IP55 protection mode guarantees optimum protection against dust and humidity for the lamps and optical systems.

Visor



The Visor housings are high quality aluminium provided with special coating, over which, a double powder-coating is applied. As a lamp cover, sculpture lenses are embedded in cover rings made of stainless steel. Together with the asymmetric reflectors, two different floodlight systems are now available depending on the lamp design. With point source lamps such as low-voltage halogen or metal halide the surface far in front of the luminaires is illuminated. The lamps are concealed by an anti-dazzle cover which is visible through the cover glass.

Bollard luminaires

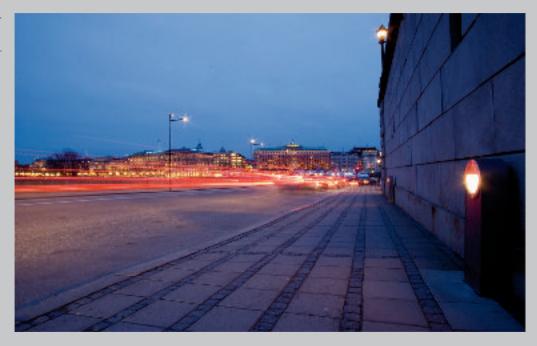


Visor II and Visor III are available as freestanding versions. These are approx. 0.8m tall metal housings, rectangular with rounded tops, in Graphit m. The actual luminaires are integrated inside these housings. Low-voltage halogen lamps, metal halide lamps or compact fluorescent lamps can be used with Visor luminaires. To ensure safe mounting on the ground accessories such as concrete anchors or ground sockets are available.

Application With low-voltage halogen lamps and metal halide lamps: extremely flat, deep beam light distribution to provide wide-spread lighting on driveways, pathways and squares. With compact fluorescent lamps: wide beam light distribution for lighting on pathways, entrances and areas near to walls.

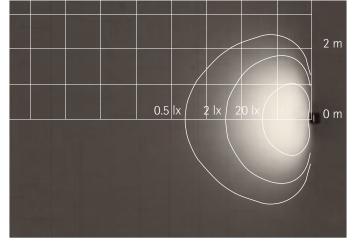
973

Castle wall, Stock-holm. Architect: Stefan Sjölund, City of Stockholm. Lighting design: Ljusbyggarna, Stockholm.

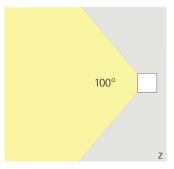


Visor

Pathway luminaires In pathway luminaires, the lamp is concealed from the direct view of observers from all positions resulting in good visual comfort. The spread lens extends the beam so that paths can be uniformly lit along their length.

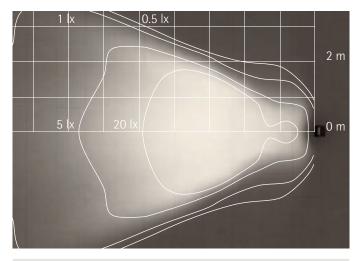


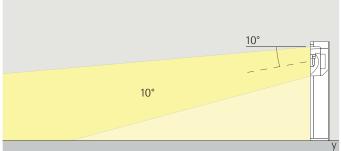


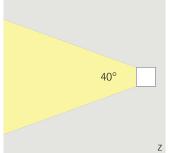


Open area luminaires

Open area luminaires
In contrast to the pathway luminaire with its wide light distribution, the open area luminaire directs light far forward up to approx. 8m away. The lamp is shielded by a vertically-mounted anti-dazzle cylinder.







Visor II Bollard luminaire Open area lighting for low-voltage halogen lamps





33312.000 Graphit m QT12-ax-RE 50W 12V GY6.35 1250lm Housing temperature 85°C Temperature on the light aperture 90°C



Housing: corrosion-resistant aluminium, No-Rinse surface treatment. Double powder-coated. Removable front section with integral floor washlight.
Optimised surface for reduced accumulation of dirt.

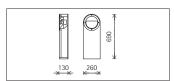
Base plate for mounting on concrete plinth or accessories: corrosion-resistant cast aluminium.

Floor washlight: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Safety transformer, 230/12V. Throughwiring possible. 5-pole terminal block. Asymmetric reflector system: aluminium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission.

Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel.

Protection mode IP55: dust-proof and

water jet-proof. **Accessories page 977**







Visor II Bollard luminaire for compact fluorescent lamps





33311.000 Graphit m ECG TC-DEL 10W G24q-1 600lm Housing temperature 40°C Temperature on the light aperture 40°C

Weight 8.20kg LMF E 日本 🚳 🖭 **※ ▲ △** IP55

Housing: corrosion-resistant aluminium. No-Rinse surface treatment. Double powder-coated. Removable front section with integral floor washlight.
Optimised surface for reduced accumulation of dirt.

Base plate for mounting on concrete plinth or accessories: corrosion-resist-ant cast aluminium.

ant cast auminim.

Floor washlight: corrosion-resistant cast aluminium, No-Rinse surface treatment.

Black double powder-coated.

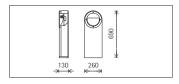
Electronic control gear. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver, satin matt anodised. Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel.

Protection mode IP55: dust-proof and water jet-proof.

975

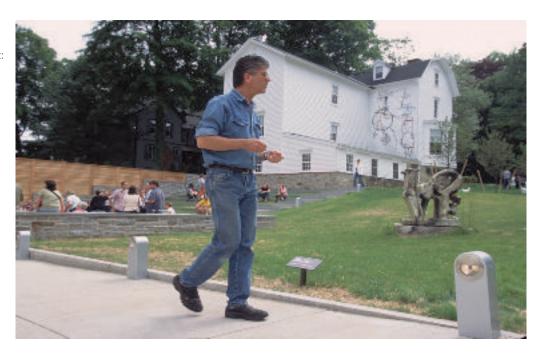
Accessories page 977







The Aldrich Contemporary Art Museum, Ridgefield, CT. Architect: Tappe Associates, Boston. Lighting design: Warfel Schrager, Ridge-field, CT.



Visor III Bollard luminaire Open area lighting for metal halide lamps





33314.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Housing temperature 60°C
Temperature on the light aperture 60°C

Control gear with temperature control-

Temperature on the light aperture 60°C

33315.000 Graphit m HIT-TC-CE 35W G8.5 3300lm

ler, timer-ignitor, capacitor. Housing temperature 60°C

Weight 11.20kg LMF E 日本 🌯 🕑 **※ ▲ △** IP55

Weight 12.20kg LMF E **₹**05 € **※ ▲ ▲** IP55

Housing: corrosion-resistant aluminium, No-Rinse surface treatment. Double powder-coated. Removable front section with integral floor washlight.
Optimised surface for reduced accumu-

Base plate for mounting on concrete plinth or accessories: corrosion-resistant cast aluminium.

Floor washlight: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: alu-

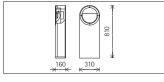
minium, silver anodised, mirror-finish. Anti-dazzle cover: metal. No direct light emission.

Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel.

Protection mode IP55: dust-proof and water iet-proof.

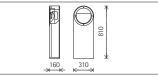
Accessories page 977















Visor III Bollard luminaire for compact fluorescent lamps





33313.000 Graphit m ECG TC-DEL 18W G24q-2 1200lm Housing temperature 40°C Temperature on the light aperture 40°C

Weight 11.30kg LMF E 日本 🌃 🖭 **※ ▲ △** IP55

Housing: corrosion-resistant aluminium, No-Rinse surface treatment. Double powder-coated. Removable front section with integral floor washlight.
Optimised surface for reduced accumulation of dirt.

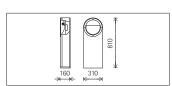
Base plate for mounting on concrete plinth or accessories: corrosion-resistant cast aluminium.

Floor washlight: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Electronic control gear. Through-wiring possible. 5-pole terminal block.

Asymmetric reflector system: aluminium, silver, satin matt anodised. Screw-fastened cover with sculpture lens as safety glass: corrosion resistant stainless steel

Protection mode IP55: dust-proof and water jet-proof.

Accessories page 977





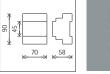


Visor Accessories

	\$ ³	829.000 3AS	34,00	34	33 ¹ A,000	375,00	80,00
33311.000		•	•	•	•	•	
33312.000	•	•	•	•	•	•	
33313.000		•	•	•	•	•	
33314.000		•	•	•	•	•	
33315.000		•	•	•	•	•	













83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

34964.000 34964.000 Cable junction box Plastic, black. Terminal block 2 of 5x2.5mm². 1 fuse DO1 E14 10A. Weight 0.25kg

34965.000 Cable junction box Plastic, grey.
Terminal block 2 of 5x6mm². 1 fuse D01 E14 10A. Weight 0.55kg











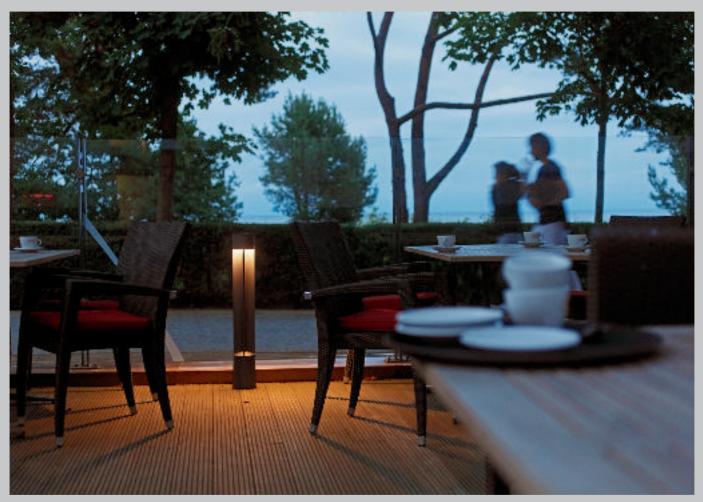
33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg

33980.000 Concrete anchor Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site.
Weight 0.30kg

Visor bollard luminaires on the ERCO factory site.



Midipoll



Hotel restaurant niXe, Binz (Rügen). Architect and lighting designer: Thomas Hummels, Tauting.

The Midipoll bollard luminaire now extends the ERCO outdoor range with a luminaire which provides high visual comfort and uses discreet light to provide scenic effects both of itself and its surroundings. It can be used not only where open areas and pathways require effective lighting but also where the bollard itself features as a strategic object. The luminaire stands out from the darkness as an illuminated object providing orientation, even from afar. In addition, the dark sky technology completely shields pedestrians and drivers from glare and prevents spill light from being emitted above the horizontal. A cross-shaped aluminium profile - elegantly formed of four parabolas - connects the cylindrical luminaire head with the matching lower section. The lamp itself is completely concealed.

The Midipoll bollard luminaire emits light downwards. The light grazes the cross-shaped profile to gently accentuate the cylindrical lower section in addition to spreading light widely across the ground. A special lens has been developed for each of the two powerful lamps - LED and metal halide lamp. These both produce a uniform, widebeam light distribution. When using the LED version, designers can choose either warm white or daylight white so that the colour temperature harmonises with the surroundings. The double cable entry on the luminaire makes through-

wiring simple. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Midipoll



Panorama bollard luminaires rated to protection mode IP65 are ideal for outdoor lighting applications. The housings are provided with a special treatment which is followed by a double powder-coating in Graphit m. The lens system of the luminaires is covered with a safety glass to protect them against the ingress of dust and dirt. The control gear is integral within the luminaire housings and these luminaires can be mounted on a ground socket, a concrete anchor or a mounting plate.

Bollard luminaires

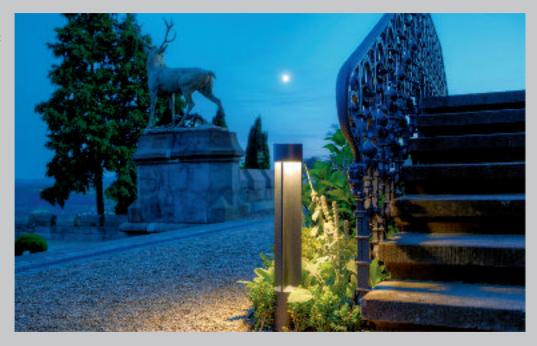


The central section of the 800mm or 525mm high, cylindrical Midipoll bollard luminaires consists of a cross-shaped aluminium profile. The luminaires are available in warm white and daylight white for LED modules and for metal halide lamps of up to 35W. Using a special flood lens, the light is directed outward across a wide surface area. As the bollard luminaire does not emit any light above the horizontal, it is ideal for dark sky applications.

Application Extremely flat beam, symmetrical light distribution to provide lighting on driveways, pathways and entrances.

979

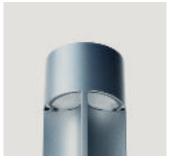
Drachenburg Castle, Königswinter. Architect: KKW Architekten, Altena; Gerd Bermbach Landschaftsarchitekt, Nümbrecht.



Midipoll



The Midipoll luminaire not only casts light on the surrounding floor area, but also on itself. The discreet grazing light on the distinct cross-shaped profile creates its own focal point to act as a space-defining element. The balanced component of grazing light and the optimal shielding of the lamp thus guarantee excellent night time visual comfort. The optional choices are efficient lamps such as LEDs and high-pressure discharge lamps. Using the long life LEDs makes the luminaire practically maintenance-free.



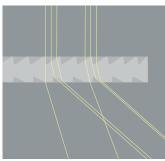
shaped alumin-

ium profile mak-ing it a discreet attraction.

The front lens of the bollard lumi-naire is concealed from passers-by. Together with spreading light on the ground, the lens illuminates the cross-



The Midipoll bollard luminaire for LEDs is available with a specifically designed plastic prism lens.



The light of the high-power LEDs emitted vertically downwards is refracted by both the top and bot-tom sides of the lens, resulting in



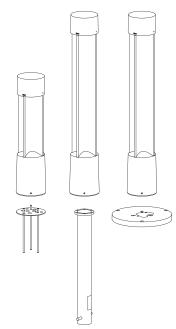
light distribution on the ground.

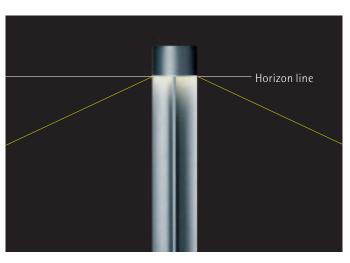
PLUG+ **PLAY** a wide-beam

_

LED versions: due to the rapid tech-nological development of the LEDs, the lumi-nance has been rising steadily. ERCO records this improvement as a product version on the type plate of the luminaires. Each Light Client is automatically recognised by the Light Studio software.

The Midipoll can be mounted using various accessories: concrete anchor, ground socket or mounting plate. The double cable entry in the mounting plate enables efficient through-wiring.





Dark Sky technology ensures that, in the interest of both the environment and people, the light is only projected where it is required. Dark Sky compatible luminaires such as Midipoll bollards have a precise light guidance system and a defined cutoff angle for optimum visual comfort. A crucial consideration for bollard luminaires is to ensure that no light is emitted above the horizontal plane.

Midipoll Bollard luminaire with LED





33344.000 Graphit m LED daylight white LED 10W 420lm 5500K Version 1 Maximum wind load area 0.1m² Housing temperature 46°C Temperature on the light aperture 37°C



For mounting on accessories. Cross-shaped aluminium profile and cylindrical housing: corrosion-resistant cast aluminium, No-Rinse surface treat-ment. Double powder-coated. Optimised surface for reduced accumulation

Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole ter-

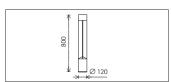
Replaceable LED module: high-power LEDs on metal-core PCB with spot reflector-lens system.

Cylindrical luminaire head with lower

prismatic lens: corrosion-resistant cast aluminium, double powder-coated. Mounting accessories to be ordered

separately.
Protection mode IP65: dust-proof and water jet-proof.

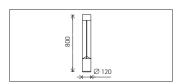
Accessories page 984







33334.000 Graphit m LED warm white LED 10W 320lm 3500K Version 1 Maximum wind load area 0.1m² Housing temperature 46°C Temperature on the light aperture 37°C Weight 4.80kg LMF E 日本 ⋘ № ♠ ▲ ▲ IP65









33317.000 Graphit m LED daylight white DALI LED 10W 420lm 5500K Version 1 Maximum wind load area 0.1m² Housing temperature 46°C Temperature on the light aperture 37°C



Weight 4.80kg LMF E ♠ ▲ ▲ IP65

For mounting on accessories. Cross-shaped aluminium profile and cross-snaped aurinimum profile and cylindrical housing: corrosion-resistant cast aluminium, No-Rinse surface treat-ment. Double powder-coated. Optim-ised surface for reduced accumulation

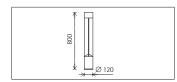
DALI control gear, with plug and play connectivity. 2 cable entries. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB with spot reflector-lens system. Cylindrical luminaire head with lower

prismatic lens: corrosion-resistant cast aluminium, double powder-coated. Mounting accessories to be ordered

separately. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 984

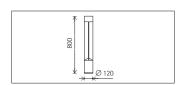






33316.000 Graphit m LED warm white LED 10W 320lm 3500K Version 1 Maximum wind load area 0.1m² Housing temperature 46°C Temperature on the light aperture 37°C

Weight 4.80kg LMF E ♠ ▲ ▲ IP65







Midipoll Bollard luminaire for metal halide lamps





33338.000 Graphit m ECG HIT-TC-CE 20W G8.5 1700lm Maximum wind load area 0.1m² Housing temperature 49°C Temperature on the light aperture 57°C

33342.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Maximum wind load area 0.1m² Housing temperature 66°C Temperature on the light aperture 76°C

Weight 4.80kg LMF E 日本 🌯 🕑

♠ ▲ ▲ IP65

Weight 4.80kg LMF E 日本 優⁵ № ♠ ▲ IP65

For mounting on accessories. Cross-shaped aluminium profile and cylindrical housing: corrosion-resistant cast aluminium, No-Rinse surface treat-ment. Double powder-coated. Optim-

ised surface for reduced accumulation

of dirt.
Electronic control gear. 2 cable entries.
Through-wiring possible. 3-pole terminal block. Upper reflector: aluminium, silver anod-

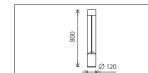
flood lens: corrosion-resistant cast

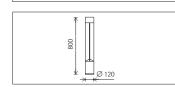
ised. Cylindrical luminaire head with lower aluminium, double powder-coated. Removed from base for lamp replacement. Screw fixing.

Mounting accessories to be ordered

separately.
Protection mode IP65: dust-proof and water jet-proof.

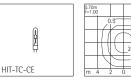
Accessories page 984





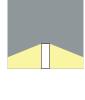






Midipoll Bollard luminaire with LED





33343.000 Graphit m LED daylight LED 10W 420lm 5500K Version 1 Maximum wind load area 0.06m² Housing temperature 46°C Temperature on the light aperture 37°C Weight 3.30kg LMF E 日本 優⁵ № ♠ ▲ ▲ IP65

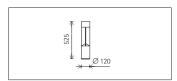
For mounting on accessories. Cross-shaped aluminium profile and cylindrical housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation

Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB with spot reflector-lens system. Cylindrical luminaire head with lower prism lens: corrosion-resistant cast aluminium, double powder-coated. Mounting accessories to be ordered

separately. Protection mode IP65: dust-proof and water jet-proof.

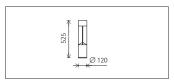
Accessories page 984







33333.000 Graphit m LED warm white LED 10W 320lm 3500K Version 1 Maximum wind load area 0.06m² Housing temperature 46°C Temperature on the light aperture 37°C Weight 3.30kg LMF E 日本 🌠 🌕 ♠ ▲ ▲ IP65

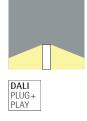






Midipoll Bollard luminaire with LED





33318.000 Graphit m LED warm white DALI LED 10W 320lm 3500K Version 1 Maximum wind load area 0.06m² Housing temperature 46°C Temperature on the light aperture 37°C

For mounting on accessories. Cross-shaped aluminium profile and cylindrical housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation

of dirt.
DALI control gear, with plug and play connectivity. 2 cable entries. 5-pole terminal block.

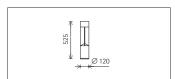
Replaceable LED module: high-power LEDs on metal-core PCB with spot reflector-lens system.

Cylindrical luminaire head with lower

prism lens: corrosion-resistant cast aluminium, double powder-coated. Mounting accessories to be ordered separately.

Protection mode IP65: dust-proof and water jet-proof.

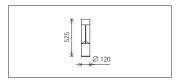
Accessories page 984







33319.000 Graphit m LED daylight white DALI LED 10W 420lm 5500K Version 1 Maximum wind load area 0.06m² Housing temperature 46°C Temperature on the light aperture 37°C

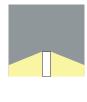






Midipoll Bollard luminaire for metal halide lamps





33337.000 Graphit m ECG HIT-TC-CE 20W G8.5 1700lm Maximum wind load area 0.06m² Housing temperature 49°C Temperature on the light aperture 57°C Weight 3.30kg LMF E 日本 **狐**º ⑫ � 🏝 🕒 IP65

33339.000 Graphit m ECG HIT-TC-CE 35W G8.5 3500lm Maximum wind load area 0.06m² Housing temperature 66°C Temperature on the light aperture 76°C For mounting on accessories. Cross-shaped aluminium profile and cylindrical housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt

Electronic control gear. 2 cable entries. Through-wiring possible. 3-pole terminal block.

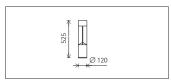
Upper reflector: aluminium, silver anodised. Cylindrical luminaire head with lower

Cylindrical luminaire head with lower flood lens: corrosion-resistant cast aluminium, double powder-coated. Lu-

minaire housing is removed from base for lamp replacement. Screw fixing. Mounting accessories to be ordered separately.

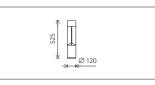
Protection mode IP65: dust-proof and water jet-proof.

Accessories page 984













983

Midipoll Accessories

	3 ^K	37 ^{4,00}	375.00	335	382.00
33316.000	•	•	•	•	
33317.000	•	•	•	•	
33318.000	•	•	•	•	
33319.000	•	•	•	•	
33333.000	•	•	•	•	
33334.000	•	•	•	•	
33337.000	•	•	•	•	
33338.000	•	•	•	•	
33339.000	•	•	•	•	
33342.000	•	•	•	•	
33343.000	•	•	•	•	
33344.000	•	•	•	•	



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ◆ ▲ 3mIP68



33975.000Ground socket
Metal, hot-dip galvanised.
Cable entry.
Weight 1.75kg

205



33980.000Concrete anchor
Mounting plates with threaded bar and fixing screws. Individual parts to be assembled on-site.
Weight 0.30kg

Ø 124





33982.000 Mounting plate Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 1.70kg



Midipoll bollard luminaires are powerful lighting tools, but they can also partition and delineate areas - day and night.

Panorama



For lighting urban spaces, parks and grounds, the Panorama bollard luminaires introduce a lighting tool with lighting design characteristics that literally outshine conventional solutions.

The outstanding feature of the Panorama bollard luminaires is their innovative lighting technology, which combines the highest precision and efficiency in a surprisingly small luminaire. The system with the cone-shaped reflector emits light throughout a full 360° up to 6m deep over the area to be illuminated. In this way, the Dark Sky technology superbly shields pedestrians and drivers from spill light emitted above the horizontal. Similar to downlights with darklight technology used in interiors,

Similar to downlights with darklight technology used in interiors, Panorama bollard luminaires do not produce any glare in the nocturnal environment. The concealed light source is merely revealed by the almost magical shimmering of the light aperture. Consequently, for the first time bollard luminaires are suitable both for dramatic and functional lighting effects for open, exterior spaces. The Panorama bollard luminaire product range consists of versions with two diameters and various heights. The IP65 housings are made of aluminium profiles with multilayer powdercoatings.

Harbour, Hjo. Architect: Hjo Kommun Stadsbyggnad & Miljö. Lighting design: White Design AB, Gothenburg.

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Panorama



Bollard luminaires

Panorama bollard luminaires are intended for outdoor applications. The aluminium cylinder is provided with a special coating. Over this, a double powder-coating in Graphit m is applied. The base plate provides a safe mounting surface. An interior parabolic reflector directs a narrowly focused beam up to the visible 360° cone-shaped reflector. In compliance with darklight technology, the luminaire is glare-free above the light aperture. The circular light emission is covered by a single thick glass which creates the impression that the reflector and upper cover are floating freely in space.

Light beam diameters of up to 35ft are produced. Even in the shorter version, light beam diameters of up to 15ft are reached with the luminaire mounted on the ground. Transformers or control gear as well as ECGs are contained within the bollard. This applies also to the electrical equipment. To en-

Panorama bollard luminaires in their narrow cylindrical shapes are available having 132mm diameter. Low-voltage halogen lamps up to 50W/12V or metal halide lamps 20W and 35W are to be used. The height of the luminaires is 800mm. QT12 lamps up to 100W/12V and HIT lamps up to 70W are to be used in the Panorama bollard luminaires which has a 205mm diameter and 900mm luminaire height. The 450mm height versions take low-voltage halogen lamps or metal halide lamps.

The low height gives a slightly lower spread of illumination. This is compensated for by the higher intensity resulting from the large reflector diameter.

sure safe mounting on the ground accessories such as concrete anchors, mounting plates or ground sockets are available.

Application

Extremely flat beam, symmetric light distribution. To provide widespread lighting on driveways, pathways and squares.

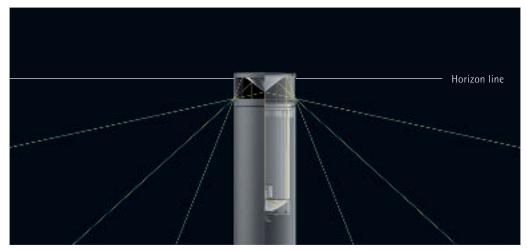


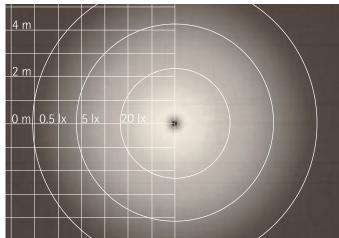
COR Interlübke works exhibition, Rheda-Wiedenbrück. Architect: kräling+lübke, Hamburg. Lighting consultant: LDE Kober, Dortmund.

Panorama

Dark Sky technology ensures that the light is only projected where it is supposed to go – in the interest of both the environment and people.

people.
Dark Sky compatible luminaires such as the Panorama bollards have a precise light guidance system and a defined cut-off angle for optimum visual comfort. A crucial consideration for outdoor luminaires is to ensure that no light is emitted above the horizontal plane. Low luminance of the cover glass avoids excessive luminance contrasts in the outdoor area at night.



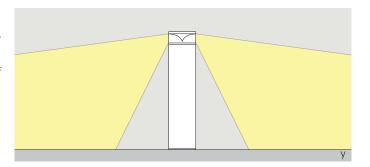


The Panorama bollard luminaires produce an exceptionally wide circular light distribution. The gentle gradient of the beam and the low luminance of the cover glass improve our perception by avoiding significant contrasts which would require visual adaptation time.

987

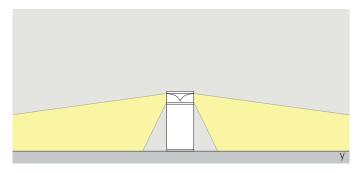
Light distribution

The 900mm high Panorama bollard luminaire is particularly suitable for the illumination of wide areas. A beam diameter of up to 12m with an outer illuminance of 0.5lx makes it a powerful tool for outdoor lighting.



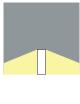
Light distribution

The lower, 450mm version of the Panorama bollard luminaire is intended for applications where a smaller area is to be illuminated and the luminaire is to be less conspicuous as in green spaces.



Panorama Bollard luminaire for low-voltage halogen lamps





Aluminium tube: double powder-coated.

Upper cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. double powder-coated. Optimised surface for reduced accumulation of dirt.

Base plate for mounting on concrete plinth or accessories.

2 cable entries. Through-wiring possible. 5-pole terminal block. Electronic transformer 230/240/12V. Internal parabolic reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap: metal.

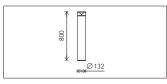
Anti-dazzle screen: metal, black.
360° conical Darklight reflector: aluminium, silver, mirror-finish anodised.
Glare-free above the light aperture.
Glass cylinder as lamp cover. Luminaire housing is removed from base for lamp replacement. Tamper-proof screws.

Use dimmers for electronic transformers (trailing edge).
Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 992

33345.000 Graphit m QT12-ax-RE 50W 12V GY6.35 1250lm Maximum wind load area 0.11m² Housing temperature 45°C Temperature on the light aperture 48°C









water jet-proof.
Accessories page 992

Aluminium tube: double powdercoated.

Upper cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. double powder-coated. Optimised surface for reduced accumulation of dirt.

Base plate for mounting on concrete plinth or accessories.

2 cable entries. Through-wiring pos-

2 cable entries. Through-wiring possible. 5-pole terminal block. Electronic transformer 230/240/12V. Internal parabolic reflector: aluminium,

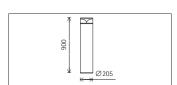
silver, mirror-finish anodised. Antidazzle cap: metal.

dazzle cap: metal. Anti-dazzle screen: metal, black. 360° conical Darklight reflector: aluminium, silver, mirror-finish anodised. Glare-free above the light aperture. Glass cylinder as lamp cover. Luminaire housing is removed from base for lamp replacement. Tamper-proof screws.

Use dimmers for electronic transformers (trailing edge).
Protection mode IP65: dust-proof and

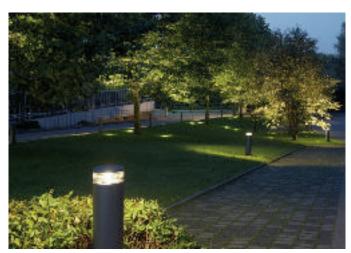
33349.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Maximum wind load area 0.19m² Housing temperature 53°C Temperature on the light aperture 55°C

Weight 8.30kg LMF E 日本 《 ② ② ② ② 1P65







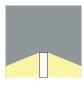


ERCO factory site, Lüdenscheid.

Panorama Bollard luminaire for metal halide lamps







Weight 5.50kg LMF E 日本 **W** © ♠ ▲ ▲ IP65

Aluminium tube: double powdercoated.

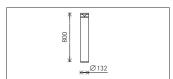
Upper cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. double powder-coated. Optimised surface for reduced accumulation of

Base plate for mounting on concrete plinth or accessories.

2 cable entries. Through-wiring possible.

5-pole terminal block. Internal parabolic reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle screen: metal, black 360° conical Darklight reflector: aluminium, silver, mirror-finish anodised. Glare-free above the light aperture. Glass cylinder as lamp cover. Luminaire housing is removed from base for lamp replacement. Tamper-proof screws. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 992



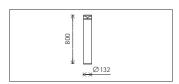




33347.000 Graphit m ECG HIT-CE 35W G12 3500lm Electronic control gear. Maximum wind load area 0.11m² Housing temperature 50°C Temperature on the light aperture 47°C

Temperature on the light aperture 38°C

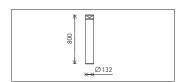
Weight 5.50kg LMF E 日本 ⋘ № ♠ ▲ ▲ IP65







33348.000 Graphit m HIT-CE 35W G12 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.11m² Housing temperature 50°C Temperature on the light aperture 47°C Weight 6.30kg **K**05 P ♠ ▲ ▲ IP65









33351.000 Graphit m ECG HIT-CE 35W G12 3500lm Electronic control gear. Maximum wind load area 0.19m² Housing temperature 50°C Temperature on the light aperture 47°C



Weight 8.80kg LMF_E 日本 優⁵ № ♠ ▲ ▲ IP65

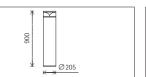
Aluminium tube: double powdercoated.

Upper cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. double powder-coated. Optimised surface for reduced accumulation of

Base plate for mounting on concrete plinth or accessories.
2 cable entries. Through-wiring possible.

5-pole terminal block.

Internal parabolic reflector: aluminium, silver, mirror-finish anodised. Anti-dazzle screen: metal, black. 360° conical Darklight reflector: alu-







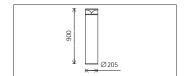
989

minium, silver, mirror-finish anodised. Glare-free above the light aperture.



Panorama Bollard luminaire for metal halide lamps

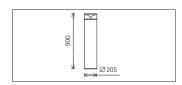
33352.000 Graphit m
HIT-CE 35W G12 3300lm
Control gear with temperature controller, timer-ignitor, capacitor.
Maximum wind load area 0.19m²
Housing temperature 50°C
Temperature on the light aperture 47°C







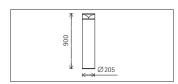
33353.000 Graphit m ECG HIT-CE 70W G12 7300lm Electronic control gear. Maximum wind load area 0.19m² Housing temperature 57°C Temperature on the light aperture 60°C Weight 8.80kg LMF E 日本 **狐**⁵ �� **② A A** IP65







33354.000 Graphit m
HIT-CE 70W G12 6600lm
Control gear with temperature controller, timer-ignitor, capacitor.
Maximum wind load area 0.19m²
Housing temperature 62°C
Temperature on the light aperture 65°C







Panorama Bollard luminaire for low-voltage halogen lamps





Aluminium tube: double powder-coated.

Upper cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. double powder-coated. Optimised surface for reduced accumulation of dirt.

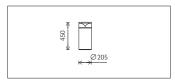
Base plate for mounting on concrete plinth or accessories. 2 cable entries. Through-wiring possible. 5-pole terminal block. Electronic transformer 230/240/12V. Internal parabolic reflector: aluminium, silver, mirror-finish anodised. Antidazzle cap: metal. Anti-dazzle screen: metal, black. 360° conical Darklight reflector: aluminium, silver, mirror-finish anodised.

Anti-dazzle screen: metal, black. 360° conical Darklight reflector: aluminium, silver, mirror-finish anodised. Glare-free above the light aperture. Glass cylinder as lamp cover. Luminaire housing is removed from base for lamp replacement. Tamper-proof screws.

Use dimmers for electronic transformers (trailing edge). Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 992

33355.000 Graphit m OT12-ax 100W 12V GY6.35 2200lm Maximum wind load area 0.09m² Housing temperature 53°C Temperature on the light aperture 55°C Weight 5.70kg LMF E 日本 **狐**º ⑫ ② **△ △** IP65







Panorama Bollard luminaire for metal halide lamps





33357.000 Graphit m ECG HIT-CE 35W G12 3500lm Electronic control gear. Maximum wind load area 0.09m² Housing temperature 50°C Temperature on the light aperture 47°C

Weight 6.10kg LMF E 日本 **《** © **》 (()** 1P65

Aluminium tube: double powdercoated.

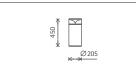
Upper cover: corrosion-resistant cast aluminium, No-Rinse surface treatment. double powder-coated. Optimised surface for reduced accumulation of

Base plate for mounting on concrete plinth or accessories.

2 cable entries. Through-wiring possible.

5-pole terminal block.
Internal parabolic reflector: aluminium, silver, mirror-finish anodised.
Anti-dazzle screen: metal, black.
360° conical Darklight reflector: alu-

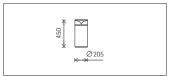
minium, silver, mirror-finish anodised. Glare-free above the light aperture. Glass cylinder as lamp cover. Luminaire housing is removed from base for lamp replacement. Tamper-proof screws. Protection mode IP65: dust-proof and water jet-proof. Accessories page 992







33358.000 Graphit m HIT-CE 35W G12 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.09m² Housing temperature 50°C Temperature on the light aperture 47°C Weight 7.10kg LMF E **K**05 P ♠ ▲ ▲ IP65







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"Beim Dorf" residential complex, Düsseldorf-Niederkassel. Architect: Lievens und Partner, Aachen. Lighting design: Ingenieurbüro Kiep + Braun, Wuppertal.



Panorama Accessories

	\$55	829.000 3A	31A,000	31 ^{4,00} 335	375.00	339	185,000
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Ø 115

Ø 60

Ø 124

83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ♦ ♣ \$ 3mIP68







Ø 83

Ø 60

33975.000 Ground socket Metal, hot-dip galvanised. Cable entry. Weight 1.75kg







33982.000 Mounting plate Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 1.70kg



Werratal-Therme, Bad Sooden-Allendorf. Architect: Geier + Geier Freie Architekten, Stuttgart. Lighting designer: Facit Lichttechnik, Lemgo.



Circolo Sportivo RAI, Rome. Lighting design: Baldieri SIr., Rome

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ERCO's outdoor lighting product range features the combination of archetypal shapes with highly advanced lighting technology. The Lightmark bollard luminaires comprise a series of small, yet distinctive and innovative models with different lighting technology. This provides lighting designers and architects with a wide range of new design possibilities for the lighting of pathways, open areas and facades. The Lightmark bollard luminaires consist of rectangular profiles in a variety of heights whose cover is the actual luminaire with its square front lens. The robust aluminium housings with protection mode IP65 are multilayer powder-coated. Further features of the Lightmark luminaires include asymmetrical light distribution and effective anti-glare protection.

The dark sky technology maximises visual comfort and prevents light from being emitted above the horizontal. Only modern, miniaturised lamps such as tungsten halogen lamps, high-pressure discharge lamps or compact fluorescent lamps are to be used. Depending on the version, Lightmark bollard luminaires produce a wide beam of light which is ideal for lighting pathways, or a beam that penetrates deep into an area, which is effective in illuminating open spaces such as public squares or terraces. The Lightmark façade floodlight has similar light distribution properties to the Parscoop

wallwashers. They are therefore suitable for the uniform illumination of exterior walls and facades.



Lightmark bollard luminaires rated to protection mode IP65 are ideal for outdoor lighting applications. The housings are provided with a special coating. Over this, a double powder-coating in Graphit m is applied. The control gear is contained within the luminaire. This applies also to the electrical equipment. The mirror-finish reflectors are silver anodised aluminium. The lens system of the luminaires is fitted with a safety glass to protect the luminaires against the ingress of dust and dirt. To ensure safe mounting on the ground, a ground socket is available.

Bollard luminaires



Lightmark bollard luminaires are available with three different light distribution patterns. The light distribution of the Lightmark bollard luminaires for pathway lighting is created using an asymmetrical reflector lens system. In this system, the lamp is not visible, irrespective of the observer's position. A lens spreads the width of the beam so that pathways can be evenly illuminated. Lightmark bollard luminaires for open area lighting use an asymmetrical reflector-flood system. A sculpture lens, acting as a safety glass, projects the light deep into the area. The lamps are shielded by a vertical anti-dazzle cover clearly visible through the cover glass. The Lightmark bollard luminaires for open area lighting and for pathway lighting are clearly identifiable through the appearance of the cover glasses. Lightmark bollard luminaires for facade lighting feature an asymmetrical reflector. The high-precision lighting technology largely prevents spill light and provides extensive uniform illumination without perceptible edges to the beam. Lightmark bollard Juminaires are available with heights of 900mm and 450mm. They are designed for: tungsten halogen lamps

up to 150W, metal halide lamps up to 70W and compact fluorescent lamps of 18W.

Application

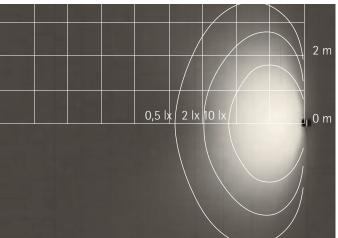
The Lightmark bollard luminaires are available in three versions. Extremely flat light distribution penetrating deep into an area, to provide wide-spread lighting on driveways, pathways and squares, or wide beam light distribution for the lighting of pathways, entrances and areas adjacent to walls. The third variant produces an asymmetrical light distribution for applications such as the illumination of facades or vegetation.



Lightmark bollard luminaires with their wide light distribution patterns allow a variety of applications for efficient open area and facade lighting. The system design with two heights includes lighting for driveways, pathways and squares, while its precise lighting technology meets the requirements of Dark Sky.

Pathway lighting
In pathway luminaires, the lamp
is hidden from the direct view of
observers from all positions resulting in good visual comfort. The
spread lens extends the beam so
that paths can be uniformly lit
along their length.

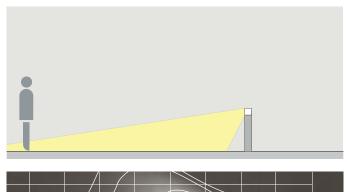


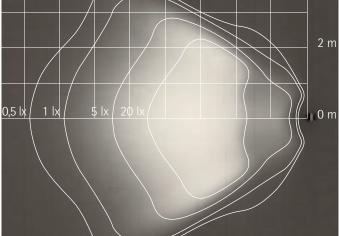


The soft-edged beam creates a pleasant transipleasant transition from bright to darker surroundings. The gentle gradient of the beam improves perception, as the eye requires less adaptation between signifibetween significant contrasts.

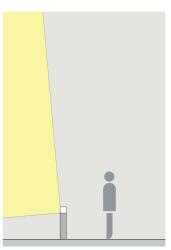
995

Open area lighting
In contrast to the pathway luminaires with their wide light distribution, the open area luminaires with sculpture lenses direct light far forward. The lamp is shielded by a vertically-mounted antidazzle cylinder.





Facade washing
Facade floodlights produce a wide
and very uniform illumination
of vertical surfaces through
their asymmetric reflector. All
luminaires feature robust castaluminium housings and are
rated IP65.





Lightmark Bollard luminaire Pathway lighting with single-sided light emission



QT-DE12-RE 120W 230V R7s L75mm

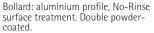
Temperature on the light aperture 86°C

Maximum wind load area 0.18m² Housing temperature 82°C

2300lm



Weight 8.20kg LMF E 日本 **W** © ♠ ▲ ▲ IP65



Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treat-ment. Double powder-coated. Optimised surface for reduced accumulation

2 cable entries. Through-wiring possible. 5-pole terminal block. Asymmetric reflector-lens system:

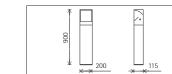
aluminium, silver anodised. Optimised

lamp screening ensures no direct light emission.

Spread lens as safety glass. Luminaire housing is removed from base for lamp replacement. Tamperproof screws.

Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 1001









33453.000 Graphit m ECG HIT-CE 35W G12 3500lm Electronic control gear. Maximum wind load area 0.18m² Housing temperature 44°C Temperature on the light aperture 45°C



Weight 8.60kg LMF_E 日本 🚳 🖭 ♠ ▲ ▲ IP65

Bollard: aluminium profile, No-Rinse surface treatment. Double powder-

Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.

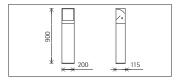
2 cable entries. Through-wiring possible. 5-pole terminal block. Asymmetric reflector-lens system:

aluminium, silver anodised. Optimised

lamp screening ensures no direct light emission.

Spread lens as safety glass. Luminaire housing is removed from base for lamp replacement. Tamperproof screws.

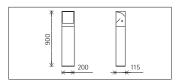
Protection mode IP65: dust-proof and water jet-proof.
Accessories page 1001







33454.000 Graphit m HIT-CE 35W G12 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.18m² Housing temperature 49°C Temperature on the light aperture 49°C Weight 9.80kg LMF E **K**05 PC ♠ ▲ ▲ IP65







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Lightmark Bollard luminaire Pathway lighting with single-sided light emission



33451.000 Graphit m ECG

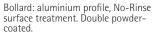
TC-DEL 18W G24q-2 1200lm Electronic control gear.

Maximum wind load area 0.18m² Housing temperature 33°C

Temperature on the light aperture 33°C



Weight 8.40kg ♠ ▲ ▲ IP65



Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation

2 cable entries. Through-wiring possible. 5-pole terminal block. Asymmetric reflector-lens system:

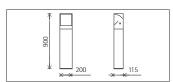
aluminium, silver anodised. Optimised

lamp screening ensures no direct light emission.

Spread lens as safety glass. Luminaire housing is removed from base for lamp replacement. Tamperproof screws.

Protection mode IP65: dust-proof and water iet-proof.

Accessories page 1001





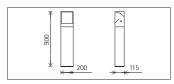


33452.000 Graphit m TC-D 18W G24d-2 1200lm Low-loss control gear.

Maximum wind load area 0.18m²

Housing temperature 36°C

Temperature on the light aperture 36°C Weight 8.70kg LMF E











33466.000 Graphit m QT-DE12-RE 120W 230V R7s L75mm 2300lm Maximum wind load area 0.09m² Housing temperature 82°C Temperature on the light aperture 86°C Weight 5.70kg LMF E 日本 🌃 🍽 ♠ ▲ ▲ IP65

Bollard: aluminium profile, No-Rinse surface treatment. Double powder-

Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation of dirt.

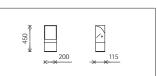
2 cable entries. Through-wiring possible.

5-pole terminal block. Asymmetric reflector-lens system: aluminium, silver anodised. Optimised

lamp screening ensures no direct light emission.

Spread lens as safety glass. Luminaire housing is removed from base for lamp replacement. Tamperproof screws.

Protection mode IP65: dust-proof and water jet-proof.
Accessories page 1001







Lightmark Bollard luminaire Pathway lighting with single-sided light emission







Weight 6.10kg LMF E 日本 **《** © **》 (()** 1P65

Bollard: aluminium profile, No-Rinse surface treatment. Double powdercoated.

Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treat-ment. Double powder-coated. Optimised surface for reduced accumulation

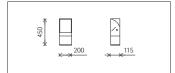
2 cable entries. Through-wiring possible. 5-pole terminal block. Asymmetric reflector-lens system:

aluminium, silver anodised. Optimised

lamp screening ensures no direct light emission.

Spread lens as safety glass. Luminaire housing is removed from base for lamp replacement. Tamperproof screws.

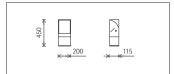
Protection mode IP65: dust-proof and water jet-proof.
Accessories page 1001







33468.000 Graphit m HIT-CE 35W G12 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.09m² Housing temperature 49°C Temperature on the light aperture 49°C Weight 7.30kg LMF E **K**05 P ♠ ▲ ▲ IP65







999

Private residence in Berlin. Architect: Hamann Pott Architekten, Berlin.



Lightmark Bollard luminaire Open area lighting for metal halide lamps



HIT-TC-CE 35W G8.5 3500lm

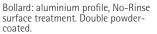
Maximum wind load area 0.18m² Housing temperature 43°C

Temperature on the light aperture 71°C

Electronic control gear.



Weight 8.60kg 日本 🌯 🕑 ♠ ▲ ▲ IP65



Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation

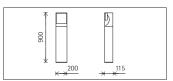
2 cable entries. Through-wiring possible.

5-pole terminal block. Asymmetric reflector-flood system: aluminium, silver anodised. Anti-dazzle cover: metal. No direct light emission.

Spread lenses as safety glasses. Luminaire housing is removed from base for lamp replacement. Tamperproof screws. Protection mode IP65: dust-proof and

water jet-proof.

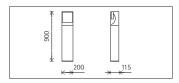
Accessories page 1001







33461.000 Graphit m HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Maximum wind load area 0.18m² Housing temperature 42°C Temperature on the light aperture 74°C Weight 9.80kg LMF E **₹**05 **P**G ♠ ▲ ▲ IP65







Lightmark Bollard luminaire Facade floodlight for metal halide lamps





33462.000 Graphit m ECG HIT-CE 35W G12 3500lm Electronic control gear. Maximum wind load area 0.18m² Housing temperature 38°C Temperature on the light aperture 55°C

Weight 8.60kg LMF E 日本 🌠 🌕 ♠ ▲ ▲ IP65

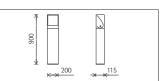
Bollard: aluminium profile, No-Rinse surface treatment. Double powdercoated.

Base plate for mounting on concrete plinth or accessories: cast aluminium. Luminaire housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Optimised surface for reduced accumulation

2 cable entries. Through-wiring possible. 5-pole terminal block. Reflector: aluminium, silver anodised.

Without spill light. Safety glass. Luminaire housing is removed from base for lamp replacement. Tamperproof screws. Protection mode IP65: dust-proof and water jet-proof.

Accessories page 1001

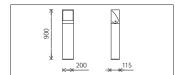






Lightmark Bollard luminaire Facade floodlight for metal halide lamps

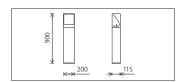
33463.000 Graphit m
HIT-CE 35W G12 3300lm
Control gear with temperature controller, timer-ignitor, capacitor.
Maximum wind load area 0.18m²
Housing temperature 38°C
Temperature on the light aperture 55°C







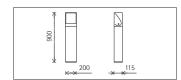
33464.000 Graphit m ECG HIT-DE-CE 70W RX7s 6500lm Electronic control gear. Maximum wind load area 0.18m² Housing temperature 46°C Temperature on the light aperture 75°C Weight 8.60kg LMF E 日本 **您**⁵ **© ◆ A I** IP65







33465.000 Graphit m
HIT-DE-CE 70W RX7s 6500Im
Control gear with temperature controller, timer-ignitor, capacitor.
Maximum wind load area 0.18m²
Housing temperature 50°C
Temperature on the light aperture 85°C







Lightmark Accessories

	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	34. 34. 3A.	31A,000 339	15,00
33450.000	•	•	•	
33451.000		•	•	
33452.000		•	•	
33453.000		•	•	
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33461.000		•	•	
33462.000		•	•	
33463.000		•	•	
33464.000		•	•	
33465.000		•	•	
33466.000	•	•	•	
33467.000		•	•	
33468.000		•	•	







34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ♦ ♣ ♣ 3mlP68



Ø 83

502

1001



Recessed luminaires



Architectural situations such as atriums, cantilever roofs, passages or bridges require ceiling-mounted luminaires designed to meet the demands of outdoor lighting. These ceiling-mounted luminaires for outdoor applications provide a variety of lighting characteristics, from downlights and directional luminaires to wallwashers, making them ideal for the continuation of the indoor lighting concept outside.

Lightcast	LEDs	1006 1007	1008
Lightcast	Low-voltage halogen lamps	1012	1013
Lightcast	PAR lamps	1017	1017
Lightcast	High-pressure discharge lamps	1021	1022
Lightcast	Fluorescent lamps	1025	
Paratec	Tungsten halogen lamps High-pressure discharge lamps	1029 1029	
New in the program			

1002 ERCO Program 2010/11 www.erco.com

Lightcast 1003

Lightcast Recessed luminaires

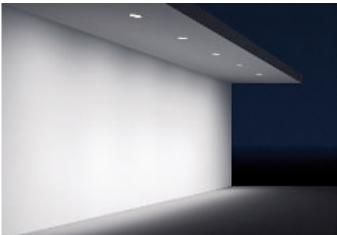






The downlights produce a widebeam light distribution for ambient lighting, e.g. for entrances or passages.







The lens wallwasher produces an asymmetrical light distribution for uniform illumination of vertical surfaces.

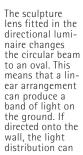






ure produce a wallin the washing effect. lumi-

1003



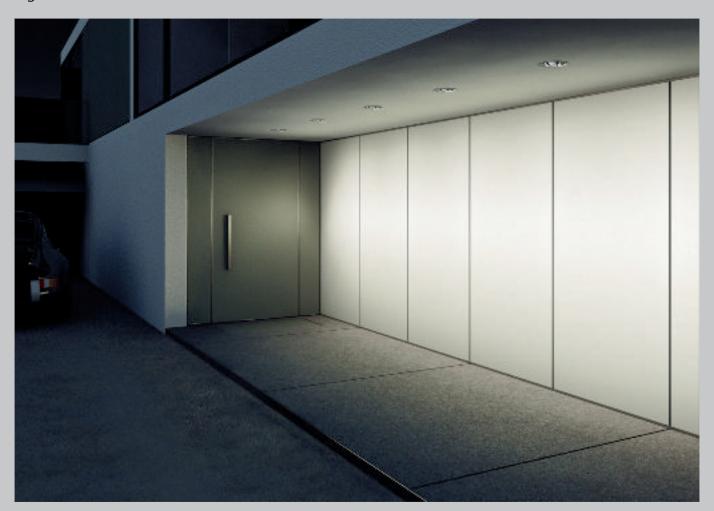






The narrow beam angle of the directional luminaires is ideal both for highlighting architectural details and accenting objects. The lampholder carrier can be tilted by up to 20°.

Lightcast with LED



LEDs excel due to their extremely long service life and high energy efficiency. They are comparable with metal halide lamps in terms of luminous efficacy, while being dimmable and capable of hot restart. The light colours available for single-colour versions include warm white and daylight white. High protection mode downlights are suitable for the transitional areas between indoors and outdoors. Typically they are used for balconies, porches, cantilevered roofs and covered terraces. The lens wallwashers create a uniform light distribution over the whole wall.

In indoor areas where protection against moisture or dust is required, Lightcast recessed ceiling luminaires ensure high-quality lighting even in these harsh environmental conditions. The DALI-compatible luminaires have digital control gear which can address each luminaire individually - for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Lightcast recessed luminaires with LEDs are suitable for energy-efficient lighting concepts in the outdoor area, particularly when used as lens wall-washers.

Lightcast with LED



Lightcast recessed luminaries are suitable for both outdoor and indoor use. The housings are cast aluminium and powder-coated silver. Glare-free darklight reflectors are aluminium and silver anodised. The cut-off angle is 30°. The screw-fastened cover rings with safety glass, which are visible from below, are also made of cast aluminium and provided with a special coating, over which a double powder-coating in silver is applied. The high-quality reflectors are protected against the ingress of dust and dirt of any kind.

Downlights



The downlights are available in sizes 3 and 5. They are fitted with high-power LEDs in warm white or daylight white.

Application Rotationally symmetrical light distribution for many applications including the lighting of arcades, passageways or atriums.

Lens wallwashers



The lens wallwashers are available in size 5. They are available with high-power LEDs in warm white or daylight white.

Application Asymmetrical light distribution for uses including wall lighting and the illumination of facades as well as arcades, passageways and atriums.

Directional luminaires



The directional luminaires are available in size 5. They are fitted with high-power LEDs in warm white or daylight white. The lampholder carrier can be tilted up to 20° and rotated through 360°.

Application Rotationally and axially symmetrical light distribution for many applications including accent lighting of arcades, passageways, atriums or cantilevered roofs.

1005

Lightcast Downlight with LED







Housing: cast aluminium, silver powder-coated. Mounting with 2-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. Electronic control gear. Two cable entries. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

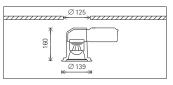
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted.

Screw-fastened cover ring with safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and

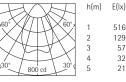
water jet-proof. Available as of 3rd quarter of 2010 Accessories page 1009

81032.000 Reflector silver LED daylight white LED 14W 1080lm 5500K Version 1

Weight 1.35kg LMF E ♠ ▲ ▲ IP65





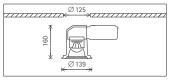


67° 516 1.32 129 2.65 57 3.97 32 5.30 6.62 E(Ix) D(m) h(m)

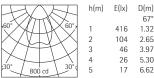
D(m)

81034.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1

Weight 1.35kg LMF E ♠ ▲ ▲ IP65













Housing: cast aluminium. silver Housing: cast aluminium, silver powder-coated. Mounting with 2-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. DALI control gear, with plug and play connectivity. Two cable entries. Through witing possible 5 pole ter. Through-wiring possible. 5-pole ter-

minal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, silver,

bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Screw-fastened cover ring with safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and

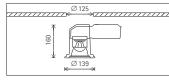
water jet-proof. Available as of 3rd quarter of 2010 Accessories page 1009

81033.000 Reflector silver LED daylight white DALI LED 14W 1080lm 5500K Version 1

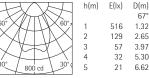
Weight 1.35kg LMF E ♠ ▲ ▲ IP65

DALI PLUG+

PLAY

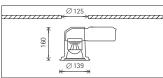




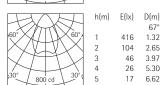


81035.000 Reflector silver LED warm LED 14W 870lm 3200K Version 1

Weight 1.35kg LMF E ♠ ▲ ▲ IP65













Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powder-coated black.

Electronic control gear. Two cable entries. Through-wiring possible. 5-

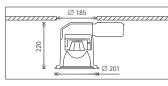
pole terminal block. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised

Darklight reflector: aluminium, silver,

bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Screw-fastened cover ring with safety glass: corrosion-resistant cast alu-minium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and water jet-proof. Available as of 3rd quarter of 2010 Accessories page 1009

81036.000 Reflector silver LED daylight white LÉD 28W 2160lm 5500K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65







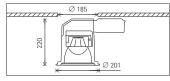
		0,
1	1409	1.09
2	352	2.17
3	157	3.26
4	88	4.34
5	56	5.43
h(m)	E(Ix)	D(m)
		57°
1	1135	1.09
2	284	2.17
2	126	2.26

h(m)

E(Ix) D(m)

81038.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Weight 2.60kg LMF E ♠ ♠ ♠ IP65





Lightcast Downlight with LED







Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powder-coated black.

DALI control gear, with plug and play connectivity. Two cable entries. Through-wiring possible. 5-pole ter-

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, silver,

bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Screw-fastened cover ring with safety glass: corrosion-resistant cast alu-minium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.
Available as of 3rd quarter of 2010

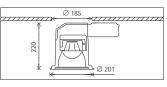
Accessories page 1009



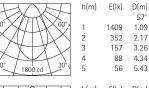


DALI PLUG+

PLAY

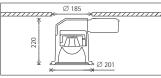




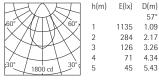


81039.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1









Lightcast Lens wallwasher with LED







Housing: cast aluminium, silver powder-coated. Mounting with 3point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powder-coated black.

Electronic control gear. Two cable entries. Through-wiring possible. 5-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirror-finish anodised.

Darklight reflector: aluminium, bright anodised, with upper wallwasher lens. Cut-off angle 40°. Screw-fastened cover ring with safety

glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Available as of 3rd quarter of 2010

Accessories page 1009

81048.000 Reflector silver LED daylight white LED 28W 2160lm 5500K Version 1

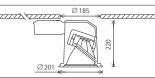
Weight 2.60kg LMF E ♠ ▲ ▲ IP65





81052.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65







Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix)

T	
220	7
<u>.</u> 4	LED

Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m) 0.90 1.20 1.20 1.50 Illuminance E_n (lx) 61 47 35 28

1007

Lightcast Lens wallwasher with LED





Size 5 40°

powder-coated. Mounting with 3point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powder-coated black. DALI control gear, with plug and play connectivity. Two cable entries.

Available as of 3rd quarter of 2010 Accessories page 1009

PLUG+ PLAY

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Through-wiring possible. 5-pole ter-

Housing: cast aluminium, silver

Darklight reflector: aluminium, bright anodised, with upper wallwasher lens. Cut-off angle 40°.

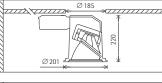
Screw-fastened cover ring with safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 Luminaire spacing (m) 0.90 1.20 1.20 1.50 Illuminance E_n (Ix)

81049.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65



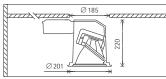


Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 0.90 0.90 1.20 1.20 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix) 61 47 35

81053.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65





Lightcast Directional luminaire with LED







Housing: cast aluminium, silver powder-coated. Mounting with 3point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powder-coated black. Electronic control gear. Two cable

entries Through-wiring possible. 5-pole terminal block Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for

mixing light: aluminium, silver, mirrorfinish anodised. Lens system, spot: collimating lens, plastic, clear. 0°-20° tilt, 360° rotation. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Screw-fastened cover ring with safety glass: corrosion-resistant cast alu-

minium, No-Rinse surface treatment. Silver, double powder-coated. Protection mode IP65: dust-proof and water jet-proof.

Available as of 3rd guarter of 2010 Accessories page 1009

81044.000 Reflector silver LED daylight white LED 21W 1620lm 5500K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65



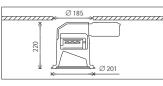




E(lx) D(m) h(m) 11162 0.28 2791 0.56 1240 0.84 698 1.12 446 1.41

81046.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65



Ø 201





E(Ix) D(m) h(m) 16° 8992 0.28 2248 0.56 3 999 0.84 360 1.41

Lightcast Directional luminaire with LED





DALI PLUG+ PLAY



Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powder-coated black.

DALI control gear, with plug and play connectivity. Two cable entries. Through-wiring possible. 5-pole ter-

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Lens system, spot: collimating lens, plastic, clear. 0°-20° tilt, 360° rotation.
Darklight reflector: aluminium, silver,

bright anodised. Cut-off angle 30°. Screw-fastened cover ring with safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Silver, double powder-coated.

Protection mode IP65: dust-proof and water jet-proof. Available as of 3rd quarter of 2010 Accessories see below

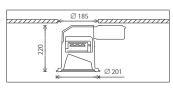
81045.000 Reflector silver LED daylight white DALI LÉD 21W 1620lm 5500K

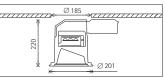
Version 1

81047.000 Reflector silver LED warm LED 21W 1305lm 3200K Version 1

Weight 2.60kg LMF E ♠ ▲ ▲ IP65

Weight 2.60kg LMF E ♠ ▲ ▲ IP65











2 1240 698 1.12 446 1.41 h(m) E(Ix) D(m) 16° 8992 0.28 2 2248 0.56 3 999 0.84

562 1.12

360 1.41

11162

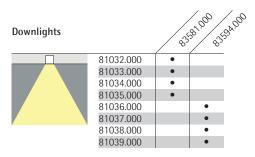
2791 0.56

h(m)

E(lx) D(m)

0.28

Lightcast Accessories







CO 125

440 K

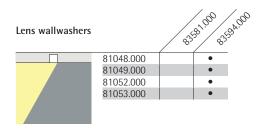


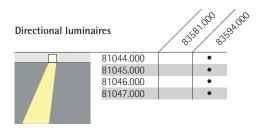
360

380



83594.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 5.50kg





Lightcast for low-voltage halogen lamps



Crescent House, Winterbrook (Wiltshire). Architect: Ken Shuttleworth, London. Lighting design: Claude R. Engle, Chevy Chase.

Low-voltage halogen lamps are small and robust; they come in various sizes and wattages and can be capsule lamps or available as reflector lamps, i.e. with metal or coolbeam reflectors. Their light stands out due to its sheer brilliance. High protection mode downlights are suitable for the transitional areas between indoors and outdoors. Typically they are used for balconies, porches, cantilevered roofs and covered terraces. The ability of the lamp and reflector to be tilted up to 15° from the vertical and rotated through 360° horizontally is characteristic for directional luminaires. This allows the beam to be aimed at almost any area of the room, to provide the intended accent lighting. Furthermore, when fitted with a sculpture lens accessory, a directional luminaire is well suited to produce uniform vertical

In indoor areas where protection against moisture or dust is required, Lightcast recessed luminaries ensure high-quality lighting even in these harsh environmental conditions. In addition, the diffuser technology of the downlights increases the visual comfort of the darklight reflectors.

Lightcast for low-voltage halogen lamps



Lightcast recessed luminaries are suitable for both outdoor and indoor use. The housings are cast aluminium and powder-coated silver. Glare-free darklight reflectors are aluminium and silver anodised. The cut-off angle is 30°. The screw-fastened cover rings with safety glass, which are visible from below, are also made of cast aluminium and provided with a special coating, over which a double powder-coating in silver is applied. The high-quality reflectors are protected against the ingress of dust and dirt of any kind.

Downlights



The downlights are available in sizes 3 and 5. They are fitted with low-voltage halogen capsule lamps up to 100W/12V or low-volage halogen reflector lamps up to 35W/12V.

Application Rotationally symmetrical light distribution for many applications including the lighting of arcades, passageways or atriums.

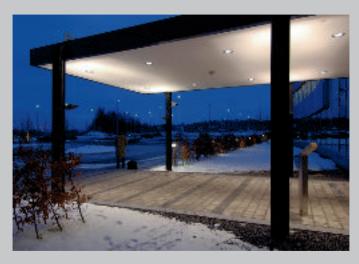
Directional luminaires



The directional luminaires are available in sizes 3 and 5. They are fitted with low-voltage halogen capsule lamps up to 100W/12V or low-volage halogen reflector lamps up to 35W/12V. The lampholder carrier can be tilted up to 15° and rotated through 360°.

Application Rotationally and axially symmetrical light distribution for many applications including accent lighting of arcades, passageways, atriums or cantilevered roofs.

AstraZeneca Central Operations, Södertälje. Architect: Lomar Arkitekter AB, Stockholm.



Lightcast Downlight for low-voltage halogen lamps







Housing: cast aluminium, silver powder-coated. Mounting with 2-point support and screw fixing, for ceiling thicknesses 1-30mm. Side-mounted control gear: plastic, black. Electronic transformer 230/12V. 2 cable

Electronic transformer 230/12V. 2 cable entries. Through-wiring possible. 4-pole terminal block.
Screw-fastened cover ring with safety

Screw-Tastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Use dimmers for electronic transformers (trailing edge).

(trailing edge).
Protection mode IP65: dust-proof and water-jet proof.

Accessories page 1013

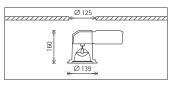
81012.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Diffuser: glass, frosted.



Weight 1.20kg LMF E

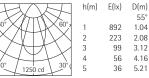
□ **◆▲** IP65

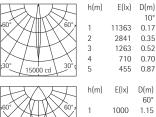
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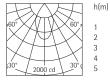








QR-CBC51-RE





81010.000 Reflector silver QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 60°





Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses 1-30mm. Side-mounted control gear: plastic, black.

Electronic transformer 230/12V. 2 cable entries. Through-wiring possible. 4-pole terminal block.

terminal block.
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted.

Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.

Use dimmers for electronic transformers (trailing edge).

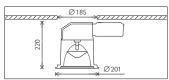
Protection mode IP65: dust-proof and water-jet proof.

Accessories page 1013













I	h(m)	E(Ix)	D(m)
			26°
60°	1	3588	0.46
\times	2	897	0.92
	3	399	1.39
7	4	224	1.85
30°	5	144	2.31



Hilton Dubai Creek Hotel, Dubai.

Lightcast Directional luminaire for low-voltage halogen lamps







Housing: cast aluminium, silver powder-coated. Lampholder carrier inclined to 15°. Mounting with 2-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black.

Electronic transformer 230/12V. 2 cable entries. Through-wiring possible. 4-pole terminal block.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be re-

moved together with Darklight reflector for lamp replacement.

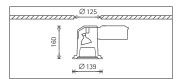
Use dimmers for electronic transformers (trailing edge).

Protection mode IP65: dust-proof and water-jet proof.

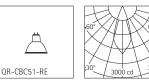
Accessories see below

81011.000 Reflector silver QR-CBC51-RE 35W 12V GU5.3 10° QR-CBC51-RE 35W 12V GU5.3 36°











125 2.60

80 3.25

E(lx) D(m)

11363

2841

0.17

0.35

h(m)

2







Housing: cast aluminium, silver powder-coated. Lampholder carrier 0°-15° tilt. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. Electronic transformer 230/12V. 2 cable

Electronic transformer 230/12V. 2 cable entries. Through-wiring possible. 4-pole terminal block.

Reflector: aluminium, silver, bright anodised. Sculpture lens. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Screw-fastened cover ring with safety

glass: corrosion-resistant, cast alu-

minium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement. Use dimmers for electronic transformers

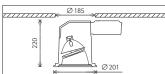
(trailing edge).

Protection mode IP65: dust-proof and water-jet proof.

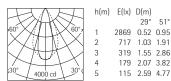
Accessories see below



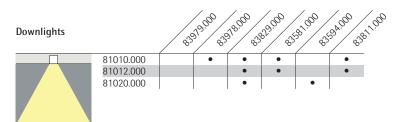


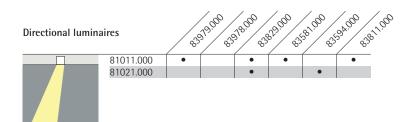






Lightcast Accessories





Lightcast Accessories







83978.000 Softec lens



83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



83581.000 Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete. Weight 5.20kg







83594.000 Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete. Weight 5.50kg





83811.000 Spacer plate Plastic. For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.08kg

Lightcast for PAR lamps



effect with excellent colour rendition, switch on instantly and can be dimmed easily. The parabolic reflector of the PAR lamp ensures defined light beam angles. High protection mode Lightcast recessed ceiling luminaires are suitable for transitional areas between indoors and outdoors. Typically, they are used for balconies, porches, cantilevered roofs and covered terraces. The ability of the lamp and reflector to be tilted up to 15° from the vertical and be rotated through 360° horizontally is characteristic for directional luminaires. This allows the beam to be aimed at almost any area of the room, to provide the intended accent lighting. Furthermore, when fitted with a sculpture lens accessory, a directional luminaire is well suited to produce uniform vertical illumin-

In indoor areas where protection against moisture or dust is required, Lightcast recessed luminaries ensure high-quality lighting even in these harsh environmental conditions

Igreja da Santissima Trindade, pilgrimage church, Fatima. Architect: Alexandros Tombazis, Athens. Lighting design: Bartenbach Lichtlabor, Innsbruck; Fernando Silva OHM-E, Porto.

Lightcast for PAR lamps



Recessed luminaries are suitable for both outdoor and indoor use. The housings are cast aluminium and powder-coated silver. Glarefree darklight reflectors are aluminium and silver anodised. The cut-off angle is 30°. The screwfastened cover rings with safety glass, which are visible from below, are also made of cast aluminium and provided with a special coating, over which a double powder-coating in silver is applied. The high-quality reflectors are protected against the ingress of dust and dirt of any kind. All PAR lamps may be used with spread lenses or sculpture lenses.

Downlights



The downlight is available in size 5. It is intended for QPAR30 100W.

Application Rotationally symmetrical light distribution, for many applications including the lighting of arcades, passageways, atriums or cantilevered roofs.

Directional luminaires



A directional luminaire is available in size 5. A QPAR30 100W is used here. The lampholder carrier can be tilted up to 15° and rotated through 360°.

Application

Axially symmetrical light distribution, for many applications including accent lighting of arcades, passageways, atriums or cantilevered roofs

Lightcast Downlight for PAR lamps







Weight 2.20kg

♠ ▲ ▲ IP65

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LMF E

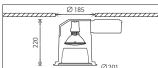
Size 5 30°

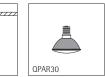
Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. 2 cable entries. Through-wiring possible. 5-pole terminal block.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.

Protection mode IP65: dust-proof and water-jet proof.

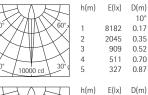
Accessories page 1018





QPAR30





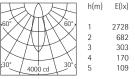
0.54

1.07

1.61

2.14

2.68



Lightcast Directional luminaire for PAR lamps







Weight 2.50kg LMF E 日本 🌑 🅸 🕮 🏵 ♠ ▲ ▲ IP65



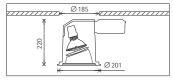
Housing: cast aluminium, silver powder-coated. Lampholder carrier 0°-15° tilt. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. 2 cable entries. Through-wiring possible.

5-pole terminal block. Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Sculpture

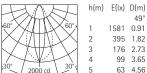
Screw-fastened cover ring with safety glass: corrosion-resistant, cast alu-minium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.

Protection mode IP65: dust-proof and water-jet proof.

Accessories page 1018



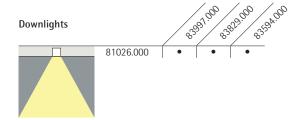


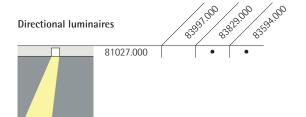


49° 23° 1581 0.91 0.41 395 1.82 0.81 176 2.73 1.22 99 3.65 1.63 63 4.56 2.03

www.erco.com

Lightcast Accessories











83997.000 Softec lens

83829.000
DALI
DALI dimmer 1000W
for ohmic loads, conventional and electronic transformers.
Mounting on DIN rail.
Weight 0.18kg





83594.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 5.50kg

Lightcast for high-pressure discharge lamps



Due to their long life, discharge lamps have an advantage over tungsten halogen lamps: extended maintenance cycles significantly improve the quality of performance of the luminaires. Together with high luminous flux and outstanding energy efficiency, they retain their colour throughout their long life. High protection mode downlights are suitable for the transitional areas between indoors and outdoors. Typically, they are used for balconies, porches, cantilevered roofs and covered terraces.

The ability of the lamp and reflector to be tilted up to 15° from the vertical and be rotated through 360° horizontally is characteristic for directional luminaires. This allows the beam to be aimed at almost any area of the room, to provide the intended accent lighting. Furthermore, when fitted with a sculpture lens accessory, a directional luminaire is well suited to produce uniform vertical illuminance.

In indoor areas where protection against moisture or dust is required, Lightcast recessed luminaries ensure high-quality lighting even in these harsh environmental conditions. In addition, the patented diffuser technology of the downlights increases the visual comfort of the darklight reflectors.

Sheikh Zayed bin Sultan Al Nahyan Mosque, Abu Dhabi. Architect: Yusef Abdelki (design), Halcrow, Dubai Office (implementation). Interior design: Spatium Architects, Milan. Lighting design: Speirs and Major Associates, Edinburgh.

1019

Lightcast for high-pressure discharge lamps



Recessed luminaries are suitable for both outdoor and indoor use. The housings are cast aluminium and powder-coated silver. Glarefree darklight reflectors are aluminium and silver anodised. The cut-off angle is 30°. The screwfastened cover rings with safety glass, which are visible from below, are also made of cast aluminium and provided with a special coating, over which a double powdercoating in silver is applied. The high-quality reflectors are protected against the ingress of dust and dirt of any kind. The control gear units required for the operation of the lamps are installed in the sidemounted black plastic control gear units.

Downlights



Downlights are available in sizes 3 and 5. They are fitted with 20W, 35W or 70W metal halide lamps.

Application Rotationally symmetrical light distribution for many applications including the lighting of arcades, passageways or atriums.

Directional luminaires



Directional luminaires are available in size 5. They are fitted with 35W or 70W metal halide lamps. The lampholder carrier can be tilted up to 15° and rotated through 360°.

Application
Axially symmetrical light distribution, for many applications including accent lighting of arcades, passageways or atriums.



Opera House, Copenhagen. Architect: Henning Larsens Tegnestue A/S. Lighting design: Speirs and Major Associates Edinburgh.

Lightcast Downlight for metal halide lamps







Housing: cast aluminium, silver powder-coated. Mounting with 2-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. Electronic control gear. 2 cable entries.

Through-wiring possible. 5-pole terminal block.

Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted.

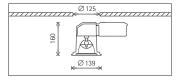
Screw-fastened cover ring with safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement.

Protection mode IP65: dust-proof and water jet-proof.

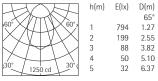
Accessories page 1022

81040.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650lm















Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Sidemounted control gear: cast aluminium, powder-coated black.

2 cable entries. Through-wiring possible. 5-pole terminal block.

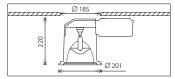
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted.

glass, frosted.
Screw-fastened cover ring with safety
glass: corrosion-resistant, cast aluminium, No-rinse surface treatment.
Silver double powder-coated. To be re-

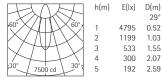
moved together with Darklight reflector for lamp replacement. Protection mode IP65: dust-proof and water-jet proof.







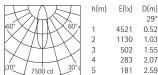




81022.000 Reflector silver HIT-CE 35W G12 3300lm Control gear with temperature controller, timer-ignitor, capacitor.

Ø 185

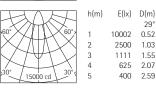




81050.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear.

Ø 185 Ø 201





D(m)

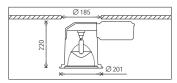
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1.03

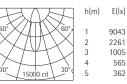
1.55

2.07

2.59

81030.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timer-ignitor, capacitor. 





Lightcast Directional luminaire for metal halide lamps







Housing: cast aluminium, silver powder-coated. Lampholder carrier Ö°-15° tilt. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: cast aluminium, powdercoated black.

2 cable entries. Through-wiring possible. 5-pole terminal block. Reflector: aluminium, silver, bright anodised. Sculpture lens.

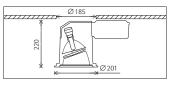
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Screw-fastened cover ring with safety glass: corrosion-resistant, cast alu-

minium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement. Protection mode IP65: dust-proof and

water-jet proof.







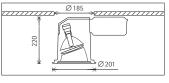












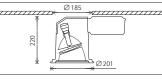












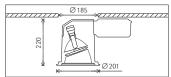










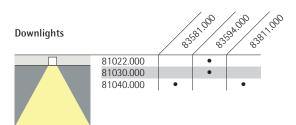


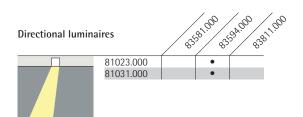




٦	h(m)	E(Ix)	D(m)	
			17°	42°
K	1	11502	0.30	0.77
V	2	2875	0.60	1.54
1	3	1278	0.90	2.30
1	4	719	1.20	3.07
`₫	Е	460	1 40	20/

Lightcast Accessories















83581.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 5.20kg

83594.000 Concrete housing Metal, powder-coated. Recommended 0-8mm aggregate for the concrete. Weight 5.50kg





83811.000 Spacer plate For flush-mounting of downlights in concrete housings in exposed concrete ceilings. Weight 0.08kg

Lightcast for compact fluorescent lamps



The essential advantages of compact fluorescent lamps are their long service life and reduced energy consumption, especially when using electronic control gear. Their compact dimensions and energy efficiency makes them ideal for use in downlights. High protection mode downlights are suitable for the transitional areas between indoors and outdoors. Typically they are used for balconies, porches, cantilevered roofs and covered terraces. In indoor areas where protection against moisture or dust is required, Lightcast recessed luminaries ensure high-quality lighting even in these harsh environmental conditions. In addition, the patented diffuser technology of the downlights increases the visual comfort of the darklight reflectors.

Europabad, Karlsruhe. Architect: Geier + Geier, Stuttgart. Lighting design: b.i.g. Bechtold Ingenieurgesellschaft, Karlsruhe.

Lightcast for compact fluorescent lamps



Downlights are suitable for both outdoor and indoor use. The housings are cast aluminium and powder-coated silver. Glare-free darklight reflectors are aluminium and silver anodised. The cut-off angle is 30°. The screw-fastened cover rings with safety glass, which are visible from below, are also made of cast aluminium and provided with a special coating, over which a double powder-coating in silver is applied. The high-quality reflectors are protected against the ingress of dust and dirt of any kind. The ECGs required for the operation of the lamps are installed in the side-mounted black plastic control gear units.

Downlights



Downlights are available in size 5 with electronic control gear. They are fitted with 18W compact fluorescent lamps.

Application Rotationally symmetrical light distribution for many applications including the lighting of arcades, passageways or atriums.

Lightcast Downlight for compact fluorescent lamps





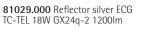


Housing: cast aluminium, silver Housing: cast aluminium, silver powder-coated. Mounting with 3-point support and screw fixing, for ceiling thicknesses of 1-30mm. Side-mounted control gear: plastic, black. Electronic control gear. 2 cable entries. Through-wiring possible. 5-pole terminal block.

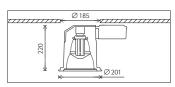
Darklight reflector: aluminium, bright anodised. Cut-off angle 30°. Diffuser: plastic, translucent.

Screw-fastened cover ring with safety glass: corrosion-resistant, cast aluminium, No-rinse surface treatment. Silver double powder-coated. To be removed together with Darklight reflector for lamp replacement. Protection mode IP65: dust-proof and

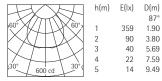
water-jet proof. Accessories see below



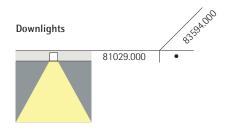








Lightcast Accessories







83594.000 83594.000
Concrete housing
Metal, powder-coated.
Recommended 0-8mm aggregate for the concrete. Weight 5.50kg

Paratec



Perfectly uniform lighting can give walls an almost immaterial quality – even more so when the light source is hidden as discreetly as possible. Such lightingdesign concepts, which ERCO developed for indoor areas a long time ago, can also be applied outdoors with Paratec wallwashers. This range of luminaires with their cast aluminium housings rated IP65 are also suitable for use in indoor areas that are particularly subject to dust or moisture, e. g. swimming pools, wellness centres or historic buildings.

Paratec wallwashers have the same highly asymmetric light distribution as the Parscoop. The difference is that Paratec wallwashers are installed in walls or ceilings.

Europabad, Karlsruhe. Architect: Geier + Geier, Stuttgart. Lighting design: bi.g. Bechtold Ingenieurgesellschaft, Karlsruhe.

Paratec



Paratec luminaires are offered in three sizes, accordingly named Paratec I to Paratec III. These are designed for recessed mounting in walls or ceilings. The housings are high-quality cast aluminium provided with a special coating. Over this, a double powder-coating is applied. The triangular portion of the housing is visible below the ceiling. The double powdercoating is available in graphit m and white. Clear safety glasses act as luminaire cover.

The high quality silver anodised aluminium reflector system is protected against the penetration of

The high quality silver anodised aluminium reflector system is protected against the penetration of dust and dirt of any kind. Concrete housings are available as accessories

Wallwashers



Depending on size, version and connected load, double-ended tungsten halogen lamps up to 300W or metal halide lamps up to 150W. The necessary ECGs are integrated inside the housings. The reflector system allows wallwashing up to 12m high with uniform illuminance distribution.

Application Asymmetric light distribution for

Asymmetric light distribution for efficient, high-quality wallwashing or even ceiling washlighting when recessed in walls.

1027

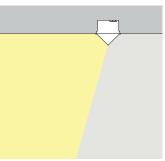
Köpcentrum 421, Västra Frölunda. Architecture and lighting design: Wingardh Arkitektkontor AB, Gothenburg.

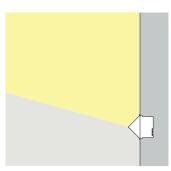


Paratec



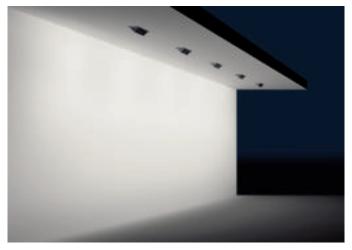
The Paratec wallwasher illuminates the wall from the very top and can thus create scenic lighting effects on façades. Its light distribution ensures highly uniform illumination of the wall and is suitable for façade heights of up to 12m.

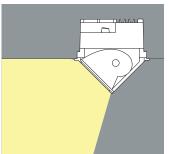




The uniform light distribution is ideal both for vertical surfaces and horizontal surfaces as Paratec can be installed as a recessed ceiling or recessed wall luminaire.

The reflector geometry creates an asymmetrical light beam to produce a highly uniform illumination. The luminaire projects below the surface to produce maximum uniformity. When used for wallwashing as a ceilingmounted version, the luminaire spreads the light from the very top of the wall at ceiling level. This produces a uniform impression of brightness on the surface from top to bottom.





Paratec I Wallwasher for tungsten halogen lamps







Weight 2.65kg

♠ ▲ ▲ IP65

LMF E 日本 **愛** ©

Recessed mounting: housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powdercoated. Mounting with 4-point support and screw fixing, for ceiling thicknesses of 1-25mm.

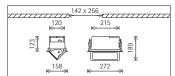
Separate connection compartment: 2 cable entries. Through-wiring possible. 5-pole terminal block.

Wallwasher reflector: aluminium, silver, satin matt anodised.

Surface mounting: luminaire attachment with safety glass: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. For

lamp replacement removable retained on safety cords. Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 1032







Mean illuminance E_n (lx)

Paratec I Wallwasher for metal halide lamps



33905.000 Graphit m ECG **33906.000** White (RAL9002) ECG HIT-CE 35W G12 3500lm



Weight 3.00kg LMF E 日本 **《** © © **》 A** IP65



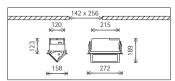
Separate connection compartment: 2 cable entries. Through-wiring possible. 5-pole terminal block. Electronic control gear.

gear. Wallwasher reflector: aluminium, silver, satin matt anodised.

satin matt anodised. Surface mounting: luminaire attachment with safety glass: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. For lamp replacement removable retained on safety cords.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 1032







Mean illuminance E_n (lx)
Wall height (m) 4.0

 Offset from wall (m)
 1.50
 1.50
 1.75
 1.75

 Luminaire spacing (m)
 1.50
 2.00
 1.75
 2.50

 Illuminance E_n (kx)
 316
 240
 254
 179

Paratec II Wallwasher for tungsten halogen lamps







Recessed mounting: housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Mounting with 4-point support and screw fixing, for ceiling thicknesses of 1-25mm.

Separate connection compartment: 2 cable entries. Through-wiring possible. 5-pole terminal block.

Wallwasher reflector: aluminium, silver, satin matt anodised.

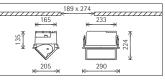
Surface mounting: luminaire attachment with safety glass: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. For

lamp replacement removable retained on safety cords. Protection mode IP65: dust-proof and

water jet-proof.
Accessories page 1032

33920.000 Graphit m **33921.000** White (RAL9002) OT-DE12-RE 120W 230V R7s L114mm 2300lm









Mean illuminance E_n (lx)

Paratec II Wallwasher for metal halide lamps







Recessed mounting: housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated. Mounting with 4-point support and screw fixing, for ceiling thicknesses of 1-25mm.

Separate connection compartment: 2 cable entries. Through-wiring possible. 5-pole terminal block. Electronic control gear.

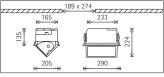
gear.
Wallwasher reflector: aluminium, silver, satin matt anodised

satin matt anodised. Surface mounting: luminaire attachment with safety glass: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. For lamp replacement removable retained on safety cords. HST-DE 70W possible.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 1032

33925.000 Graphit m ECG **33926.000** White (RAL9002) ECG HIT-DE-CE 70W RX7s 6500Im







Mean illuminance E_n (lx)

Paratec III Wallwasher for tungsten halogen lamps







Weight 4.70kg

♠ ▲ ▲ IP65

LMF E 日本 ② ◎ ◎

Recessed mounting: housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powdercoated. Mounting with 4-point support and screw fixing, for ceiling thicknesses

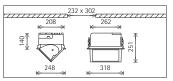
Separate connection compartment: 2 cable entries. Through-wiring possible. 5-pole terminal block.

Wallwasher reflector: aluminium, silver, satin matt anodised.

Surface mounting: luminaire attachment with safety glass: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated. For

lamp replacement removable retained on safety cords. Protection mode IP65: dust-proof and

water jet-proof. Accessories page 1032







Mean illuminance E_n (lx)

Wall height (m) 4.0 1.25 1.25 1.50 1.50 1.25 1.50 1.50 2.00 Offset from wall (m) Luminaire spacing (m) Illuminance E_n (lx)

Paratec III Wallwasher for metal halide lamps



33945.000 Graphit m **33946.000** White (RAL9002) HIT-DE-CE 150W RX7s 14200lm



Weight 7.20kg LMF E **%**05 @ PO ♠ ▲ ▲ IP65



Separate connection compartment: 2 cable entries. Through-wiring possible. 5-pole terminal block. Control gear with temperature controller, timer-ignitor,

Wallwasher reflector: aluminium, silver, satin matt anodised.
Surface mounting: luminaire attach-

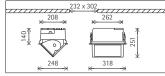
ment with safety glass: corrosion-res-

istant cast aluminium, No-rinse surface treatment. Double powder-coated. For lamp replacement removable retained on safety cords. HST-DE 150W possible.

Protection mode IP65: dust-proof and

water jet-proof.

Accessories page 1032







Mean illuminance En (Ix) Wall height (m) 8.0 Offset from wall (m)

2.50 2.50 3.00 3.00 2.50 3.00 3.00 3.50 Luminaire spacing (m)
Illuminance E_n (lx) 386 323 301 259

Paratec Accessories

	/	000	000	000	000	.6
	835	3 ¹² ,000	33 ^{A,00} 33	335	356,000	861.
33900.000	•	•	•			
33901.000	•	•	•			
33905.000		•	•			
33906.000		•	•			
33920.000	•	•		•		
33921.000	•	•		•		
33925.000		•		•		
33926.000		•		•		
33940.000	•	•			•	
33941.000	•	•			•	
33945.000		•			•	
33946.000		•			•	





83829.000 DALI
DALI dimmer 1000W
for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34974.000 Distribution box, IP68
With four cable entries, 7-25mm.
Plastic.









33965.000 Concrete housing
Metal, black powder-coated.
Recommended 0-8mm aggregate for the concrete.
Weight 3.60kg







33967.000 Concrete housing
Metal, black powder-coated.
Recommended 0-8mm aggregate for
the concrete.
Weight 4.60kg



Veltins Arena station, Gelsen-kirchen. Architect: Staubach+Kuckertz Architekten, Ber-

Surface-mounted downlights



Often quite pragmatic considerations lead to the use of surface- mounted luminaires - such as when there is insufficient space in the ceiling to install conventional downlights. The conscious decision for a lighting concept with surface-mounted luminaires considerably reduces the level of installation work in solid ceilings or existing buildings, plus the lighting design can be flexibly adjusted to suit the given situation. Surface-mounted luminaires are available with various light characteristics ranging from downlights and directional luminaires to wallwashers, making them ideal for continuing lighting concepts from the indoor into the outdoor area.







Cylinder



LEDs LEUS Low-voltage halogen lamps PAR lamps High-pressure discharge lamps Fluorescent lamps

New in the program



Cylinder



increases the visual comfort of the darklight reflectors.

Baths, Bad Boll. Architect: Michel+Wolf+Partner, Stuttgart.

The lighting technology of Cylinder surface-mounted ceiling downlights corresponds to that of their recessed-mounted counterparts. The cylindrical surface-mounted housing is of corrosion resistant, powder-coated cast aluminium. High protection mode surface-mounted downlights are suitable for the transitional areas between indoors and outdoors. Typically they are used for balconies, porches, cantilevered roofs and covered terraces. Surface-mounted directional luminaires have a glare-free darklight reflector and look similar to surface-mounted downlights. The surface-mounted lens wallwashers create a uniform light distribution over the whole wall

The ability of the lamp and reflector to be tilted up to 20° from the vertical is characteristic for surface-mounted directional luminaires. This allows an accent beam to be aimed to suit a specific lighting task. The integral sculpture lens in a directional luminaire means that it can produce an even vertical illuminance. The Cylinder surface-mounted luminaires are available with LEDs, for low-voltage halo-gen lamps, PAR lamps, metal halide lamps or compact fluorescent lamps. In indoor areas where protection against moisture or dust is required, they ensure high-quality lighting even in these harsh environmental conditions. In addition, the patented diffuser technology

Cylinder



Cylinder surface-mounted downlights are suitable for both outdoor and indoor use. The housings and the screw-mounted cover rings with safety glass are made of cast aluminium, provided with a special coating and double powder-coated in the shade Graphit m. Glare-free darklight reflectors are aluminium and silver anodised. The cut-off angle is 30°. The high-quality reflectors are protected against the ingress of dust and dirt of any kind.

Surface-mounted downlights



The surface-mounted downlights are available in sizes 3 and 5 with LEDs, for low-voltage halogen lamps, PAR lamps, metal halide lamps or compact fluorescent lamps.

Application Rotationally symmetrical light distribution for many applications including the lighting of arcades, passageways or atriums.

Surface-mounted lens wallwashers



The surface-mounted lens wall-washers are available in size 5. They are available with high-power LEDs in warm white or daylight white.

Application
Asymmetrical light distribution for uses including wall lighting and the illumination of facades as well as arcades, passageways and atriums.

Surface-mounted directional luminaires



Surface-mounted directional luminaires are available in size 5 with LEDs, for low-voltage halogen lamps, PAR lamps or metal halide lamps. The lampholder carriers can be tilted up to 20°. Some directional luminaires are fitted with a sculpture lens which changes the round beam into an oval.

Application Axially symmetrical light distribution, for many applications including accent lighting of arcades, passageways or atriums.

1035

Cylinder

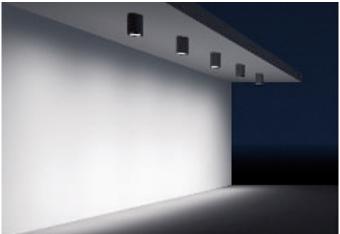






The downlights produce a widebeam light distribution for ambient lighting, e.g. for entrances or passages.

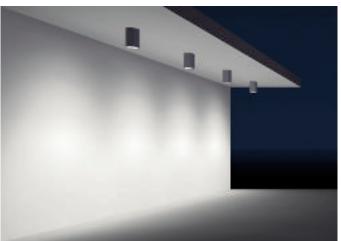






The lens wallwasher produces an asymmetrical light distribution for uniform illumination of vertical surfaces.







The sculpture lens fitted in the directional luminaire changes the circular beam to an oval. This means that a linear arrangement can produce a band of light on the ground. If directed onto the wall, the light distribution can



produce a wall-washing effect.







The narrow beam angle of the directional luminaires is ideal both for highlighting architectural details and accenting objects. The lampholder carrier can be tilted by up to 20°.

Cylinder Surface-mounted downlight with LED





85043.000 Graphit m LED warm white

LED 7W 480lm 3200K

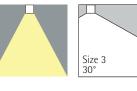
Version 1

Version 1



♠ ▲ ▲ IP65

Weight 1.70kg LMF E ♠ ▲ ▲ IP65



Cylinder and ceiling fixture: corrosionresistant cast aluminium, No-Rinse surface treatment. Double powdercoated.

2 electronic control gear units. 1 cable entry. Through-wiring possible. 2-pole

terminal block.
Replaceable LED module: high-power
LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted.

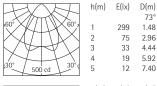
Fixing ring with safety glass: corro-

sion-resistant cast aluminium, double powder-coated. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof. Available as of 3rd quarter of 2010

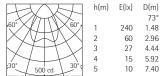
Accessories page 1042













85048.000 Graphit m LED daylight white LED 28W 2160lm 5500K Version 1

85049.000 Graphit m LED warm white

LED 28W 1740lm 3200K

Version 1



Weight 4.10kg

日本 **◆ ▲ △** IP65

LMF E

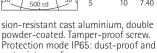


Cylinder and ceiling fixture: corrosionresistant cast aluminium, No-Rinse surface treatment. Double powdercoated.

Electronic control gear. 1 cable entry. Through-wiring possible. 3-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Fixing ring with safety glass: corro-



E(Ix) D(m)

1284 1 25

321 2.50

143 3.75

5.00

6.25

D(m)

64°

1 25

2.50

3.75 5.00

6.25

D(m)

1.04 2.08

3.12

5.21

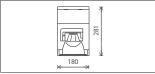
1037

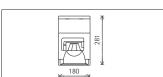
h(m)

2

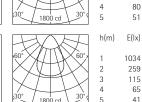
3

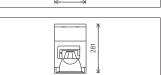
water jet-proof. Available as of 3rd quarter of 2010 Accessories page 1042













Cylinder Surface-mounted downlight for low-voltage halogen lamps



85025.000 Graphit m QT12-ax-RE 50W 12V GY6.35 1250lm



Weight 1.55kg LMF E

日本 🌃 🕮 🕞

♠ ▲ ▲ IP65



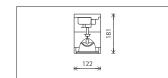
Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder coated.

Electronic transformer 230/240/12V. 1 cable entry. Through-wiring possible. 2-pole terminal block.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp re-placement. Tamper-proof screw.

Use dimmers for electronic transformers (trailing edge). Protection mode IP65: dust-proof and

water jet-proof. Accessories page 1042





HAAH	h(m)	E(Ix
60°	1	892
	2	223
	3	99
	4	56
30° (5	36

Cylinder Surface-mounted downlight for low-voltage halogen lamps







30°



Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powdercoated.

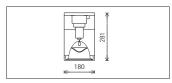
Electronic transformer 230/12V, 35-105W. 1 cable entry. Through-wiring possible. 3-pole terminal block. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp re-

placement. Tamper-proof screw.

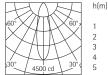
Use dimmers for electronic transformers (trailing edge). Protection mode IP65: dust-proof and

water jet-proof. Accessories page 1042









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	n(m)	E(IX)	D(m)
			26°
7	1	3588	0.46
	2	897	0.92
1	3	399	1.39
	4	224	1.85
,4	5	144	2.31

Cylinder Surface-mounted downlight for PAR lamps



85035.000 Graphit m QPAR30 100W 230V E27 10° QPAR30 100W 230V E27 30°



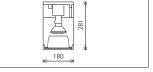
Size 5 30°

Weight 3.70kg LMF E 日本 🌃 🕮 🕙 ♠ ▲ ▲ IP65



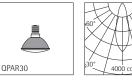
Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powdercoated.
1 cable entry. Through-wiring possible.

3-pole terminal block. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp re-placement. Tamper-proof screw. Protection mode IP65: dust-proof and



water jet-proof.









water iet-proof.

Accessories page 1042

1	h(m)	E(Ix)	D(m)
1			10°
1	1	8182	0.17
	2	2045	0.35
1	3	909	0.52
	4	511	0.70
1	5	327	0.87
_			

1	h(m)	E(Ix)	D(m)
			30°
1	1	2728	0.54
	2	682	1.07
1	3	303	1.61
	4	170	2.14
1	5	109	2.68
	3	303 170	1.6 2.1

Cylinder Surface-mounted downlight for metal halide lamps



85044.000 Graphit m ECG HIT-TC-CE 20W PGJ5 1650lm



Weight 1.50kg LMF E **₹**05 <u>₩</u> P∂ ♠ ▲ ▲ IP65

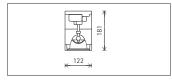


Cylinder and mounting plate: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powdercoated.

Electronic control gear. 1 cable entry. Through-wiring possible. 2-pole terminal block.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted. Fixing ring with safety glass: corro-

sion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw.





	h(
60°,	1

	n(m)	E(IX)	D(m)
			65°
× 60°	1	794	1.27
$/ \top / / \sim$	2	199	2.55
	3	88	3.82
	4	50	5.10
1250 cd 30° s	5	32	6.37

Protection mode IP65: dust-proof and

Cylinder Surface-mounted downlight for metal halide lamps







Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.

Control gear with temperature controller, timer-ignitor, capacitor. 1 cable entry. Through-wiring possible. 3-pole terminal block.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: glass, frosted.

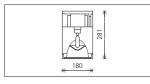
Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together

with Darklight reflector for lamp replacement. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof.

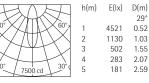
Accessories page 1042

85045.000 Graphit m HIT-CE 35W G12 3300lm



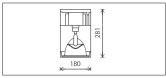




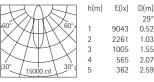


85065.000 Graphit m HIT-CE 70W G12 6600lm









Cylinder Surface-mounted downlight for compact fluorescent lamps







Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder-coated.

Electronic control gear. 1 cable entry. Through-wiring possible. 3-pole terminal block.

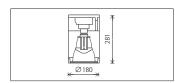
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Diffuser: plastic, translucent. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw.

Protection mode IP65: dust-proof and water jet-proof.

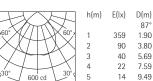
Accessories page 1042

85060.000 Graphit m ECG TC-TEL 18W GX24q-2 1200lm









Coal washery, Zollverein colliery, Essen. Architect: OMA, Rem Koolhaas, Rotterdam; Böll & Krabel, Essen. Lighting designer: Licht Kunst Licht, Bonn/Berlin.



Cylinder Surface-mounted lens wallwasher with LED







Cylinder and ceiling fixture: corrosionresistant cast aluminium, No-Rinse surface treatment. Double powdercoated.

Electronic control gear, 1 cable entry. Through-wiring possible. 3-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised.

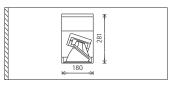
Darklight reflector: aluminium, bright anodised, with upper wallwasher lens. Cut-off angle 40°. Rotatable through 360°.

Fixing ring with cover glass: corrosion-resistant cast aluminium, double powder-coated. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof. Available as of 3rd quarter of 2010

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85054.000 Graphit m LED daylight white LED 28W 2160lm 5500K Version 1

Weight 4.10kg 日本 **◆ ▲ △** IP65



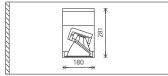


Mean illuminance E_n (Ix)

Wall height (m) 3.0 0.90 0.90 1.20 1.20 Offset from wall (m) Luminaire spacing (m) 0.90 1.20 1.20 1.50 Illuminance E_n (Ix)



Weight 4.10kg LMF E 日本 **◆ ▲ △ I**P65





Mean illuminance E_n (lx)

Wall height (m) 0.90 0.90 1.20 1.20 Offset from wall (m) 0.90 1.20 1.20 1.50 Luminaire spacing (m) Illuminance E_n (Ix)

Cylinder Surface-mounted directional luminaire with LED







Cylinder and ceiling fixture: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powdercoated.

Electronic control gear. 1 cable entry. Through-wiring possible. 3-pole terminal block.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Lens system, spot: collimating lens, plastic, clear. 0°-20° tilt, 360° rotation.

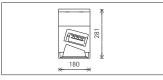
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°.

Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof. Available as of 3rd quarter of 2010

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85050.000 Graphit m LED daylight LED 21W 1620lm 5500K Version 1

Weight 4.10kg LMF E 日本 **◆ ▲ △** IP65



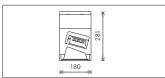




D(m) E(Ix) h(m) 16° 10979 0.28 2745 0.56 1220 0.84 686 1.12 439 1.41

85051.000 Graphit m LED warm white LED 21W 1305lm 3200K

Weight 4.10kg LMF E 日本 **◆ ▲ △** IP65







h(m) E(Ix) D(m) 8844 0.28 2211 0.56 983 0.84 553 1.12 354 1.41

Cylinder Surface-mounted directional luminaire for low-voltage halogen lamps



85070.000 Graphit m QT12-ax 100W 12V GY6.35 2200lm Spot reflector



Size 5

Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powdercoated. Lampholder carrier tiltable 0°-15°

Electronic transformer 230/12V, 35–105W. 1 cable entry. Through-wiring possible. 3–pole terminal block. Reflector: aluminium, silver, bright anodised. Sculpture lens.

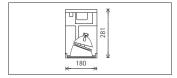
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw. Use dimmers for electronic transformers (trailing edge).

Protection mode IP65: dust-proof and water jet-proof.

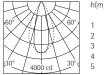
Accessories page 1042



LMF E







	n(m)	E(IX)	D(m)	
`			29°	51°
7	1	2869	0.52	0.95
\setminus	2	717	1.03	1.91
1	3	319	1.55	2.86
Ų,	4	179	2.07	3.82
°	5	115	2.59	4.77

Cylinder Surface-mounted directional luminaire for PAR lamps



85075.000 Graphit m QPAR30 100W 230V E27 10°



Weight 3.90kg 日本 🌃 🅮 🖭

♠ ▲ ▲ IP65



Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powder coated. Lampholder carrier tiltable 0°-15°.

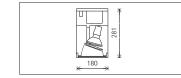
1 cable entry. Through-wiring possible. 3-pole terminal block.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Sculpture lens.

Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp re-placement. Tamper-proof screw.

Protection mode IP65: dust-proof and water jet-proof.

Accessories page 1042







h(m) E(lx) D(m) 49° 23° 1581 0.91 0.41 395 1.82 0.81 3 176 2.73 1.22 99 3.65 1.63 63 4.56 2.03

Cylinder Surface-mounted directional luminaire for metal halide lamps



85085.000 Graphit m HIT-CE 35W G12 3300lm Spot reflector

85090.000 Graphit m HIT-CE 70W G12 6600lm Spot reflector



Weight 5.00kg LMF E

日本 🌃 🕮 🕞 ♠ ▲ ▲ IP65

Weight 5.30kg LMF E

₹05 <u>₩</u> P∂

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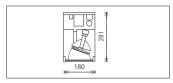


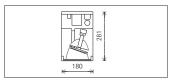
Cylinder and mounting plate: corrosion-resistant cast aluminium, No-rinse surface treatment. Double powdercoated. Lampholder carrier tiltable 0°-15°

Control gear with temperature controller, timer-ignitor, capacitor. 1 cable entry. Through-wiring possible. 3-pole terminal block.

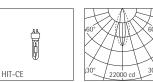
Reflector: aluminium, silver, bright anodised. Sculpture lens.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 30°. Fixing ring with safety glass: corrosion-resistant cast aluminium, double powder-coated. To be removed together with Darklight reflector for lamp replacement. Tamper-proof screw. Protection mode IP65: dust-proof and water jet-proof.
Accessories page 1042









П	h(m)	E(Ix)	D(m)	
			17°	42°
60°,	1	5751	0.30	0.77
\times	2	1438	0.60	1.54
	3	639	0.90	2.30
1	4	359	1.20	3.07
30°	5	230	1.49	3.84

h(m) E(lx) D(m) 11502 0.30 0.77 2 2875 0.60 1.54 1278 0.90 2.30 3 1.20 3.07 460 1.49 3.84

Cylinder Accessories

	/%	97190	345000	31A:000	390,000	94.00
	/ 8º	<u></u>	<u> </u>	<u>/ ~~</u>	<u> </u>	
85025.000		•	•	•		
85030.000		•	•		•	
85035.000	•	•			•	
85041.000				•		
85043.000				•		
85044.000			•	•		
85045.000			•		•	
85048.000					•	
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85054.000					•	
85057.000					•	
85060.000			•		•	
85065.000			•		•	
85070.000		•	•		•	
85075.000		•	•		•	
85085.000			•		•	
85090.000			•		•	









83997.000 Softec lens

83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg

34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic. Ø 95mm, L 240mm. Weight 0.47kg ◆ ▲ 3mIP68









34990.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.16kg

34994.000 Spacer for surface-mounted cables. Corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Weight 0.28kg



Circolo Sportivo RAI, Rome. Lighting design: Baldieri SIr., Rome

In-ground luminaires



In-ground luminaires are noticed catchers since the light source is positioned at ground level and the distinctive upward light direction immediately attracts attention In this respect they also assume some tasks of directive lighting, e. g. by marking pathways or highlighting entrances. In addition to these rather technical applications, the luminaires can also provide highly effective architectural lighting, whether individual features are dramatically highlighted or to emphasise architectural lines using a row of luminaires.















Tesis IP68



LEDs Low-voltage halogen lamps High-pressure discharge lamps

1055 1055

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LED orientation luminaires IP68



LEDs 1070 1069

New in the program



Tesis IP68 1044

Tesis IP68 In-ground luminaires



The square Tesis models have been completely redesigned with the emphasis on different wallwasher characteristics.

An ambitious lighting concept is even more dramatic if the light source is concealed as discreetly as possible. The demands placed on the versatility and quality of a range of in-ground luminaires for external use are even higher than those developed for internal use. Tesis IP68 in-ground luminaires include more than the typical lighting design tools such as uplights, directional luminaires and wallwashers. These, in combination with ERCO indoor lighting products, enable a holistic approach to architectural lighting. In addition, Tesis also sets new standards in terms of visual comfort for outdoor luminaires due to the extensive use of darklight reflector technology. The selection of round or square housing forms makes it possible to select the luminaire shape to suit the architectural language. Lamps available include LEDs, low-voltage halogen lamps or metal halide

Photometric innovations further extend the creative options of the lighting designer: precise grazing light on facades using adjustable uplights which require only very shallow recess depths while providing perfect anti-glare protection. For vertical illuminance: Tesis focal wallwashers with focal emphasis in the lower wall area for additional accent lighting on lettering, lens wallwashers for uniform facade illumination, or wallwashers which provide the highest level of

uniformity and emit a beam that extends upwards right from floor level. The LED varychrome luminaires have a colour compensation feature to correct the manufacturing tolerances of the coloured LEDs by calibrating the control gear. The result is that the same DALI control values will give the user exactly the same colour of light for all luminaires of a specific type. The DALI-compatible luminaires have digital control gear which can address each luminaire individually for instance using the ERCO Light System DALI with its integral ERCO Light Studio software.

Tesis IP68 In-ground luminaires



Recessed floor luminaires square



Focal wallwashers, lens wallwashers, wallwashers, directional luminaires, adjustable uplights and uplight luminaires are available in various sizes. The housings are made of corrosion-proof cast aluminium and provided with a special coating. Over this, a double powder-coating is applied. The flush in-ground luminaires have a highly load resistant safety glass. They are mounted within corrosion-resistant, stainless steel screwdown cover rings or frames. The factory supplies all luminaires complete with an electrical connection cable. Transformers, electronic or non-electronic control gear are integral to the luminaires. Tesis inground luminaires meet IP68 protection mode.

In addition to dust-proofing, this also means that they have high protection against the ingress of moisture. In-ground housings are available as accessories for all sizes. Sculpture lenses, daylight conver-

Square-shaped metal halide lamps are used in sizes 5 and 7 for focal wallwashers, lens wallwashers, wallwashers and directional luminaires. LED modules produce the light for the lens wallwasher and the inground varychrome luminaire in size 5. Directional luminaires and lens wallwashers have a cut-off angle of up to 40°. The focal emphasis of the light distribution of focal wallwashers is on the lower area of the wall. The wallwashers produce highly uniform lighting on facades.

sion filters or skintone filters are designed to be used beneath the safety glass and affect the light distribution or the light colour. Domed cover glasses help to prevent the accumulation of debris such as leaves, which is particularly valuable in landscape lighting.

Application

The light distribution of the square-shaped in-ground luminaires means that a variety of applications are possible. Focal wallwashers with asymmetrical light distribution and focal emphasis are ideal to produce accentuation of the lower area of the wall, for instance for lettering on facades. Lens wallwashers and wallwashers with asymmetrical light distribution are ideal for highly uniform facade illumination. Directional luminaires with narrow beam, rotationally symmetrical light distribution are ideal for applications such as accent lighting in parks, of facades and columns. Orientation luminaires with diffuse light distribution are ideal for applications including the identification of architectural edges and route directions.

Recessed floor luminaires round



Round low-voltage halogen lamps and metal halide lamps are used in sizes 4 to 7 for lens wallwashers, directional luminaires, adjustable uplights and uplights. The uplights have a cut-off angle of up to 50°, the directional luminaires and lens wallwashers have a cut-off angle of 40°. LED modules produce the light in the lens wallwasher and the in-ground luminaire in size 5.

Application

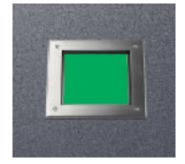
The light distribution options of the round recessed floor luminaires are ideal for various applications. Lens wallwashers with asymmetrical light distribution produce highly uniform facade illumination. Uplights and directional luminaires with narrow beam, rotationally symmetrical light distribution are ideal for applications including accent lighting in parks, of facades and columns. Orientation luminaires with diffuse light distribution are ideal for applications including the identification of architectural edges and route directions.

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www.erco.com ERCO Program 2010/11

Tesis IP68

Tesis varychrome recessed floor luminaires are highly visible objects, especially because they appear as diffusely illuminated areas on the floor. They function as directive lighting, e.g. by making pathways clear or by highlighting entrances.



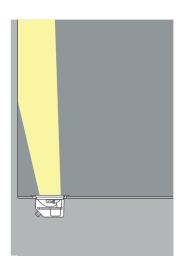




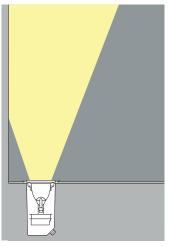
Tesis adjustable uplights combine high visual comfort and a particularly shallow installation depth. To enable precisely placed grazing light on facades – despite any inaccuracy when installing in the ground, the uplights' narrow light beam can be adjusted by a few degrees tilt.



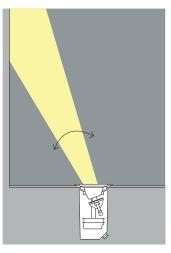
The LED lens wallwashers in warm white and daylight white are noteworthy for their high efficiency. Exceptional lamp life makes them an ideal light source for low-maintenance operation in the outdoor area.



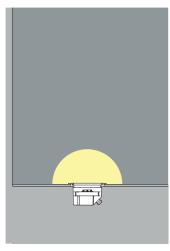
Tesis adjustable uplights for precise grazing light on facades or objects – for minimised installation depth.



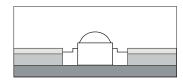
Uplights in Darklight reflector technology for light which grazes the facades or illuminates the eaves of the building.



Tesis directional luminaires for accentuating architectural objects, shrubbery or building details.



Orientation luminaires for marking out routes and to identify architectural lines.



LED heat management

Like other lamps, high-power LEDs generate heat. To prevent the luminous flux and life of the lamp from decreasing drastically, the maximum junction temperature must not be exceeded even during continuous operation. ERCO places particular importance on heat management in its luminaires to ensure that the LED modules remain below the critical temperature range and

operate at full output throughout their lives. Mounting the LED module directly on metal-core PCBs effectively dissipates the heat to the luminaire housing. Extensive simulations and tests in the development phase ensure the success of the production procedures used.

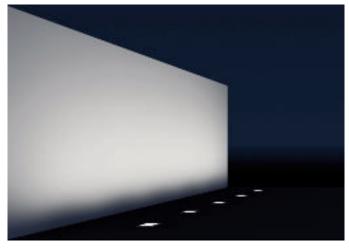


LED versions: due to the rapid technological development of the LEDs, the luminance has been rising steadily. ERCO documents this improvement as a product version on the type plate of the luminaires.

Tesis IP68

Focal wallwasher

The Tesis focal wallwasher produces an area of focal emphasis on vertical surfaces. At the same time, the higher illuminance levels in the lower area allow a building's plinth to be accentuated and enable a soft transition to be achieved for other facade lighting. No direct glare from the lamp arises within the 90° cut-off angle. The luminance is clearly perceptible on the luminaire cover and diffuser. The reflector lens system allows the beam to meet the wall just above the floor line.

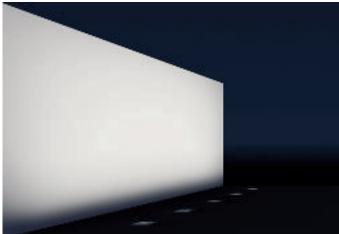




The focal wall-washer requires an offset from the wall of one third of the wall height. The recommended ratio of luminaire spacing to wall offset is 1:1.5.

Lens wallwasher

The Tesis lens wallwasher is ideal for a highly uniform brightness distribution across a facade. The Darklight technology prevents the eye from being dazzled, either by the lamp or by reflections in the reflector, as long as it remains within the scope of the 40° cutoff angle. Here, too, the beam produced by the reflector lens system intersects the wall just above the floor level.



The lens wall-washer is suitable for ratios of luminaire spacing to wall offset of up to 1:1.25.

Wallwasher

The Tesis wallwasher produces the highest uniformity on walls. Its cut-off angle of 90° establishes the basic requirement for high visual comfort. In contrast to the recessed floor luminaires, part of the lighting technology of the Tesis wallwasher protrudes above the floor surface. This permits a special light distribution, whereby the beam cast on the facade starts immediately above the floor. The wallwasher's cover glass remains hidden from view. The reflector technology is noted for its very high light output ratio.



The optimum offset from the wall for the wallwasher is half of the wall height. The luminaire spacing can be set at up to 1.25 times the offset from the wall.

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Installation information IP68

ERCO luminaires rated to protection mode IP68 are suitable for operation in both outdoor and indoor environments. According to VDE 0100, Part 702, operation of these luminaires in ponds or pools, e.g. swimming pools or fountains, and in the surrounding 2m zone is not permitted. The installation must comply with all relevant local regulations.



A junction box rated protection mode IP68 is available for the efficient throughwiring of a row of luminaires.

www.erco.com ERCO Program 2010/11

Tesis In-ground luminaire Focal wallwasher for metal halide lamps





33671.000 Reflector silver ECG HIT-TC-CE 20W G8.5 1700lm Electronic control gear. Temperature on the light aperture 46°C

Weight 4.80kg LMF E 日本 🚜 05

33675.000 Reflector silver ECG Weight 4.20kg LMF E HIT-TC-CE 35W G8.5 3500lm Electronic control gear. 日本 ❸05 Temperature on the light aperture 60°C ♦
♦
♦ 3mIP68

33676.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 60°C



Weight 5.20kg LMF E

3 № 63 3mlP68

33682.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Temperature on the light aperture 72°C

33683.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 72°C Weight 6.10kg LMF E 日本 🐠

Weight 7.10kg LMF E

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 11-46mm.

Cable 3x1.5mm², L 1m. Wallwasher reflector: aluminium, silver anodised. Vertical diffuser. Wallwasher

lens.

Screw-fastened cover frame with flush safety glass: corrosion resistant stain-less steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN.

Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker, Fl≦30mA.

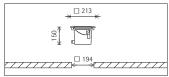
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Mean illuminance E_n (Ix)

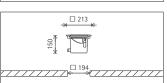
Wall height (m) Offset from wall (m)

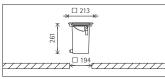
Luminaire spacing (m)

Illuminance E_n (Ix)



---HIT-TC-CE







HIT-TC-CE

Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) Illuminance E_n (Ix)

1.50 1.75 2.00 2.00 1.75 2.00 2.25 3.00 Luminaire spacing (m)

1.00 1.25 1.50 1.50

1.25 1.50 1.75 2.25



Wall height (m) Offset from wall (m) 1.50 1.75 2.00 2.00 1.75 2.00 2.25 3.00 Luminaire spacing (m) Illuminance E_n (Ix)

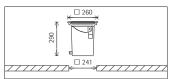
Size 7 Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 11-46mm. Cable 3x1.5mm², L 1m.

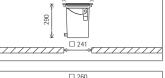
Wallwasher reflector: aluminium, silver anodised. Vertical diffuser. Wallwasher lens.

Screw-fastened cover frame with flush safety glass: corrosion resistant stain-less steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN.

Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided using a residual current circuit breaker, Fl≦30mA.

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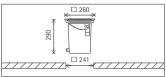






Mean illuminance E_n (lx) Wall height (m)

2.00 2.50 3.00 3.00 Offset from wall (m) 2.25 3.00 3.50 4.50 Luminaire spacing (m) Illuminance E_n (Ix) 74 57 45 108





Mean illuminance En (Ix) Wall height (m) Offset from wall (m) 2.00 2.50 3.00 3.00 Luminaire spacing (m) 2.25 3.00 3.50 4.50 Illuminance E_n (Ix) 67 52 40

Tesis In-ground luminaire Lens wallwasher with LED







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated black. Mounting by means of swing bolts. Clamp range 11-46mm.

Electronic control gear. Cable 3x1.5mm², L 1m. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Wallwasher lens. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Screw-fastened cover frame with flush safety glass: corrosion resistant stain-less steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep On site protection must be provided

using a residual current circuit breaker, Fl≦30mA. Available from 3rd quarter 2010

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33665.000 Reflector silver LED day-LÉD 28W 2160lm 5500K Version 1 Temperature on the light aperture 38°C Weight 5.20kg LMF E 日本 ◈ ♦ ♦ 3mIP68

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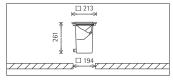
Mean illuminance E_n (Ix)

Wall height (m) 4.0 Offset from wall (m) 1.00 1.00 1.25 1.25 1.25 1.50 1.25 1.75 Luminaire spacing (m) Illuminance E_n (Ix)

33667.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1

Temperature on the light aperture 38°C

Weight 5.20kg 日本 ◆ ♦ ♦ 3mIP68





Mean illuminance E_n (lx)

Wall height (m) 4.0 Offset from wall (m) 1.00 1.25 1.25 1.25 1.25 1.00 1.25 1.75 Luminaire spacing (m) Illuminance E_n (Ix) 107 118









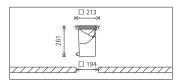
Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated black. Mounting by means of swing bolts. Clamp range 11-46mm.

DALI control gear, with plug and play connectivity. Cable, 5x1.5mm², L 1m. Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Wallwasher lens. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Screw-fastened cover frame with flush safety glass: corrosion resistant stainless steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. İnstallation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided

using a residual current circuit breaker, Fl≦30mA.

Available from 3rd quarter 2010 Accessories page 1054

33666.000 Reflector silver LED daylight white DALI LED 28W 2160lm 5500K Version 1 Temperature on the light aperture 38°C Weight 5.20kg LMF E ♦ ♦ ♦ 3mIP68

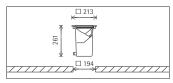




Mean illuminance En (Ix)

Wall height (m) 4.0 Offset from wall (m) 1.00 1.00 1.25 1.25 1.25 1.50 1.25 1.75 Luminaire spacing (m) Illuminance E_n (lx) 133 112 122

33668.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Temperature on the light aperture 38°C Weight 5.20kg LMF E ♦ ♦ 4 3mIP68





Mean illuminance E_n (lx) Wall height (m) 4.0 Offset from wall (m) 1.00 1.25 1.25 1.25 Luminaire spacing (m) 1.25 1.00 1.25 1.75 Illuminance E_n (lx) 107 118

www.erco.com ERCO Program 2010/11 1049

Tesis In-ground luminaire Lens wallwasher for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 11-46mm.
Cable 3x1.5mm², L 1m.
Wallwasher reflector: aluminium, silver anodised. Wallwasher lens.
Darklight reflector: Aluminium, silver, bright anodised. Cut-off angle 40°.
Screw-fastened cover frame with flush safety glass: corrosion resistant stainless steel. Safety glass: 15mm, clear.
Can be driven over by vehicles with pneumatic tyres. Load: 45kN.

Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker, FI≦30mA.

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33672.000 Reflector silver ECG HIT-TC-CE 20W G8.5 1700lm Electronic control gear. Temperature on the light aperture 50°C Weight 4.80kg LMF E 日本 《 A 3mlP68

213 25 213 25 213 213 213

HIT-TC-CE

 Mean illuminance E_n (lx)

 Wall height (m)
 3.0

 Offset from wall (m)
 1.00
 1.00
 1.25
 1.25

 Luminaire spacing (m)
 1.00
 1.25
 1.75
 1.75

 Illuminance E_n (lx)
 151
 124
 106
 77

33677.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Temperature on the light aperture 70°C 95 194

HIT-TC-CE

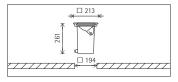
 Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 1.50
 1.50
 1.75
 1.75

 Luminaire spacing (m)
 1.50
 1.75
 1.75
 2.50

 Illuminance E_n (lx)
 134
 139
 85

33678.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 70°C 

HIT-TC-CE

 Mean illuminance E_n (lx)

 Wall height (m)
 4.0

 Offset from wall (m)
 1.50
 1.75
 1.75
 1.75

 Luminaire spacing (m)
 1.50
 1.75
 1.75
 2.50

 Illuminance E_n (lx)
 146
 127
 112
 80





Size 7 40°

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 11-46mm.
Cable 3x1.5mm², L 1m.
Wallwasher reflector: aluminium, silver anodised. Wallwasher lens.
Darklight reflector: Aluminium, silver, bright anodised. Cut-off angle 40°.
Screw-fastened cover frame with flush safety glass: corrosion resistant stainless steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN.

Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided using a residual current circuit breaker, FI≦30mA.

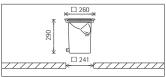
Accessories page 1054

Illuminance E_n (Ix)

33685.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Temperature on the light aperture 75°C Weight 6.50kg LMF E 日本 **⑤**⁵ **♦ ♦ 3**mlP68 060 060 0241



266 237 221 152

33686.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 75°C 



 Mean illuminance E_n (lx)

 Wall height (m)
 6.0

 Offset from wall (m)
 1.75
 1.75
 2.00
 2.00

 Luminaire spacing (m)
 1.75
 2.00
 2.00
 3.00

 Illuminance E_n (lx)
 241
 215
 200
 137

Tesis In-ground luminaire Wallwasher for metal halide lamps





33689.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Housing temperature 46°C Temperature on the light aperture 64°C

LMF E 日本 ❸₀₅

33690.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timed-ignitor and capacitor. Housing temperature 50°C Temperature on the light aperture 70°C Weight 3.40kg

Weight 4.40kg LMF E **3** № **4 3** mIP68

□ 213

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 11-46mm.

Cable 3x1.5mm², L 1m. Wallwasher reflector: aluminium, silver anodised.

Surface mounting: luminaire attachment with Softee lens as safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m, double powder-coated. Not to be driven over.

Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided using a residual current circuit breaker, Fl≦30mA.

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Mean illuminance E_n (Ix) □ 213 Wall height (m)

HIT-TC-CE

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment.

Black double powder-coated. Mounting by means of a swing bolt. Clamp

Wallwasher reflector: aluminium, silver anodised.

Surface mounting: luminaire attachment with Softec lens as safety glass: corrosion-resistant cast aluminium, No-Rinse surface treatment. Graphit m,

extension 11-46mm. Cable 3x1.5mm², L 1m.

double powder-coated. Not to be driven over.

4.0 Offset from wall (m) 1.75 1.75 2.00 2.00 1.75 2.25 2.00 3.00 Luminaire spacing (m) ---193 150 157 105 Illuminance E_n (Ix)

HIT-TC-CE

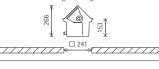
Mean illuminance E_n (Ix) Wall height (m) 4.0 1.75 1.75 2.00 2.00 1.75 2.25 2.00 3.00 Offset from wall (m) Luminaire spacing (m) **─**─ Illuminance E_n (Ix) 214 167 174 116





33691.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Housing temperature 50°C Temperature on the light aperture 80°C Weight 5.00kg LMF E 日本 ❸₀₅

33692.000 Reflector silver HIT-CE 70W G12 6600lm



□ 260 〔





Mean illuminance E_n (lx) Wall height (m) 6.0 2.50 2.50 3.00 3.00 Offset from wall (m) 2.50 3.00 3.00 4.00 Luminaire spacing (m) Illuminance E_n (lx) 190 158 141 106

Installation with separate junction box. Protection mode IP68 3m: protection

against dust ingress, and continuous

immersion up to 3m deep.
On site protection must be provided

Accessories page 1054

using a residual current circuit breaker,

Control gear with temperature controller, timed-ignitor and capacitor. Housing temperature 53°C Temperature on the light aperture 85°C Weight 6.20kg LMF E **⋘** ♦ **♦ ♦** 3mIP68





Mean illuminance E_n (Ix)

6.0 Wall height (m) 2.50 2.50 3.00 3.00 Offset from wall (m) 2.50 3.00 3.00 4.00 Luminaire spacing (m) Illuminance E_n (Ix) 211 176 157 117

www.erco.com ERCO Program 2010/11 1051

Tesis In-ground luminaire Directional luminaire for metal halide lamps





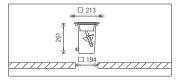


Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-20° tilt, 180° rotation. Mounting by means of a swing bolt. Clamp extension 11-46mm. Electronic control gear. Cable 3x1.5mm², L 1m. Spot reflector: aluminium, silver anodised. Bracket with anti-dazzle cap. Darklight reflector: aluminium, silver anodised. Cut-off angle 30°. Screw-fastened cover frame with flush safety glass: corrosion resistant stainless steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided

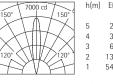
using a residual current circuit breaker, Accessories page 1054

33670.000 Reflector silver ECG HIT-TC-CE 20W G8.5 1700lm Temperature on the light aperture 47°C

Weight 4.80kg LMF E 日本 ❸₀₅ ♦ ♦ 4 3mIP68



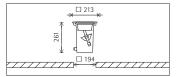




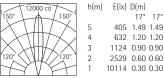
E(Ix) D(m) 16° 218 1.41 1.41 341 1.12 1.12 606 0.84 0.84 1364 0.56 0.56 5455 0.28 0.28

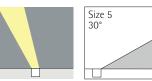
17° 17°

33673.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Temperature on the light aperture 60°C Weight 4.80kg LMF E 日本 🐝









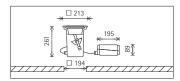
Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 1m. Lampholder carrier, 0°-20° tilt, 180° rotation. Mounting by means of a swing bolt. Clamp extension

Separate control gear: cast aluminium, black powder-coated. Through-wiring possible. 5-pole terminal block. Control gear with temperature controller, timed-ignitor and capacitor. Spot reflector: aluminium, silver anodised. Bracket with anti-dazzle cap. Darklight reflector: aluminium, silver anodised. Cut-off angle 30°. Screw-fastened cover frame with flush safety glass: corrosion resistant stainless steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Protection mode IP68 3m: protection

against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker, Fl≤30mA

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33674.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Temperature on the light aperture 60°C Weight 6.90kg LMF E







h(m) E(lx) D(m)17° 381 1.49 1.49 596 1.20 1.20 1060 0.90 0.90 2384 0.60 0.60 9536 0.30 0.30

Tesis In-ground luminaire Directional luminaire for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Connection cable, L 1m. Lampholder carrier, 0°-20° tilt, 180° rotation. Mounting by means of a swing bolt. Clamp extension 11-46mm.

Separate control gear: cast aluminium, black powder-coated. Through-wiring possible. 5-pole terminal block. Spot reflector: aluminium, silver anodised. Bracket with anti-dazzle cap. Darklight reflector: aluminium, silver anodised. Cut-off angle 30°. Screw-fastened cover frame with flush safety glass: corrosion resistant stain-less steel. Safety glass: 15mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep On site protection must be provided

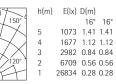
using a residual current circuit breaker, Fl≦30mA.

Accessories page 1054

33679.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Temperature on the light aperture 61°C Weight 7.30kg LMF E 日本 🚳 ♦
♦
♦ 3mIP68

□ 260 - 1 ≈ 1 □ 241





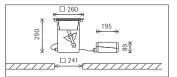
33680.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timed-ignitor and capacitor. Temperature on the light aperture 64°C Weight 8.50kg LMF E ♦ ♦ 4 3mIP68

□ 260 4 -] ≋≬ □ 241





33688.000 Reflector silver ECG HIT-CE 150W G12 15000lm Electronic control gear. Temperature on the light aperture 90°C Weight 7.70kg LMF E 日本 ❸₀₅ ♦ ♦ 3mIP68







E(lx) D(m) h(m) 17° 17° 1778 1.49 1.49 2777 1.20 1.20 3 4938 0.90 0.90 11110 0.60 0.60 44439 0.30 0.30

Tesis In-ground luminaire varychrome with LED





DALI PLUG+



Size 5

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp

cate, state of a swing bolt. Clamp extension 11-46mm. Cable, 5x1.5mm², L 1m. DALI control gear, with plug and play connectivity for ERCO varychrome

colour mixing.
Replaceable LED module: high-power LEDs on metal-core PCB.
Screw-fastened cover ring with flush

safety glass: corrosion resistant stainless steel. Safety glass: 15mm, white

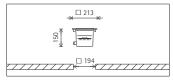
enamelled. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Installation with separate junction box. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep

On site protection must be provided

using a residual current circuit breaker. Fl≦30mA.

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33698.000 LED red, green, blue DALI LED 10W 290lm Version 1 Colour compensation for precise light Temperature on the light aperture 30°C Weight 4.10kg ♦
♦
♦ 3mIP68





Primary	colours I	ED module	
Colour '	Φ (Im)	λ(nm)	S(%)
Red	105	620-625	99
Green	138	525-530	77
Dluo	10	465 470	97

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Tesis IP68 Accessories

	/	/100/	/100/	/100/	/100/	/ no	/ no	/00 /00
	33	3400	31 ^{4,00} 33 ⁵	335	339	94.00 33	335	33697,00
33665.000	•	•	•	•		•		
33666.000	•	•	•	•		•		
33667.000	•	•	•	•		•		
33668.000	•	•	•	•		•		
33670.000	•	•	•	•		•		
33671.000	•	•	•	•	•			
33672.000	•	•	•	•	•			
33673.000	•	•	•	•		•		
33674.000		•				•		
33675.000	•	•	•	•	•			
33676.000	•	•	•	•		•		
33677.000	•	•	•	•	•			
33678.000	•	•	•	•		•		
33679.000		•						•
33680.000		•						•
33682.000	•	•	•	•				•
33683.000	•	•	•	•				•
33685.000	•	•	•	•				•
33686.000	•	•	•	•				•
33688.000		•						•
33689.000	•	•	•	•	•			
33690.000	•	•	•	•	•			
33691.000	•	•	•	•			•	
33692.000	•	•	•	•			•	
33698.000	•	•	•	•	•			

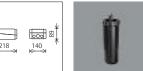






33699.000 Junction box Cast aluminium, powder-coated black. 2 screwed cable glands for cable diameters of 5-14mm.

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. Weight 1.20kg



34974.000 Distribution box, With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm. Weight 0.47kg



33958.000 Coupling sleeve for max. 16mm cable diameter. Plastic conduit, two-part PURcast resin. ø 26mm, L 180mm.

□ 250

□ 395

23



33959.000 Branching sleeve for 8-23mm cable diameter.
Plastic shell, two-part PUR cast resin. L 150mm, B 70mm, H 46mm.



33694.000 Housing for recessed mounting Corrosion-resistant aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Not for junction box 33699. Weight 2.60kg

390

□ 203







33695,000 Housing for recessed mounting Corrosion-resistant aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Not for junction box 33699. Weight 3.20kg





33697.000 Housing for recessed mounting Corrosion-resistant aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Weight 5.50kg

Tesis In-ground luminaire Adjustable uplight for low-voltage halogen lamps





Size 5

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

Safety transformer, 230/12V. Cable 3x1.5mm², L 1m.

High Beam reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 80°. Anti-dazzle cover: metal. Beam adjustable up to 15°. Without spill light. Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

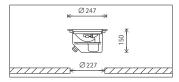
Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep

On site protection must be provided

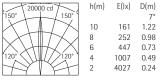
using a residual current circuit breaker,

Accessories page 1064

33710.000 Reflector silver QT12-ax-RE 50W 12V GY6.35 1250lm Temperature on the light aperture 90°C Weight 5.00kg LMF E 日本 む 🕮 🕞







Tesis In-ground luminaire Adjustable uplight for metal halide lamps





Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

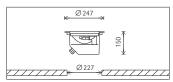
Electronic control gear. Cable 3x1.5mm², L 1m. High Beam reflector: aluminium, silver anodised, mirror-finish. Cut-off angle 80°. Anti-dazzle cover: metal. Beam adjustable up to 15°. Without spill light. Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN Installation with separate connection

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided

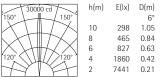
using a residual current circuit breaker, Fl≦30mA.

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33706.000 Reflector silver FCG HIT-TC-CE 20W PGJ5 1650lm Temperature on the light aperture 55°C Weight 3.60kg LMF E ♦ ♦ 4 3mIP68







1055

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Tesis In-ground luminaire Adjustable uplight for metal halide lamps





Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

Cable 3x1.5mm², L 1m.

High Beam reflector; aluminium, silver anodised, mirror-finish. Cut-off angle 80°. Anti-dazzle cover: metal. Beam adjustable up to 15°. Without spill light. Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection sleeve.

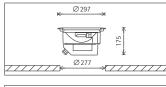
Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

On site protection must be provided

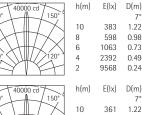
using a residual current circuit breaker,

Accessories page 1064

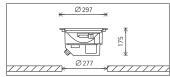
33711.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Temperature on the light aperture 65°C Weight 5.30kg LMF E **%**05 @ PO ♦
♦ 3mIP68







33712.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 65°C Weight 6.30kg LMF_E **₹**05 € P ♦ ♦ ♦ 3mIP68





40000 cd	h(m)	E(Ix)	D(m)
150° 40000 Cd 150°	()	L(IX)	7°
$\times \setminus \parallel / \times \mid$	10	361	1.22
	8	564	0.98
$X \times X \times$	6	1002	0.73
120°	4	2255	0.49
AXIXH	2	9022	0.24

Tesis In-ground luminaire Uplight for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

Electronic control gear. Cable 3x1.5mm², L 1m.

Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Diffuser: glass, frosted.

Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN.

Installation with separate connection sleeve

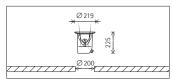
Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

On site protection must be provided using a residual current circuit breaker, FI≤30mA

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33702.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650lm Temperature on the light aperture 55°C







2000 cd	h(m)	E(Ix)	D(m)
50° 150°			40°
$\times / \Psi / \times $	5	57	3.64
	4	89	2.91
\times \times \times \times	3	158	2.18
20°	2	354	1.46
ANNA A	1	1418	0.73

Tesis In-ground luminaire Uplight for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

Cable 3x1.5mm², L 1m.
Darklight reflector: aluminium, silver,

bright anodised. Cut-off angle 50°.
Diffuser: glass, frosted.
Screw-fastened cover ring with flush

Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN.

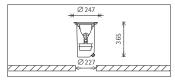
Installation with separate connection sleeve.

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided using a residual current circuit breaker, FI≦30mA.

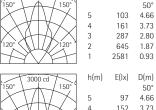
Accessories page 1064

33713.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Temperature on the light aperture 60°C





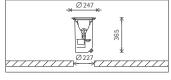




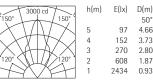
h(m) E(lx) D(m)

33714.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 60°C















Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

Cable 3x1.5mm², L 1m.
Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 50°.
Diffuser: glass, frosted.

Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN.

Installation with separate connection sleeve.

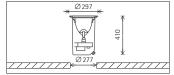
Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided

On site protection must be provided using a residual current circuit breaker, FI≦30mA.

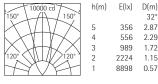
Accessories page 1064

33721.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Temperature on the light aperture 65°C

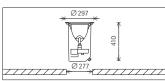




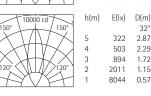


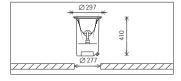


33722.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 65°C







33709.000 Reflector silver ECG HIT-CE 150W G12 15000lm Electronic control gear. Only for use with housing 33963.000. Use lamp with cylindrical discharge tube. Temperature on the light aperture 



22000 cd	h(m)	E(Ix)	D(m)
50° / 150°			32°
\times //// \times	10	197	5.73
XXIIX	8	308	4.59
\times \times \times \times	6	547	3.44
20° 120°	4	1231	2.29
AVVA	2	4926	1.15

www.erco.com ERCO Program 2010/11 1057

Tesis In-ground luminaire Lens wallwasher with LED







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Double powder-coated black. Mounting by means of swing bolts. Clamp range 5-40mm.

Electronic control gear. Cable 3x1.5mm², L 1m. Replaceable LED module: high-power

LEDs on metal-core PCB. Reflector for mixing light: aluminium, silver, mirrorfinish anodised. Wallwasher lens. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Installation with separate connection

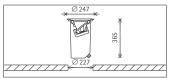
sleeve. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

On site protection must be provided using a residual current circuit breaker, Fl≦30mA.

Available from 3rd quarter 2010 Accessories page 1064

33661.000 Reflector silver LED day-LÉD 28W 2160lm 5500K Version 1 Temperature on the light aperture 38°C

Weight 5.90kg LMF E 日本 ◈ ♦ ♦ 3mlP68



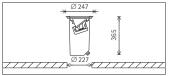


Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.75 Illuminance E_n (Ix)

33663.000 Reflector silver LED warm LED 28W 1740lm 3200K Version 1 Temperature on the light aperture 38°C

Weight 5.90kg LMF E 日本 ◈ ♦ ♦ 3mIP68





Mean illuminance En (Ix)

Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 1.00 1.25 1.25 1.75 Luminaire spacing (m)

Available from 3rd quarter 2010 Accessories page 1064





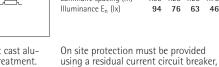
40°



Housing: corrosion-resistant cast alu-Size 5 minium, No-Rinse surface treatment. Double powder-coated black . Mounting by means of swing bolts. Clamp range 5-40mm.

Replaceable LED module: high-power LEDs on metal-core PCB. Reflector for finish anodised. Wallwasher lens. Darklight reflector: aluminium, silver, bright anodised. Cut-off angle 40°. Screw-fastened cover ring with flush less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load: 45kN. Installation with separate connection sleeve.

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

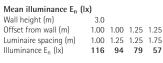


DALI control gear, with plug and play connectivity. Cable, 5x1.5mm², L 1m. mixing light: aluminium, silver, mirrorsafety glass: corrosion resistant stain-

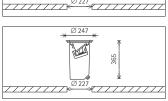


Weight 6.10kg LMF E ♦
♦
♦ 3mIP68





33664.000 Reflector silver LED warm white DALI LED 28W 1740lm 3200K Temperature on the light aperture 38°C Weight 6.10kg LMF E ♦
♦ 3mIP68



Ø 247

MILLA

365



Mean illuminance E_n (lx) Wall height (m) Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.75 Illuminance E_n (Ix) 76 63

Tesis In-ground luminaire Lens wallwasher for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 360° rotation. Mounting by means of a swing bolt. Clamp extension 5-40mm. Electronic control gear. Cable 3x1.5mm², L 1m. Wallwasher reflector: aluminium, silver

anodised.

Darklight reflector: aluminium, silver, bright anodised, with wallwasher lens. Cut-off angle 40°.

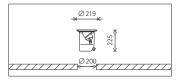
Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

sleeve. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

On site protection must be provided using a residual current circuit breaker, Fl≦30mA

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33704.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650lm Temperature on the light aperture 55°C Weight 3.10kg LMF E **₹**05 € ♦
♦
♦ 3mIP68





Mean illuminance E_n (Ix)

Wall height (m) 3.0 Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.50 Illuminance E_n (Ix)





Size 5

40°

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 360° rotation.

Mounting by means of a swing bolt.

Clamp extension 5-40mm.

Cable 3x1.5mm², L 1m. Wallwasher reflector: Aluminium, silver anodised.

Darklight reflector: aluminium, silver, bright anodised, with wallwasher lens. Cut-off angle 40°. Screw-fastened cover ring with flush

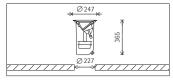
safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided

using a residual current circuit breaker,

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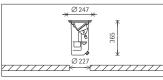
33715.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Temperature on the light aperture 65°C Weight 6.30kg LMF E 日本 む 🖭 🕞







33716.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 65°C Weight 7.30kg LMF E **%**05 @ PO ♦ ♦ 4 3mIP68





Illuminance E_n (lx) 189 158 133 114 Mean illuminance E_n (Ix)

4.0 Wall height (m) 1.25 1.25 1.50 1.50 Offset from wall (m) 1.25 1.50 1.50 1.75 Luminaire spacing (m) Illuminance E_n (Ix) 178 149 125 108

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Tesis In-ground luminaire Lens wallwasher for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 360° rotation. Mounting by means of a swing bolt. Clamp extension 5-40mm. Cable 3x1.5mm², L 1m. Wallwasher reflector: Aluminium, silver

anodised.

Darklight reflector: aluminium, silver, bright anodised, with wallwasher lens

bright anodised, with wallwasher lens. Cut-off angle 40°. Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear.

Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection sleeve.

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
On site protection must be provided

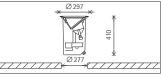
using a residual current circuit breaker, Fl≦30mA. Accessories page 1064

33723.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Temperature on the light aperture 60°C



Mean illuminance E_n (lx)

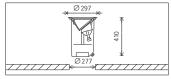
33724.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 60°C





 $\label{eq:meanilluminance} \begin{array}{ll} \mbox{Mean illuminance E}_n \mbox{ (Ix)} \\ \mbox{Wall height (m)} & 6.0 \end{array}$

33729.000 Reflector silver ECG HIT-CE 150W G12 15000lm Electronic control gear. Only for use with housing 33963.000. Use lamp with cylindrical discharge tube. Temperature on the light aperture 105°C





Mean illuminance E_n (lx)
Wall height (m) 10.0

 Offset from wall (m)
 2.50
 2.50
 3.50
 3.50

 Luminaire spacing (m)
 2.50
 3.00
 3.50
 4.50

 Illuminance En (lx)
 179
 151
 100
 79

Tesis In-ground luminaire Directional luminaire for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-35° tilt, 360° rotation.

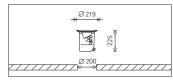
rotation.
Mounting by means of a swing bolt.
Clamp extension 5-40mm.
Electronic control gear. Cable
3x1.5mm², L 1m.
Spot reflector: aluminium, silver anod-

Spot reflector: aluminium, silver anod ised. Softec lens.

Darklight reflector: aluminium, silver anodised. Cut-off angle 40°. Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

sleeve. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker, FI≤30mA

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33703.000 Reflector silver ECG HIT-TC-CE 20W PGJ5 1650Im Temperature on the light aperture 55°C 



7500 cd	
150°	
\times / //// / \times /	
120°	
MYM	

h(m)	E(Ix)	D(m)
		18°
5	267	1.58
4	417	1.27
3	742	0.95
2	1669	0.63
1	6674	0.32
	5 4 3	5 267 4 417 3 742 2 1669

Tesis In-ground luminaire Directional luminaire for metal halide lamps







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-20° tilt, 360° rotation. Mounting by means of a swing bolt.

Clamp extension 5-40mm. Cable 3x1.5mm², L 1m. Darklight reflector: aluminium, silver anodised. Cut-off angle 40° Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN.

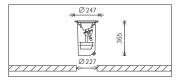
Installation with separate connection sleeve.

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker, FI≦30mA.

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33717.000 Reflector silver ECG HIT-TC-CE 35W G8.5 3500lm Electronic control gear. Spot reflector: aluminium, silver anodised. Glass with anti-dazzle cap. Temperature on the light aperture 65°C

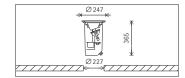




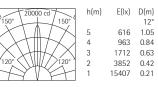


20000 cd	h(m)	E(Ix)	D(m)
50° 150°			12°
$\times \setminus \parallel \setminus \times \mid$	5	654	1.05
	4	1021	0.84
\times \times	3	1816	0.63
20° \ \ \ \ \ \ \ \ \ \ \ \ 120° \	2	4085	0.42
XX / XX	1	16341	0.21

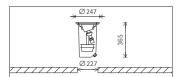
33718.000 Reflector silver HIT-TC-CE 35W G8.5 3300lm Control gear with temperature controller, timer-ignitor, capacitor. Spot reflector: aluminium, silver anodised. Glass with anti-dazzle cap. Temperature on the light aperture 65°C Weight 7.30kg **₹**05 € ♦ ♦ 4 3mIP68







33719.000 Reflector silver ECG HIPAR20 35W E27 10° HIPAR20 35W E27 30° Electronic control gear. Temperature on the light aperture 65°C Weight 6.30kg 日本 🌑 🕮 🕞 ♦
♦ 3mIP68







1307 0.70 4 3 2323 0.52 5228 0.35 20910 0.17 h(m) E(Ix) D(m) 5 182 2 68 284 2.14

3

h(m)

5

E(Ix) D(m)

836 0.87

505 1.61

1136 1.07

4545 0.54

HIPAR20



using a residual current circuit breaker, Fl≦30mA.

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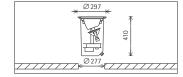
Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-20° tilt, 360° rotation Mounting by means of a swing bolt.

Clamp extension 5-40mm.
Cable 3x1.5mm², L 1m.
Spot reflector: Aluminium, silver anodised. Glass with anti-dazzle cap. Darklight reflector: Aluminium, silver anodised. Cut-off angle 40° Screw-fastened cover ring with flush safety glass: corrosion resistant stainless steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided

33725.000 Reflector silver ECG HIT-CE 70W G12 7300lm Electronic control gear. Temperature on the light aperture 70°C







40000 cd
150°
$\times/$
120°
TYVFT

	h(m)	E(Ix)	D(m)
150°			15°
\times	5	1258	1.32
\times λ	4	1965	1.05
/ X	3	3494	0.79
)120° ,	2	7862	0.53
4	1	31447	0.26

1061

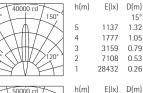
www.erco.com ERCO Program 2010/11

Tesis In-ground luminaire Directional luminaire for metal halide lamps

33726.000 Reflector silver HIT-CE 70W G12 6600lm Control gear with temperature controller, timer-ignitor, capacitor. Temperature on the light aperture 70°C Weight 10.20kg LMF E **%**05 <u>@</u> **@** ♦ ♦ 4 3mIP68

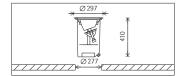
Ø 297 410



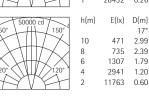


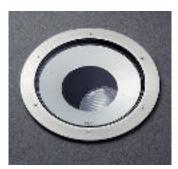
33739.000 Reflector silver ECG HIT-CE 150W G12 15000lm Electronic control gear. Only for use with housing 33963.000. Use lamp with cylindrical discharge Temperature on the light aperture 105°C

Weight 9.00kg LMF E 🕑 🦠 🌢 🛦 3mlP68











Size 7 Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Lampholder carrier, 0°-20° tilt, 360° rotation.

Mounting by means of a swing bolt. Clamp extension 5-40mm. Electronic control gear. Cable 3x1.5mm², L 1m. Aperture mask: Aluminium, silver, bright

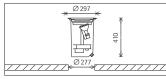
anodised.
Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, clear. Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep On site protection must be provided

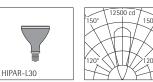
using a residual current circuit breaker,

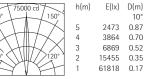
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33727.000 ECG HIPAR-L30 70W E27 10° HIPAR-L30 70W E27 40° Temperature on the light aperture 80°C Weight 9.00kg LMF_E **%**05 @ PO ♦ ♦ 3mIP68











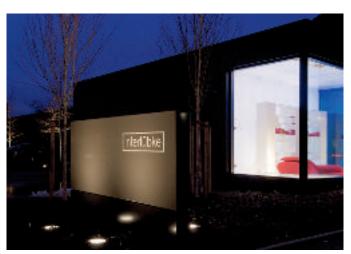
0.87

0.70

0.52

0.35

0.17



COR Interlübke works exhibition, Rheda-Wiedenbrück. Architect: kräling+lübke, Hamburg. Lighting consultant: LDE Kober, Dortmund.

Tesis In-ground luminaire with LED





33707.000 LED daylight white LED 10W 580lm 5500K Temperature on the light aperture 35°C

Weight 5.00kg 日本 **愛**。 🖭 ♦
♦
♦ 3mIP68

33669.000 LED warm white LED 10W 440lm 3200K Version 2 Temperature on the light aperture 35°C Weight 5.00kg 日本 **《**® ♦ ♦ 4 3mIP68

Size 5

Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp extension 5-40mm.

Electronic control gear. Cable 3x1.5mm², L 1m.

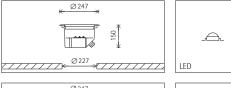
Replaceable LED module: high-power LEDs on metal-core PCB.

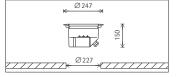
Screw-fastened cover ring with flush safety glass: corrosion resistant stain-less steel. Safety glass: 12mm, white enamelled.

Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection sleeve.

Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker,

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Tesis In-ground luminaire varychrome with LED







Housing: corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. Mounting by means of a swing bolt. Clamp

ing by means of a swing bolt. Clamp extension 5-40mm. Cable, 5x1.5mm², L 1m. DALI control gear, with plug and play connectivity for ERCO varychrome colour mixing.

Replaceable LED module: high-power LEDs on metal acro PCP.

LEDs on metal-core PCB.
Screw-fastened cover ring with flush safety glass: corrosion-resistant stainless steel. Safety glass: 12mm, white enamelled.

Can be driven over by vehicles with pneumatic tyres. Load 45kN. Installation with separate connection

sleeve. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

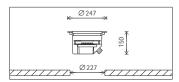
On site protection must be provided using a residual current circuit breaker, Fl≦30mA.

1063

Accessories page 1064

33708.000 LED red, green, blue DALI LED 10W 290lm

Colour compensation for precise light Temperature on the light aperture 30°C Weight 4.80kg ∰o5 🚱 ♦ ♦ ♦ 3mIP68



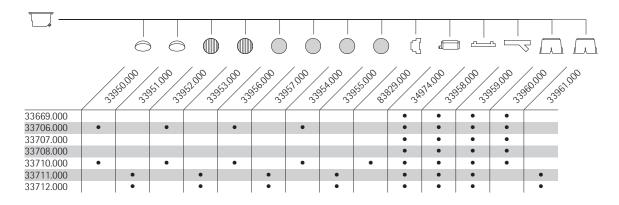


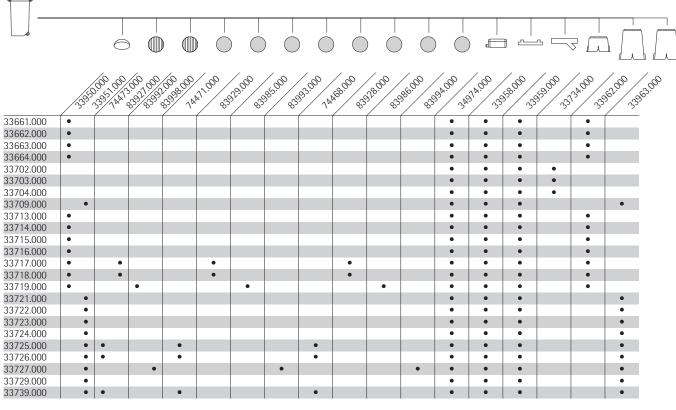
Primary colours LED module

 $\Phi(lm)$ Colour S(%) λ (nm) Red 105 620-625 Green Blue 138 525-530 97 48 465-470

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Tesis IP68 Accessories







33950.000 33951.000 Domed glass Cannot be driven over by vehicles. To prevent accumulation of dirt. Load: 5kN.



33952.000 33953.000 Sculpture lens



74473.000 83927.000 Sculpture lens



83992.000 83998.000 Sculpture lens



33956.000 33957.000 74471.000 83929.000 Skintone filter



83985.000 83993.000 Skintone filter



33954.000 33955.000 74468.000 83928.000 Daylight conversion filter



83986.000 83994.000 Daylight conversion filter

Tesis IP68 Accessories





83829.000 DALI DALI dimmer 1000W for ohmic loads, conventional and electronic transformers. Mounting on DIN rail. Weight 0.18kg



34974.000 Distribution box, IP68 With four cable entries, 7-25mm. Plastic.



33958.000 Coupling sleeve for max. 16mm cable diameter. Plastic conduit, two-part PURcast resin. ø 26mm, L 180mm.



33959.000 Branching sleeve for 8-23mm cable diameter. Plastic shell, twopart PUR cast resin. L 150mm, B 70mm, H 46mm.



Ø 237

Ø 392

33960.000 Housing for recessed mounting Corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Weight 2.70kg

Ø 350



33961.000

Weight 3.80kg





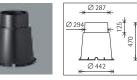


33734.000 Housing for recessed mounting Corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Weight 2.90kg



33962.000 Housing for recessed mounting Corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Weight 5.80kg





33963.000 Housing for recessed mounting Corrosion-resistant cast aluminium, No-Rinse surface treatment. Black double powder-coated. 2 cable entries. Weight 7.00kg

1065

Lufthansa Aviation Centre, Frankfurt. Architect: Ingenhoven Architekten, Düsseldorf. Lighting design: Tropp Lighting Design, Weilheim; Wern-ing Day & Light, Feldafing.



LED orientation luminaires IP68



the 24V emergency lighting power supply is activated.

Biblioteca Foral de Bizkaia, Bilbao. Architect and lighting designer: IMB Arquitectos, Bilbao.

As white or coloured points of light, LED orientation luminaires can mark out pathways and zones, contribute to safety in entrances, on stair treads and to identify architectural lines. Stainless steel covers and scratch-resistant glass ensure that the orientation luminaires will function as high-quality luminaires for years to come. The housings have integral, ribbed gas-kets for ease of installation. The special optical elements, such as refractors and diffusers, make these orientation luminaires highly visible even in bright surroundings. For the wall-mounted floor washlights, ERCO has developed a highly efficient light emission technique. Linking LED luminaires by means of intelligent lighting control signals is logical and beneficial. For this reason, the range includes orientation luminaires which offer functions such as dimming and rapid and gradual flashing.

A characteristic of the LED vary-

A characteristic of the LED varychrome orientation luminaire is that through the LED module with RGB technology a wide range of light colours can be changed dynamically and continuously. Control is carried out individually or as a group via a separate control gear. This allows interesting applications in the context of safety and networked building technology: such as dynamic, variable route marking systems, switchable optical barriers or escape route markings, which are automatically activated when

LED orientation luminaires IP68



The product range includes two sizes, each consisting of a plastic housing with sealing gaskets. The LED's are available in a choice of colours: white, blue, amber and green. The cover ring consists of corrosion-resistant stainless steel and a safety glass.

Control gear is required and available as an accessory. The selection of available control versions allows a choice of functions between switching, dimming, pulsating (at three speeds) and flashing. With the appropriate controller, colour changing can be selected.

Orientation luminaires



The range consists of two sizes. Both versions are available in four colours. The light from the LEDs is distributed onto the cover glass by a prismatic lens. The large size luminaires are also available in versions for a mains voltage of 230/240V. The necessary control grant can be used to supply a maximum of 40 luminaires at 12V or a maximum of 10 luminaires at 30V.

Application
Primarily as directly emitting, white or coloured points of light. Applications include: identification of architectural lines, stair treads, restricted areas or to mark entrances and routes, especially escape routes.

Orientation luminaires varychrome



Characteristic of the varychrome version is the use of coloured LEDs (red, green and blue). Control gear is available as 1V-10V version for control via a conventional lighting control or as DALI versions for control with the ERCO Light System DALI. This allows almost limitless colours to be generated.

Primarily as directly emitting, white or coloured points of light. Applications include: identification of architectural lines, stair treads,

restricted areas or to mark entrances and routes especially escape routes, with smooth, dynamic colour changes, e. g., as a chaser

Floor washlights



In the larger version, LED floor washlights are available for wall mounting. The upper half of the front lens is available in the four colours mentioned. In each case, the lower half contains white LED's and an aluminium vaporised plastic reflector.

Application

Application

Direct beam, asymmetrical light distribution, to illuminate or identify walkways, hallways and stairs in buildings such as hotels, theatres, cinemas and concert halls.

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LED orientation luminaires IP68



Varychrome technology opens up many new application areas for LED orientation luminaires. They add coloured accents and convey differentiated information. As dynamic and coloured points of light, they can interact with the architecture and its users.

Their special optical components make these orientation luminaires highly visible even in bright surroundings. DALI-compatible control gear allows them to be controlled with the ERCO Light System DALI lighting control and the integrated software, ERCO Light Studio.



Determining the colour locus of ERCO varychrome luminaires has never been so easy: simply choose the colour required from the colour wheel and check it in real time to decide if you are happy with the effect.

Conductor lengths for LED orientation luminaires

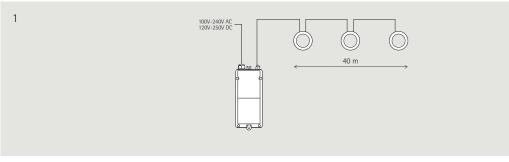
With LED orientation luminaires, the length of the control line is limited; for instance the maximum length for a conductor cross-section of 0.5mm² is 40m (1). In addition, by installing a second conductor routed in parallel, the installation can be extended to up to twice the initial length (2). Increasing the conductor cross-section gives a directly proportional increase in the conductor length.

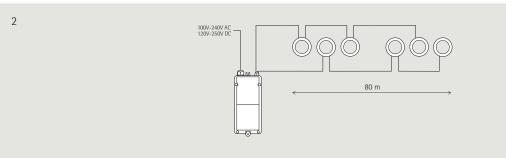
Connection of LED orientation luminaires

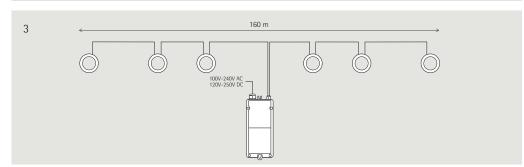
All LED orientation luminaires are built to IP68 protection mode. With their approx. 0.5m long connection cable, the electrical installation is made outside the luminaires. The cable connection must therefore be performed onsite according to the protection mode applicable.

LED orientation luminaires are available in two sizes.

The necessary control gear can supply a maximum of 40 luminaires at 12V or a maximum of 10 luminaires at 30V. In addition to the dimming function, the control gear with 30V output voltage can also be set to pulsating and flashing at three speeds. LED orientation luminaires that run on mains voltage are also available.







Installation information IP68

ERCO luminaires rated to protection mode IP68 are suitable for operation in both outdoor and indoor environments.

According to VDE 0100, Part 702, operation of these luminaires in ponds or pools, e.g. swimming pools or fountains, and in the surrounding 2m zone is not permitted. The installation must comply with all relevant local regulations.

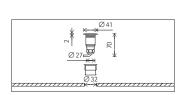
LED orientation luminaire





33760.000 LED daylight white 33761.000 LED blue 33762.000 LED amber **33763.000** LED green LED 0.3W 12V DC









Housing with gasket: stainless steel. Installation bush with ribs: plastic. Cable 4x0.75mm², L 500mm. Clear prismatic diffuser with circular light aperture. Cover ring: corrosion resistant stainless

Housing with gasket: stainless steel.

Housing with gasket: stainless steel. Installation bush with ribs: plastic. Cable 2x0.75mm², 1. 500mm.
Clear prismatic diffuser with circular light aperture.
Cover ring: corrosion resistant stainless steel, with 6mm safety glass. Load 5kN. Control gear to be ordered separately. Protection mode IP68 3m: protection goals to the control gear to be ordered separately.

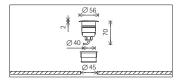
against dust ingress, and continuous

immersion up to 3m deep.
Accessories page 1071

steel, with 6mm safety glass. Load 5kN. Control gear to be ordered separately. Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.
Accessories page 1071













Housing with gasket: stainless steel. Installation bush with ribs: plastic. 2-core cable, L 500mm. Clear prismatic diffuser with circular

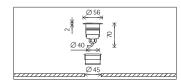
light aperture. Cover ring: corrosion resistant stainless

steel, with 6mm safety glass. Load 5kN.
Protection mode IP68 3m: protection
against dust ingress, and continuous
immersion up to 3m deep. On site protection must be provided using a residual current circuit breaker, FI≦30mA.

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33790.000 LED daylight white **33791.000** LED blue **33792.000** LED amber **33793.000** LED green LED 0.5W 230V AC Mains frequency 50Hz







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LED orientation luminaire varychrome







33785.000 LED red, green, blue LED 1.5W 24V DC

Weight 0.16kg **K** @ @ @ ♦
♦
♦ 3mIP68

Housing with gasket: stainless steel. Installation bush with ribs: plastic. Cable, 4x0.75mm², L 500mm. Clear prismatic diffuser with circular light aperture.

Cover ring: corrosion-resistant stainless steel, with 6mm safety glass. Load: 5kN. The three LED colours red, green and blue are controlled by separate 24V DC control gear (common 24V, floating earth for PWM (Pulse Width Modulation)). Control gear to be ordered separately.

Protection mode IP68 3m: protection

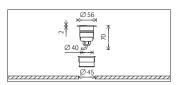
Housing with gasket: stainless steel. Installation bush with ribs: plastic. Cable 4x0.75mm², L 500mm. Upper half of LED in orientation colour, lower half of LED for floor lighting

Reflector: plastic, aluminium vaporised, silver, frosted.
Cover ring: corrosion resistant stainless steel, with 6mm safety glass. Load 5kN.

Control gear to be ordered separately.
Protection mode IP68 3m: protection against dust ingress, and continuous immersion up to 3m deep.

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against dust ingress, and continuous immersion up to 3m deep. Accessories page 1071





LED orientation luminaire Floor washlight

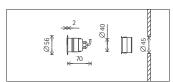




33768.000 Reflector silver LED daylight white 33769.000 Reflector silver LED blue

33770.000 Reflector silver LED amber 33771.000 Reflector silver LED green LED 0.5W 30V DC





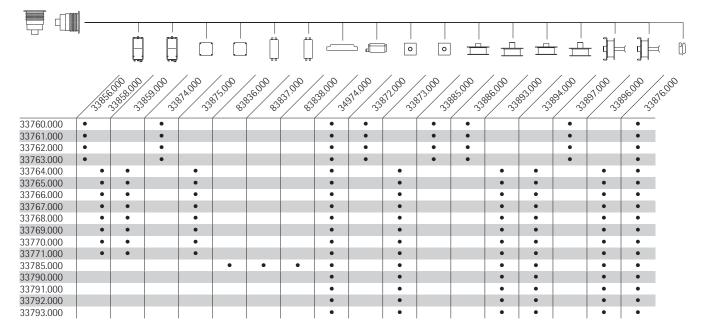




Vin Contoret wine dealers, Tidaholm. Architect: White Artkitekter AB, Gothenburg. Lighting designer: White Design AB, Gothenburg, PeO Ottosson Elkon-sult, Jönköping.

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LED orientation luminaires IP68 Accessories



















33856.000 Control gear for max. 40 orientation luminaires. Input voltage 100V-240V AC, 120V-250V DC. Output voltage 12V DC. Protection mode IP65: dust-proof and water jet-proof. Weight 0.60kg























33875.000 Control gear for max. 10 orientation luminaires. Input voltage 230V/240V AC. Output voltage 30V DC. Signal input 1V-10V. Protection mode IP65: dust-proof and water jet-proof. Weight 0.80kg



Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and water jet-proof. Weight 0.90kg

83837.000 DALI DALI control gear

for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum.

Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Protection mode IP65: dust-proof and

water jet-proof. Weight 0.85kg

83838.000

DALI DALI control gear for 6 Nadir recessed floor luminaires, 8 Axis Walklights or 10 LED orientation luminaires maximum. Input voltage 230/240V AC, DALI signal. Output voltage 3x24V PWM, max. 25W. Max. cable length 10m. Weight 0.16kg **&**' 🗖 🖤

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LED orientation luminaires IP68 Accessories

12 12 12

70

□ 100



34974.000 Distribution box, With four cable entries, 7-25mm. Plastic. ø 95mm, L 240mm Weight 0.47kg ♦
♦
♦ 3mIP68



33872.000 Housing for recessed mounting for mounting in plaster. Weight 0.09kg



33873.000 Housing for recessed mounting for mounting in plaster. Weight 0.09kg







33885.000 Recessed housing IP67 for installation in concrete floors or compressed substrate with 25mm surface covering. Cast aluminium, double powder-coated black.
2 cable entries with IP67 threads.
Through-wiring possible. 4-pole terminal block. Connection cable, L 300mm. Protection mode IP67: dust-proof and protected against the results of temporary immersion. Weight 0.70kg



















33886.000

Recessed housing IP67 for installation in concrete floors or compressed natural ground with 50mm floor covering.

Cast aluminium, double powder-coated

2 cable entries with IP67 threads. Through-wiring possible. 4-pole terminal block. Connection cable,

L 300mm.
Protection mode IP67: dust-proof and protected against the results of temporary immersion.
Weight 0.70kg

33893.000

Recessed housing IP67 for installation in concrete floors or compressed substrate with 25mm surface covering.

Cast aluminium, double powder-coated

2 cable entries with IP67 threads. Through-wiring possible. 4-pole terminal block. Connection cable,

Protection mode IP67: dust-proof and protected against the results of temporary immersion. Weight 0.70kg

33894.000

Recessed housing IP67 for installation in concrete floors or compressed natural ground with 50mm floor covering.

Cast aluminium, double powder-coated

2 cable entries with IP67 threads. Through-wiring possible. 4-pole terminal block. Connection cable,

Protection mode IP67: dust-proof and protected against the results of temporary immersion. Weight 0.70kg

33897.000

Recessed housing IP67 for installation in concrete wall. Cast aluminium, double powder-coated black

2 cable entries with IP67 threads. Through-wiring possible. 4-pole terminal block. Connection cable, L 300mm.

Protection mode IP67: dust-proof and protected against the results of temporary immersion. Weight 0.75kg





33896.000 Recessed housing IP67 for installation in concrete wall. Cast aluminium, double powder-coated

black 2 cable entries with IP67 threads. Through-wiring possible. 4-pole terminal block. Connection cable, L 300mm.

Protection mode IP67: dust-proof and protected against the results of temporary immersion. Weight 0.75kg



33876.000 Tool kit for mounting in cable ducts.

Lamp index Light Emitting Diode

Abbreviation ZVEI	Symbol	Power P(W)	Module current I(mA)	Voltage U(V)	Luminous flux Φ (Im)	Colour rendition index Ra	Light colour	Colour temperature (K)	Average service life t(h)
LED		l 05					amber		
		0,5 0,5 0,5	-	-		-	blue daylight white	-	-
	Ü	0,5	-	-		-	green	-	-
		0,9	-	-		-	daylight white	-	-
		0,3	-	2		-	amber	-	-
		0,9	-	2		-	amber	-	-
		0,3	-	3		-	green	-	-
		0,5	-	3		-	blue	-	-
		0,9	_	3		-	green	-	_
		0,3 0,3	-	4 4		-	blue daylight white	-	-
		0,9	-	4		-	blue	-	-
LED	0	1,7 1,7	-	- 230	25 35	-	warm white daylight white	3500 5500	-

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Lamp index Light Emitting Diode

Abbreviation ZVEI	Symbol	Power P(W)	Module current I(mA)	Voltage U(V)	Luminous flux $\Phi(\mathrm{Im})$	Colour rendition index Ra	Light colour	Colour temperature (K)	Average service life t(h)
LED		3,3 3,3	350 350	- -	240 300	85 70	warm white daylight white	3300 5500	50000 50000
	7	3,6 3,6	350 350	-	90 135	85 70	warm white daylight white	3500 5500	50000 50000
		7,0 7,0	350 350	-	480 600	-	warm white daylight white	3200 5500	50000 50000
		10 10	700 700	-	320 420	-	warm white daylight white	3500 5500	50000 50000
		10 10	700 700	-	440 580	85 70	warm white daylight white	3200 5500	50000 50000
		12 12	700 700	-	725 900	85 70	warm white daylight white	3200 5500	50000 50000
		14 14 14	700 700 700	- - -	870 870 1080	85 85 70	warm white warm white daylight white	3200 3200 5500	50000 50000 50000
		14	700	-	1080	70	daylight white	5500	50000
		21 21	700 700	-	1305 1620	85 70	warm white daylight white	3200 5500	50000 50000
		28 28 28	700 700 700	- - -	1740 1740 2160	85 85 70	warm white warm white daylight white	3200 3200 5500	50000 50000 50000
		28	700	-	2160	70	daylight white	5500	50000
		42 42	700 700	-	2610 3240	85 70	warm white daylight white	3200 5500	50000 50000

All data is provided for guidance only. Manufacturers' current published data must be used.

Note: The average service lives of LEDs are statistical values and mean that the LEDs still achieve a minimum of 70% of their luminous flux and that a max-

imum of 50% of the LEDs may have failed. Operation in direct sunlight must be avoided. No other heat sources should be in the immediate vicinity

of the installed luminaire, e.g. heating pipes. LED luminaires are also subject to the usual 2-year warranty.

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Lamp index Varychrome light-emitting diode

Abbreviation ZVEI	Symbol	ymbol Power Module Voltage Luminous flux $ P(W) \hspace{0.5cm} I(mA) \hspace{0.5cm} U(V) \hspace{0.5cm} \Phi(Im) $		Colour rendition index	Light colour	Colour temperature	Average service life		
		P(VV)	I(mA)	U(V)	Ψ(Im)	Ra		(K)	t(h)
LED		1,4	-	-		-	red, green, blue	-	-
		1,4	-	-		-	red, green, blue	-	-
		1,5	-	-		-	red, green, blue	-	-
		3,3	-	-		-	red, green, blue	-	-
		2,6	-	24	30	-	red, green, blue	-	-
LED		10	350	-	290	-	red, green, blue	-	50000
	7	13	350	-	390	-	red, green, blue	-	50000
		20	350	-	580	-	red, green, blue	-	50000
		28	700	-	870	85	red, green, blue, warm white	-	50000

All data is provided for guidance only. Manufacturers' current published data must be used.

Note: The average service lives of LEDs are statistical values and mean that the LEDs still achieve a minimum of 70% of their luminous flux and that a max-

imum of 50% of the LEDs may have failed. Operation in direct sunlight must be avoided. No other heat sources should be in the immediate vicinity

of the installed luminaire, e.g. heating pipes. LED luminaires are also subject to the usual 2-year warranty.

Lamp index Low-voltage halogen lamps

Abbreviation ZVEI	Symbol	Power	Voltage	Lampholder	Luminous flux	Colour rendition	Diameter	Length	Average service life
		P(W)	U(V)		$\Phi({\sf Im})$	index Ra	D(mm)	L(mm)	t(h)
QT9-ax		20	12	G4	320	100	9	33	4000
	(<u>a</u>								
QT12-ax		75	12	GY6.35	1575	100	12	44	4000
	Н	90	12	GY6.35	1800	100	12	44	4000
	ŢŢ	100	12	GY6.35	2200	100	12	44	4000
QT12-ax-RE		50	12	GY6.35	1250	100	12	44	4000

All data is provided for guidance only. Manufacturers' current published data must be used.

Safety distance The sign 0 \mathbb{R} on the luminaire indicates the safety distance required in the direction of the beam. This safety distance must be observed.

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Lamp index Low-voltage halogen reflector lamps

Abbreviation ZVEI	Symbol	Power	Voltage U(V)	Lamphol- der	Light intensity I(cd)	Half peak value ≮ (°)	Colour rendition index Ra	Diameter D(mm)	Length L(mm)	Average service life t(h)
QR-CBC35	A	20 20	12 12	GU4 GU4	700 4500	38 10	100	35 35	37 37	3000 3000
QR-CBC51		35 35	12 12	GU5.3 GU5.3	700 8000	60 10	100 100	51 51	45 45	4000 4000
QR-CBC51-RE		35 35 35 50 50 50 50	12 12 12 12 12 12 12 12 12	GU5.3 GU5.3 GU5.3 GU5.3 GU5.3 GU5.3 GU5.3	1100 2200 12500 1430 2850 5700 15000	60 36 10 60 36 24 10	100 100 100 100 100 100 100 100	51 51 51 51 51 51 51 51	45 45 45 45 45 45 45 45	5000 5000 5000 5000 5000 5000 5000
QR-111		50	12	G53	40000	4	100	111	63	3000
		75 75	12 12	G53 G53	1900 30000	45 8	100 100	111 111	63 63	3000 3000
		100 100	12 12	G53 G53	2800 48000	45 8	100 100	111 111	63 63	3000 3000
QR-111-RE		50 50	12 12	G53 G53	5800 33000	24 8	100 100	111 111	63 63	4000 4000

All data is provided for guidance only. Manufacturers' current published data must be used.

Safety distance The sign $0 \quad \mbox{$\mathbb{I}$}$ on the luminaire indicates the safety distance required in the direction of the beam. This safety distance must be observed.

Lamp index General service lamps

Abbreviation ZVEI	Symbol	Power	Voltage	Lampholder	Luminous flux	Colour rendition index	Diameter	Length	Average service life
		P(W)	U(V)		Φ (Im)	Ra	D(mm)	L(mm)	t(h)
4.00		100	000	F07	1000	100		105	1000
A60		100	230	E27	1380	100	60	105	1000
A65		150	230	E27	2220	100	65	120	1000

All data is provided for guidance only. Manufacturers' current published data must be used.

Lamp index Crown-silvered lamps

Abbreviation ZVEI	Symbol	Power	Voltage	Lampholder	Luminous flux	Colour rendition	Diameter	Length	Average service life
		P(W)	U(V)		Φ (Im)	index Ra	D(mm)	L(mm)	t(h)
A65-CS	&	100	230	E27	1000	100	65	123	1000

All data is provided for guidance only. Manufacturers' current published data must be used.

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Lamp index Tungsten halogen lamps

Abbreviation ZVEI	Symbol	Power Voltage Lam		Lampholder	Luminous flux	Colour rendition	Diameter	Length	Average service life
		P(W)	U(V)		Φ (Im)	index Ra	D(mm)	L(mm)	t(h)
QT18		75	230	B15d	1100	100	18	86	2000
QT-DE12		1000	230	R7s	22000	100	12	186	2000
	08								
QT-DE12-RE		120	230	R7s	2300	100	12	114	2000
	08 € NO	230	230	R7s	5000	100	12	114	2000
		400	230	R7s	9000	100	12	114	2000
QT-DE12-RE		80	230	R7s	1450	100	12	75	2000
	o c ⇒•o	120	230	R7s	2300	100	12	75	2000

All data is provided for guidance only. Manufacturers' current published data must be used.

Lamp index Reflector lamps

Abbreviation ZVEI	Symbol	Power P(W)	Voltage U(V)	Lamphol- der	Light intensity	Half peak value ≮ (°)	Colour rendition index Ra	Diameter D(mm)	Length L(mm)	Average service life t(h)
 R63		60	230	E27	960	30		63	105	1000
nos	٥	00	230	LZ/	300	30	-	03	105	1000
R95		100	230	E27	1350	35	100	95	140	1000

All data is provided for guidance only. Manufacturers' current published data must be used.

Lamp index Parabolic aluminised reflector lamps

Abbreviation ZVEI	Symbol	Power	Voltage	Lamphol- der	Light intensity	Half peak value	Colour rendition index	Diameter	Length	Average service life
		P(W)	U(V)		I(cd)	∢ (°)	Ra	D(mm)	L(mm)	t(h)
PAR38		120 120	230 230	E27 E27	3100 9300	30 12	100 100	122 122	136 136	2000 2000
PAR56		300 300	230 230	GX16d GX16d	9000 40000	16/40 9/15	100 100	179 179	127 127	2000 2000

All data is provided for guidance only. Manufacturers' current published data must be used.

Lamp index Halogen parabolic reflector lamps

Abbreviation ZVEI	Symbol	Power	Voltage	Lamphol- der	Light intensity	Half peak value	Colour rendition	Diameter	Length	Average service life
		P(W)	U(V)		l(cd)	≮ (°)	index Ra	D(mm)	L(mm)	t(h)
QPAR20	4	50 50	230 230	E27 E27	1000 3200	30 10	100 100	64 64	91 91	2000 2000
QPAR-CB20		75	230	GZ10	2500	25	100	64	64	2000
QPAR30	_	75 75	230 230	E27 E27	2400 7500	30 10	100 100	97 97	90 90	2000 2000
		100 100	230 230	E27 E27	3000 9000	30 10	100 100	97 97	90 90	2500 2500
QPAR38	=	100	230	E27	10000	12	100	122	136	2500
		250 250	120 120	E26 E26	9000 40000	30 10	100 100	122 122	140 140	6000 6000
QPAR56		500 500 500	120 120 120	GX16d GX16d GX16d	19000 43000 96000	44/22 26/10 13/8	100 100 100	179 179 179	127 127 127	4000 4000 4000

All data is provided for guidance only. Manufacturers' current published data must be used.

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Lamp index Metal halide lamps

Abbreviation ZVEI	Symbol	Power	Lampholder	Luminous flux	Colour temperature	Colour rendition index Ra	Diameter	Length	Average service life
		P(W)		$\Phi(\text{Im})$	(K)	Ra	D(mm)	L(mm)	t(h)
HIT-TC-CE		20	G8.5	1700	3000	80	14	85	9000
	i i	35 35	G8.5 G8.5	3300 3500	3000 3000	80 90	14 15	85 85	9000 12000
	U	70	G8.5	7300	3000	90	15	85	12000
HIT-TC-CE		20	GU6.5	1615	3000	80	13	52	12000
	Ü	35	GU6.5	3400	3000	88	13	52	10000
HIT-TC-CE		20	PGJ5	1650	3000	85	17	45	12000
	•								
HIT-CE		20	G12	1700	3000	81	14	90	9000
	44	35 35	G12 G12	3300 3500	3000	81 90	20 20	100 100	12000 12000
	A.	70 70	G12 G12	6600 7300	3000	83 90	20 20	100 100	12000 12000
		150 150	G12 G12	14000 15000	3000 3000	85 90	20 20	110 110	12000 12000
		250	G12	23000	3000	89	23	130	11000
HIT-DE-CE		70	RX7s	6500	3000	82	22	114	12000
	φ\•σ\φ	150	RX7s	14200	3000	88	25	132	12000
HIT-DE		250	Fc2	20000	4200	88	25	163	5000
HIT-DE		400	Fc2	35000	4200	85	31	206	12000

All data is provided for guidance only. Manufacturers' current published data must be used.

Lamp index Metal halide reflector lamps

Abbreviation ZVEI	Symbol	Power	Lamphol- der	Light intensity	Half peak value	Colour tempe- rature	Colour rendition index	Diameter	Length	Average service life
		P(W)		I(cd)	≮ (°)	(K)	Ra	D(mm)	L(mm)	t(h)
HIPAR20		35 35	E27 E27	5000 23000	30 10	3000 3000	81 81	65 65	95 95	7500 7500
HIPAR-L30		70 70	E27 E27	10000 68000	40 10	3000 3000	83 83	97 97	125 125	11000 11000
HIPAR51-CE-P		20 20 20	GX10 GX10 GX10	1500 2900 9000	40 25 12	3000 3000 3000	81 81 81	51 51 51	58 58 58	9000 9000 9000
HIR111-CE-P		35 35 70 70	GX8,5 GX8,5 GX8,5 GX8,5	4000 35000 50000 6500	40 10 10 40	3000 3000 3000 3000	89 89 89 89	111 111 111 111	95 95 95 95	9000 9000 10000 10000

All data is provided for guidance only. Manufacturers' current published data must be used.

Lamp index High-pressure sodium vapour lamps

Abbreviation ZVEI	Symbol	Power P(W)	Lampholder	Luminous flux Φ (Im)	Colour temperature (K)	Colour rendition index Ra	Diameter D(mm)	Length L(mm)	Average service life t(h)
		F (VV)		Ψ(IIII)	(N)	Na	D(IIIIII)	L(IIIIII)	L(II)
HST		100	PG12	5000	2550	83	32	149	15000
HST	AA Û	50	GX12-1 GX12-1	2400 4900	2550 2550	83 83	20 20	103 110	10000

All data is provided for guidance only. Manufacturers' current published data must be used.

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Lamp index Compact fluorescent lamps

Abbreviation ZVEI	Symbol	Power	Lampholder	Luminous flux	Light colour	Colour temperature	Colour rendition index	Length	Average service life
		P(W)		Φ (Im)		(K)	Ra	L(mm)	t(h)
TC-S		9,0 9,0 9,0	G23 G23 G23	200 400 800	blue red green	- - -	- - -	167 167 167	8000 8000 8000
	{								
°C-SEL		9,0	2G7	600	-	4000	80	144	12000
TC-D] 18	G24d-2	1200	-	4000	80	153	8000
		26	G24d-3	1800	-	4000	80	172	8000
C-DEL] 10	G24q-1	600	-	4000	80	103	12000
		13 18	G24q-1 G24q-2	900 1200	-	4000 4000	80 80	131 146	12000 12000
		26	G24q-2 G24q-3	1800	-	4000	80	165	12000
C-T		18	GX24d-2	1200	-	4000	80	123	8000
		26	GX24d-3	1800	-	4000	80	138	8000
C-TEL		18	GX24q-2	1200	-	4000	82	112	13000
		26	GX24q-3	1800	-	4000	82	127	13000
		32	GX24q-3	2400	-	4000	82	139	13000
		42	GX24q-4	3200	-	4000	82	161	13000
C-TEL		14	GR14q-1	1050	-	4000	82	127	13000
		17	GR14q-1	1250	-	4000	82	149	13000
C-TELI		18	GX24q-2	1200	-	4000	82	112	13000
		26	GX24q-3	1800	-	4000	82	127	13000
		32	GX24q-3	2400	-	4000	82	139	13000
		42	GX24q-4	3200	-	4000	82	161	13000
C-L		18	2G11	1200	-	4000	80	225	12000
		36 36	2G11 2G11	2900 2900	-	- 4000	- 80	415 415	12000 12000
		55	2G11	4800	-	4000	80	535	12000
C-F		36	2G10	2800	-	-	-	217	12000

All data is provided for guidance only. Manufacturers' current published data must be used.

TC-T, TC-TEL: Lamps which are longer or have different lamp caps, such as GE Lighting, cannot be used in some luminaires.

Lamp index Fluorescent lamps

Abbreviation ZVEI	Symbol	Power	Lamphol- der	Luminous flux	Light colour	Colour tempe- rature	Colour rendition index	Diameter	Length	Average service life
		P(W)		 (Im)		(K)	Ra	D(mm)	L(mm)	t(h)
T16		24	G5	1750	-	4000	89	16	549	20000
	£	28 28 28 28 35 54	G5 G5 G5 G5 G5	700 2100 2600 3500 3300 4450	blue red - green -	- 4000 - 4000 4000	- - 89 - 89 89	16 16 16 16 16 16	1149 1149 1149 1149 1149 1449	18000 18000 20000 18000 20000 20000
T26	4	58	G13	5200	-	4000	80	26	1500	12000

All data is provided for guidance only. Manufacturers' current published data must be used.

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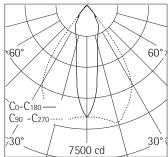
Photometric data from ERCO

Light intensity distributionThe spatial distribution of the lamp lumens results in a 3-dimensional body of light intensity distribution. A longitudinal or transverse section through this body results in a 2-dimensional light intensity distribution curve that indicates the light intensity of a luminaire for all angles of this plane.

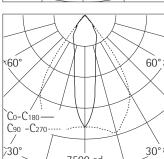
Usually, this is displayed in a polar coordinate diagram from which the main direction of the beam is recognisable, e.g. direct or indirect emission. The unit of light intensity is Candela (cd).

The light intensity distribution of rotationally symmetrical luminaires is characterised by one symmetrical

Axially symmetrical light sources need two curves, displaying the two main planes $C_0 - C_{180}$ (at right angles to the lamp position) and $C_{90} - C_{270}$ (parallel to the lamp).



With luminaires for reflector lamps, the light intensity distribution curves are shown in the documents for both the narrow-beam lamp and the maximum permitted widebeam lamp.



7500 cd

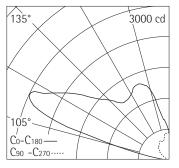
60°

30°

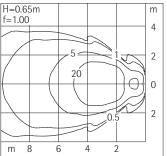
60°

30°

Asymmetrical distributions, mostly of wallwashers, are usually shown in the main curve $C_0 - C_{180}$.



Isolux curves represent the illuminance distribution in a defined situation. The illuminance values are shown without regard to any maintained values. The letter H refers to the height of the front lens above the working plane.



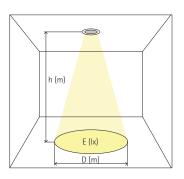
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Photometric data from ERCO

Illuminance and light beam diameter

The tables usually shown next to the light intensity distribution comprise the illuminance values E(|x|) and the light beam diameter D(m) resulting from the half peak value against the distance or height h(m). Illuminance values relate to the axial intensity. The table data for reflector lamps corresponds to the pertinent polar coordinate diagrams.

Example of a rotationally symmetrical downlight. The illuminance values are given in increments of 1m.	h(m) 1 2 3 4 5	E (lx) 1100 275 122 69 44	D(m) 60° 1.15 2.31 3.46 4.62 5.77
Example of an axially symmetrical projector Where illuminances are high, the values are given in increments of 2m. The first column of D(m) contains the beam angle of the plane $C_0 - C_{180}$, the second column contains the values of the plane $C_{90} - C_{270}$.	h(m) 2 4 6 8 10	E (lx) 8620 2155 958 539 345	D(m) 9° 0.31 0.63 0.94 1.26 1.57
Example of an uplight with indirect emission	h(m)	E (Ix)	D(m) 12°



Light output ratio

According to DIN/EN 13032/2, the light output ratio is abbreviated "LOR"

The table data for recessed floor

luminaires shows the beam direc-

tion values, i.e. from bottom to top.

Light output ratio of a luminaire with direct emission

LOR 0.54

Luminaires with direct/indirect emission also specify the "DLOR" (Downward Light Output Ratio) and the "ULOR" (Upward Light Output Ratio) as additional components. These indicate the light intensity distribution of a luminaire in the lower and upper parts of the room.

63 1.68

111 1.26

250 0.84 1000 0.12

3

0.53

1.05

1.58

2.11

2.63

Light output ratio of a luminaire with direct/indirect emission

LOR 0.54 DLOR 0.40 ULOR 0.14 The calculation of the maintenance factor is described in a separate chapter. This also contains all relevant information and tables. In the catalogue, the classification for the "maintenance factor according to CIE" is shown next to the product and printed below the light output ratio. This appendix comprising photometric data also contains all other tables. The product data sheets relate the relevant data and tables directly to the pertinent products.

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LMF C

Glare evaluation according to UGR

The UGR method – Unified Glare Rating according to CIE 117 – is used to evaluate and limit the psychological direct glare from luminaires. Contrary to the previous methods, where the glare was rated using the luminance values of a single luminaire, this method calculates the glare of the entire lighting installation at a defined observer position.

According to DIN EN 12464, the UGR reference value is provided for a standard room.

An exact calculation of the UGR value at a defined observer position in a room is possible with modern lighting design programs such as DIALux.

Where the luminance is < 1000 cd/m², additional data is provided on the elevation angle, either 55°, 65° or 75°. This is the critical angle above which the luminaire has an all-round luminance of < 1000 cd/m².

The UGR reference value for a standard room

With symmetrical light distribution

UGR: 19.0 65° <1000 cd/m² With axially symmetrical light distribution This specifies the values for a line of vision at right angles ($\mathrm{C_0-C_{180}}$) and parallel ($\mathrm{C_{90}-C_{270}}$) to the lamp.

UGR C₀ 19.0 UGR C₉₀ 18.3 65° <1000 cd/m²

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Maintained value of illuminance On publication of DIN EN 12464-1, the luminous intensities it recommends are "maintained values of illuminance". These must not at any time be lower than indicated. Instead of using the maintenance factor and the light loss factor as influencing variables in the lighting design, the new term now introduced is "maintenance factor". The new value for the illuminance of an installation is calculated from the maintained value of illuminance and the maintenance factor.

E_n New value of a lighting installation E_m Maintained value of illuminance MF Maintenance Factor

 $E_n = E_m / MF$

New value = Maintained value / Maintenance Factor

According to DIN EN 12464-1, one of the components required in lighting design is a maintenance plan specifying the cleaning frequency of the luminaires and the room and the lamp replacement.

The photometric planning data from ERCO is published on the basis of the "new value of illuminance". The maintained value of illuminance can be determined by way of a maintenance factor.

The maintenance factor is calculated on the basis of separate tables or in computer calculations such as DIALux from version 4.0.
The maintenance factor is calculated using the following formula:

 $MF = LMF \cdot RSMF \cdot LLMF \cdot LSF$

MF Maintenance Factor

LMF Luminaire Maintenance Factor

RSMF Room Surface Maintenance Factor

LLMF Lamp Lumen Maintenance Factor

LSF Lamp Survival Factor

LMF Luminaire Maintenance Factor The luminaire maintenance factor LMF takes into account the reduction of luminous flux due to the soiling of the luminaire. It signifies the ratio of a luminaire's light output ratios before and after cleaning. The LMF depends on the version of the luminaire and the related possibility of soiling. The LMF classifica-

tion is indicated next to the product. The LMF values ensue from the attached tables.

At this point, the optimal cleaning frequency must be defined for the maintenance plan.

RSMF

Room Surface Maintenance Factor

The room surface maintenance factor RSMF takes into account the reduction of luminous flux due to the soiling of the room surfaces. It signifies the ratio of the room surface reflectances before and after cleaning. The RSMF depends on the degree of soiling of the room or the ambient conditions of a room and the specified cleaning frequency. Further influencing factors are the

size of the room and the type of lighting (direct to indirect emission). The table provides 4 classifications for Environmental Conditions: P pure (very clean room), C clean (clean room), N normal (average conditions) and D dirty (dirty room)

LLMF

Lamp Lumen Maintenance Factor

The lamp lumen maintenance factor LLMF takes into account the reduction of luminous flux due to the ageing of the lamp. It signifies the ratio of the lamp lumens at a

specific time and the new value. The current data provided by the lamp manufacturers must be taken into account here.

LSF Lamp Survival Factor

The lamp survival factor LSF takes into account the variation of the life of individual lamps from the mean life of the lamps. The LSF depends on the service life of the lamp. The latest data provided by the lamp manufacturers must be taken into account here. If defective lamps are replaced immediately, the lamp survival factor applied is LSF = 1.

The maintenance plan for a lighting installation must also specify the optimal lamp replacement frequency. This depends on the degree of use of the lamp and is determined by analysing the period of illumination in the room and the mean service life of the specific lamps.

LMF Luminaire Maintenance Factors

Classification

Luminaire type Open luminaires (not from ERCO) Open-top reflectors (not from ERCO) B C D E F

Closed-top reflectors Closed reflectors **Dustproof luminaires**

Luminaires with indirect emission

Examples of ERCO LMF luminaire maintenance factors

Classification C: Closed-top reflectors

Recessed luminaires for compact fluorescent lamps, surface-mounted downlights without cover glass, pendant luminaires as well as T16 light structures, direct emission.

Classification D: Closed reflectors

Protective glass and diffusers in front of low-voltage halogen lamps and high-pressure discharge lamps reduce the convection and dust collection on the lamp or near the re-flector. Sculpture lenses and spread lenses also prevent a soiling of the lamp and provide a cover for the optical system.

Spotlights and wallwashers with lenses, recessed luminaires with cover glass, surface-mounted and pendant luminaries as well as task lights with cover glass.

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Classification E: **Dustproof luminaires** Aside from exterior luminaires with a protection mode above IP6x, reflector lamps are also considered closed due to their design.

All exterior luminaires.

Classification F: Luminaires with indirect emission Wall-mounted downlights, e.g. Trion Uplight.

Light structures, e.g. T16 direct/ indirect emission.

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Calculation of Maintenance Factor

LMF Luminaire Maintenance Factor	Cleaning frequency (a) Environmental conditions A Open luminaires B Open-top reflectors C Closed-top reflectors D Closed reflectors E Dustproof luminaires F Luminaires with indirect emission	0.96 0.95 0.94 0.94 0.96	C N 0.93 (0.90 (0.89 (0.88 (0.94 (0.86 (0.89 0 0.86 0 0.81 0 0.82 0 0.90 0	.83 .83 .75 .77	2 P C 0.93 0.8 0.92 0.8 0.91 0.8 0.93 0.9 0.88 0.7	34 0.80 30 0.69 33 0.77 91 0.86	0.75 0.59 0.71 0.81	0.91 (0.89 (0.87 (0.89 (0.92 ().79	D 79 0.73 74 0.68 61 0.52 73 0.65 84 0.79 55 0.45
RSMF Room Surface Maintenance Factor	Cleaning frequency (a) Environmental conditions Direct emission Direct/indirect emission Indirect emission	0.94	C N 0.92 (0.89 (0.83 ().87 0).80 0	.81 .69	2 P C 0.96 0.9 0.93 0.8 0.90 0.8	38 0.79	0.69	0.93 (D 87 0.81 79 0.69 67 0.50
	Classification of Environmental Conditions P (very clean room) pure C (clean room) clean N (average conditions) normal D (dirty room) dirty										
LLMF Lamp Lumen Maintenance Factor	Hours of operation (h) Tungsten halogen lamps/ low-voltage	2000 0.97	4000 0.88	6000	8000	10000	12000	14000	16000	18000	20000
	Metal halide lamps High-pressure sodium vapour lamps	0.94 0.99	0.89 0.98	0.83 0.98	0.80 0.97		0.96	0.96	0.95	0.95	0.94
	Compact fluorescent lamps Fluorescent lamps	0.94 0.96	0.91 0.95	0.89 0.94	0.87 0.93		0.91	0.91	0.89	0.88	0.88
LSF Lamp Survival Factor	If defective lamps are replaced immediately, the lamp survival factor applied is LSF = 1 .										

Example				
Examnie	F		1	٦
	FYA	m	n	ıe

Clean room with little deterioration

Annual cleaning of the luminaire Improvement of the room reflectance factor every 3 years, e.g. by cleaning the room surfaces

Lamp replacement after 10,000 hours

Immediate replacement in case of lamp failure

LMF

Luminaire Maintenance Factor

Cleaning frequency (a) Ambient conditions Closed-top reflectors

RSMF

Room Surface Maintenance Factor

Cleaning frequency (a) Ambient conditions Direct emission 1 2 3 3 P C N D P C N D P C N D D 0.99 0.98 0.96 0.95 0.97 0.96 0.95 0.94 0.96 0.96 0.95 0.94

LLMF

Lamp Lumen Maintenance Factor

Hours of operation (h)
Compact fluorescent lamps

2000 4000 6000 8000 10000 12000 14000 16000 18000 20000 0.92 0.88 0.85 0.83 0.85 -- -- -- -- -- --

LSF

Lamp Survival Factor

LSF = 1

If all the individual maintenance factors are known, these can simply be inserted into the formula. Where individual parameters change, the maintenance factor must be recalculated.

Luminaire Maintenance Factor

 $MF = LMF \cdot RSMF \cdot LLMF \cdot LSF$ $MF = 0.94 \cdot 0.96 \cdot 0.85 \cdot 1$

MF = 0.76

New value of the lighting instal-

 $E_n = E_m / MF$

 $E_{2} = 5001x / 0.76$

 $E_{n} = 652$

The reference maintenance factors

In cases where the maintenance factor cannot be calculated on the basis of definite assumptions, the following reference maintenance factors are recommended:

Reference maintenance factor	Reference new value factor	Example
0.80	1.25	Clean room, little use
0.67	1.50	Clean room, 3-year maintenance cycle
0.57	1.75	Interior and exterior, average conditions, 3-year maintenance cycle
0.50	2.00	Interior and exterior, severe deterioration, 3-year maintenance cycle

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Planning data in the ERCO catalogue

The "planning data" provided includes P*, the "connected load per m² and 100lx" and n*, the "number of luminaires per 100lx". In practice, these must be converted using the maintenance factors determined separately.

Connected load of one luminaire Connected load per 100lx Number of luminaires per 100lx

QT12-ax 100W/12V GY6.35 2200lm P: 100W P*: 6.41W/m² n*: 6.41 1/100m²

"Guide values" are used to plan the approximate lighting requirement. These are small tables including the "number of luminaires per 100m²" and the "illuminance values for luminaire modules". In practice, the guide values must also be converted using the maintenance factors determined separately.

Number of luminaires per 100m² 100lx 300lx 500lx 2x26W

Illuminance (Ix) for module (m)

1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 2x26W 1047 698 524 393

To determine the illuminance, the maintenance factor must be taken into account along with the geometry of the room to be planned and its reflection capacity. To do so, the correction factor f is taken from the correction table. The correction table itself can be found on the product specification sheet. The correction table also provides the required factors to be applied for room data other than k = 2.5 (approx. $100m^2$) and reflectances other than 0.7/0.5/0.2.

Correction table 0.7 0.7 Ceiling 0.7 0.7 0.5 0 Wall 0.5 0.2 0.2 0 0 0.2 Floor 0.5 0.2 0.1 k0.6 90 73 67 66 64 k1.0 106 85 79 77 74 94 86 83 k1.5 118 89 k2.5 128 100 96 91 88 k3.0 131 102 93 90

Tables with illuminance values of wallwashers are based on calculations with a reasonable offset from the wall/luminaire spacing and help decide on the right wallwashers and their optimal positioning. Here too, the values must, in practice, be converted using the maintenance factors determined separately. In order to evaluate the illuminance distribution, we recommend that the detailed tables provided in the product data sheets be used. Over and above this though, the planning and design of individual, projectspecific lighting installations should always be based on accurate photometric data.

Mean illuminances E_n (lx) Specifications: Number of luminaires n>5 without indirect component without peripheral area

Wall height (m) 3.00 Offset from wall (m) 1.00 1.00 1.25 1.25 Luminaire spacing (m) 1.00 1.25 1.25 1.50 324 265 221 186 Illuminance

Planning data in product data sheet

Product data sheets comprise all photometric data required for a detailed lighting design.

Along with the catalogue data, they also provide the correction tables to be used for the guide values. The correction factor f takes into account the geometry of the room to be planned and its reflection capacity.

The correction table also provides the required factors to be applied for room data other than k=2.5 (approx.100m²) and reflectances other than 0.7/0.5/0.2.

Correctio	n table	!			
Ceiling	0.7	0.7	0.7	0.5	0
Wall	0.7	0.5	0.2	0.2	0
Floor	0.5	0.2	0.2	0.1	0
k0.6	90	73	67	66	64
k1.0	106	85	79	77	74
k1.5	118	94	89	86	83
k2.5	128	100	96	91	88
k3.0	131	102	99	93	90

Tables comprising comprehensive data are provided for wallwashers. For an arrangement of 5 wallwashers with different offsets from the wall/luminaire spacings, point illuminances from the ceiling to the floor are available that enable a detailed assessment of the illuminance distribution on a wall.

Illuminances E_n (lx) Specifications: Number of luminaires >5 Wall height 3m

Offset from wall (m) Luminaire spacing (m)	1.00 1.00		1.00 1.25		1.25 1.25		1.25 1.50	
	Below Iuminaire	Between Iuminaires	Below luminaire	Between luminaires	Below Iuminaire	Between luminaires	Below luminaire	Between luminaires
0.25	384	366	318	283	239	227	206	185
0.50	386	386	320	303	252	247	216	201
0.75	363	356	298	289	247	241	207	201
1.00	351	334	285	269	229	225	196	189
1.25	336	327	281	261	225	213	191	179
1.50	336	330	277	263	215	212	186	174
1.75	331	329	274	263	214	209	184	174
2.00	314	318	259	254	216	212	184	177
2.25	288	289	233	233	210	211	181	174
2.50	256	248	208	211	201	204	172	169
2.75	218	212	182	181	187	190	158	158

All illuminances are new values. In practice, these must be converted using the maintenance factors determined separately.

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Abbreviations:

 $E_{m}(Ix)$ Maintained value of illuminance $E_n(Ix)$ Illuminance taken from the Guide values table

Number of luminaires Connected load of

one luminaire incl.

 $P*(W/m^2)$ Connected load

per 100lx n* (1/100 m²) Number of luminaires

per 100lx

n P(W)

Factor taken from f

the correction table, depending on reflectances and room index k

Room index Length of room Width of room a (m) b (m) h (m) Luminaire height above working plane

Requirements:

The guide values E (lx), P* (W/m²) and n* (1/100 m²) have been calculated for a room k=2.5, working plane 0.75 m and reflectances of ceilings = 0.7, walls = 0.5 and floors = 0.2. They include the light loss factor of 1.0. They are valid for a regular module and in practice they also apply to asymmetric modules.

For room conditions other than 0.7/0.5/0.2 and k = 2.5 the appropriate correction factor f is to be applied.

For other luminous fluxes and connected loads the values are to be converted proportionally.

H = Room data: 2.90 m

 $a = 12.00 \, \text{m}$ b = 14.00 m h = 2.15 m

Room index: a·b

h (a + b)

k = 3.0

Reflectances:

 $\begin{array}{l} \phi_{\text{D}} \text{ Ceiling= 0.5} \\ \phi_{\text{W}} \text{ Walls } = 0.2 \\ \phi_{\text{B}} \text{ Floor } = 0.1 \end{array}$

Correction table Ceiling 0.7 Wall 0.7 0 0.7 0.7 0.5 0.2 0.5 0.5 0.2 0.1 0 k 0.6 77 45 58 49 49

k 1.0 100 69 67 63 k 1.5 k 2.5 116 91 80 100 129 95 90 86 k 3.0 133 103 89

Correction factor f = 93%

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Calculation example using ERCO guide values

Calculation example using ERCO guide values. The following can be used as guide values:

- 1. Calculation of the number of luminaires with specified maintained value E_m (from table)
- 2. Calculation of the maintained value E_m with specified luminaire module (from table)
- 3. Calculation of the number of luminaires n for specified maintained value E_m (with P* or n*)
- 4. Calculation of the maintained value E_m for specified number of luminaires n (with P*)

1. Calculation of the number of luminaires n for specified illuminance E_n 500lx

Specifications

New value of the illuminance

Correction factor from separate correction table 0.93

MF Maintenance factor, reference value 0.80

Table from the catalogue

Number of luminaires per 100 m² for illuminance E_n 100lx 300lx 200lx 500lx

Example

$$n = \frac{n}{f \cdot MF}$$

$$n = \frac{22}{0.93 \cdot 0.80}$$

$$n = 30$$

2. Calculation of the illuminance (maintained value) E_m with specified luminaire module 1.8 x 1.8

Specifications

Illuminance from ERCO table Maintained value of illuminance **DIN EN 12464**

Correction factor from separate correction table 0.93 MF Maintenance factor, reference

value 0.80

Table from the catalogue

Illuminance E_n (Ix) for luminaire module (m) 1.2x1.8 1.8x1.8 1.8x2.4 2.4x2.4 726 544 408

Example

$$E_m = E_n \cdot f \cdot MF$$

 $E_m = 7261x \cdot 0.93 \cdot 0.80$

 $E_{m} = 5411x$

3. Calculation of the number of luminaires n for specified illuminance (maintained value) $\rm E_m$ 500lx

Specifications

Connected load of one luminaire

P: 66.0 W

Connected load per 100lx P*: 2.81 W/m²

E_m Maintained value of illuminance DIN EN 12464

f Correction factor from separate correction table 0.93

MF Maintenance factor, reference value 0.80

Example with P*

$$n = \frac{E_m \cdot a \cdot b \cdot P^*}{P \cdot f \cdot MF}$$

$$1 = \frac{5001x \cdot 12m \cdot 14m \cdot 2.81W/m^2}{66W \cdot 0.93 \cdot 0.81 \cdot 1001x}$$

n = 48

Specifications

Number of luminaires per 100lx

n*: 4.25 1/100m²

E_m Number of luminaires per NEN EN 12464

f Correction factor from separate correction table 0.93

MF Maintenance factor, reference value 0.80

Example with n*

$$n = \frac{n^* \cdot E_m \cdot a \cdot b}{f \cdot MF}$$

$$n = \frac{4.25 \cdot 500 lx \cdot 12m \cdot 14m}{100m^2 \cdot 100 lx \cdot 0.93 \cdot 0.80}$$

n = 48

4. Calculation of the illuminance (maintained value) Em for specified number of luminaires n

Specifications

Connected load of one luminaire

P: 66.0 W

Connected load per 100lx

P*: 2.81 W/m²

E_m Maintained value of illuminance DIN EN 12464

f Correction factor from separate correction table 0.93

MF Maintenance factor, reference value 0.80

Example with P*

$$\mathsf{E}_{\mathsf{m}} = \frac{\mathsf{n} \cdot \mathsf{P} \cdot \mathsf{f} \cdot \mathsf{MF}}{\mathsf{a} \cdot \mathsf{b} \cdot \mathsf{P}^*}$$

$$E_{m} = \frac{48 \cdot 66W \cdot 0.93 \cdot 0.80 \cdot 100Ix}{12m \cdot 14m \cdot 2.81W/m^{2}}$$

E_m = 499

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General Information

This catalogue supersedes all previous issues. We reserve the right to make technical and formal alterations to improve our products or to meet modified statutory requirements. Current data will be supplied on request.

Our continually updated product documentation can be accessed at www.erco.com.

Many products are protected by industrial patent rights.

Unless specifically indicated, all luminaires will be supplied without lamps.

Voltages given in this catalogue refer to a mains frequency of 50/60 Hz.

All electrical equipment is to be installed in accordance with IEC regulations and local authority requirements. The local authority should be consulted if further information is required. In accordance with the British Health and Safety at Work Act 1974, Section VI, products supplied by ERCO contain safety instructions and information pertaining to the correct usage and installation of products. The act imposes upon the users of the products the obligation to ensure that all personnel involved in the installation, handling, use and disposal of these products are acquainted with the information provided, and made fully aware of the precautions that need to be taken. As the responsibility for correct installation lies with the user, ERCO are to be contacted directly prior to the installation for any further information or explanation which may be required.

To assist with the identification and differentiation of products, the colours are usually quoted after the article numbers.

With recessed luminaires this generally applies to the reflector colour. For all other products the housing colour is indicated. Colours are not specified for recessed luminaires without reflector, accessories, etc.

The standard finish of our products is specified in the product description. The products can also be produced at extra charge in the following colours: white RAL 9002, white RAL 9010, silver RAL 9006 and black RAL 9011. Prices and delivery times for other RAL or BS colours are available on request.

Illuminance levels and light beam diameters of narrow beam and maximum-allowed wide beam reflector lamps are provided next to each product. For further lamp options, refer to the lamp index.

The abbreviated lamp references use the ZVEI lamp designation system.

ERCO luminaires are designed, manufactured and tested to the applicable standards and technical regulations of the VDE. Technical testing is conducted at an ambient temperature of 25°C, as per IEC 60598.

The luminous flux values and other photometric data also relate to an ambient temperature of 25°C. At other temperatures, deviations from the values stated in the catalogue are possible.





DIN EN ISO 9001-2000

The ERCO Quality Management System has been organised in accordance with DIN EN ISO 9001-2000. This was acknowledged by the DQS (Deutsche Gesellschaft zur Zertifizierung von Managementsystemen) and validated by licence no. 1151. The system includes: design/development, production, assembly, sales and service.

All ERCO sales organisations in Germany and abroad are included in the system through matrix certification.

Replaceable LED modules of varychrome luminaires and Light Clients (DALI-compatible luminaires from

ERCO)

The LED modules of varychrome luminaires can be exchanged at the end of their working life. The control gear of colour compensated luminaires not only contains the DALI Light Client encoding but also the compensation values for the luminous flux values for the dominant wavelengths of the RGB colours. These relate to the particular LED module used. The result is that the LED module and the control gear form a unit. When replacing the module, it is therefore also necessary to exchange the control gear. The replacement of LED module and control gear is to be carried out in the factory.

Retrofitting varychrome luminaires When retrofitting an existing lighting installation with colour compensated luminaires, it is good practice to order luminaires which have the same version number. To do this, it is necessary to quote both the version number stated on the type label of the luminaire and the article number.

Symbols and abbreviations



₹05 KEMA test mark

₹0 **△**E VDE test mark

SEMKO test mark

™ NEMKO test mark

Luminaires bearing this sign

are VDE approved.

China Compulsory Product Certification, Safety

China Compulsory Product Certification, Safety & EMC

Articles from the ERCO product range that are labelled with the Nihon sign are available in a version for the Japanese market. The Japanese version is largely identical to the marked article in terms of design, dimensions and photometric performance, but features different specific characteristics in compliance with the specific

electro-technical environment in Japan. Although not shown in detail in this catalogue, a wide range of accessories is also available for these products. ERCO track and its connectors are operated as a 1-circuit system in the technical environment of Japan. For more exact information on specifications and ordering, please get in touch with your ERCO contact.

All articles which are supplied to Russia (to the Russian Federation) and must be certified for that purpose are GOST-R approved/certified and identified.

I The I I sign on the luminaire indicates the safety distance in the direction of the lamp's beam. This safety distance must be observed.

Class I luminaires have an earth conductor and therefore are not marked.

Class II luminaires

Class III luminaires

IP20 All luminaires meet the requirements of protection mode IP20 and are not marked. Other protection modes are specified for each product.

Protection mode IP44 Splash-proof protection against splashes from all directions.

AA

Protection mode IP65 Protection against dust and strong jets of water from all directions.

♦ Å Å

Protection mode IP67 Protection against dust and against the results of temporary immersion.

Protection mode IP68xm Protection against dust and against the results of continuous submersion up to a depth of xm

Suitable lamps only are to be used in open luminaires.

Not suitable for coolbeam lamps.

All luminaires meet the F requirements in accordance with EN 60598-1 and are suitable for mounting on normal inflammable mounting surfaces (housing parts).

Luminaires which are not suitable for mounting on or in inflammable mounting surfaces.

Short-circuit-tested transformer in accordance with FN 61558

Encapsulated safety transformer EN 61347

Self-contained control gear in accordance with EN 60598

SELV Protected low-voltage according to EN 61558

WW Identification marks for devices with limited surface temperature for installation in furnishings, ceilings and walls with unknown inflammability characteristics.

FCC Federal Communications Commission

LON®

LON is a registered trademark of the Echelon Corporation

Windows®

Windows is a registered trademark of the Microsoft Corporation in the USA and other countries.

All products subject to EMC guideline 89/336 (electromagnetic compatibility) and guideline 73/23 (low-voltage) meet the requirements therein and bear the CE symbol on their packaging.

Products with discharge lamps and electronic components in accordance with the valid EN standard, which is the basis of EMC guideline 89/336 (electromagnetic compatibility) do not cause interference.

LCG = Low-loss control gear ECG = Electronic control gear unit

= Length = Total Length

TL = Total Lengt
B = Width
H = Height
T = Depth

D = Light beam diameter
CO = Ceiling aperture
RD = Recess depth

Ø = Diameter
□ = Quadra
max. = Maximum

kg

= Approximate weight with lamp

All dimensions are in millimetres.

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General Information



Information on highpower LEDs

Due to the production process of LEDs, the specified typical LED parameters show statistical values only. There can be variations in the range typical for LEDs. The service life of an LED refers to the period after which the intensity of emission has fallen to half its initial value, given a constant conductingstate current. The functional life, however, largely depends on the ambient temperatures. Therefore, the luminaires should not be installed near other sources of heat such as heating pipes, etc. Furthermore, these luminaires should not be operated when exposed to direct sunlight. As a result of innovative heat management, ERCO luminaires with high-power LEDs reach the rated life specified by the manufacturers.



Use of infrared-reflecting low-voltage halogen lamps (QR-CBC-RE)

In this technology, the halogen lamps are designed with a special infrared-reflecting coating on the outside of the bulb to ensure that the infrared (IR) radiation of the lamp is reflected back to the lamp filament. Fitted in ERCO luminaires, these lamps are thermally safe. For photometric data, refer to the manufacturers' specifications.

Photometric and lighting design data of luminaires for metal halide

The photometric and lighting design data identified and published by ERCO are based on the use of metal halide lamps with cylindrical discharge tubes. The use of any other lamps may result in deviations, although these may only be minor. Depending on the manufacturer, the discharge tubes of metal halide lamps

are usually made of a ceramic body of various shapes and sizes. This results in differences in the performance of the lamps themselves. Further variations may be the result of lamp production tolerances. Additionally, there will be tolerances in the positioning of the lamp within the reflector systems of the luminaires. While these are usually minor, they are still detectable.

It must also be taken into account that differences in the size of the discharge tube can lead to differences in the beam angle and the light inten-



DALI (Digital Addressable Lighting Interface)

DALI, i.e. the digital inter-face protocol, identifies the way in which the ECG are controlled,

not the system or system components. ERCO's Light System DALI automatically controls the DALI ECG fitted in the luminaires.

These, in turn, are based on a common platform for the control of dimmable ECG.

When installed in the luminaire, each DALI ECG saves luminaire data. Once the luminaire is fitted in the lighting system, the luminaire is then given an address. The DALI Light Studio software provides the user with specific luminaire data and installation information in a comprehensible and user-friendly format.

The central control unit, the DALI light server, controls or dims up to 64 ECGs via a two-wire control

The control signal can also be carried by the two normally unused conductors in a 5-core high-voltage connection cable. In this case, there is no need for an additional control line.

Potentiometer for dimming low-

voltage halogen lamps Some transadapters or transformer housings of spotlights using lowvoltage halogen lamps contain electronic transformers 230/12V, 50W or 100W. These spotlights can additionally be dimmed on 1-circuit or 3-circuit tracks.

The integral potentiometer can be used to dim the lamp lumens continuously down to 10%. A lightemitting diode is provided to monitor the function.

When using additional external trailing edge dimmers, the potentiometer must be set to the highest setting to prevent flickering.



Overvoltage protection for electronic control

When switching off inductive loads, e.g. fluorescent lamps, high pressure discharge lamps, motors, etc., spikes (high voltage peaks) may occur which can be so severe that the electronic control gear's integrated safety device, and the control gear itself, can be destroyed. To protect electronic control gear from such spikes, separate overvoltage protection units, e.g. 83819.000, should be installed in parallel, on the input side.



Dimming of metal halide lamps

Due to their unique inno-

vative design, metal halide lamps are increasingly used in lighting installations. On the one hand, this results from the objective of creating ever smaller lamps, and the development of lower wattages make it easier to select the correct power

On the other hand, while the dimming of metal halide lamps may be possible from a technical point of view, the negative effects on the colour temperature and the colour rendition do not make this a viable option. Furthermore, there is inadequate data available on the effects of dimming on the life of the lamps. Always refer to the lamp and control gear manufacturers' specifications.

Electronic control gear in 3-circuit installation

To avoid damaging the electronic control gear, the neutral conductor of control gears in 3-circuit installations must never be disconnected.



Electronic control gear units

Non-dimmable ECGs have established themselves on the market since they achieve gre-

ater lamp luminous efficiency than conventional control gear. They also extend the lamp life up to 20,000h by using the so-called "soft-start", they produce low power losses and ensure improved visual comfort due to their flicker-free operation.

Dimming increases both visual comfort and efficiency.



Dimming of fluorescent lamps

Dimming is often used with fluorescent lamps and compact fluorescent lamps. The reasons for this are efficiency and

increased visual comfort. In general, lamps require special control gear for dimming, the varying dimensions of which have to be taken into account when designing the luminaires.

1V-10V control voltage

Besides a special ECG with an input for the 1V-10V control voltage, dimming in a 10V installation only requires a potentiometer or an interface to other control systems, which can be connected to the 1V-10V Control voltage. With the help of a Gateway iLON Smart Server, the Light System DALI can be simply connected to an existing LON network and operated via Ethernet.



Dimming of compact fluorescent lamps (TC) Conventional TC, TC-D, and

TC-T lamps are equipped with integral starters that cannot be dimmed due to the high-frequency starting pulse of electronic compo-

Special TC-EL, TC-DEL and TC-TEL lamps are available for dimming. They generally have four contact pins. TC-L lamps are operated with a sepa-rate starter, TC-F lamps are operated with ECG and can be dimmed in ECG mode without restriction.

For a good control response, all compact fluorescent lamps must be run at full output for approximately the first 100 hours of operation, subject to the manufacturer's specification.



Replacing high-pressure discharge lamps

High-pressure discharge lamps must be immediately

replaced at the end of their service life. The end of their service life is reached when:

1. the colour of the light changes, 2. the lamp glass shows dark discol-

3. periodic stopping and starting

4. the lamp no longer ignites. The lamp manufacturer's instructions must be observed.

These luminaires are equipped with protection systems in the control gear to switch the lamp off at the end o its service life. This minimises the likelihood of damage to the control gear.

In a few cases, if the lamp is not replaced on time, the control gear used can be destroyed. Hot materials can be emitted from the luminaire and cause damage. Consequential damage may result.

Ultrasonic cleaning of reflectors

The ERCO Cleanmobil, a transportable ultrasonic cleaning system is available for extensive reflector cleaning. The Cleanmobil consists of an ultrasonic cleansing basin for a water and cleaning agent mixture, and a rinsing basin for softened water. Bath dimensions: L 0.70m, B 0.30m, H 1.00m Total dimensions: L 1.40m, B 0.90m, H 1.30m 5-pole CEE plug: 14kVA, 16A Fresh water and waste water connections required

Corrosion protection for outdoor luminaires

1. Instructions on mounting the luminaires are included with each product. Furthermore, the national regulations on installation and accident prevention must be observed. 2. Luminaire housings and parts for in-ground installation are made of a low-copper aluminium alloy or of stainless steel. When handled correctly, both materials provide reliable protection against corrosion. When mounting and maintaining the luminaires, take particular care

not to damage the powder coating

In aggressive environments, both the mounting and the maintenance of all components require appropriate safety measures to be applied. 4. The luminaires must be cleaned regularly. The required interval and method depends on the site, situation of mounting and environmental conditions.

5. Recessed floor luminaires must be installed so that water can drain off the surface of the luminaire. When directly installed in the ground or when used in recessed housing, an additional drainage system, e.g. a gravel base, must be provided.

General Information



Disposing of lamps From 2005 onwards, the EU environmental guide-

lines (Waste Electrical and Electronic Equipment) and the RoHS (Restrictions on the use of certain Hazardous Substances in electrical and electronic equipment) will apply. These guidelines regulate the waste processing of electrical and electronic products and the limitation of the harmful substances they contain. According to category 5 of the EU environmental guidelines, the provisions of WEEE and RoHS also include lamps.

Disposing of luminaires The guideline stipulates that all relevant products must bear the symbol of the crossed-out bin from August 2005. The aim is to include luminaires for return and recycling of component materials. Furthermore, it outlines specific guidelines on the proportion of usable and recyclable material. At the same time, it furnishes specifics on the proportion of usable and recyclable materials.

Since August 2005, ERCO has marked all electric luminaires with the symbol of the crossed-out bin.

Technical luminaires present no problems with regard to disposal. Spotlights, downlights, and louvered luminaires essentially consist of cast aluminium, sheet-steel and alumin-

All these materials can be recycled as

Aluminium Darklight reflectors with super purity grade are particularly suitable for recycling. Even plastics can be recycled using a variety of processes.

Disposing of discharge lampsFor physical reasons, low-pressure discharge lamps (fluorescent lamps) and high-pressure discharge lamps contain small quantities of mercury and other trace elements. Discharge lamps must therefore be treated as special waste. For this reason, they cannot be disposed of with house-hold waste. According to the Waste Disposal Law, the owner is obliged to arrange for proper disposal of waste. Discharge lamps can be disposed of intact by bringing them to special waste disposal sites or by being

There are a number of companies specialising in the disposal of discharge lamps.

Disposal process

EU and non-EU countries operate national or specific cross-sector collection and recycling systems. Information on disposal options are available from the national, local and district authorities, and from the

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06651.000	49	13490.000	84	22257.000	748	33318.000	983	33663.000	1058	33813.000	834	34025.000	867	34227.000	853
06652.000	47	13491.000	84	22263.000	746	33319.000	983	33664.000	1058	33814.000	838	34026.000	868	34228.000	857
06653.000 06657.000	53 53	13492.000 13500.000	84 83	22264.000 22267.000	748 710	33329.000 33332.000	931 931	33665.000 33666.000	1049 1049	33816.000 33817.000	839 839	34027.000 34028.000	868 868	34229.000 34230.000	858 855
06658.000	50	13501.000	83	22268.000	710	33333.000	982	33667.000	1049	33818.000	840	34029.000	866	34231.000	855
06659.000	50	13540.000	82	22270.000	710	33334.000	981	33668.000	1049	33819.000	837	34030.000	865	34232.000	855
06660.000	48	13602.000	89	22271.000	710	33337.000	983	33669.000	1063	33823.000	839	34031.000	867	34233.000	855
06661.000 06662.000	52 49	13603.000 13606.000	89 89	22273.000 22274.000	715 715	33338.000 33339.000	982 983	33670.000 33671.000	1052 1048	33824.000 33825.000	838 841	34032.000 34033.000	867 867	34234.000 34235.000	859 860
06663.000	49	13607.000	89	22280.000	715	33342.000	982	33672.000	1050	33826.000	841	34034.000	865	34236.000	855
06664.000	53	13612.000	90	22281.000	715	33343.000	982	33673.000	1052	33827.000	841	34035.000	865	34237.000	855
06665.000 06666.000	50 51	13613.000 13616.000	90 90	22282.000	716 716	33344.000 33345.000	981 988	33674.000	1052 1048	33828.000 33829.000	841 837	34036.000 34037.000	865 865	34238.000	855 855
06667.000	51	13617.000	90	22283.000 22286.000	716	33347.000	989	33675.000 33676.000	1048	33831.000	833	34037.000	865	34239.000 34240.000	859
06668.000	52	13622.000	91	22287.000	716	33348.000	989	33677.000	1050	33832.000	838	34039.000	865	34241.000	860
06670.000	48	13623.000	91	22617.000	697	33349.000	988	33678.000	1050	33833.000	838	34040.000	866	34242.000	850
06671.000	52	13626.000 13627.000	91 91	22625.000 22629.000	699 698	33351.000 33352.000	989 990	33679.000 33680.000	1053 1053	33834.000 33835.000	837 837	34041.000 34042.000	866 866	34243.000 34244.000	850 850
		13630.000	91	22633.000	697	33353.000	990	33682.000	1048	33838.000	837	34043.000	866	34245.000	850
12031.000	98	13631.000	91	22635.000	697	33354.000	990	33683.000	1048	33839.000	837	34050.000	878	34246.000	851
12032.000	98	13632.000	91	22645.000	700	33355.000	990	33685.000	1050	33852.000	837	34051.000	878	34247.000	851
12033.000 12034.000	98 98	13633.000 13639.000	91 93	22649.000 22651.000	700 699	33357.000 33358.000	991 991	33686.000 33688.000	1050 1053	33854.000 33856.000	835 1071	34053.000 34055.000	878 879	34248.000 34249.000	851 851
12079.000	98	13650.000	93	22661.000	698	33359.000	989	33689.000	1051	33858.000	1071	34058.000	879	34250.000	852
12083.000	103	13651.000	93	22663.000	700	33362.000	932	33690.000	1051	33859.000	1071	34063.000	879	34251.000	851
12099.000	103 99	13652.000 13653.000	94 94	22665.000	699	33363.000	932 930	33691.000 33692.000	1051 1051	33872.000 33873.000	1072 1072	34065.000 34066.000	880 880	34252.000 34253.000	852 852
12404.000 12406.000	99	13654.000	93			33364.000 33365.000	930	33694.000	1051	33874.000	1072	34067.000	880	34260.000	857
12412.000	100	13655.000	93	33170.000	805	33366.000	930	33695.000	1054	33875.000	1071	34100.000	888	34261.000	857
12414.000	100	13656.000	93	33176.000	805	33367.000	930	33696.000	1054	33876.000	1072	34101.000	889	34262.000	856
12440.000 12445.000	67 69	13657.000 13658.000	93 93	33179.000 33189.000	805 806	33368.000 33369.000	932 932	33697.000 33698.000	1054 1053	33885.000 33886.000	1072 1072	34102.000 34103.000	889 889	34263.000 34264.000	856 856
12446.000	69	13659.000	93	33190.000	806	33370.000	948	33699.000	1053	33893.000	1072	34104.000	890	34265.000	856
12447.000	85	13660.000	93	33191.000	806	33371.000	948	33702.000	1056	33894.000	1072	34105.000	890	34266.000	856
12482.000	102	13661.000	93	33192.000	806	33372.000	949	33703.000	1060	33896.000	1072	34106.000	890	34267.000	856
12499.000 12503.000	103 103	13662.000 13663.000	93 93	33193.000 33194.000	806 806	33373.000 33374.000	949 949	33704.000 33706.000	1059 1055	33897.000 33900.000	1072 1029	34107.000 34108.000	890 891	34268.000 34269.000	856 856
12527.000	103	13003.000	33	33200.000	908	33376.000	948	33707.000	1063	33901.000	1029	34109.000	891	34270.000	857
12552.000	84	15155.000	793	33201.000	908	33377.000	948	33708.000	1063	33905.000	1029	34110.000	891	34271.000	857
12553.000	84	15156.000	793	33210.000	913	33378.000	950	33709.000	1057	33906.000	1029	34111.000	892	34272.000	857
12556.000 12557.000	102 69	16910.000	67	33211.000 33212.000	913 914	33379.000 33380.000	950 950	33710.000 33711.000	1055 1056	33920.000 33921.000	1030 1030	34112.000 34113.000	892 893	34273.000 34275.000	857 856
12558.000	103		0,	33213.000	914	33382.000	951	33712.000	1056	33925.000	1030	34114.000	893	34276.000	856
12560.000	69			33214.000	915	33384.000	951	33713.000	1057	33926.000	1030	34115.000	888	34277.000	856
12561.000	69 103	22100.000 22103.000	715 713	33215.000 33216.000	915 916	33386.000 33388.000	951 952	33714.000 33715.000	1057 1059	33940.000 33941.000	1031 1031	34116.000 34117.000	888 887	34278.000 34279.000	856 856
12563.000 12567.000	103	22103.000	713	33217.000	916	33390.000	952	33716.000	1059	33945.000	1031	34117.000	887	34279.000	856
12572.000	102	22105.000	716	33218.000	915	33392.000	952	33717.000	1061	33946.000	1031	34119.000	888	34281.000	856
12587.000	102	22109.000	712	33219.000	915	33429.000	816	33718.000	1061	33950.000	1064	34150.000	895	34282.000	856
12597.000 12602.000	102 102	22110.000 22112.000	716 710	33220.000 33221.000	915 915	33440.000 33445.000	812 812	33719.000 33721.000	1061 1057	33951.000 33952.000	1064 1064	34151.000 34152.000	896 896	34283.000 34284.000	861 861
12606.000	102	22119.000	709	33222.000	916	33450.000	997	33722.000	1057	33953.000	1064	34153.000	896	34900.000	894
12612.000	102	22120.000	709	33223.000	916	33451.000	998	33723.000	1060	33954.000	1064	34154.000	897	34901.000	894
12617.000	102	22121.000	714	33226.000	917	33452.000	998 997	33724.000	1060	33955.000 33956.000	1064	34155.000	897	34902.000	894
12657.000 12662.000	103 69	22122.000 22123.000	711 711	33227.000 33228.000	917 917	33453.000 33454.000	997	33725.000 33726.000	1061 1062	33957.000	1064 1064	34156.000 34157.000	897 897	34903.000 34910.000	894 894
12667.000	103	22124.000	709	33229.000	917	33460.000	1000	33727.000	1062	33958.000	1054	34158.000	898	34911.000	894
12671.000	69	22126.000	709	33240.000	908	33461.000	1000	33729.000	1060	33959.000	1054	34159.000	898	34912.000	894
12676.000 12681.000	793 103	22127.000 22128.000	715 712	33241.000 33242.000	913 914	33462.000 33463.000	1000 1001	33732.000 33733.000	938 937	33960.000 33961.000	1065 1065	34160.000 34161.000	898 899	34913.000 34914.000	894 894
12690.000	66	22130.000	713	33243.000	915	33464.000	1001	33734.000	1065	33962.000	1065	34162.000	899	34915.000	894
12691.000	64	22134.000	711	33244.000	916	33465.000	1001	33739.000	1062	33963.000	1065	34163.000	900	34920.000	894
12692.000	66	22135.000	711	33245.000	915	33466.000	998	33750.000	937	33965.000	1032	34164.000	900	34921.000	894
12693.000	64	22137.000 22138.000	712 713	33246.000 33247.000	915 916	33467.000 33468.000	999 999	33751.000 33760.000	937 1069	33966.000 33967.000	1032 1032	34170.000 34171.000	962 962	34922.000 34923.000	894 894
13400.000	80	22139.000	746	33249.000	917	33482.000	815	33761.000	1069	33970.000	944	34172.000	962	34924.000	894
13401.000	80	22140.000	712	33250.000	917	33483.000	815	33762.000	1069	33971.000	944	34200.000	854	34925.000	894
13402.000 13403.000	80 81	22141.000 22143.000	747 713	33270.000 33271.000	909 920	33485.000 33486.000	814 813	33763.000 33764.000	1069 1069	33972.000 33973.000	944 869	34201.000 34202.000	854 854	34930.000 34931.000	894 894
13404.000	81	22144.000	713	33273.000	920	33488.000	814	33765.000	1069	33974.000	877	34203.000	853	34932.000	894
13408.000	81	22145.000	747	33274.000	920	33489.000	813	33766.000	1069	33975.000	857	34204.000	854	34933.000	894
13409.000	81	22148.000	747	33276.000	921	33491.000	814	33767.000	1069	33976.000	944	34205.000	854	34934.000	894
13413.000 13418.000	82 82	22151.000 22164.000	748 746	33278.000 33279.000	921 921	33494.000 33495.000	813 814	33768.000 33769.000	1070 1070	33977.000 33978.000	944 944	34206.000 34207.000	854 854	34935.000 34940.000	894 894
13420.000	84	22166.000	747	33280.000	921	33496.000	811	33770.000	1070	33979.000	877	34208.000	855	34941.000	894
13421.000	84	22167.000	748	33281.000	922	33497.000	811	33771.000	1070	33980.000	882	34209.000	854	34942.000	894
13422.000 13423.000	84 84	22173.000 22174.000	747 748	33282.000 33290.000	922 913	33498.000 33510.000	811 820	33785.000 33786.000	1070 837	33981.000 33982.000	877 877	34210.000 34211.000	854 855	34943.000 34944.000	894 894
13440.000	80	22174.000	714	33291.000	914	33510.000	820	33787.000	837	33983.000	932	34211.000	858	34945.000	894
13441.000	80	22178.000	715	33300.000	942	33512.000	820	33788.000	841			34213.000	859	34949.000	869
13442.000	80	22209.000	709	33301.000	943	33513.000	821	33789.000	841	34000.000	873	34214.000	859	34950.000	883
13460.000 13461.000	83 83	22211.000 22216.000	714 709	33302.000 33303.000	942 943	33514.000 33515.000	821 821	33790.000 33791.000	1069 1069	34001.000 34003.000	873 873	34215.000 34216.000	859 860	34957.000 34958.000	883 883
13465.000	83	22217.000	715	33304.000	943	33516.000	822	33792.000	1069	34003.000	874	34217.000	860	34959.000	883
13466.000	83	22224.000	711	33305.000	943	33517.000	822	33793.000	1069	34005.000	874	34218.000	852	34960.000	883
13470.000	83	22225.000	711	33306.000	942	33518.000	822	33799.000	837	34007.000	874	34219.000	852	34961.000	883
13471.000 13475.000	83 83	22227.000 22228.000	712 713	33311.000 33312.000	975 975	33519.000 33520.000	931 933	33801.000 33802.000	834 833	34008.000 34009.000	875 875	34220.000 34221.000	853 853	34962.000 34963.000	883 883
13476.000	83	22230.000	712	33313.000	976	33524.000	931	33803.000	834	34010.000	875	34222.000	857	34964.000	882
13480.000	83	22233.000	713	33314.000	976	33525.000	932	33804.000	833	34021.000	865	34223.000	858	34965.000	882
13481.000 13485.000	83 83	22234.000 22254.000	714 746	33315.000 33316.000	976 981	33526.000 33661.000	932 1058	33809.000 33811.000	835 834	34022.000 34023.000	867 867	34224.000 34225.000	853 853	34974.000 34990.000	857 869
13486.000	83	22256.000	746	33317.000	981	33662.000	1058	33812.000	833	34024.000	867	34226.000	853	34991.000	877

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34994.000	1042	36430.000	354	36702.000	590	37024.000	621	37454.000	671	37730.000	593	46012.000	475	46420.000	506
34995.000	887	36431.000 36432.000	355 352	36703.000 36706.000	589 594	37025.000 37026.000	622 623	37455.000 37456.000	350 352	37731.000 37732.000	593 596	46013.000 46014.000	476 476	46423.000 46424.000	509 507
36000.000	617	36433.000	353	36707.000	594	37028.000	624	37457.000	349	37733.000	596	46015.000	477	46425.000	511
36001.000 36002.000	617 618	36434.000 36435.000	353 668	36708.000 36709.000	597 597	37029.000 37030.000	616 630	37458.000 37500.000	351 674	37736.000 37737.000	601 601	46016.000 46017.000	477 478	46426.000 46427.000	509 513
36003.000	619	36436.000	666	36712.000	602	37031.000	631	37501.000	674	37738.000	607	46018.000	478	46428.000	512
36004.000 36005.000	618 619	36437.000 36438.000	641 643	36713.000 36714.000	602 337	37032.000 37033.000	631 631	37502.000 37503.000	675 675	37739.000 37740.000	607 608	46021.000 46022.000	479 479	46429.000 46430.000	515 513
36009.000	629	36440.000	670	36715.000	338	37033.000	342	37504.000	357	37740.000	608	46023.000	475	46435.000	508
36010.000	630	36441.000	671	36716.000	337	37035.000	344	37505.000	357	37800.000	604	46024.000	476	46436.000	510
36011.000 36012.000	620 620	36442.000 36443.000	350 352	36717.000 36718.000	338 338	37036.000 37037.000	341 343	37506.000 37507.000	358 355	37801.000 37802.000	605 588	46025.000 46026.000	477 478	46437.000 46438.000	512 514
36013.000	621	36444.000	349	36719.000	339	37038.000	625	37508.000	356	37803.000	588	46028.000	479	46441.000	504
36014.000 36015.000	621 622	36445.000 36446.000	351 653	36720.000 36721.000	338 339	37039.000 37040.000	625 627	37509.000 37510.000	356 669	37804.000 37805.000	591 591	46029.000 46030.000	484 484	46442.000 46443.000	530 531
36016.000	622	36447.000	652	36722.000	606	37041.000	627	37511.000	667	37808.000	595	46031.000	486	46444.000	535
36017.000 36018.000	623 623	36448.000 36449.000	655 654	36723.000 36724.000	606 588	37042.000 37043.000	625 627	37512.000 37513.000	663 662	37809.000 37810.000	595 598	46032.000 46033.000	486 488	46445.000 46446.000	536 540
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36029.000	616	36457.000	660	36736.000	601	37051.000	345	37521.000	360	37818.000	592	46041.000	312	46454.000	324
36030.000	630	36500.000	663	36737.000	601	37052.000	347	37522.000	361	37819.000	592	46042.000	314	46455.000	324
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36033.000	631	36503.000	663	36740.000	608	37055.000	346	37525.000	359	37824.000	597	46045.000	480	46458.000	323
36034.000 36035.000	342 344	36504.000 36505.000	662 664	36741.000 36800.000	607 607	37056.000 37057.000	346 346	37600.000 37601.000	684 685	37825.000 37826.000	597 599	46046.000 46047.000	480 482	46459.000 46460.000	323 505
36036.000	344	36506.000	676	36801.000	604	37057.000	629	37602.000	684	37827.000	599	46048.000	482	46461.000	507
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36038.000 36039.000	625 625	36508.000 36509.000	360 360	36803.000 36804.000	587 587	37238.000 37239.000	626 626	37604.000 37605.000	686 686	37829.000 37830.000	602 339	46050.000 46051.000	482 485	46464.000 46465.000	551 320
36040.000	627	36510.000	361	36805.000	590	37240.000	628	37606.000	686	37831.000	339	46052.000	487	46466.000	322
36041.000	627	36511.000	358	36806.000	590	37241.000	628	37607.000	686	37832.000	340	46053.000	489	46467.000	319
36042.000 36043.000	625 627	36512.000 36513.000	359 359	36809.000 36810.000	595 595	37242.000 37243.000	626 628	37608.000 37609.000	686 687	37833.000 37834.000	340 340	46054.000 46055.000	491 495	46468.000 46500.000	321 542
36044.000	632	36514.000	673	36811.000	598	37244.000	632	37610.000	686	37835.000	340	46056.000	495	46501.000	547
36045.000 36046.000	632 345	36515.000 36516.000	674 674	36812.000 36813.000	598 600	37245.000 37252.000	632 348	37611.000 37612.000	686 686	37836.000 37837.000	341 341	46057.000 46058.000	315 315	46502.000 46503.000	553 554
36047.000	345	36517.000	675	36814.000	600	37253.000	348	37613.000	686	37838.000	607	46059.000	315	46504.000	543
36048.000	345	36518.000	357	36815.000	603 603	37254.000	348	37614.000	686	37839.000	606	46060.000	314	46505.000	548 554
36049.000 36050.000	344 344	36519.000 36520.000	357 358	36816.000 36817.000	339	37255.000 37256.000	347 347	37615.000 37616.000	687 688	37840.000 37841.000	606 608	46061.000 46062.000	314 315	46506.000 46507.000	555
36051.000	345	36521.000	355	36818.000	340	37257.000	348	37617.000	689	37842.000	608	46063.000	316	46508.000	327
36052.000 36053.000	346 347	36522.000 36523.000	356 356	36819.000 36820.000	339 340	37400.000 37401.000	653 652	37618.000 37619.000	688 688	37843.000 37844.000	609 609	46064.000 46065.000	317 317	46509.000 46510.000	327 328
36054.000	347	36524.000	669	36821.000	340	37402.000	655	37620.000	688	37011.000	000	46066.000	316	46511.000	325
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36057.000	346	36601.000	685	36824.000	340	37405.000	654	37623.000	688	44518.000	967	46069.000	471	46514.000	527
36058.000	629	36602.000	684	36825.000	606	37406.000	658	37624.000	684	44519.000	966	46229.000	471	46515.000	526
36229.000 36238.000	616 626	36603.000 36604.000	685 686	36826.000 36827.000	606 589	37407.000 37408.000	656 661	37625.000 37626.000	684 684	44522.000 44523.000	969 969	46246.000 46247.000	481 481	46516.000 46517.000	529 527
36239.000	626	36605.000	686	36828.000	589	37409.000	659	37627.000	684	44526.000	968	46248.000	483	46518.000	526
36240.000 36241.000	628 628	36606.000 36607.000	686 686	36829.000 36830.000	592 592	37410.000 37411.000	657 660	37628.000 37629.000	685 686	44527.000 44536.000	968 966	46249.000 46250.000	483 481	46519.000 46520.000	528 534
36242.000	626	36608.000	686	36833.000	593	37413.000	641	37630.000	685	44547.000	970	46251.000	483	46521.000	539
36243.000 36244.000	628 632	36609.000 36610.000	687 686	36834.000 36835.000	593 596	37414.000 37415.000	641 642	37631.000 37635.000	686 689	44548.000 44549.000	968 966	46252.000 46253.000	485 487	46522.000 46523.000	544 549
36245.000	632	36611.000	686	36836.000	596	37416.000	642	37636.000	690	44563.000	968	46254.000	489	46524.000	556
36252.000	348	36612.000	686	36837.000	599	37419.000	645	37638.000	689	44564.000	969	46255.000	491	46525.000	556
36253.000 36254.000	348 348	36613.000 36614.000	686 686	36838.000 36839.000	599 601	37420.000 37421.000	644 647	37639.000 37640.000	690 690	44565.000 44566.000	969 969	46256.000 46257.000	495 495	46526.000 46527.000	330 330
36255.000	347	36615.000	687	36840.000	601	37422.000	646	37642.000	690	44567.000	970	46264.000	318	46528.000	331
36256.000 36257.000	347 348	36616.000 36617.000	688 689	36841.000 36842.000	608 608	37423.000 37424.000	649 648	37700.000 37701.000	587 587	44568.000 44569.000	966 966	46265.000 46266.000	318 318	46529.000 46530.000	328 329
36400.000	641	36618.000	688	36843.000	608	37425.000	651	37701.000	590	44570.000	966	46267.000	317	46531.000	329
36401.000	640	36619.000	688	36844.000	608	37426.000	650	37703.000	590	44571.000	967	46268.000	317	46600.000	567
36402.000 36403.000	642 642	36620.000 36621.000	688 689	37000.000	617	37431.000 37432.000	644 646	37706.000 37707.000	594 594	44572.000 44573.000	968 968	46269.000 46400.000	318 517	46601.000 46602.000	568 567
36406.000	645	36622.000	688	37001.000	617	37433.000	648	37708.000	597	44574.000	826	46401.000	516	46603.000	568
36407.000 36408.000	643 647	36623.000 36624.000	688 684	37002.000 37003.000	618 619	37434.000 37437.000	650 640	37709.000 37712.000	597 602	44584.000 44592.000	827 827	46402.000 46403.000	519 518	46604.000 46605.000	569 569
36409.000	645	36625.000	684	37003.000	618	37437.000	672	37713.000	602	44593.000	827	46404.000	516	46606.000	569
36410.000	649	36626.000	684	37005.000	619	37439.000	673	37714.000	338	44594.000	826	46405.000	518	46607.000	569
36411.000 36412.000	648 651	36627.000 36628.000	684 685	37009.000 37010.000	629 630	37440.000 37441.000	672 673	37715.000 37716.000	339 338	44595.000 44596.000	826 826	46406.000 46407.000	532 537	46608.000 46609.000	569 570
36413.000	649	36629.000	685	37011.000	620	37442.000	354	37717.000	338	44597.000	826	46408.000	521	46610.000	569
36418.000 36419.000	644 646	36630.000 36631.000	685 685	37012.000 37013.000	620 621	37443.000 37444.000	354 355	37718.000 37719.000	338 339	46000.000	472	46409.000 46410.000	520 524	46611.000 46612.000	569 569
36420.000	648	36635.000	689	37013.000	621	37445.000	353	37719.000	338	46001.000	472	46411.000	523	46613.000	569
36421.000	650	36636.000	690	37015.000	622	37446.000	353	37721.000	339	46002.000	473	46412.000	521	46614.000	569 570
36424.000 36425.000	640 671	36638.000 36639.000	689 690	37016.000 37017.000	622 623	37447.000 37448.000	353 668	37722.000 37723.000	606 606	46003.000 46004.000	474 473	46413.000 46415.000	524 533	46615.000 46616.000	570 571
36426.000	672	36640.000	690	37018.000	623	37449.000	666	37724.000	588	46005.000	474	46416.000	538	46617.000	572
36427.000 36428.000	672 673	36642.000 36700.000	690 587	37021.000 37022.000	624 624	37450.000 37451.000	641 643	37725.000 37726.000	588 591	46009.000 46010.000	492 493	46417.000 46418.000	505 504	46618.000 46619.000	571 571
36429.000	354	36701.000	587	37023.000	620	37453.000	670	37727.000	591	46011.000	475	46419.000	506	46620.000	571

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46621.000	572	46742.000	307	47024.000	476	47437.000	324	47631.000	569	47752.000	460	70541.000	216	72037.000	281
46622.000	571	46743.000	307	47025.000	477	47438.000	324	47632.000	573	47753.000	460	70542.000	216	72038.000	273
46623.000 46624.000	571 567	46744.000 46745.000	308 308	47026.000 47028.000	478 479	47439.000 47440.000	325 323	47633.000 47634.000	573 575	47754.000 47755.000	461 461	70543.000 70544.000	216 216	72039.000 72040.000	273 275
46625.000	567	46746.000	308	47029.000	471	47441.000	323	47635.000	575	47756.000	430	70551.000	216	72041.000	275
46626.000	567	46747.000	308	47030.000	484	47442.000	323	47636.000	573	47757.000	430	70552.000	216	72042.000	273
46627.000	567	46748.000	456	47031.000	484	47443.000	505	47637.000	573	47800.000	447	70553.000	216	72043.000	273
46628.000 46629.000	568 568	46749.000 46750.000	456 459	47032.000 47033.000	486 486	47444.000 47446.000	507 550	47638.000 47639.000	573 573	47801.000 47802.000	448 434	70554.000 70555.000	216 216	72044.000 72045.000	273 273
46630.000	568	46751.000	459	47034.000	488	47447.000	551	47640.000	573	47803.000	434	70556.000	216	72046.000	281
46631.000	568	46752.000	457	47035.000	488	47448.000	320	47641.000	573	47806.000	438	70557.000	216	72047.000	281
46632.000 46633.000	573 573	46753.000 46754.000	457 460	47036.000 47037.000	490 490	47449.000 47450.000	322 319	47642.000	576 576	47807.000	438 441	70620.000 70621.000	120 120	72048.000 72049.000	270 270
46634.000	575	46755.000	460	47037.000	493	47451.000	321	47643.000 47644.000	576	47808.000 47809.000	441	70621.000	336	72049.000	270
46635.000	575	46756.000	461	47039.000	494	47452.000	517	47645.000	576	47810.000	443	70648.000	336	72051.000	272
46636.000	573	46757.000	461	47040.000	494	47453.000	516	47646.000	576	47811.000	443	70649.000	336	72052.000	272
46637.000 46638.000	573 573	46800.000 46801.000	447 448	47041.000 47042.000	494 312	47454.000 47455.000	519 518	47647.000 47648.000	576 574	47812.000 47813.000	446 446	70650.000 70651.000	498 498	72053.000 72054.000	272 280
46639.000	573	46802.000	430	47043.000	314	47456.000	516	47649.000	574	47814.000	432	70653.000	562	72055.000	280
46640.000	573	46803.000	430	47044.000	311	47457.000	518	47650.000	574	47815.000	432	70654.000	562	72056.000	280
46641.000 46642.000	573 576	46804.000 46805.000	433 433	47045.000 47046.000	313 480	47458.000 47459.000	532 537	47651.000 47652.000	574 577	47816.000 47817.000	435 435	70656.000 70657.000	498 498	72057.000 72058.000	280 271
46643.000	576	46808.000	438	47047.000	480	47460.000	522	47653.000	577	47817.000	437	70659.000	498	72058.000	271
46644.000	576	46809.000	438	47048.000	482	47461.000	520	47654.000	577	47821.000	437	70660.000	498	72060.000	274
46645.000	576	46810.000	441	47049.000	482	47462.000	525	47655.000	577	47822.000	440	70662.000	498	72061.000	274
46646.000 46647.000	576 576	46811.000 46812.000	441 443	47050.000 47051.000	480 482	47463.000 47464.000	523 521	47656.000 47657.000	572 572	47823.000 47824.000	440 442	70663.000 70665.000	498 498	72062.000 72063.000	274 274
46648.000	574	46813.000	443	47052.000	485	47465.000	524	47658.000	575	47825.000	442	70666.000	498	72064.000	274
46649.000	574	46814.000	446	47053.000	487	47467.000	533	47659.000	575	47826.000	445	70668.000	498	72065.000	274
46650.000	574	46815.000	446	47054.000	489	47468.000	538	47660.000	573	47827.000	445	70669.000	498	72066.000	281
46651.000 46652.000	574 577	46816.000 46817.000	432 432	47055.000 47056.000	491 495	47500.000 47501.000	527 526	47661.000 47662.000	573 575	47828.000 47829.000	451 451	70671.000 70672.000	562 498	72067.000 72068.000	281 274
46653.000	577	46818.000	435	47057.000	495	47502.000	529	47663.000	575	47830.000	455	70673.000	498	72069.000	274
46654.000	577	46819.000	435	47058.000	315	47503.000	528	47664.000	578	47831.000	455	70675.000	562	72070.000	274
46655.000 46656.000	577 572	46822.000 46823.000	436 436	47059.000 47060.000	315 315	47504.000 47505.000	526 528	47665.000 47666.000	578 578	47832.000 47833.000	450 450	70676.000 70677.000	498 498	72071.000 72072.000	274 274
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46660.000 46661.000	573 573	46827.000 46828.000	442 444	47064.000 47065.000	317 317	47509.000 47510.000	549 556	47670.000 47671.000	579 579	47837.000 47838.000	452 456	70757.000 70758.000	239 239	72076.000 72077.000	268 268
46662.000	575	46829.000	444	47066.000	317	47511.000	556	47672.000	579	47839.000	456	70759.000	239	72078.000	269
46663.000	575	46830.000	449	47067.000	316	47512.000	330	47673.000	579	47840.000	309	70760.000	239	72079.000	269
46664.000	578 570	46831.000	449	47068.000	316	47513.000	330	47674.000	579 570	47841.000	309 309	70761.000	239	72080.000	268
46665.000 46666.000	578 578	46832.000 46833.000	453 453	47069.000 47229.000	316 471	47514.000 47515.000	331 328	47675.000 47676.000	579 578	47842.000 47843.000	309	70762.000 70944.000	239 216	72081.000 72082.000	268 269
46667.000	579	46834.000	452	47246.000	481	47516.000	329	47677.000	578	47844.000	310	70946.000	216	72083.000	269
46668.000	579	46835.000	452	47247.000	481	47517.000	329	47678.000	578	47845.000	310	70956.000	140	72084.000	268
46669.000 46670.000	578 579	46836.000 46837.000	456 455	47248.000 47249.000	483 483	47518.000 47519.000	542 547	47679.000 47700.000	578 433	47846.000 47847.000	310 310	70957.000 70958.000	140 140	72085.000 72086.000	268 269
46671.000	579	46838.000	451	47250.000	481	47520.000	554	47701.000	433	47848.000	460	70959.000	140	72087.000	269
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46673.000 46674.000	579 579	46840.000 46841.000	454 454	47252.000 47253.000	485 487	47522.000 47523.000	543 548	47705.000 47706.000	437 440	47850.000 47851.000	457 459	70967.000 70968.000	140 140	72089.000 72090.000	268 269
46675.000	579	46842.000	309	47254.000	489	47524.000	555	47707.000	440	47852.000	459	70969.000	140	72091.000	269
46676.000	578	46843.000	309	47255.000	491	47525.000	555	47710.000	445	47853.000	458	70981.000	168	72100.000	193
46677.000	578	46844.000	309	47256.000 47257.000	495	47526.000	327	47711.000 47712.000	445	47854.000	458	70982.000	168	72101.000	193
46678.000 46679.000	578 578	46845.000 46846.000	309 310	47264.000	495 318	47527.000 47528.000	327 328	47712.000	431 431	47855.000 47856.000	461 461	70983.000 70984.000	168 168	72102.000 72103.000	195 201
46700.000	430	46847.000	310	47265.000	318	47529.000	325	47714.000	434	47857.000	462	70986.000	140	72105.000	197
46701.000	430	46848.000	310	47266.000	318	47530.000	326	47715.000	434	47858.000	462	70987.000	140	72106.000	198
46702.000 46703.000	433 432	46849.000 46850.000	310 460	47267.000 47268.000	317 317	47531.000 47600.000	326 567	47718.000 47719.000	436 436	47859.000 47860.000	431 431	70988.000 70989.000	140 140	72107.000 72110.000	202 193
46706.000	437	46851.000	457	47269.000	318	47601.000	568	47720.000	439	47000.000	731	70303.000	140	72111.000	193
46707.000	437	46852.000	457	47400.000	505	47602.000	567	47721.000	439	0.55	_	72003.000	270	72112.000	195
46708.000 46709.000	440 440	46853.000 46854.000	459 459	47401.000 47402.000	505 506	47603.000 47604.000	568 569	47724.000 47725.000	444 444	65040.000 65041.000	767 768	72004.000 72007.000	270 271	72113.000 72115.000	201 197
46712.000	445	46855.000	458	47402.000	506	47605.000	569	47726.000	450	65042.000	768	72007.000	271	72116.000	198
46713.000	445	46856.000	458	47406.000	509	47606.000	569	47727.000	450	65043.000	786	72009.000	271	72117.000	202
46714.000	431	46857.000	461	47407.000	508 E11	47607.000	569 EGO	47728.000	454 454	65044.000	786	72012.000	271	72118.000	199
46715.000 46716.000	431 434	46858.000 46859.000	461 461	47408.000 47409.000	511 510	47608.000 47609.000	569 570	47729.000 47730.000	454 449	65045.000 65046.000	786 815	72013.000 72014.000	272 273	72120.000 72121.000	193 193
46717.000	434	46860.000	461	47410.000	513	47610.000	569	47731.000	449	65048.000	815	72015.000	271	72122.000	195
46720.000	436		470	47411.000	512	47611.000	569	47732.000	453	65059.000	769	72016.000	271	72123.000	201
46721.000 46722.000	436 439	47000.000 47001.000	472 472	47412.000 47413.000	515 514	47612.000 47613.000	569 569	47733.000 47734.000	453 452	65080.000 65081.000	767 768	72017.000 72018.000	279 273	72130.000 72131.000	194 196
46723.000	438	47001.000	473	47418.000	508	47614.000	569	47735.000	452	65082.000	768	72019.000	273	72131.000	194
46726.000	444	47003.000	474	47419.000	510	47615.000	570	47736.000	455			72020.000	271	72133.000	194
46727.000	444	47004.000	473	47420.000	512	47616.000	571	47737.000	455	70212.000	220	72021.000	271	72134.000	196
46728.000 46729.000	449 449	47005.000 47009.000	474 492	47421.000 47424.000	514 504	47617.000 47618.000	572 571	47738.000 47739.000	307 307	70313.000 70322.000	220 220	72022.000 72023.000	280 274	72135.000 72136.000	199 199
46730.000	453	47010.000	493	47425.000	530	47619.000	571	47740.000	307	70500.000	216	72024.000	275	72137.000	199
46731.000	452	47011.000	475	47426.000	531	47620.000	571	47741.000	307	70501.000	216	72025.000	272	72138.000	199
46732.000 46733.000	451 451	47012.000 47013.000	475 476	47427.000 47428.000	535 536	47621.000 47622.000	572 571	47742.000 47743.000	308 308	70505.000 70506.000	216 216	72026.000 72027.000	275 279	72139.000 72400.000	202 114
46734.000	455	47013.000	476	47429.000	540	47623.000	571	47744.000	308	70515.000	216	72027.000	280	72400.000	117
46735.000	455	47015.000	477	47430.000	541	47624.000	567	47745.000	308	70516.000	216	72029.000	281	72402.000	114
46736.000	450 450	47016.000	477	47431.000	545 546	47625.000	567 567	47746.000	456	70520.000	216	72030.000	273	72403.000	114
46737.000 46738.000	450 454	47017.000 47018.000	478 478	47432.000 47433.000	546 552	47626.000 47627.000	567 567	47747.000 47748.000	456 459	70521.000 70525.000	216 216	72031.000 72032.000	273 275	72404.000 72405.000	114 114
46739.000	454	47021.000	479	47434.000	553	47628.000	568	47749.000	459	70526.000	216	72033.000	275	72406.000	121
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46741.000	307	47023.000	475	47436.000	553	47630.000	568	47751.000	458	70531.000	216	72036.000	274	72408.000	116

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72409.000	116	73017.000	225	73556.000	298	74422.000	253	75320.000	207	75689.000	146	76439.000	164	76573.000	177
72410.000	116	73018.000	225	73557.000	298	74423.000	253	75321.000	207	75690.000	147	76440.000	164	76574.000	173
72411.000	116	73019.000	225	73564.000	300	74424.000	253	75322.000	207	75691.000	147	76442.000	164	76575.000	173
72412.000	122	73026.000 73027.000	226 226	73565.000	300	74425.000 74426.000	141 253	75323.000 75365.000	207 206	75692.000 75693.000	147	76443.000 76445.000	164	76576.000	172
72413.000 72414.000	124 115	73027.000	226	73570.000 73571.000	301 301	74425.000	253 253	75366.000	206	75694.000	147 147	76446.000	164 164	76577.000 76578.000	172 183
72415.000	115	73036.000	224	73600.000	292	74428.000	253	75370.000	206	75695.000	147	76448.000	164	76579.000	183
72416.000	115	73037.000	225	73601.000	292	74429.000	253	75371.000	206	75696.000	134	76449.000	164	76580.000	187
72417.000	115	73040.000	225	73605.000	292	74430.000	228	75373.000	206	75697.000	134	76451.000	186	76581.000	187
72418.000	121	73043.000	225	73606.000	292	74431.000	120	75375.000	206	75698.000	142	76452.000	186	76582.000	187
72419.000 72420.000	123	73044.000 73048.000	225 225	73611.000 73612.000	300 300	74432.000	120 120	75376.000	206 206	75699.000 75700.000	142 142	76454.000	164 164	76583.000 76584.000	187 188
72420.000	115 115	73048.000	225	73612.000	300	74433.000 74434.000	120	75378.000 75380.000	209	75700.000	142	76455.000 76457.000	164	76585.000	188
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72424.000	121	73063.000	230	73622.000	291	74437.000	877	75383.000	209	75704.000	142	76461.000	164	76588.000	188
72425.000	124	73064.000	230	73623.000	296	74438.000	877	75600.000	136	75705.000	142	76463.000	164	76589.000	188
72426.000 72427.000	117 117	73077.000 73078.000	226 226	73624.000 73625.000	296 299	74439.000 74442.000	877 277	75601.000 75602.000	136 136	75706.000 75707.000	141 141	76464.000 76466.000	164 186	76590.000 76591.000	188 188
72428.000	117	73079.000	226	73626.000	299	74443.000	203	75603.000	136	75707.000	141	76467.000	186	76592.000	186
72429.000	117	73080.000	226	73709.000	235	74447.000	141	75604.000	144	75709.000	141	76469.000	161	76593.000	186
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72432.000	118	73083.000	231	73719.000	235	74450.000	141	75607.000	136	75712.000	132	76473.000	161	76596.000	187
72433.000 72434.000	119 119	73084.000 73103.000	231 223	73729.000 73739.000	235 235	74451.000 74452.000	141 141	75608.000 75609.000	136 144	75713.000 75714.000	132 133	76475.000 76476.000	161 161	76597.000 76598.000	187 183
72435.000	119	73103.000	223	73741.000	254	74453.000	141	75610.000	137	75715.000	133	76478.000	161	76599.000	183
72436.000	122	73118.000	223	73742.000	254	74454.000	141	75611.000	137	75716.000	132	76479.000	161	76600.000	183
72437.000	125	73119.000	223	73749.000	235	74455.000	120	75612.000	137	75717.000	132	76481.000	184	76601.000	183
72438.000	118	73151.000	229	73750.000	244	74456.000	120	75613.000	137	75718.000	133	76482.000	184	76602.000	181
72439.000	118	73152.000	229	73751.000	244	74457.000	120	75614.000	145	75719.000	133	76484.000	165	76603.000	181
72440.000 72441.000	117 117	73153.000 73154.000	223 223	73752.000 73753.000	243 243	74458.000 74459.000	120 294	75615.000 75616.000	137 137	75720.000 75721.000	132 132	76485.000 76487.000	165 165	76604.000 76605.000	181 181
72442.000	118	73156.000	229	73754.000	247	74460.000	294	75617.000	137	75722.000	133	76488.000	165	76606.000	181
72443.000	118	73157.000	229	73755.000	247	74461.000	294	75618.000	137	75723.000	133	76490.000	165	76607.000	181
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72450.000 72451.000	114 117	73165.000 73166.000	224 224	73759.000 73768.000	243 282	74464.000 74465.000	294 294	75621.000 75622.000	137 137	75726.000 75727.000	133 133	76494.000 76496.000	165 186	76610.000 76611.000	165 165
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72454.000	114	73173.000	230	73789.000	235	74469.000	294	75625.000	137	75795.000	229	76500.000	161	76614.000	166
72455.000	114	73174.000	230	73799.000	235	74470.000	141	75626.000	137	75796.000	229	76502.000	161	76615.000	166
72456.000	121	73178.000	224	73800.000	253	74471.000	294	75627.000	137	75800.000	141	76503.000	161	76616.000	183
72457.000 72458.000	123 116	73179.000 73183.000	224 224	73801.000 73802.000	253 253	74472.000 74473.000	294 294	75628.000 75629.000	137 145	75801.000 75825.000	141 141	76505.000 76506.000	162 162	76617.000 76618.000	183 158
72459.000	116	73184.000	224	73802.000	253	74474.000	294	75640.000	138	75830.000	141	76508.000	162	76619.000	158
72460.000	116	73188.000	230	73804.000	238	74475.000	294	75641.000	138	75831.000	141	76509.000	162	76620.000	159
72461.000	116	73189.000	230	73805.000	238	74476.000	294	75642.000	138	75857.000	294	76511.000	185	76621.000	159
72462.000	122	73220.000	262	73806.000	238	74477.000	294	75643.000	138	75858.000	294	76512.000	185	76622.000	158
72463.000 72464.000	124 115	73233.000 73242.000	796 252	73807.000 73808.000	238 236	74478.000 74479.000	294 294	75644.000 75645.000	145 138	75859.000 75860.000	294 294	76529.000 76530.000	163 163	76623.000 76624.000	158 159
72465.000	115	73242.000	252	73809.000	236	74479.000	294	75646.000	138	75861.000	294	76531.000	163	76625.000	159
72466.000	115	73254.000	254	73810.000	236	74481.000	294	75647.000	138	75905.000	141	76532.000	163	76626.000	158
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72468.000	121	73256.000	251	73812.000	252	74483.000	120	75649.000	145	75926.000	180	76534.000	163	76628.000	159
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72472.000	116	73272.000	251	73816.000	237	74487.000	141	75653.000	135	75930.000	180	76538.000	185	76632.000	159
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72482.000 72483.000	118 119	73466.000 73467.000	258 258	73838.000	254	74499.000 74759.000	877 246	75665.000 75666.000	135 144	76403.000 76404.000	162 162	76548.000 76550.000	182 175	77307.000 77308.000	236 236
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77583.000 77584.000	214 214	79024.000 79030.000	66 66	79329.000 79330.000	65 65	81046.000 81047.000	1008 1009	83282.000	726 726	83696.000 83697.000	52 52	85045.000 85048.000	1039 1037	88285.000 88286.000	754 755
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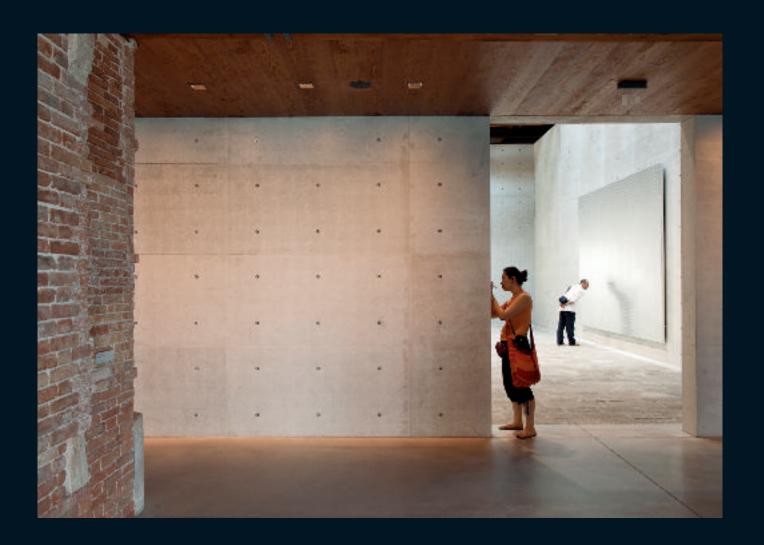
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