Enhancing people's lives with lighting

Outdoor Luminaires Catalogue 2010 - 2012

PHILIPS

sense and simplicity

Enhancing people's lives with lighting

Light is a fundamental part of life. It gives us the natural rhythm of day and night, determines how we see things and brings the world to life. Accordingly, light has a major impact on our well-being, mood and emotions. It inspires, attracts, communicates, sets the scene and enhances our experience of architectural spaces.

Each year, we at Philips invest heavily in research to gather end-user insights, further deepening our understanding of people's needs, desires and aspirations. Combining these insights with our technological leadership, we are able to deliver meaningful innovations – advanced, energy-efficient products and systems that are designed around people and are easy to experience – solutions that will help us create a sustainable future.

www.philips.co.uk/lighting

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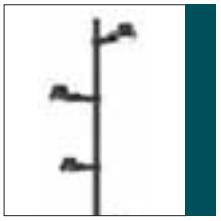
Urban lighting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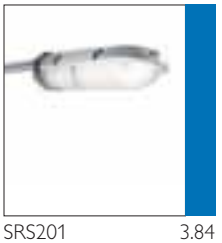
SRS201 3.84

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Architectural lighting

ColorReach 4.12
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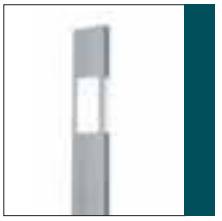

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Product overview

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Marker LED 4.164

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Quality of life – the challenge of unparalleled urbanisation

A century ago less than 10% of the world's population lived in cities. By the start of the 21st century this figure had risen to over 50%, and by the middle of the century it will be over 75%. Faced with this unparalleled expansion, city authorities worldwide recognise the need to re-humanise the urban environment by tackling crime and vandalism, promoting tourism, developing local business and fostering local identity and pride.

Cologne, Germany. Winner city.people.light award 2005

city.people.light

Over the past decade, Philips has been engaged in a process – called city.people.light – to explore how light can be applied to enrich and simplify the human experience of the urban setting. city.people.light aims to stretch creative and intellectual boundaries towards more innovative and relevant solutions. To do this, we enrich our own thinking through extensive dialogue. We share ideas and network with partners such as the Professional Lighting Designers Association (PLDA), and we have established an annual city.people.light award in conjunction with LUCI (Lighting Urban Community International) Association.

city.people.light

"I helped my city save costs and protect the environment."
Mr Bouchet, Director of Public Lighting, City of Lyon, France

Lighting a greener urban future

The landscape of the lighting industry is changing fast, driven by the energy-efficiency imperative and the world of possibilities opened up by the LED revolution, not to mention legislative pressures such as Kyoto and the Energy-using Products directive. To help municipal decision makers keep up to date with the latest developments and the best solutions for creating a sustainable city, we are spreading the word under the theme of Sustainable Cities. In this way we want to help urban authorities reduce energy consumption, thereby helping to lower CO_2 emissions, and improve the quality of life in their towns and cities.

Sustainability – simple changes, major impact

Philips has a long-standing commitment to providing lighting solutions that improve people's lives and are environmentally sound. This is one of the cornerstones of our sustainability policy, whereby we strive to balance our social, economic and environmental responsibilities.

Proactively addressing environmental issues in pursuit of a sustainable, 'brighter' future, we are constantly exploring ways to maximise energy efficiency, minimise the use of hazardous substances and reduce waste. The four key themes at the heart of our sustainability drive for urban lighting are white light, energy management, night preservation and solid-state lighting.

Thanks to Philips' sustainable outdoor lighting solutions, it has never been easier to use light in a responsible way.

asimpleswitch.com

Best environmental choice

Our top EcoDesigned products carry the Green Product Logo. An independent external consultant has validated these products and confirmed that they are at least 10% better than comparable products in terms of energy efficiency, lifetime reliability and / or hazardous substances, and offer a better overall environmental performance.

Transforming your urban nightscape

Today, outdoor lighting solutions no longer have to rely only on yellow light. There is an alternative which is much more successful in combining the qualities of daylight with the energy efficiency associated with high-pressure sodium. This alternative is high-quality white light. High-quality white light can transform urban streets at night – and not just aesthetically, but also in terms of safety, security and energy efficiency.

Research has demonstrated that high-quality white light offers many clear advantages over yellow light. For example, the ambience is perceived as brighter, colours appear more natural and it is easier for pedestrians and cyclists to recognise the faces of other people and obstacles on the street. This greater clarity improves the general feeling of security. Because it improves visibility, especially in the periphery, which can be very important for motorists, white light can make the roads safer as well. And that's not all. Modern white light sources offer comparable or even better energy efficiency than high-pressure sodium lamps.

High-quality white light is the 'green switch' solution for outdoor installations, allowing you to realise significant savings in a variety of ways. For instance, it is possible to specify a greater distance between luminaires in new installations, to reduce the mounting height in refurbishment projects, or to instal lower wattage lamps in upgrades. This means lower running costs – and CO_2 emissions that are lower than was ever thought possible – as well as superior light quality.

Energy management – lighting only when it is needed

Energy management is a top priority. Many of the city.people.light concepts focus on energy management, possible ways of 'recycling' energy and different types of energy source (e.g. solar, gas, electricity). They also acknowledge the potential conflict between energy management and the increasing use of light for identity and communication. Against this background, the research indicates that issues of lighting design and energy management will become increasingly interlinked and convergent over the coming decade.

A 16, The Netherlands

Several options for energy management are proposed, from intelligent lighting, where the lighting is triggered by activity, to alternative energy sources and stand-alone solutions as well as flexible lighting installations that adapt to the rhythm of the day. This will help to fulfil people's needs and patterns of use throughout the entire 24 hours, simply by adjusting the source, intensity and direction.

We can manage – and reduce – our energy consumption by managing our lighting effectively. A good lighting application is characterised, among other things, by having precisely the right level of lighting in the right place at the right time. The required lighting level often depends on external parameters such as traffic volume, ambient brightness and weather conditions. When there is very little traffic on the roads, drivers do not require the same level of lighting as when traffic is at its heaviest. Similarly, why illuminate monuments in the middle of the night when there are few people out and about to see them? Dimming is an ideal means of saving energy without adversely affecting either light uniformity or safety.

Vlissingen, The Netherlands

Night preservation – light only where it is needed

There is growing public concern about a number of lighting-related issues such as night preservation and light nuisance on facades. Night preservation means reducing 'wasted light' at night while maintaining a safe level of visibility. At Philips, we design sustainable solutions to minimise obtrusive and stray light, thus reducing light pollution and saving energy.

Light nuisance includes 'light trespass', for example light that enters our bedrooms and prevents us from sleeping. There is also 'direct upward light', i.e. light that is wasted and can disturb the biorhythm of wildlife. 'Sky glow' prevents astronomers from seeing the stars, but also prevents the general public from enjoying the wonderful night-time atmosphere. Finally, 'glare' has a direct impact on our visual comfort, but also on our safety because it reduces our ability to see.

We need to find a healthy compromise, a rational medium, between the darkness of the night sky and the bright glare of light pollution. A good place to start would be to minimise the intensity of urban lighting. Lighting is therefore managed as a functional asset for people's guidance and comfort in the city. The lighting solution would take the form of minimal light dots distributed precisely and integrated into the streets around us. Such an approach would enable us all to experience the night in a more natural way.

Philips has a wide range of outdoor lighting solutions designed to deliver the required quality and quantity of light while also reducing light pollution and saving energy.

Solid-state lighting – solid progress

Solid-state or LED lighting represents the most significant development in lighting since the invention of electric light well over a century ago. Offering excellent light quality and unprecedented design freedom in terms of colour, dynamics, miniaturisation and architectural integration, it is opening up exciting new possibilities, e.g. for scene setting and ambience creation.

Suzhou science and culture art centre, China
Architect: Paul Andreu; Paris, France
Lighting design: Mr. Y. Nakamura; Tokyo Shomei Consultant Co., Ltd., Tokyo Japan

LEDs provide a completely new form of lighting. Linear LED light sources and the rise of grazing lighting applications are changing the way we use light. The light output of LEDs is increasing rapidly, making them suitable for general lighting applications. LEDs are more energy efficient than most existing light sources, especially if we take into account their optical efficiency. And things will only get better, with their level of efficiency more or less doubling every two years.

From theatre sets and television studios to renowned architectural structures, interiors and artworks, Philips' customers are pushing the boundaries in their forward-looking use of light to enhance spaces, build brands and appeal to the imagination.

Your partner in lighting design

Professional lighting design requires consideration of the amount of functional light provided, the energy consumed, as well as the aesthetic impact of the lighting system. Philips offers calculation software and plug-ins for commercial software to assist you in the development of your technical and architectural lighting designs.

Calculux
This lighting-calculation software allows you to select and evaluate your lighting design in a variety of simulated environments (e.g. sport fields, parking places, industrial areas, streets, highways)

Software-plug-ins for commercial software
With the Philips Product Selector plug-in you can easily select your required luminaire configuration in your favourite software and incorporate the unique data this provides into your design. The plug-in includes all photometrical data and a large collection of 3D models suitable for most visualisation programs. The plug-in is available for DIALux, RELUX, Autodesk's 3D Viz, 3DS MAX and others.

For more information and downloads please visit: www.lightingsoftware.philips.com

Philips Lighting's online catalogue – fully up to date and available 24/7

With Philips Lighting's online catalogue you can instantly access and view our full portfolio of professional lighting solutions – including luminaires, lamps, gear and controls.

Reflecting our commitment to rich, simple user experiences as well as sustainability, our e-catalogue (www.lighting.philips.com/gl_en/catalogue) offers visitors a more engaging, dynamic and informative interaction, as well as being kinder to the environment.

Easy to experience

You can browse the e-catalogue in much the same way as you'd use the printed version. As well as offering easy navigation by category (new products, application areas, green products, LED products, etc., often with convenient segment clustering), the e-catalogue features advanced search functionality, so you can be sure of finding what you're looking for.

Always up to date

A key benefit of the online version of the catalogue is that it's always fully up to date, so you can make informed choices based on the very latest information on our products and systems.

Downloads

Last but not least, you can download the product images, drawings and photometrical data for your own use. Installation instructions and datasheets are also to be found in the e-catalogue.

Urban lighting

Place Jean Jaures, Castres, France
Lighting design: ETI Stinville, René Stinville
Photography: Ville de Castres

A vibrant future

Philips believes that cities, towns and villages should be warm, inviting places that people enjoy living in and visiting. Urban development and regeneration programmes are increasingly focused on rehumanising the urban environment, and we believe lighting has a vital role to play in this regard, creating an appealing, inclusive ambience.

This belief has led Philips to create a range of lighting solutions in which state-of-the-art technology in light sources, optics and materials is combined with clear, elegant design that strikes a balance between contemporary and traditional style.

Lighting streets and pedestrian areas

Lighting plays a central role in how people feel about their city, town or village. That's why the illumination of streets and pedestrian areas has evolved from simple functional lighting into a more demanding and creative discipline. It should not only provide light in which people can drive, cycle and walk safely, but must be pleasing and inviting as well. It should promote communication and well-being, encouraging night-time socialising and complementing the city's night life. Luminaires for street and pedestrian lighting also have an architectural role. During the day they become an integral part of the street scene. Philips range of architectural street luminaires has been designed with this in mind, offering a winning blend of performance and style.

Lighting residential areas

For many years residential lighting was purely functional. And although safety, security and orientation remain essential requirements, there is now a drive to improve the residents' quality of life, creating a pleasing identity for these often-overlooked parts of the city.

Tailor-made solutions

In addition to our standard range of products, we can provide custom lighting products to create architectural signatures that match the desired vision or identity of the city, town, area or village. In many cases we can also apply standard products in original and imaginative ways, enabling cost efficiencies.

To optimise the benefits of lighting and achieve a cohesive result, the creation of a 'masterplan' by a lighting expert is strongly recommended.

Breskens, The Netherlands

Complete solutions

These days, cities are looking for solutions that are not just made up of light points but actually contribute to the identity of the city. For our key ranges, we have designed several ranges of masts and brackets to fit every style in an elegant way. Modern or classical, single or twin bracket, with an optional mini pedestrian luminaire, there is a complete solution available for your project.

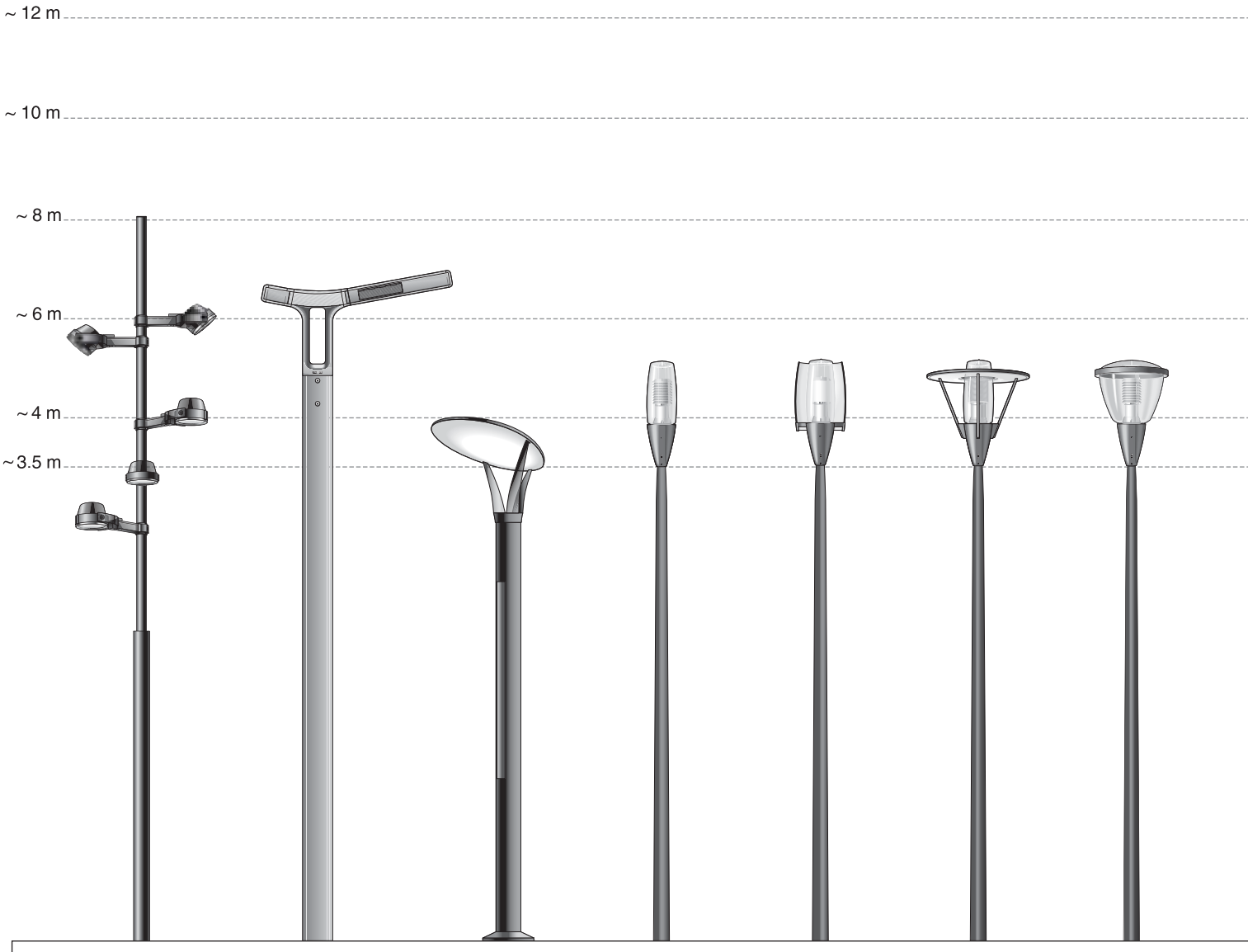
Visualisation service

Not everyone is a technical expert – many people find a visual presentation of the end result helpful when weighing up options. We can integrate a large variety of luminaires and masts on a snapshot of your location.

Contact your local Philips representative for more information.

Current situation

Proposed situation

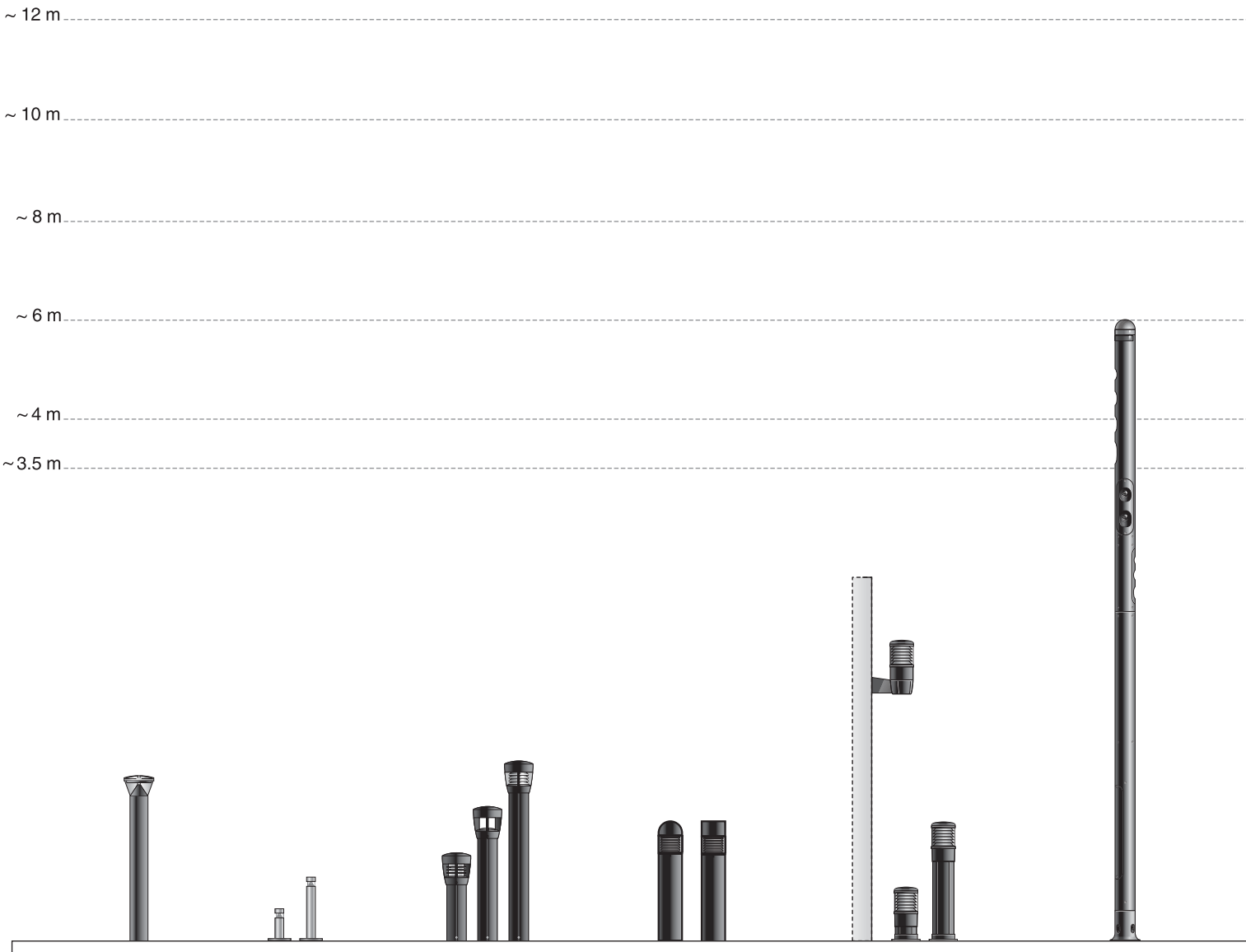


	UrbanScene	UrbanLine	Lightcolumn	Metronomis Torino	Metronomis Bilbao	Metronomis Malmö	Metronomis Annecy
Page	2.24	2.34	2.41	2.50	2.52	2.54	2.56

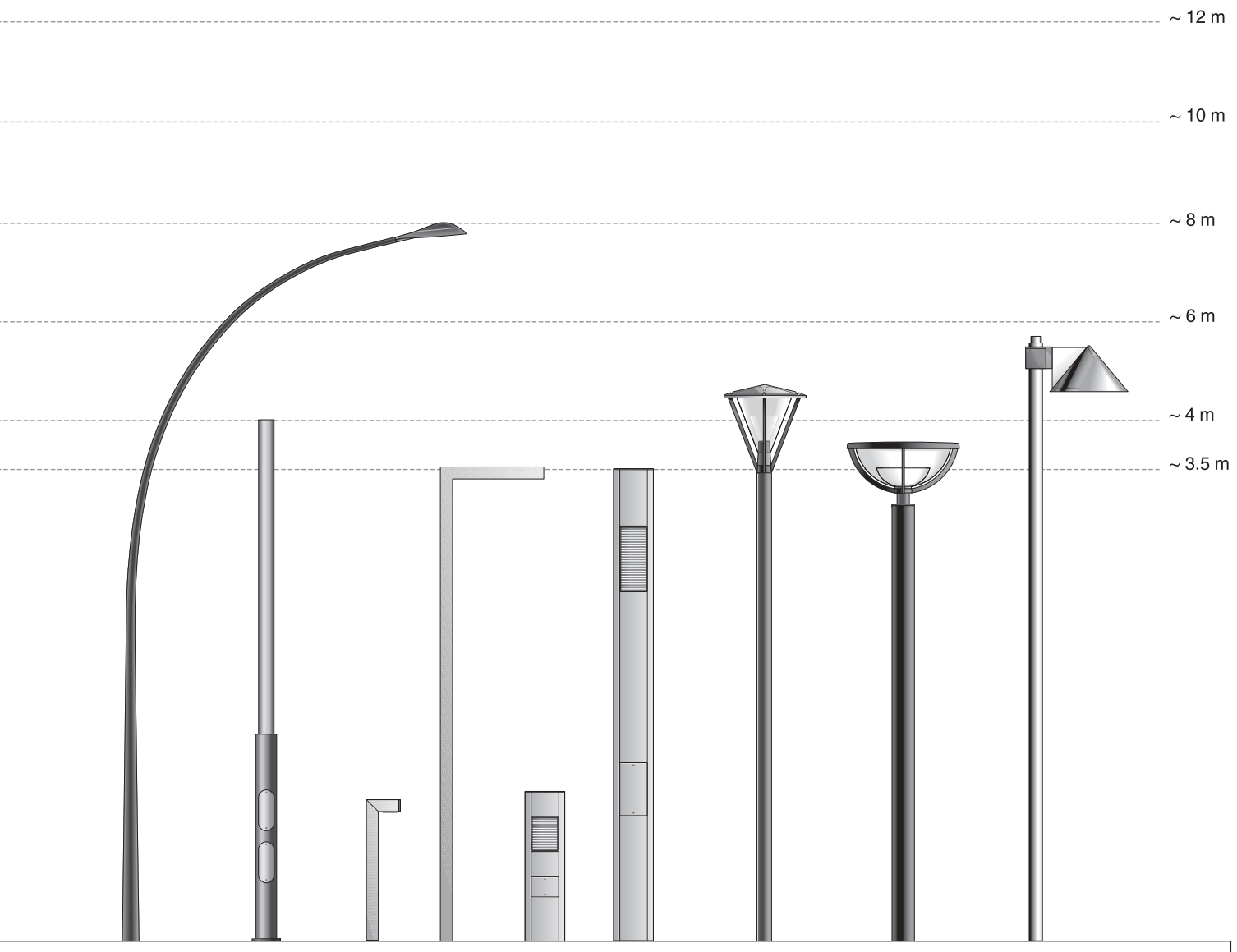
Metronomis	Metronomis	Metronomis	Metronomis	Metronomis	Metronomis
Berlin	Cambridge	Bordeaux	Brussels	Porto	Oslo
2.58	2.60	2.62	2.64	2.66	2.68

	CitySpirit Torch	CitySpirit Classic lantern	CitySpirit Modern lantern	CitySpirit Cone	CitySpirit Street	CitySpirit Street Colour	CPS200	CityZen
Page	2.80	2.83	2.86	2.90	2.100	2.102	2.107	2.109

Urbana	Mega Milewide	Milewide	Mini Milewide	CitySoul CGP431	CitySoul CGP430	CityVision CPS400
2.112	2.120	2.120	2.120	2.132	2.134	2.137



	Nightwatch	Smart Bollard LED	Verona HGP141/142/143	VivaraZON HCP170/171	Vivara HWC138/HGC136/137	Multipole
Page	2.141	2.143	2.145	2.149	2.151	2.155



Bellevue	LightTube	Asklepios HGP425/424	Aether HGP429/428	Arken	Helios	Triangel
2.157	2.159	2.163	2.167	2.169	2.171	2.173

Luminaire	Type	Page	Ingress protection (IP value)	Insulation class	Lateral entry (mm) Ø	Axial entry (mm) Ø	Suitable for suspended mounting	Suitable for wall mounting	Available dedicated brackets / columns
UrbanScene									
	CGP700	2.24	66	I/II	76-90	77-90	-	●	●
	CGP705	2.26	66	I/II	76-90	77-90	-	●	●
	CGP701	2.27	66	I/II	76-90	-	-	●	●
	CDP702	2.28	66	I/II	-	60/76	-	-	●
	CGP703	2.30	66	I/II	76-90	-	-	●	●
	BDP704	2.31	66	I/II	-	60/76	-	-	●
UrbanLine									
	BPP406	2.34	66	I/II	120	120	-	-	●
	BPP407	2.37	65	I/II	-	60/76	-	-	●
Lightcolumn									
	HGP441/442/443	2.41	65/55	I	-	-	-	-	●
Metronomis									
Torino	CDS530/531	2.50	65	II	42-60	60-76	●	●	●
Bilbao	CDS540/541	2.52	65	II	42-60	60-76	●	●	●
Malmö	CDS550	2.54	65	II	42-60	60-76	-	●	●
Annecy	CDS560	2.56	65	II	42-60	60-76	-	●	●
Berlin	CDS570	2.58	65	II	42-60	60-76	-	●	●
Cambridge	CDS580	2.60	65	II	42-60	60-76	-	●	●
Bordeaux	CDS592/594	2.62	65	II	42-60	-	●	●	●
Brussels	CDS501/502	2.64	66	I/II	42-60	60-76	●	●	●
Porto	CDS503/504	2.66	66	I/II	42-60	60-76	●	●	●
Oslo	CDS505/506	2.68	66	I/II	42-60	60-76	●	●	●
CitySpirit									
Torch	BDS450/CDS450	2.80	65	I/II	-	60-76	-	-	●
Classic lantern	BDS460/CDS460	2.83	65	I/II	-	60-76	-	-	●
Modern lantern	BDS462/CDS462	2.86	65	I/II	-	60-76	-	-	●
Cone	BDS470CDS470	2.90	65	I/II	-	60-76	-	-	●
Wall mounted	BWS464CWS464	2.94	65	I/II	-	60-76	-	●	●
Bollard	HGP450	2.97	65	I/II	-	60-76	●	●	●
Street	CDS480	2.100	65	I/II	-	60-76	-	-	●
Street Colour	CDS482	2.102	65	I/II	-	60-76	-	-	●
CPS200									
	CPS200	2.107	65	I	-	60-76	-	-	-
CityZen									
	HPS100	2.109	65	I	-	60	-	-	-
Urbana									
	EPS300	2.112	6.5	II	-	60	-	-	-
Milewide									
Mega Milewide	SRS427	2.120	65	I/II	76	-	-	-	●
Milewide	SRS421	2.120	65	I/II	60	-	-	-	●
Mini Milewide	SRS419	2.120	65	I/II	48	-	-	●	●

CDM (-T/TT/ (ET)	CPO-TW	CDO-ET	CDO-TT	HPI-T HPI-BU(S)	PL-H	PL-L Polar	PL-T PL-C	QL	SDW-T	SON (-E)	SON-I	SON-T	SOX (-E)	High power LEDs	E-27 (incand)
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Luminaire	Type	Page	Ingress protection (IP value)	Insulation class	Lateral entry (mm) Ø	Axial entry (mm) Ø	Suitable for suspended mounting	Suitable for wall mounting	Available dedicated brackets / columns
CitySoul									
	CGP431	2.132	66	I/II	42-60	60-76	-	●	●
	CGP430	2.134	66	I/II	42-60	60-76	-	●	●
CityVision									
	CPS400/401/ 402/403	2.137	65	II	42-60	60-76	-	-	-
Nightwatch									
	HGP433	2.141	65	II	-	-	-	-	-
Smart Bollard LED									
	BCP450/455	2.143	65	I	-	-	-	-	-
Verona									
	HGP141/142/143	2.145	65/44	I	-	-	-	-	-
VivaraZON									
	HCP170/171	2.149	54	I	-	-	-	-	-
Vivara									
	HGC136/137 HWC138	2.151	54	II	-	-	-	●	-
Multipole									
	MPO	2.155	65	I/II	-	-	-	-	-
Bellevue									
	BEL	2.157	65/23	I/III	-	42	-	●	●
Lighttube									
	NLC	2.159	65	I/II	-	-	-	-	-
Asklepios									
	HGP424/425	2.163	65	II	-	-	-	-	-
Aether									
	HGP428/429	2.167	65	II	-	-	-	-	-
Arken									
	HPS930	2.169	65	II	-	114	-	●	●
Helios									
	HPS900	2.171	55	II	-	156	-	●	●
Triangel									
	2TR480	2.173	54	I/II	60/76	60/76	●	●	●

CDM (-T/TT/ (ET)	CPO-TW	CDO-ET	CDO-TT	HPI-T HPI-BU(S)	PL-H	PL-L Polar	PL-T PL-C	QL	SDW-T	SON (-E)	SON-I	SON-T	SOX (-E)	High power LEDs	E-27 (incand)
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UrbanScene

UrbanScene – all that a city needs

UrbanScene is a range of complete lighting solutions comprising five highly distinctive urban lighting luminaires, plus dedicated masts and brackets. Their flexibility, coherent design and outstanding optical performance allow them to fulfil all main applications – street lighting, area lighting, illumination and image projection.

UrbanScene's energy saving features (high efficiency lamps, electronic gear) enable local authorities to adopt a sustainable approach to urban lighting.
Designed to be unobtrusive, night-preserving and fully recyclable, UrbanScene has an elegant daytime appearance. Smart brackets allow total flexibility in aiming, while preserving the overall appearance of the light point.
The UrbanScene range consists of small and medium-sized luminaires, as well as gobo projector, LED and indirect versions.

www.philips.co.uk/lighting

asimpleswitch.com

UrbanScene CGP703 - HID indirect lateral luminaire

UrbanScene BDP704 – LED post top

UrbanScene CDP702 – architectural indirect luminaire

UrbanScene CGP701 - gobo projector

UrbanScene CGP700, small version

UrbanScene CGP705, medium version

Two CGP705 luminaires on mast

One CGP700 and one tilted CGP705 luminaire on mast

CGP705 with CosmoPolis Open optic R60 (OOC)

The UrbanScene series currently consists of six luminaires. The small CGP700, which offers a choice of bundles and accessories, is ideal for low-power lighting of streets and objects. The medium-sized CGP705 – designed to have enough space for CosmoPolis or MASTERColour CDM-T lamps – is optimised for street and area lighting.

CGP705 with Mini T-Pot for CDM-T (TPS)

CGP705 with asymmetrical optic

CGP700 with CosmoPolis Open optic R60 (OOC)

CGP700 with 60° beam

CGP700 with 4° beam

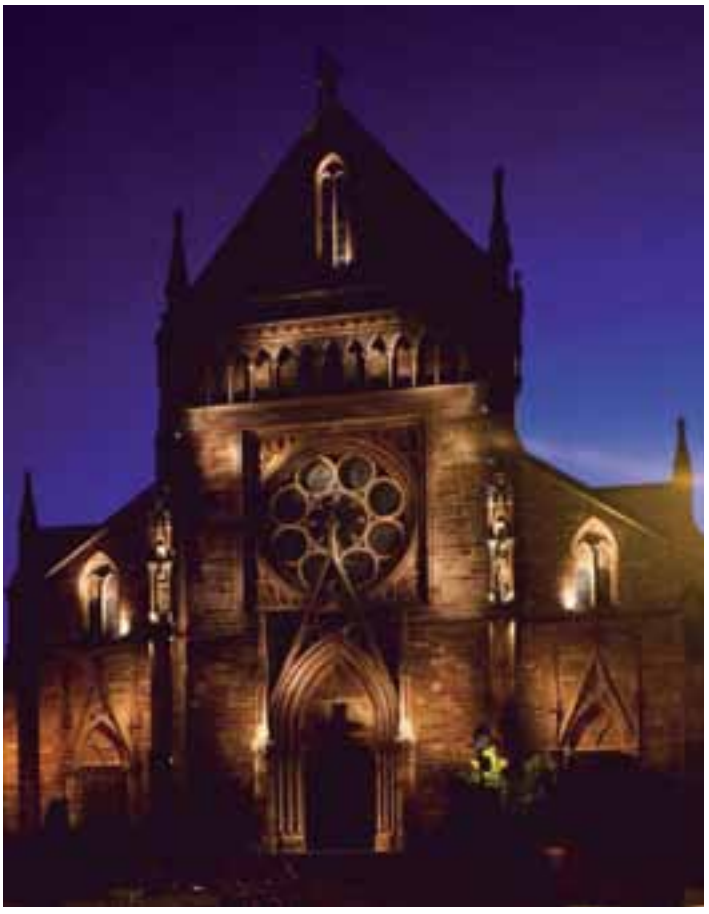
CGP700 with 10° beam

CGP700 with 20° beam

CGP700 with 40° wide beam

Volgograd, Russia

Pierre Nègre, L'Atelier Lumière



Architectural lighting

Image projection

Area lighting

Street lighting

CosmoPolis & mini T-Pot optics

The road optics are ideal for street lighting. It is suitable for use with compact burner lamps, providing very good spacing.

Application:

• Street lighting

Luminaire version:

• CGP700 (small version)

• CGP705 (medium-sized version)

Asymmetrical optic

The asymmetrical optic has been designed for area lighting. The sharp beam minimises light nuisance.

Application:

• Functional area lighting: parking

Luminaire version

• CGP705 (medium version)

Rotational optics 4°, 10°, 20°, 40°, 60°

The wide range of beam widths from very narrow beams to extra wide beams enables the creation of different lighting effects.

Application:

• Decorative area lighting

• Architectural lighting, accent and front lighting

Luminaire version

• CGP700 (small version)

Projector

Application:

• Image projection: to project pattern on the ground (stars, leaves, characters, etc.)

Luminaire version

• CGP701 (projector)

Optical performance:

• Fixed focus

• Image can be sharpened

• Projection distance: from 4 to 15 m

Indirect bidirectional optic TB-IO

The bi-directional reflector projects light on both sides, thus optimising spacing.

Application:

• Pedestrian street lighting: Footpath, cyclepath, promenades

Luminaire version

• Indirect Post-Top

Indirect symmetrical optic TS-IO, T-IO Optic Urban LED

These optics create rotational symmetric distributions on the floor.

Application:

• Pedestrian street lighting

Area lighting

Luminaire version

• Indirect Post-Top

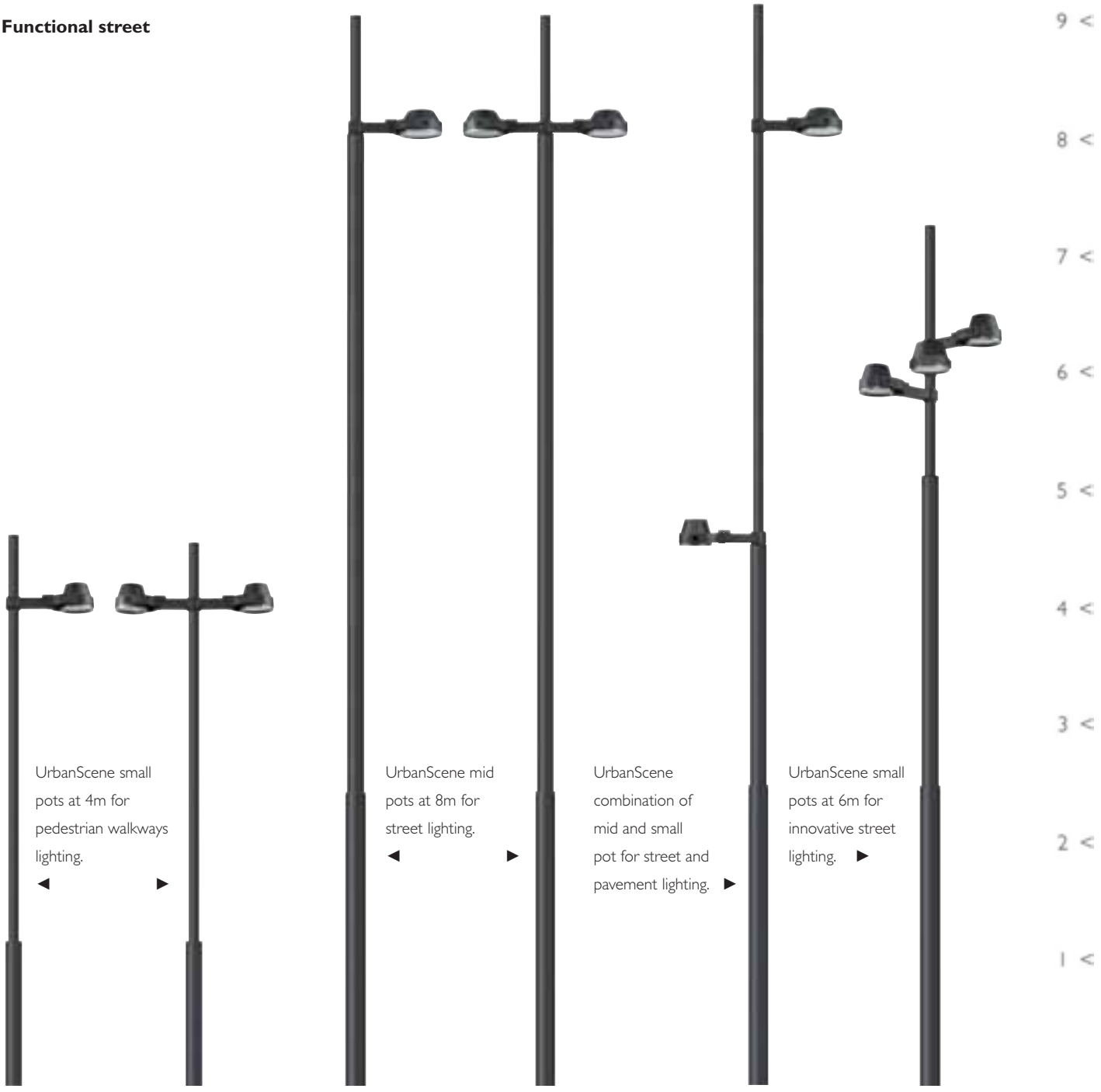
• Urban LED Post-Top

Complete solution

Masts have a simple and unobtrusive cylindrical shape for allowing the installation of the luminaires at whatever height is required by the application.
Luminaires have been designed to be oriented in any position without impacting the daytime appearance of the light-point. Although UrbanScene offers huge flexibility in terms of luminaire installation, the cables are never visible from outside.

All complete solutions are EN40 compliant.

Functional street



Mast:

• To match your requirements, masts can be either in galvanised steel or in aluminium.

Finishing:

• Philips Dark grey as standard. Other RAL or AkzoNobel coatings on request.
Aluminium specific finishing possible.

Mast height:

• Height of masts: from 4 to 12 m.

10 <
9 <
8 <
7 <
6 <
5 <
4 <
3 <
2 <
1 <

Pedestrian area

UrbanScene small pots and mid pots mounted between 4 and 5 metres for pedestrian area and piazza lighting.

◄ ►

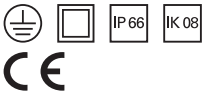
Combination functional and decorative lighting

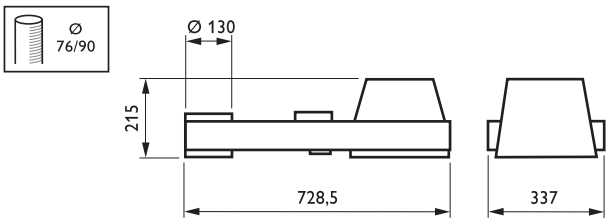
Combination of small pots, mid pots and projectors for mixing decorative and functional lighting in a urban environment.

◄ ► ►

	UrbanScene
Type	CGP700 (small version)
Light source	HID: 1 x MASTERColour CDM-Tm Mini / PGJ5 / 20 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60 W
Lamp included	Yes (K or light colour 830 or 942)
Ballast (integrated)	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Flood optic: Symmetrical 4° (4) Symmetrical 10° (10) Symmetrical 20° (20) Symmetrical 40° (40) Symmetrical 60° (60) Road optic: CosmoPolis open optic R60 for CDM-T (OC)
Optical cover	Flat glass (FG) Flat glass with DynaClean (FGD) Glass beam softener (BSO) Fine-ridged glass (LBSP)
Options	Photocell: Microcell (P5), Lumistep (LS-6, 8 or 10)
Materials and finishing	Housing and cover: high pressure, die-cast aluminium Cover: thermally hardened glass Reflectors: anodised aluminium
Colour	Canopy: ultra dark grey (GR), approx RAL7043 Frame: silver grey, approx RAL9006 Other RAL or AKZO Futura colours available on request

Installation	Installation at any position on a 76 or 90 mm mast with short 300 mm bracket (MBP-D76-L300, MBP-D90-L300) or with long 1200 mm bracket (MBP-D76-L1200, MBP-D90-L1200) Wall-mounting with short or long bracket (MBW-L300 or MBW-L1200) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: from 3,5 - 8 m Freely adjustable tilt Adjustable light distribution for road reflector on 5 positions Max adjustment from the horizontal: -85 to +85° Max vertical aiming: -175 to +170°
Maintenance	From below by opening the front cover with a single quick-release clip Rear access to the gear
Accessories	Filters: Solgel filters: green (SGF-G), blue (SGF-B), light blue (SGF-LBL), yellow (SGF- E) Filters: red (F-RD), warmer (WAF1), cooler (COF2) Glare shieldings: Internal louvre (RL) Visor glare shield (GS)
Remarks	Ready-to-install versions available; with lamp and and choice of 4.5, 6, or 9 m cable (C4K5, C6K, CK9)
Main applications	City centres, piazzas, urban areas, shopping malls, illuminations and street lighting





CGP700

UrbanScene CGP700 urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CGP700 CPO-TW45W K EB I OOC FG CO GR	10.42	952892 00
CGP700 CPO-TW60W K EB I OOC FG CO GR	10.42	952908 00
CGP700 CDM-Tm20W K EB I 4 FG CO GR	9.93	952915 00
CGP700 CDM-Tm20W K EB I 20 FG CO GR	9.93	952922 00
CGP700 CDM-Tm20W K EB I 60 FG CO GR	9.93	952939 00
CGP700 CDM-T35W/830 EB I 4 FG CO GR	9.35	952946 00
CGP700 CDM-T35W/830 EB I 20 FG CO GR	9.35	952953 00
CGP700 CDM-T35W/830 EB I 60 FG CO GR	9.35	952960 00
CGP700 CDM-T70W/830 EB I 4 FG CO GR	9.35	952977 00
CGP700 CDM-T70W/830 EB I 20 FG CO GR	9.35	952984 00
CGP700 CDM-T70W/830 EB I 60 FG CO GR	9.35	952991 00
CGP700 CDM-T150W/830 EB I 4 FG CO GR	9.85	953004 00
CGP700 CDM-T150W/830 EB I 20 FG CO GR	9.85	953011 00
CGP700 CDM-T150W/830 EB I 60 FG CO GR	9.85	953028 00

Please contact your local Philips representative for additional configurations

	UrbanScene
Type	CGP705 (medium version)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTER CosmoWhite CPO-TW / PGZ12 /45, 60 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400, 600 W
Lamp included	Yes (K or light colour 830 or 942)
Ballast (integrated)	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Flood optic: Asymmetrical for CDM-TD lamp version (A) Road optic: Mini T-Pot for CDM-T lamp version (TPS) CosmoPolis open optic R60 (OC)
Optical cover	Flat glass (FG) Flat glass with DynaClean (FGD)
Glare shielding	Light trespass (LTP)
Options	Photocell: Microcell (P5) Lumistep (LS-6, 8 or 10)
Materials and finishing	Housing and cover: high pressure, die-cast aluminium Cover: thermally hardened glass Reflectors: anodised aluminium
Colour	Canopy: ultra dark grey (GR), approx RAL7043 Frame: silver grey, approx RAL9006 Other RAL or AKZO Futura colours available on request
Installation	Installation at any position on a 76 or 90 mm mast with short 300 mm bracket (MBP-D76-L300, MBP-D90-L300) or with long 1200 mm bracket (MBP-D76-L1200, MBP-D90-L1200) Wall-mounting with short or long bracket (MBW-L300 or MBW-L1200) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: from 4,5 to 9 m Freely adjustable tilt Adjustable light distribution for road reflector on 5 positions Max adjustment from the horizontal: -85 to +85° Max vertical aiming: -175 to +170°
Maintenance	From below by opening the front cover with a single quick-release clip Access to the gear behind optical plate
Accessories	Dedicated mast and wall brackets available for different mounting possibilities
Remarks	Ready-to-install versions available; with lamp and and choice of 4.5, 6 or 9 m cable (resp. C4K5, C6K, CK9)
Main applications	City centres, piazzas, urban areas, shopping malls, illuminations and street lighting

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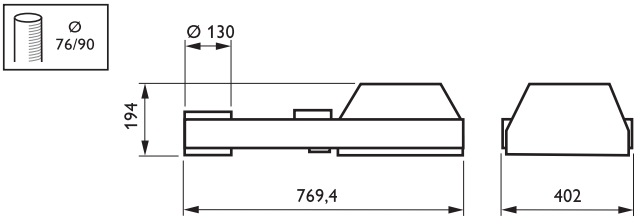


CGP705

UrbanScene CGP705 urban lighting luminaire

Preferred selection

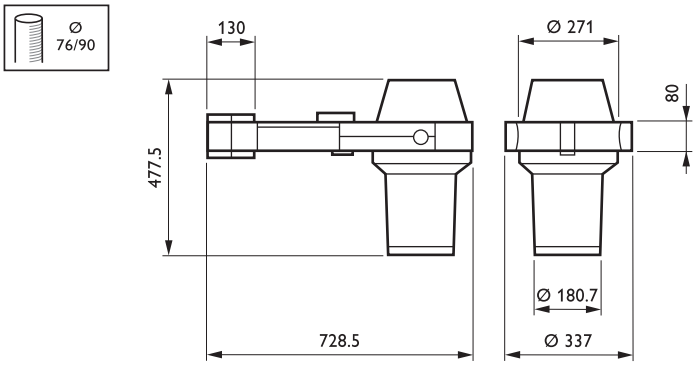
Product ID	Weight (kg)	European Order Code (EOC)
CGP705 CPO-TW45W K EB I OOC FG CO GR	13.56	953110 00
CGP705 CPO-TW60W K EB I OOC FG CO GR	13.56	953127 00
CGP705 CPO-TW90W K EB I OOC FG CO GR	13.56	953134 00
CGP705 CPO-TW140W K EB I OOC FG CO GR	13.36	953141 00
CGP705 CDM-TD70W/830 EB I A FG CO GR	12.33	953158 00
CGP705 CDM-TD150W/830 EB I A FG CO GR	12.83	953165 00
CGP705 CDM-T35W/830 EB ITP-S FG CO GR	12.75	953172 00
CGP705 CDM-T70W/830 EB ITP-S FG CO GR	12.75	953189 00
CGP705 CDM-T150W/830 EB ITP-S FG CO GR	13.25	953196 00

Please contact your local Philips representative for additional configurations

	UrbanScene
Type	CGP701 (Gobo projector version)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 70 W 1 x MASTERColour CDM-T Elite / G12 / 70 W 1 x MASTEColour CDM-SA/T / G12 / 150 W
Lamp included	Yes (K or lamp colour)
Ballast (integrated)	Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	Symmetric 2 x 16°
Optical element	Diaphragm shutters
Optical cover	Glass, flat (FG)
Cable gland	ISO20
Materials and finishing	Housing: high pressure, die-cast aluminium Cover: thermally hardened glass Reflectors: anodised aluminium
Colour	Housing (CO): ultra dark Grey (GR) Frame: silver grey, approx RAL9006 Other RAL or AKZO Futura colours available on request

Installation	Installation at any position on a 76 mm or 90 mm mast with short 520 mm bracket or with long 1200 mm bracket Operating temperature: - 20°C < T_a < 35°C Recommended mounting height: 4 to 15 m Adjustable tilt angle: Max adjustment from the horizontal: -76 to +76° Max vertical aiming: -20 to +165° Max SCx value by side: 0.115 m^2
Maintenance	Easy lamp replacement without tools Access to ballast by unscrewing the back of the small pot
Accessories	Dedicated mast brackets available for different mounting possibilities, wall mounting bracket and colour filters
Remarks	Ready-to-install versions available; with lamp and and choice of 4.5, 6, or 9 m cable (C4K5, C6K, CK9)
Main applications	Image and logo projection at city centres, piazzas, urban areas, shopping malls

IP66 IK08



CGP701

UrbanScene CGP701 urban lighting luminaire

Preferred selection

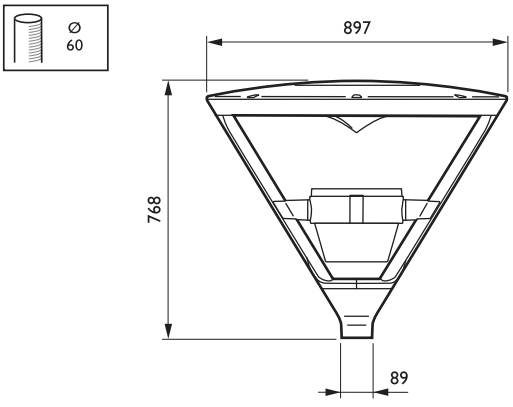
Product ID	Weight (kg)	European Order Code (EOC)
CGP701 CDM-T70W/830 EB I FG CO GR Z	14.03	961061 00
CGP701 CDM-SA/T150W EB I FG CO GR Z	14.51	961085 00

Please contact your local Philips representative for additional configurations

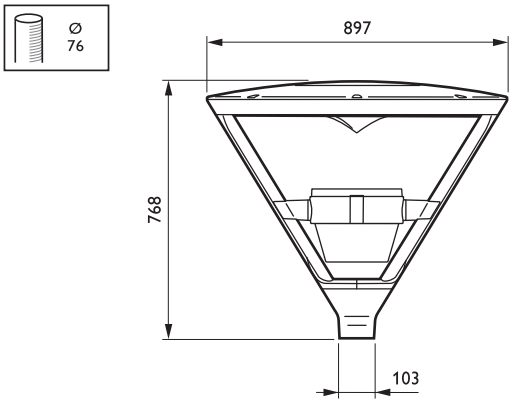
	UrbanScene
Type	CDP702 (HID lamp, indirect version)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTERColour CDM-T Elite / G12 / 35, 70, 150 W 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER SDW-TG Mini / GX12-1 / 50, 100 W
Lamp included	Yes (K or lamp colour)
Ballast (integrated)	Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	Indirect (IO)
Optical element	Louvre (LO)
Optical cover	Glass, flat with DynaClean coating (FGD)
Cable gland	ISO20
Options	Lighting control: Lumistep (LS6, LS8, LS10) Photocell (P5)
Materials and finishing	Housing: high pressure, die-cast aluminium Cover: thermally hardened glass Reflectors: anodised aluminium

Colour	Housing (CO): ultra dark grey (GR) Frame of small pot: silver grey, approx RAL9006 Cover: white, approx RAL9003 Other RAL or AKZO Futura colours available on request
instalation	Post-top mounting: axial entry Ø 60/76 mm (60P and 76P) Operating temperature: - 20°C < T_a < 35°C Recommended mounting height: 4 to 6 m Max SCx value by side: 0.170 m^2
Maintenance	Lamp replacement by opening the front cover of small pot with a single quick-release clip Access to ballast by unscrewing the round ballast cover at the top of the reflection disc
Accessories	Dedicated mast brackets available for different mounting possibilities, wall mounting bracket, colour filters and electrical connection cable
Remarks	Ready-to-install versions available; with lamp and and choice of 4.5 or 6 m cable (C4K5, C6K)
Main applications	City centres, piazzas, urban areas, shopping malls and street lighting

IP66 IK08



CDP702 (60P)



CDP702 (76P)

UrbanScene CDP702
urban lighting luminaire

Preferred selection

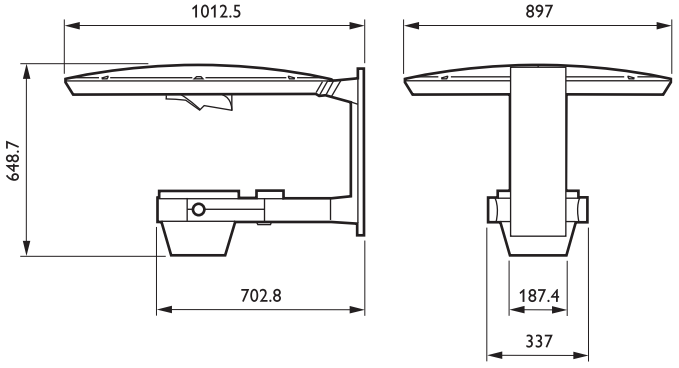
Product ID	Weight (kg)	European Order Code (EOC)
CDP702 CPO-TW45W K EB ITS IO FG CO GR	25.46	961917 00
CDP702 CPO-TW60W K EB ITS IO FG CO GR Z	25.46	961948 00
CDP702 CPO-TW90W K EB ITS IO FG CO GR Z	25.46	961979 00
CDP702 CPO-TW140W K EB ITS IO FG CO GR	25.26	962006 00
CDP702 CDM-T35W/830 EB ITB IO FG CO GR	24.76	962013 00
CDP702 CDM-T35W/830 EB ITB90 IO FG CO	24.76	962020 00
CDP702 CDM-T35W/830 EB ITS IO FG CO GR	24.76	962037 00
CDP702 CDM-T70W/830 EB ITB IO FG CO GR	24.76	962044 00
CDP702 CDM-T70W/830 EB ITB90 IO FG CO	24.76	962051 00
CDP702 CDM-T70W/830 EB ITS IO FG CO GR	24.76	962068 00
CDP702 CDM-T150W/830 EB ITB IO FG CO GR	25.26	962075 00
CDP702 CDM-T150W/830 EB ITB90 IO FG CO	25.26	962082 00
CDP702 CDM-T150W/830 EB ITS IO FG CO GR	25.26	962099 00

Please contact your local Philips representative for additional configurations

	UrbanScene
Type	CGP703 (HID lamp, indirect lateral version)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70, 150, W 1 x MASTERColour CDM-T Elite / G12 / 35, 70, 150 W 1 x MASTER SDW-TG Mini / GX12-1 / 50, 100 W
Lamp included	Yes (K or lamp colour)
Ballast (integrated)	Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	Indirect (IO)
Optical element	Louvre (LO)
Optical cover	Glass, flat with DynaClean coating (FGD)
Cable gland	ISO20
Options	Lighting control: Lumistep (LS6, LS8, LS10) Photocell (P5)
Materials and finishing	Housing: high pressure, die-cast aluminium Cover: thermally hardened glass Reflectors: anodised aluminium
Colour	Housing (CO): ultra dark grey (GR) Frame of small pot: silver grey, approx RAL9006 Cover: white, approx RAL9003 Other RAL or AKZO Futura colours available on request

Installation	Separate installation of small pot and disc at any position on a 76 or 90 mm mast. The small pot is with a short 520 mm bracket Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 4 to 6 m
Maintenance	Lamp replacement by opening the front cover of small pot with a single quick-release clip Access to ballast by unscrewing the back cover of the small pot
Accessories	Dedicated mast brackets available for different mounting possibilities, wall mounting bracket, colour filters and electrical connection cable
Remarks	Ready-to-install versions available; with lamp and and choice of 4.5 or 6 m cable (C4K5, C6K)
Main applications	City centres, piazzas, urban areas, shopping malls and street lighting

IP66 IK08



CGP703

UrbanScene CGP703
urban lighting luminaire

Preferred selection

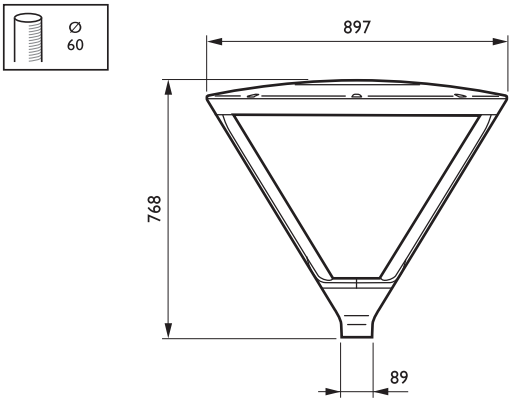
Product ID	Weight (kg)	European Order Code (EOC)
CGP703 CDM-T35W/830 EB IT IO FG CO GR Z	23.02	962211 00
CGP703 CDM-T35W/830 EB ITS IO FG CO GR	23.02	962228 00
CGP703 CDM-T70W/830 EB IT IO FG CO GR Z	23.02	962242 00
CGP703 CDM-T70W/830 EB ITS IO FG CO GR	23.02	962259 00
CGP703 CDM-T150W/830 EB IT IO FG CO GR	23.52	962273 00
CGP703 CDM-T150W/830 EB ITS IO FG CO GR	23.52	962280 00

Please contact your local Philips representative for additional configurations

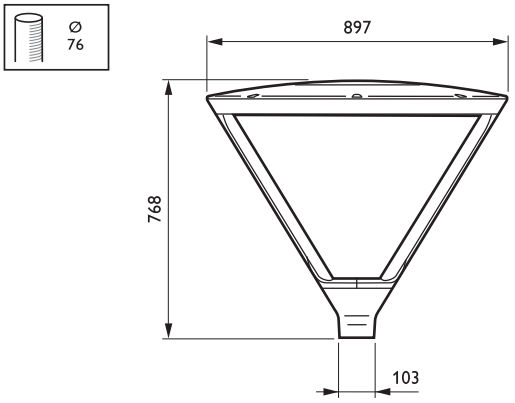
	UrbanScene
Type	BDP704 (LED version)
Light source	40 x LED-HB
Light colour	Mono colour: warm white (WW), neutral white (NW)
Power consumption	95 W
Inrush current	700 mA
Driver	220-240 V / 50-60 Hz
Optic	Meniscus for a rotation symmetric distribution
Cable gland	ISO20
Options	Lighting control: Lumistep (LS6, LS8, LS10) Photocell (P5)
Materials and finishing	Housing: high-pressure, die-cast aluminium Cover: polycarbonate
Colour	Housing (CO): Philips ultra-dark grey (GR) Cover: white, approx RAL9003 Other RAL or AKZO Futura colours available on request

Installation	Post-top mounting: axial entry Ø 60/76 mm (60P and 76P) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 4 to 6 m Max SCx value by side: 0.136 m^2
Maintenance	Access to drivers by unscrewing the round driver cover at the top of the reflection disc
Accessories	Dedicated mast brackets available for different mounting possibilities
Remarks	Ready-to-install versions available; with lamp and and choice of 4.5 or 6 m cable (C4K5, C6K)
Main applications	City centres, piazzas, urban areas, shopping malls

IP66 IK08



BDP704 (60P)



BDP704 (76P)

UrbanScene BDP704
urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BDP704 LXML/NW ITW GR 60	30.50	962402 00
BDP704 LXML/NW ITW GR P5 60	30.60	962419 00
BDP704 LXML/WW ITW GR 60	30.50	962426 00
BDP704 LXML/WW ITW GR P5 60	30.60	962433 00

Please contact your local Philips representative for additional configurations

UrbanLine

UrbanLine – enhancing people's well-being and preserving the environment

Representing a breakthrough into functional outdoor LED lighting. UrbanLine is a system and retrofit outdoor LED luminaire that delivers light in a sustainable and energy efficient manner, while still fulfilling all the requirements in terms of safety and city identification.

Its contemporary design, which reflects the lighting function, provides urban planners with an interesting solution for street applications.

UrbanLine delivers a visually comfortable and uniform white light with good colour rendering in excess of 80. It is available in two colour temperatures: warm white (3000 K) and neutral white (4000 K). Featuring high-power LEDs combined with smart optics, UrbanLine offers an environmentally friendly lighting solution – consuming up to 51% less energy than traditional street lighting - through exploiting the benefits of white light.

UrbanLine is a flexible and complete solution that enables architects, urban planners and lighting designers to address multiple lighting applications in residential areas. The range comprises four luminaire configurations and a dedicated mast, which is available in several heights. The duo version has LED modules on both sides. The retrofit version is available fit either 60 or 76 mm diameter masts.

www.philips.co.uk/lighting

Photocell - minicell

UrbanLine collimator and reflector combination, 2-module version

Urbanline BPP406 front view, 2-module version

asimpleswitch.com

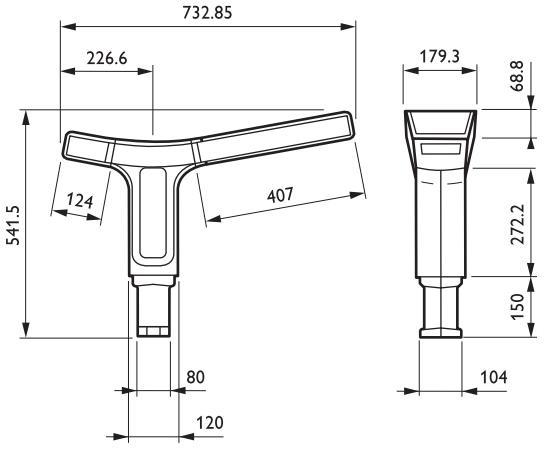
	UrbanLine
Type	BPP406
Light source	6, 12, 18 or 24 LED-HP, 700 mA
Light colour	Warm white, 3000 K Neutral white, 4000 K
Power supply	110-240 V AC / 50-60 Hz
Power consumption	System ~18.3 W, 35 W, 52 W or 69 W (± 10%)
Optic	Combination of collimator and reflector
Materials and finishing	Housing and bracket: die-cast aluminium Optic: anodised reflector; lenses in methacrylate Cover: tempered glass
Colour	Silver grey, approx RAL 9006 (GR) Other RAL colours available on request
Installation	Post top on dedicated mast (to be ordered separately) Mast incorporates two access doors: on top for the gear and on ground level for mains connection Operating temperature: -20°C < T_a < 35°C Recommended system height: 4 m (C2K5), 5 m (C3K5), 6 m (C4K5)

Installation	Windage area of luminaire without mast: 1 module version: 0.062 m^2 2 module version: 0.073 m^2 3 module version: 0.085 m^2 4 module version: 0.095 m^2 Windage area of mast (120 x 120 mm) without luminaire: 120 mm x 3.68 m: 0.44 m^2 120 mm x 4.68 m: 0.56 m^2 120 mm x 5.68 m: 0.68 m^2
Lifetime	50,000 hours (70% lumen maintenance) Thermal management system for long lifetime
Accessories	Square mast
Remarks	CRI: ~80 No light pollution Luminaire fixed under angle of 10° Thermal management system for long lifetime
Main applications	Residential areas

IP66 IK08

CE

Urbanline BPP406 urban lighting luminaire, 1 module version



BPP406 1 MBP-W120

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP406 1-NSO/WW I C2K5 MBP-W120	10.19	959723 00
BPP406 1-NSO/WW I C3K5 MBP-W120	10.32	959730 00
BPP406 1-NSO/WW I C4K5 MBP-W120	10.46	959747 00

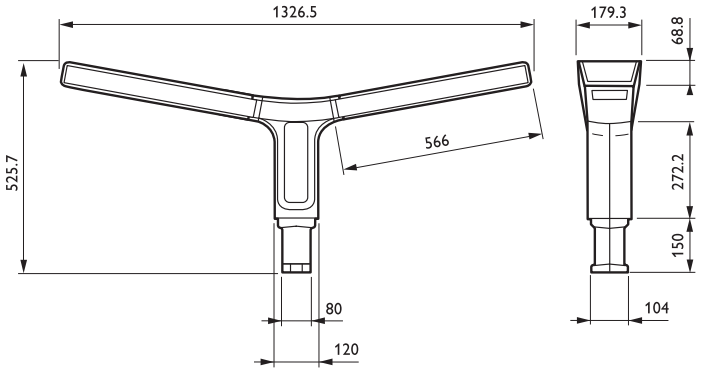
Please contact your local Philips representative for additional configurations

UrbanLine BPP406 urban lighting luminaire, 2 x 3 module version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP406 2-NSO 2-NSO/WW I C2K5 MBP-W120	11.95	959785 00
BPP406 2-NSO 2-NSO/WW I C3K5 MBP-W120	12.08	959792 00
BPP406 2-NSO 2-NSO/WW I C4K5 MBP-W120	12.22	959808 00
BPP406 2-MSO 2-MSO/WW I C2K5 MBP-W120	12.03	959846 00
BPP406 2-MSO 2-MSO/WW I C3K5 MBP-W120	12.16	959853 00
BPP406 2-MSO 2-MSO/WW I C4K5 MBP-W120	12.30	959860 00

Please contact your local Philips representative for additional configurations



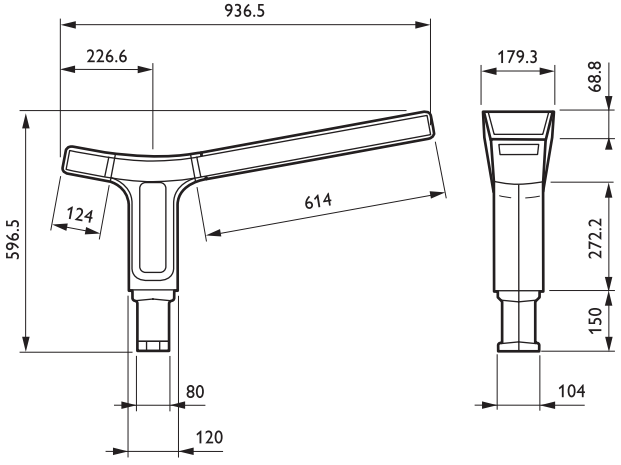
BPP406 2 MBP-W120

Urbanline BPP406 urban lighting luminaire, 3 module version

Preferred selection

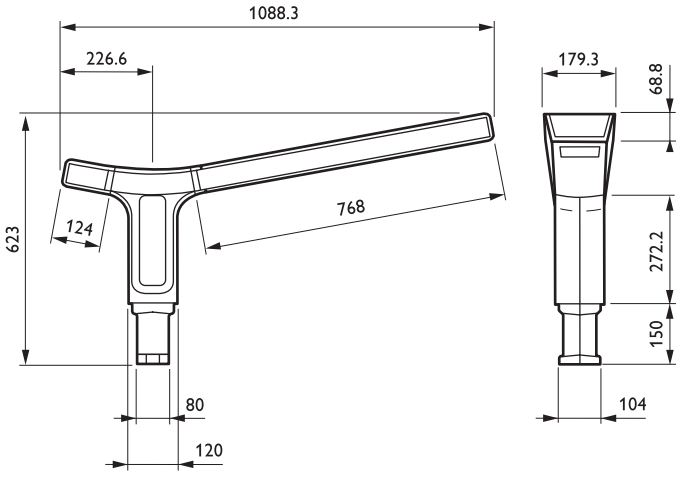
Product ID	Weight (kg)	European Order Code (EOC)
BPP406 3-NSO/WW I C2K5 MBP-W120	13.80	959907 00
BPP406 3-NSO/WW I C3K5 MBP-W120	13.93	959914 00
BPP406 3-NSO/WW I C4K5 MBP-W120	14.07	959921 00
BPP406 3-MSO/WW I C2K5 MBP-W120	13.90	959969 00
BPP406 3-MSO/WW I C3K5 MBP-W120	14.03	959976 00
BPP406 3-MSO/WW I C4K5 MBP-W120	14.17	959983 00

Please contact your local Philips representative for additional configurations



BPP406 3 MBP-W120

Urbanline BPP406 urban lighting luminaire, 4 module version



BPP406 4 MBP-W120

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP406 4-NSO/WW I C2K5 MBP-W120	16.50	960026 00
BPP406 4-NSO/WW I C3K5 MBP-W120	16.63	960033 00
BPP406 4-NSO/WW I C4K5 MBP-W120	16.77	960040 00
BPP406 4-MSO/WW I C2K5 MBP-W120	16.64	960088 00
BPP406 4-MSO/WW I C3K5 MBP-W120	16.77	960095 00
BPP406 4-MSO/WW I C4K5 MBP-W120	16.91	960101 00

Please contact your local Philips representative for additional configurations

	UrbanLine
Type	BPP407
Light source	6 or 12 x SMD LED-HB
Light colour	Warm white 3000 K (WW) Neutral white 4000 K (NW)
Power supply	110-240 V AC / 50-60 Hz
Power consumption	18.3 or 35 W (typical)
Inrush current	20 A/60 µs
Optic	Combination of collimator and reflector
Optical cover	Glass, flat
Options	Lumistep (pre-programmed dimming) 1-10 V input (dimming via external control) Photocell: minicell
Materials and finishing	Housing and bracket: high-pressure, die-cast aluminium, non-corrosive Cover: tempered glass Reflectors: anodised aluminium, brightened 99.99% Collimators: acrylic Gasket: silicone rubber, heat resistant
Colour	Silver grey, approx RAL 9006 (GR) Other RAL colours available on request
Installation	Post top mounting: axial entry, 120 x 120 mm, 100 x 100 mm or Ø 60/76 mm Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 4 to 6 m Standard tilt angle post top: 10° (fixed angle) Adjustable light distribution: 0 positions Windage area of luminaire without mast: 1 module version: 0.070 m^2 2 module version: 0.081 m^2
Lifetime	50,000 hours (70% lumen maintenance)
Remarks	CRI >70 Constant light output
Main applications	Residential areas

IP 65 IK 07

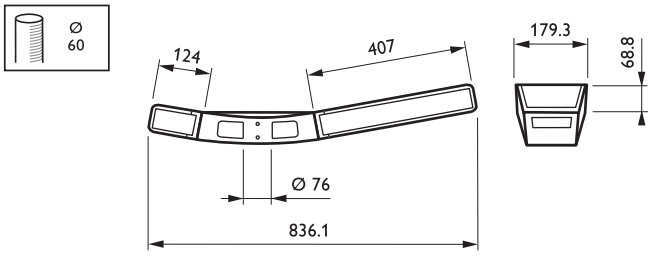
CE

UrbanLine BPP407 urban lighting luminaire, 1 module retrofit solution

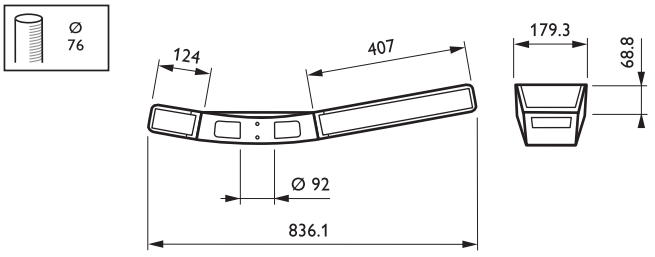
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP407 1-NSO/WW I C700 MBP-D60	8.51	959563 00
BPP407 1-NSO/WW I C700 MBP-D76	8.44	959624 00

Please contact your local Philips representative for additional configurations



BPP407 1 MBP (D60)



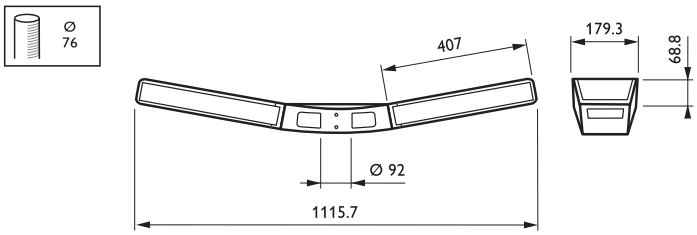
BPP407 1 MBP (D76)

UrbanLine BPP407 urban lighting luminaire, 2x1 module retrofit solution

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP407 1-NSO 1-NSO/WW I C700 MBP-D60	11.63	959686 00
BPP407 1-NSO 1-NSO/WW I C700 MBP-D76	11.55	960149 00

Please contact your local Philips representative for additional configurations



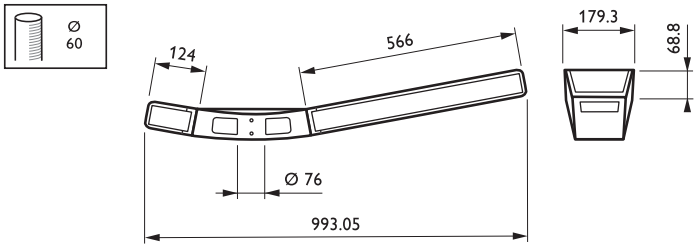
BPP407 2x2 MBP (D60)

UrbanLine BPP407 urban lighting luminaire, 1x2 module retrofit solution

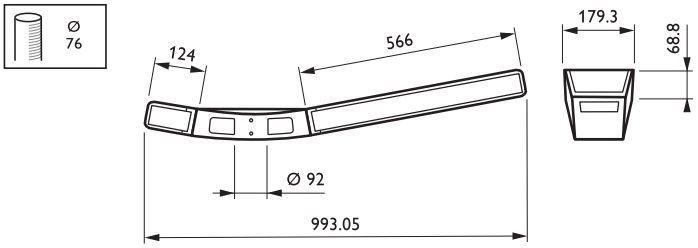
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP407 2-NSO/WW I C700 MBP-D60	10.30	959587 00
BPP407 2-NSO/WW I C700 MBP-D76	10.22	959648 00
BPP407 2-MSO/WW I C700 MBP-D60	10.37	959600 00
BPP407 2-MSO/WW I C700 MBP-D76	10.30	959662 00

Please contact your local Philips representative for additional configurations



BPP407 2 MBP (D60)



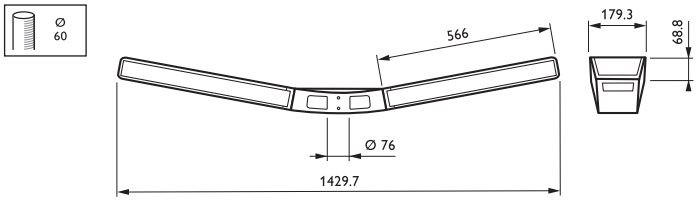
BPP407 2 MBP (D76)

UrbanLine BPP407 urban lighting luminaire, 2x2 module retrofit solution

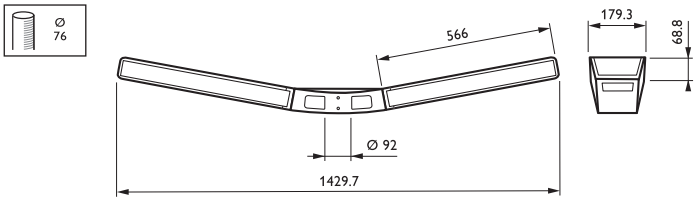
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BPP407 2-NSO 2-NSO/WW I C700 MBP-D60	15.18	959709 00
BPP407 2-NSO 2-NSO/WW I C700 MBP-D76	15.11	960163 00
BPP407 2-NSO 1-NSO/WW I C700 MBP-D60	13.40	960293 00
BPP407 2-NSO 1-NSO/WW I C700 MBP-D76	13.33	960224 00

Please contact your local Philips representative for additional configurations



BPP407 2x2 (D60)



BPP407 2x2 (D76)

Stopera, Waterlooplein
Amsterdam, The Netherlands
Lighting design: Ans van de Broek

Lightcolumn

Lightcolumn – remote beauty

With its innovative, contemporary urban design, Lightcolumn HGP440 is very much the luminaire as 'aesthetic object'. The Lightcolumn features Remote Light Source technology, which distributes light from the base to the top, with different perforated masks creating decorative light patterns on the column. There is a choice of three reflective top units: conical, symmetrical and asymmetrical. This luminaire is ideal for creative applications in relatively large, visually distinctive areas.

www.philips.co.uk/lighting

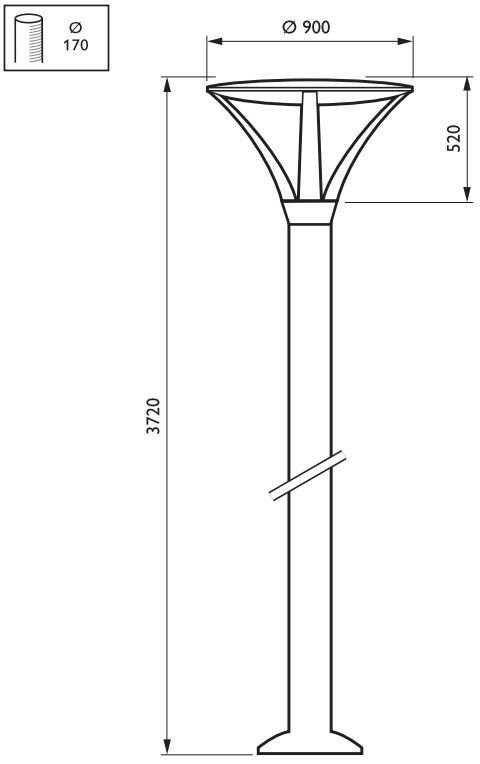
	Lightcolumn
Type	HGP441/442/443 (column extrusions) GGP441/442/443 (column top covers) EGP440 (control gear units)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 70, 150 W 1 x MASTER SDW-T / PG12-1 / 100 W
Lamp included	No
Ignitor	Semi-parallel (SP)
Materials and finishing	Column, top brackets and top cone: die-cast aluminium Reflective disks: glass-fibre-reinforced polyester Light-output lens and light-guidance tube: PMMA Optical light film: PMMA/PC Perforated masks and light-slot cover: steel sheet

Colour	Dark grey RAL colours available on request
Accessories	Extension for embedded foundation, base covers
Main applications	Shopping and pedestrian areas, parks, promenades, squares, business centres

IP 65 IK 10

CE

A complete configuration consists of: Column extrusion (HGP), control gear unit (EGP), reflector disc (GGP), and decorative column base cover (ZGP). To be ordered separately.



HGP441/442/443

Lightcolumn urban lighting luminaire with asymmetric reflector disk (GGP442) and decorative column base cover (ZGP440)

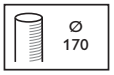
Preferred selection

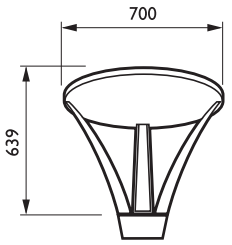
Product ID	Weight (kg)	European Order Code (EOC)
HGP441 GR COLUMN WITH PERF. MASK	38.00	280035 00
HGP442 GR COLUMN WITH 2 PERF. MASKS	38.00	280080 00
HGP443 GR COLUMN WITH 4 LIGHT SLOTS	38.00	280066 00
EGP440 SDW-T100W 230-240V	3.00	279947 00
EGP440 CDM-T70W 230V SP	2.50	280011 00
EGP440 CDM-T150W 230-240V SP	4.00	283364 00

Please contact your local Philips representative for additional configurations

Accessories

Asymmetric reflector disk GGP442

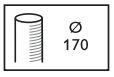


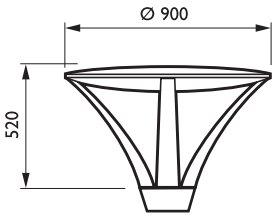


Product ID	EOC
GGP442 GR ASYMMETRIC REFLECTOR DISK	280059 00

GGP442

Symmetric reflector disk GGP441

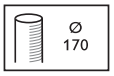


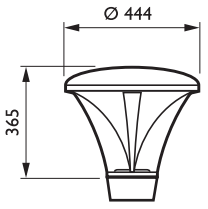


Product ID	EOC
GGP441 GR SYMMETRIC REFLECTOR DISK MKII	228754 00

GGP441

Conical reflector top GGP443





Product ID	EOC
GGP443 GR CONICAL REFLECTOR TOP	280042 00

GGP443

Product ID	Description	EOC
ZGP440 GR DECORATIVE COLUMN BASE COVER	Base cover	279978 00
ZGP441 EXTENSION FOR EMBEDDED FOUNDATION	Extension for embedded foundation	279923 00

Lunel, France

Metronomis

Torino

Bilbao

Malmö

Annecy

Berlin

Metronomis – turning vision into reality

Metronomis is a family of ten highly distinctive luminaires and dedicated supports (masts and brackets), which can be used with a wide variety of optics to provide architects and lighting designers with the total solution needed to create a unified, consistent lighting design that still reflects the differences in urban culture and history. In its daytime appearance, Metronomis integrates harmoniously with any street scene, while its night-time appearance is both functional – guiding people and traffic safely through the city – and decorative, creating a pleasant ambience in city squares and pedestrian precincts.

www.philips.co.uk/lighting

product design award

Cambridge

Bordeaux

Brussels

Porto

Oslo

Metronomis masts, brackets and adapters

One of the main characteristics of the Metronomis range is the total solution that it offers architects and lighting designers. Architectural enhancement can only be fully realised when both the luminaires and their supports are part of an integrated concept. To this end, Metronomis includes a range of dedicated masts and brackets which are consistent with the visual style of the luminaires.

There are five different designs of masts available in steel, aluminium, and wood, from 3.5 to 12m. Steel and aluminium masts can be painted standard Philips ultra dark grey, with other colours and finishes upon request. Wooden masts are floated-oak-coated. Other wood-shades are available upon request.

The Fuzo mast, with its fluid shape, integrates perfectly in the urban landscape. The mast has been designed by AREP and offers a slightly curved profile. In addition to that, the blend of wood and steel gives this urban furniture a modern and stylish look.

Metronomis Torino on Fuzo wooden mast – enhancing public spaces
The simple, elegant outline of the Torino integrates harmoniously with most modern urban environments. The housing has been kept as small as possible, and the transition from luminaire to mast is smooth. After sunset, the Torino offers excellent lighting performance. Depending on the combination of light source and optical element chosen, the Torino can create a variety of atmospheric and spatial lighting effects.

Metronomis Berlin on Fuzo wooden mast – the old and the new
The Berlin combines a traditional outline with contemporary styling. Referring to ancient gas lanterns, it has been designed primarily for urban areas that embrace history without copying the past.

Metronomis Cambridge on Fuzo wooden mast – urban archetype
The Cambridge can be seen as a contemporary version of the classic street lantern. Special attention has been devoted to the lighting effects required to enhance the ambience of historical areas.

Metronomis Malmö on Metronomis aluminium mast – atmospheric lighting
The Malmö combines direct lighting with a gently reflected light effect through the use of a reflective disc. With its transparent design, the Malmö creates the impression of a virtual ceiling in public places. Because of the subtle support, the reflector seems to float around the light source. This effect becomes even more prominent after dark.

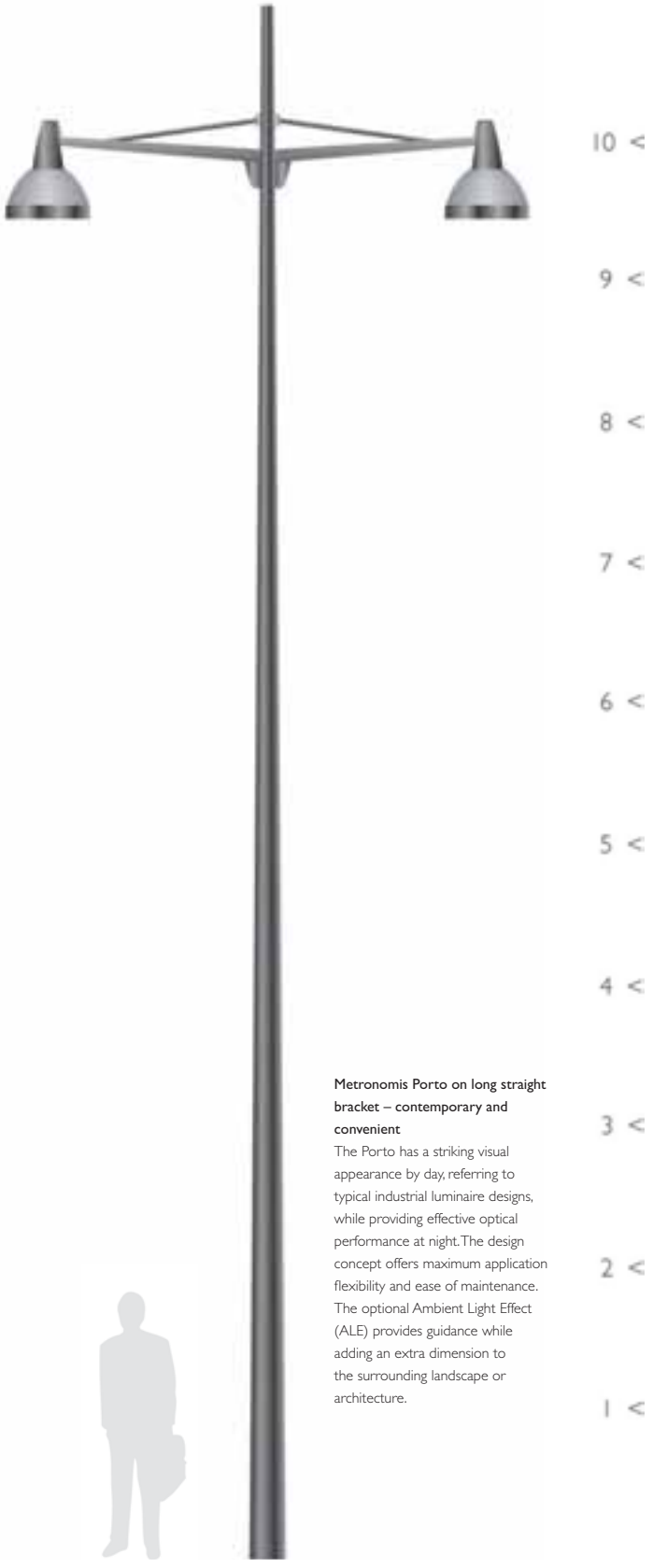
The Metro mast has a soft transition between the base and the pole, making it fit for post-top installation. When combined with brackets, it becomes an integrated solution for urban environments.

The cylindrico-conical mast, simple and elegant, discreetly blends in with the architecture itself.

The Step mast, made from steel segments of different diameters, gives a visual rhythm to streets.

The Curve mast, intended for the Metronomis 2 range of luminaires, turns street lighting into an architectural feature.

Metronomis brackets are available in Straight and Curved design, in two different lengths.



Metronomis Porto on long straight bracket – contemporary and convenient
The Porto has a striking visual appearance by day, referring to typical industrial luminaire designs, while providing effective optical performance at night. The design concept offers maximum application flexibility and ease of maintenance. The optional Ambient Light Effect (ALE) provides guidance while adding an extra dimension to the surrounding landscape or architecture.

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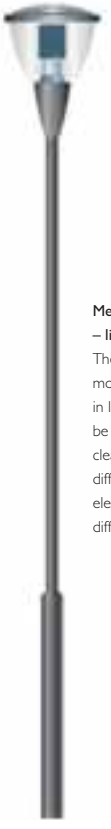
Combination of Metronomis Bordeaux on long curved bracket and Torino with short curved bracket on a Metronomis aluminium mast, thus creating harmony.
The Bordeaux – available with 0, 2 or 4 arms – offers tremendous flexibility, both in installation and in light distribution and effect. Used in conjunction with a choice of dedicated supports, including a catenary adapter, this luminaire is extremely versatile. Because a variety of lighting applications are possible within a single design concept, the Bordeaux can function as a harmonising element within the cityscape.

Metronomis Bilbao on a cylindro-conical mast – emphasising visual direction
The Bilbao has been specially designed for areas where a directional light distribution is desirable. In post-top applications, or mounted on one of the specially designed brackets, the light is shielded on one side to prevent glare in a certain direction or to distinguish between areas with different functions.



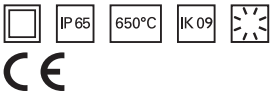
Metronomis Annecy on a step mast – light for living spaces
The Annecy is ideally suited to modern residential areas. Variation in lighting effect and design can be achieved through the use of a clear, opal or painted cover. By using different light sources and optical elements, it is possible to create different accents and atmospheres.

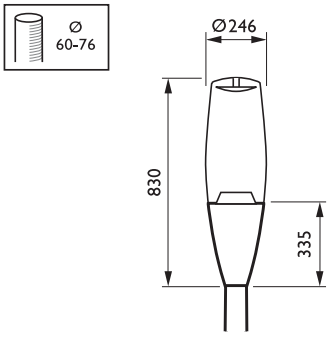
Combination of Metronomis Brussels on long and short curved brackets – functional and aesthetic
The Brussels luminaire is designed to fulfil rational lighting requirements without compromising on aesthetic appeal. The product concept includes sophisticated reflectors for directional light distribution. Preventing light output to the upper hemisphere, the Brussels luminaire offers an effective solution in cases where light pollution needs to be reduced.

Metronomis Oslo on Metronomis Curve mast – visual appeal
The Oslo has a distinctive and innovative design. The Ambient Light Effect (ALE) generates soft lighting effects thanks to the use of an opal bowl in combination with characteristic reflective screens. The Oslo's indirect lighting fosters the perception of a virtual ceiling.

	Metronomis Torino
Type	CDS530/531 (suspended version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V, 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF)
Optical cover	Transparent bowl (TB) Opal bowl (OB)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Bowls: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 / 76 mm Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Catenary mounting with catenary adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm Catenary adapter (Catenary adapter requires dedicated CDS531 version)
Remarks	Compatible with various Metronomis brackets
Main applications	Urban and architectural areas, commercial and business centres





CDS530

Metronomis Torino CDS530 urban lighting luminaire with louvre (LO) and clear bowl (TB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS530 SON70W K 240V II LO TB GR ST	6.45	676227 00
CDS530 SON100W K 240V II LO TB GR ST	6.45	676234 00
CDS530 SON150W K 240V II LO TB GR ST	7.10	676241 00
CDS530 CDO-TT70W K 240V II LO TB GR ST	6.45	676258 00
CDS530 CDO-TT100W K 240V II LO TB GR ST	6.45	676265 00
CDS530 CDO-TT150W K 240V II LO TB GR ST	7.10	676272 00

Please contact your local Philips representative for additional configurations

Neue Messe, Dresden, Germany

	Metronomis Bilbao
Type	CDS540/541 (suspended version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF)
Optical cover	Transparent bowl and cover (TB) Opal bowl and cover (OB)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Shield fixation brackets: die-cast aluminium Bowls: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Vertical reflective shield: acrylonitril-styrene-acrylate Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 / 76 mm Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Catenary mounting with catenary adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm Catenary adapter (Catenary adapter requires dedicated CDS541 version)
Remarks	Compatible with various Metronomis brackets
Main applications	Urban and architectural areas, commercial and business centres

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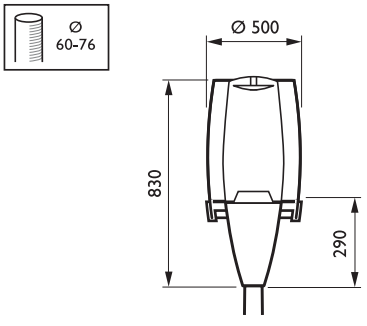

CDS540

Metronomis Bilbao CDS540 urban lighting luminaire with diffuser (DF) and clear bowl (TB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS540 SON70W K 240V II DF TB GR ST	8.17	676289 00
CDS540 SON100W K 240V II DF TB GR ST	8.17	676296 00
CDS540 SON150W K 240V II DF TB GR ST	8.82	676302 00
CDS540 CDO-TT70W K 240V II DF TB GR ST	8.17	676319 00
CDS540 CDO-TT100W K 240V II DF TB GR ST	8.17	676326 00
CDS540 CDO-TT150W K 240V II DF TB GR ST	8.82	676333 00

Please contact your local Philips representative for additional configurations

Guggenheim, Bilbao, Spain

	Metronomis Malmö
Type	CDS550
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF)
Optical cover	Transparent bowl and cover (TB) Opal bowl and cover (OB)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Disc-support fixation brackets: die-cast aluminium Disc-support rods: extruded aluminium Bowls: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Horizontal reflective disc: acrylonitril-butadienestyrene Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 / 76 mm Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm
Remarks	Compatible with various Metronomis brackets
Main applications	Urban and architectural areas, commercial and business centres

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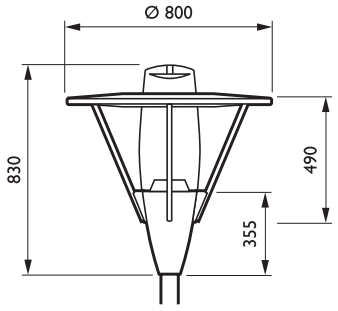
Ø 60-76



CDS550

Metronomis Malmö CDS550 urban lighting luminaire with prismatic refractor (PR) and clear bowl (TB)

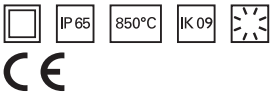
Preferred selection

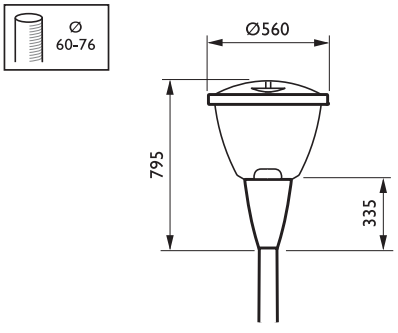
Product ID	Weight (kg)	European Order Code (EOC)
CDS550 SON70W K 240V II PR TB GR ST	10.98	676340 00
CDS550 SON100W K 240V II PR TB GR ST	10.98	676357 00
CDS550 SON150W K 240V II PR TB GR ST	11.63	676364 00
CDS550 CDO-TT70W K 240V II PR TB GR ST	10.98	676371 00
CDS550 CDO-TT100W K 240V II PR TB GR ST	10.98	676388 00
CDS550 CDO-TT150W K 240V II PR TB GR ST	11.63	676395 00

Please contact your local Philips representative for additional configurations

Parc de Mulder, Berghem, Belgium

	Metronomis Annecy
Type	CDS560
Light source	HID: 1 x MASTER CosmoWhite CPO-TT / PGZ12 /45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF) Rotationally symmetrical reflector (S) Road lighting reflector, asymmetrical (A) Indirect (IO)**
Optical cover	Transparent bowl and cover (TT) Transparent bowl and opal cover (TO) Transparent bowl and painted cover (TP) Opal bowl and cover (OO) Opal bowl and painted cover (OP)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Bowls and bowl covers: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Reflector assemblies: aluminium Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Post top mounting: axial entry Ø60 / 76 mm Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm
Remarks	Compatible with various Metronomis brackets **Dedicated indirect optic (IO) preventing light nuisance (E2 classification according to CIE 126-1997)
Main applications	Urban and architectural areas, commercial and business centres





CDS560

Metronomis Annecy CDS560 urban lighting luminaire with indirect optic (IO), clear bowl and painted cover (TP)

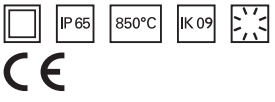
Preferred selection

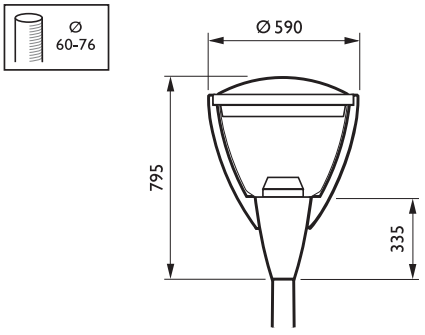
Product ID	Weight (kg)	European Order Code (EOC)
CDS560 SON70W K 240V II LO TP GR ST	10.45	676401 00
CDS560 SON100W K 240V II LO TP GR ST	10.45	676418 00
CDS560 SON150W K 240V II LO TP GR ST	11.10	676425 00
CDS560 CDO-TT70W K 240V II LO TP GR ST	10.45	676432 00
CDS560 CDO-TT100W K 240V II LO TP GR ST	10.45	676449 00
CDS560 CDO-TT150W K 240V II LO TP GR ST	11.10	676456 00

Please contact your local Philips representative for additional configurations

The Hague, The Netherlands

	Metronomis Berlin
Type	CDS570
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF) Rotationally symmetrical reflector (S) Road lighting reflector, asymmetrical (A) Indirect (IO)**
Optical cover	Transparent bowl and cover (TT) Transparent bowl and opal cover (TO) Transparent bowl and painted cover (TP) Opal bowl and cover (OO) Opal bowl and painted cover (OP)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Decorative arms: die-cast aluminium Bowls and bowl covers: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Reflector assemblies: aluminium Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 / 76 mm Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm
Remarks	Compatible with various Metronomis brackets **Dedicated indirect optic (IO) preventing light nuisance (E2 classification according to CIE 126-1997)
Main applications	Urban and architectural areas, commercial and business centres





CDS570

Metronomis Berlin CDS570 urban lighting luminaire with road lighting reflector (A), clear bowl and painted cover (TP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS570 SON70W K 240V II A TP GR ST	11.15	676463 00
CDS570 SON100W K 240V II A TP GR ST	11.15	676470 00
CDS570 SON150W K 240V II A TP GR ST	11.80	676487 00
CDS570 CDO-TT70W K 240V II A TP GR ST	11.15	676494 00
CDS570 CDO-TT100W K 240V II A TP GR ST	11.15	676500 00
CDS570 CDO-TT150W K 240V II A TP GR ST	11.80	676517 00

Please contact your local Philips representative for additional configurations

Avenue Rhin et Danube, Les sables d'Ólonne, France

	Metronomis Cambridge
Type	CDS580
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF) Rotationally symmetrical reflector (S) Road lighting reflector, asymmetrical (A) Indirect (IO)**
Optical cover	Transparent bowl and cover (TT) Transparent bowl and opal cover (TO) Transparent bowl and painted cover (TP) Opal bowl and cover (OO) Opal bowl and painted cover (OP)

Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Decorative arms: die-cast aluminium Bowls and bowl covers: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Reflector assemblies: aluminium Adapters: die-cast aluminium
Colour	Grey (GR) RAL colours available on request
Installation	Post-top mounting: axial entry Ø 60 / 76 mm Side-entry mounting: lateral entry Ø 42 - 60 mm with side-entry adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm, ZRP551
Remarks	Compatible with various Metronomis brackets **Dedicated indirect optic (IO) preventing light nuisance (E2 classification according to CIE 126-1997)
Main applications	Urban and architectural areas, commercial and business centres

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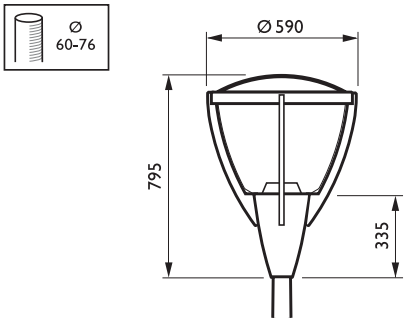

CDS580

Metronomis Cambridge CDS580 urban lighting luminaire with prismatic refractor (PR)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS580 SON70W K 240V II PR TP GR ST	11.88	676524 00
CDS580 SON100W K 240V II PR TP GR ST	10.28	676531 00
CDS580 SON150W K 240V II PR TP GR ST	12.53	676548 00
CDS580 CDO-TT70W K 240V II PR TP GR ST	10.28	676555 00
CDS580 CDO-TT100W K 240V II PR TP GR ST	11.88	676562 00
CDS580 CDO-TT150W K 240V II PR TP GR ST	10.93	676579 00

Please contact your local Philips representative for additional configurations

Rue Albert 1er, Rixensart, Belgium

	Metronomis Bordeaux
Type	CDS592/594
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER Colour CDM-T / G12 / 35, 70,150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage Induction lamp system: MASTER QL system / 55 W
Lamp included	Yes (K or lamp colour 628, 728, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Louvre (LO) Refractor, prismatic (PR) Diffuser (DF) Rotationally symmetrical reflector (S) Road lighting reflector, asymmetrical (A)
Optical cover	Transparent bowl and cover (TT) Opal bowl and transparent cover (OT) Transparent bowl and opal cover (TO) Opal bowl and cover (OO)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Filter coil (F)
Materials and finishing	Housing: high-pressure, die-cast aluminium Decorative arms: die-cast aluminium Bowls and bowl covers: polycarbonate Refractor and diffuser: polymethylmethacrylic-imide Louvres: high-pressure, die-cast aluminium Reflector assemblies: aluminium Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Catenary mounting with catenary adapter Recommended mounting height: 4 - 6 m
Accessories	Adapter for side entry, Ø 42 - 60 mm Catenary adapter
Remarks	Compatible with various Metronomis brackets
Main applications	Urban and architectural areas, commercial and business centres

IP 65 850°C IK 09

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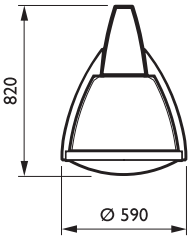


CDS592

Metronomis Bordeaux CDS592 urban lighting luminaire with clear bowl and clear cover (TT)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS592 SON70W K 240V II S TT GR ST	11.10	676586 00
CDS592 SON100W K 240V II S TT GR ST	11.10	676593 00
CDS592 SON150W K 240V II S TT GR ST	11.75	676609 00
CDS592 CDO-TT70W K 240V II S TT GR ST	11.10	676616 00
CDS592 CDO-TT100W K 240V II S TT GR ST	11.10	676623 00
CDS592 CDO-TT150W K 240V II S TT GR ST	11.75	676630 00

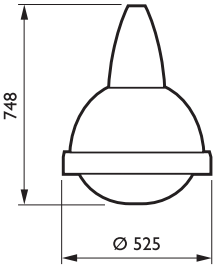
Please contact your local Philips representative for additional configurations

Nieuwe Kaai, Turnhout, Belgium

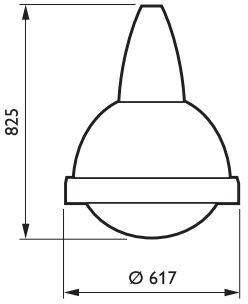
	Metronomis Brussels
Type	CDS501 (small version) CDS502 (large version)
Light source	CDS501 HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x SON / E27 / 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 70 W 1 x SON-T / E40 / 100, 150 W 1 x MASTERColour CDM-TP / PG12-2 / 70 W 1 x MASTERColour CDM-TP / PGX12-2 / 150 W Induction lamp system 1 x MASTER QL system / 85 W CDS502 HID: 1 x MASTER CityWhite CDO-ET / E40 / 150 W 1 x MASTER CityWhite CDO-TT / E40 / 150 W 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x SON / E40 / 150, 250, 400 W 1 x SON-T / E40 / 150, 250, 400 W
Lamp included	Yes (K or lamp colour 628, 728, 827, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Road lighting reflector, asymmetrical (A) Rotationally symmetrical reflector (S)
Optical cover	Polycarbonate bowl (PC) Flat glass (FG)

Ignitor	Series (SI) Semi-parallel (SP) Series, self-stopping (SS) Semi-parallel, self-stopping (ST)
Options (in CDS501 version only)	Lighting controls: Chronosense (CH) Light regulation: dimming switch (SW)
Materials and finishing	Housing: high-pressure, die-cast aluminium Optical compartment: polycarbonate, liquid-coated Optical covers: polycarbonate, clear (PC) or tempered soda-lime glass (FG) Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo and RAL colours available on request
Installation	Suspended mounting on column with dedicated Metronomis brackets Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Catenary mounting with catenary adapter Wall mounting with wall mounting bracket Recommended mounting height: 3.5 - 10 m Tilt angle: max 15°, if mounted on dedicated Metronomis bracket
Accessories	Adapter for side entry, Ø 42 - 60 mm Catenary adapter Wall mounting bracket
Remarks	Compatible with various Metronomis brackets Choice of integrated or separate control gear unit (400 W version only separate)
Main applications	Urban and architectural areas, commercial and business centres

IP66 650°C 850°C IK05



CDS501 PC



CDS502 PC

Metronomis Brussels CDS501/502 urban lighting luminaire with polycarbonate bowl (PC)

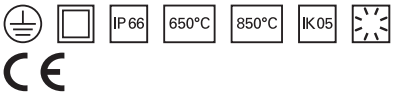
Preferred selection

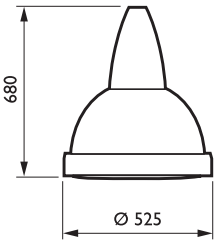
Product ID	Weight (kg)	European Order Code (EOC)
CDS501 SON-T70W K 240V II A PC GR ST	11.45	676647 00
CDS501 SON-T100W K 240V II A PC GR ST	11.25	676654 00
CDS502 SON-T150W K 240V II A PC GR ST	11.20	676661 00
CDS502 SON-T250W K 240V II A PC GR ST	14.80	676678 00
CDS501 CDO-TT70W K 240V II A PC GR ST	11.45	676685 00
CDS501 CDO-TT100W K 240V II A PC GR ST	11.45	676692 00
CDS502 CDO-TT150W K 240V II A PC GR ST	13.80	676708 00

Please contact your local Philips representative for additional configurations

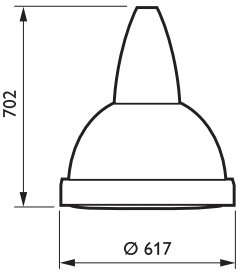
Krimweg, Coevoorden, The Netherlands

	Metronomis Porto
Type	CDS503 (small version) CDS504 (large version)
Light source	CDS503 HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x SON / E27 / 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 70 W 1 x SON-T / E40 / 100, 150 W 1 x MASTERColour CDM-TP / PG12-2 / 70 W 1 x MASTERColour CDM-TP / PGX12-2 / 150 W Induction lamp system 1 x MASTER QL system / 85 W CDS504 HID: 1 x MASTER CityWhite CDO-ET / E40 / 150 W 1 x MASTER CityWhite CDO-TT / E40 / 150 W 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x SON / E40 / 150, 250, 400 W 1 x SON-T / E40 / 150, 250, 400 W
Lamp included	Yes (K or lamp colour 628, 728, 827, 830, 840) No
Gear	Electro magnetic (low loss), 240 V, 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Road lighting reflector, asymmetrical (A) Road lighting reflector, asymmetrical with ALE function (AE) Rotationally symmetrical reflector (S) Rotationally symmetrical reflector with ALE function (SE)
Optical cover	Polycarbonate bowl (PC) Flat glass (FG)
Ignitor	Series (SI) Semi-parallel (SP) Series, self-stopping (SS) Semi-parallel, self-stopping (ST)
Options (in CDS503 version only)	Lighting controls: Chronosense (CH) Light regulation: dimming switch (SW)
Materials and finishing	Housing: high-pressure, die-cast aluminium Optical compartment: polycarbonate, prismatic Optical covers: polycarbonate, clear (PC) or tempered soda-lime glass (FG) Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Suspended mounting on column with dedicated Metronomis brackets Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Catenary mounting with catenary adapter Wall mounting with wall mounting bracket Recommended mounting height: 3.5 - 10 m Tilt angle: max 15°, if mounted on dedicated Metronomis bracket
Accessories	Adapter for side entry, Ø 42 - 60 mm Catenary adapter Wall mounting bracket
Remarks	Compatible with various Metronomis brackets Choice of integrated or separate control gear unit (400 W version only separate)
Main applications	Urban and architectural areas, commercial and business centres





CDS503 FG



CDS504 FG

Metronomis CDS503/504 urban lighting luminaire with flat glass cover (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS503 SON-T70W K 240V II AE FG GR ST	13.06	676715 00
CDS503 SON-T100W K 240V II AE FG GR ST	12.86	676722 00
CDS504 SON-T150W K 240V II AE FG GR ST	13.20	676739 00
CDS504 SON-T250W K 240V II AE FG GR ST	16.80	676746 00
CDS503 CDO-TT70W K 240V II AE FG GR ST	13.06	676753 00
CDS503 CDO-TT100W K 240V II AE FG GR ST	13.06	676760 00
CDS504 CDO-TT150W K 240V II AE FG GR ST	15.80	676777 00

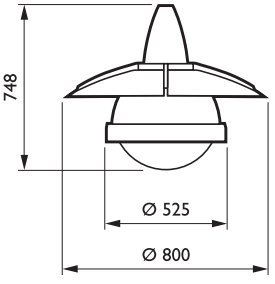
Please contact your local Philips representative for additional configurations

Brussels, Belgium

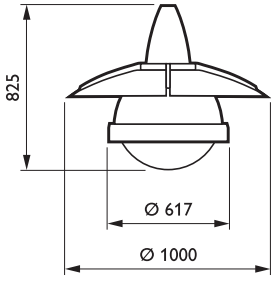
	Metronomis Oslo
Type	CDS505 (small version) CDS506 (large version)
Light source	CDS505 HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x SON / E27 / 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 70 W 1 x SON-T / E40 / 100, 150 W 1 x MASTERColour CDM-TP / PG12-2 / 70 W 1 x MASTERColour CDM-TP / PGX12-2 / 150 W Induction lamp system 1 x MASTER QL system / 85 W CDS506 HID: 1 x MASTER CityWhite CDO-TT / E40 / 150 W 1 x MASTER CityWhite CDO-ET / E40 / 150 W 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x SON / E40 / 150, 250, 400 W 1 x SON-T / E40 / 150, 250, 400 W
Lamp included	Yes (K or lamp colour 628, 728, 827, 830, 840) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic (elements)	Road lighting reflector, asymmetrical (A) Rotationally symmetrical reflector (S)
Optical cover	Polycarbonate bowl (PC) Flat glass (FG)

Ignitor	Series (SI) Semi-parallel (SP) Series, self-stopping (SS) Semi-parallel, self-stopping (ST) Options (in CDS505 version only) Lighting controls: Chronosense (CH) Light regulation: dimming switch (SW)
Materials and finishing	Housing: high-pressure, die-cast aluminium Optical compartment: polycarbonate, opal Optical covers: polycarbonate, clear (PC) or tempered soda-lime glass (FG) Dome-support bracket: chill-moulded aluminium Dome: laminated ABS/PMMA, reflective Adapters: die-cast aluminium
Colour	Dark grey (GR) Akzo or RAL colours available on request
Installation	Suspended mounting on column with dedicated Metronomis brackets Side entry mounting: lateral entry Ø 42 - 60 mm with side entry adapter Catenary mounting with catenary adapter Wall mounting with wall mounting bracket Recommended mounting height: 3.5 - 10 m Tilt angle: max 15°, if mounted on dedicated Metronomis bracket
Accessories	Adapter for side entry, Ø 42 - 60 mm Catenary adapter Wall mounting bracket
Remarks	Compatible with various Metronomis brackets Choice of integrated or separate control gear unit (400 W version only separate)
Main applications	Urban and architectural areas, commercial and business centres

IP66 IK05



CDS505 PC



CDS506 PC

Metronomis Oslo CDS505/506 urban lighting luminaire with polycarbonate bowl (PC)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS505 SON-T70W K 240V II AE PC GR ST	13.80	676784 00
CDS505 SON-T100W K 240V II AE PC GR ST	13.60	676791 00
CDS506 SON-T150W K 240V II AE PC GR ST	14.70	676807 00
CDS506 SON-T250W K 240V II AE PC GR ST	18.30	676814 00
CDS505 CDO-TT70W K 240V II AE PC GR ST	13.80	676821 00
CDS505 CDO-TT100W K 240V II AE PC GR ST	13.80	676838 00
CDS506 CDO-TT150W K 240V II AE PC GR ST	17.30	676845 00

Please contact your local Philips representative for additional configurations

Tirso de Molina Square, Madrid, Spain.

CitySpirit

CitySpirit – streetwise

CitySpirit is a range of street lighting luminaires designed to provide excellent, environmentally friendly lighting without compromising on architectural appearance. The distinctive designs are clearly linked yet allow modularity.

To ensure perfect integration in the urban streetscape, the luminaire, mast and bracket of CitySpirit have been developed as one design. The range provides elegant and above all complete project solutions. Furthermore, transparent materials have been used to lighten the daytime appearance.

CitySpirit incorporates several optical concepts, which address issues such as spacing, night preservation, visual comfort and light trespass.

All CitySpirit indirect versions are retrofit luminaires, which can be equipped with conventional or LED light sources. In combination with different optical reflectors they deliver indirect high-quality warm white light. CitySpirit indirect LED has an upgradeable LED light engine, which ensures future-proof performance. Together with its constant light output and dimming functionality, the LED version ensures the highest operational efficiency.

The range further comprises Cone, Torch, Modern Lantern, Classic Lantern, Street, Street Colour, Wall mounted and Bollard models.

www.philips.co.uk/lighting

product design award

asimpleswitch.com

Clean lines
This range has been designed with the aim of creating unobtrusive luminaires. The use of transparent materials combined with aluminium components creates clean lines throughout the range.

Application driven
Because every application deserves to be illuminated adequately, we have created several new optical concepts which address issues like spacing, night preservation, comfort and light trespass and are suitable for any application.

The language of light
Urban lighting should complement the architecture, so we have endeavoured to create a family of distinctive designs that are clearly linked yet allow unique modularity.

Torch | Classic Lantern | Modern Lantern | Cone | Street

Light Trespass

Sometimes citizens find even the best lighting installation obtrusive. For such cases we have developed the Light Trespass accessory, one for each luminaire and one for every optic.

The Light Trespass can be fitted freely inside the luminaire after it has been installed, preserving the look of the luminaire and reducing the light level on facades by up to 50 %, thus giving rise to lighting levels below 25 lux.

Wall mounted

In smaller streets it is not always possible to use masts. Wall mounting is then preferred, but for this the luminaire must have a top cover of a smaller diameter. Combined with the Light Trespass accessory and the many optical systems, this version will help improve the street scene.

Street Colour

Bollard

In green areas or at the entrance to a building, bollards can add the finishing touch to an installation whilst also providing guidance. Incorporating the same optical system as the rest of the range, including the Light Trespass, this bollard completes the family.

CitySpirit masts and brackets

Safety has traditionally been the primary concern of city lighting, but today the aesthetics of the lighting solution are equally important. To ensure perfect integration in the urban architecture, the luminaire, mast and bracket of CitySpirit have been developed as one design. The range provides elegant and above all complete solutions for your project. For example, the Taper mast lightens the daytime appearance, in line with the transparent look of a Cone luminaire. A dedicated wall mounted bracket ensures a clean installation of the Torch in smaller streets. And the twin mast allows a double installation of the Street luminaire.

CitySpirit Cone on Taper mast
A reverse conical column lightens the daytime appearance, in line with the transparent look of the range. Its modern shape is well fitted for city centres and residential streets. Best fitted with Torch, Lantern, Cone luminaire.

CitySpirit Cone on single bracket
The CitySpirit bracket is slightly angled to create a dynamic effect.
It is available in a simple (as presented here) or balanced version, where an extra length at the bottom emphasises the flagship appearance.
Suited to boulevard and residential zones.

CitySpirit Classic lantern on double bracket with decorative element
Designed for twin installation, the CitySpirit bracket is slightly angled to create a dynamic effect. It is available in a simple (as presented here) or balanced version, where an extra length at the bottom emphasises the flagship appearance. Suited to boulevard and residential zones.

6 <
5 <
4 <
3 <
2 <
1 <

Wall mounted bracket balanced version

Wall mounted bracket simple version

CitySpirit wall mounted bracket with or without decorative element

Based on the CitySpirit bracket, the wall-mounted accessory is suited to small streets, with the wall-mounted luminaire and its reduced top hat. It is available in a simple or balanced version, where an extra length at the bottom emphasises the flagship appearance.

CitySpirit on Tilt mast

Seemingly defying gravity, the Tilt mast for the Street luminaire is angled to create a tree-like dynamic effect. It is suited to city centres, commercial streets and roundabouts. The Twin version allows for a balanced visual appearance in the middle of the street.

Optical elements

Direct louvre

This polished aluminium louvre has been developed with comfort in mind, avoiding a direct view of the light source. Ovoid lamps are preferred since they reduce possible glare at low viewing angles.
Total Light Output Ratio > 35 %
Upward Light Ratio < 15 %

Available for:

Reflector direct/indirect

The direct/indirect aluminium louvre allows part of the light to be emitted upwards, onto the cover of the luminaire. This creates the night-time appearance of the luminaire and softens the lighting pattern.
Ovoid lamps are preferred since they reduce possible glare at low viewing angles.
Total Light Output Ratio > 45 %
Upward Light Ratio < 5 %

Available for:

Diffuser

The PMMA diffuser emits a soft light in every direction, thus creating ambience.
Total Light Output Ratio > 65 %
Upward Light Ratio < 15 %

Available for:

Prismatic

The PMMA prismatic optic is a sophisticated and efficient refractor that creates a sparkling effect with very good spacing.
Total Light Output Ratio > 70 %
Upward Light Ratio < 10 %

Available for:

Indirect standard

The indirect system is based primarily on an aluminium parabolic reflector that controls light and hides the lamp from direct view. By using a basic white disc in the top cover of the luminaire a new lighting ambience is created, like the effect of a candle.
Total Light Output Ratio > 50 %
Upward Light Ratio < 10 %

Available for:

Indirect symmetric

Rotationally symmetric distribution can be obtained and spacing can be much improved with a high-performance 3D curved aluminium top reflector.
Total Light Output Ratio > 55 %
Upward Light Ratio < 5 %

Available for:

Indirect bi-directional

Complex aluminium shapes used as the top reflector can create unique light distribution. The bi-directional top reflector projects the light on both sides, thus optimising spacing.
Total Light Output Ratio > 50 %
Upward Light Ratio < 5 %

Available for:

Indirect asymmetric

The asymmetric aluminium top reflector projects the light to the front, delivering ideal performance for wider streets.
Total Light Output Ratio > 55 %
Upward Light Ratio < 10 %

Available for:

Road reflector

Our famous CT-POT reflector is ideal for many applications, especially streets with traffic. It is suitable for use with all compact burner lamps, providing excellent spacing. This solution is used only in the Street version.
Total Light Output Ratio > 65 %
Upward Light Ratio < 0 %

Available for:

CitySpirit LED – setting street image with LED solutions

The modularity of the existing CitySpirit series and the latest LED developments have been united in the new CitySpirit luminaires. This means that six of the eight designs are also available in an LED version, so that lighting solutions that are even more energy-efficient can be realised whilst retaining image and functionality.

Almost all typical applications can be realised with these, including options such as dimming and Constant Light Output (CLO). The long service life of the LED module and its simple modular replacement make this design highly 'future proof' thanks to even more energy saving options with improved LEDs. Various indirect reflection optics disseminate the standard warm white or cool white light in the applicable manner.

www.philips.co.uk/lighting

BDS450

BDS460

BDS462

BDS470

BWS464

BGP450, BGP451

Eindhoven, The Netherlands

	CitySpirit Torch Indirect LED version
Type	BDS450
Light source	22 x SMD LED-HP
Light colour	Warm white 3,000 K (WW) Neutral white 4,000 K (NW)
Power consumption	System 30 W (typical)
Inrush current	20 A / 40 µs
Driver	220-240 V / 50-60 Hz
Optical element	Top reflector, indirect (T-IO) Top reflector, indirect asymmetrical (TA-IO) Top reflector, indirect bi-directional (TB-IO LED) Top reflector, indirect symmetrical (TS-IO)
Optical cover	Transparent bowl/cover (TB)
Controls	Compatible with full line of Philips 1-10 V controllers
Options	Lumistep (pre-programmed dimming) 1-10 V input (dimming via external control) Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)

Material	Housing: high-pressure, die-cast aluminium, non-corrosive Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, translucent UV-stabilised Top cover: ABS with heat shield Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: ultra dark grey, approx RAL7043 (GR) Other RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 (60P) or 76 mm (76P) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 3.5 - 5 m
Lifetime	50,000 hours (70% lumen maintenance)
Remarks	CRI 80 Constant Light Output
Main applications	Urban, residential and pedestrian areas, promenades

IP 65 IK 09

CE

CitySpirit Torch BDS450 urban lighting luminaire LED version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BDS450 XR-E/WW ITB-LED GR 60P	7.00	295429 00

Please contact your local Philips representative for additional configurations

Accessories

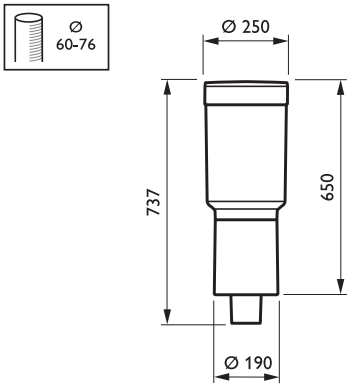
CitySpirit Torch CDS450 urban lighting luminaire with indirect optic and GDS460 light trespass

Product ID	EOC
GDS460 LT	727066 00

	CitySpirit Torch
Type	CDS450
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I) Refractor, prismatic (PR) Diffuser (DF) Top reflector, indirect (T IO) Top reflector, indirect asymmetrical (TA IO) Top reflector, indirect bi-directional (TB IO) Top reflector, indirect symmetrical (TS IO)

Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: die-cast aluminium Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, UV-stabilised Top cover: ABS with heat shield
Colour	Housing: silver grey (GR) Pole mount: dark grey
Installation	Post top mounting: axial entry Ø 60/76 mm (60P/76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS460 LO
Main applications	Urban, residential and pedestrian areas, promenades

IP65 IK09



CDS450

CitySpirit Torch CDS450 urban lighting luminaire with louvre (LO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS450 CPO-TW60W K EB I LO GR 60P	7.00	725871 00
CDS450 CPO-TW60W K EB I LO GR P3 60P	7.00	725888 00
CDS450 CPO-TW90W K EB I LO GR 60P	7.10	725895 00
CDS450 CPO-TW90W K EB I LO GR P3 60P	7.10	725901 00
CDS450 CPO-TW140W K EB I LO GR 60P	7.00	725918 00
CDS450 CPO-TW140W K EB I LO GR P3 60P	7.00	725925 00
CDS450 SON-T70W K EB I LO GR 60P	6.91	725932 00
CDS450 SON-T70W K EB I LO GR P3 60P	6.91	725949 00
CDS450 SON-T100W K EB I LO GR 60P	7.25	725956 00
CDS450 SON-T100W K EB I LO GR P3 60P	7.25	725963 00
CDS450 SON-T150W K EB I LO GR 60P	7.26	725970 00
CDS450 SON-T150W K EB I LO GR P3 60P	7.26	725987 00

Please contact your local Philips representative for additional configurations

CitySpirit Torch CDS450 urban lighting luminaire with prismatic refractor (PR)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS450 CPO-TW60W K EB I PR GR 60P	6.89	725994 00
CDS450 CPO-TW60W K EB I PR GR P3 60P	6.89	726007 00
CDS450 SON-T70W K EB I PR GR 60P	6.80	726038 00
CDS450 SON-T70W K EB I PR GR P3 60P	6.80	726045 00

Please contact your local Philips representative for additional configurations

	CitySpirit Classic lantern Indirect LED version
Type	BDS460
Light source	22 x SMD LED-HP
Light colour	Warm white 3,000 K (WW) Neutral white 4,000 K (NW)
Power consumption	System 30 W (typical)
Inrush current	20 A / 40 µs
Driver	220-240 V / 50-60 Hz
Optical element	Top reflector, indirect (T-IO) Top reflector, indirect asymmetrical (TA-IO) Top reflector, indirect bi-directional (TB-IO LED) Top reflector, indirect symmetrical (TS-IO)
Optical cover	Transparent bowl/cover (TB)
Controls	Compatible with full line of Philips 1-10 V controllers
Options	Lumistep (pre-programmed dimming) 1-10 V input (dimming via external control) Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)

Materials	Housing: high-pressure, die-cast aluminium, non-corrosive Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, translucent UV-stabilised Top cover: ABS with heat shield Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: ultra dark grey, approx RAL7043 (GR) Other RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 (60P) or 76 mm (76P) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 3.5 to 5 m
Lifetime	50,000 hours (70% lumen maintenance)
Remarks	CRI 80 Constant Light Output
Main applications	Urban, residential and pedestrian areas, promenades

IP65 IK09

CE

CitySpirit BDS460 urban lighting luminaire LED version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BDS460 XR-E/WW ITB-LED GR 60P	8.11	295337 00

Please contact your local Philips representative for additional configurations

Accessories

CitySpirit CDS460 with indirect optic and GDS460 light trespass

Product ID	EOC
GDS460 LT	727066 00

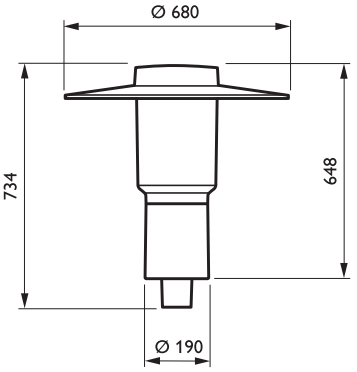
Fitting the optical unit

	CitySpirit Classic lantern
Type	CDS460
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I) Refractor, prismatic (PR) Diffuser (DF) Top reflector, indirect (T IO) Top reflector, indirect asymmetrical (TA IO) Top reflector, indirect bi-directional (TB IO) Top reflector, indirect symmetrical (TS IO)
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: die-cast aluminium Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, UV-stabilised Top cover: die-cast aluminium with heat shield or reflector
Colour	Housing: silver grey (GR) Pole mount and top cover: dark grey
Installation	Post top mounting: axial entry Ø 60/76 mm (60/76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS460 LO
Main applications	Urban, residential and pedestrian areas, promenades

IP65 IK09

CE

Ø 60-76



CDS460

CitySpirit CDS460 urban lighting luminaire with top reflector and diffuser element (DF)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS460 CPO-TW60W K EB I DF GR 60P	9.08	726229 00
CDS460 CPO-TW60W K EB I DF GR P3 60P	9.08	726236 00
CDS460 SON-T70W K EB I DF GR 60P	8.99	726267 00
CDS460 SON-T70W K EB I DF GR P3 60P	8.99	726274 00

Please contact your local Philips representative for additional configurations

CitySpirit CDS460 urban lighting luminaire with top reflector and direct/indirect louvre (LO-D/I)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS460 CPO-TW60W K EB I LO-D/I GR 60P	9.05	726106 00
CDS460 CPO-TW60W K EB I LO-D/I GR P3 60P	9.05	726113 00
CDS460 CPO-TW90W K EB I LO-D/I GR 60P	9.15	726120 00
CDS460 CPO-TW90W K EB I LO-D/I GR P3 60P	9.15	726137 00
CDS460 CPO-TW140W K EB I LO-D/I GR 60P	9.05	726144 00
CDS460 CPO-TW140W K EB I LO-D/I GR P3	9.05	726151 00
CDS460 SON-T70W K EB I LO-D/I GR 60P	8.96	726168 00
CDS460 SON-T70W K EB I LO-D/I GR P3 60P	8.96	726175 00
CDS460 SON-T100W K EB I LO-D/I GR 60P	9.30	726182 00
CDS460 SON-T100W K EB I LO-D/I GR P3 60P	9.30	726199 00
CDS460 SON-T150W K EB I LO-D/I GR 60P	9.31	726205 00
CDS460 SON-T150W K EB I LO-D/I GR P3 60P	9.31	726212 00

Please contact your local Philips representative for additional configurations

	CitySpirit Modern lantern Indirect LED version
Type	BDS462
Light source	22 x SMD LED-HP
Light colour	Warm white 3,000 K (WW) Neutral white 4,000 K (NW)
Power consumption	System 30 W (typical)
Inrush current	20 A / 40 µs
Driver	220-240 V / 50-60 Hz
Optical element	Top reflector, indirect (T-IO) Top reflector, indirect asymmetrical (TA-IO) Top reflector, indirect bi-directional (TB-IO LED) Top reflector, indirect symmetrical (TS-IO)
Optical cover	Transparent bowl/cover (TB)
Controls	Compatible with full line of Philips 1-10 V controllers
Options	Lumistep (pre-programmed dimming) 1-10 V input (dimming via external control) Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)

Materials	Housing: high-pressure, die-cast aluminium, non-corrosive Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, translucent UV-stabilised Top cover: ABS with heat shield Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: ultra dark grey, approx RAL7043 (GR) Other RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 (60P) or 76 mm (76P) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 3.5 to 5 m
Lifetime	50,000 hours (70% lumen maintenance)
Remarks	CRI 80 Constant Light Output
Main applications	Urban, residential and pedestrian areas, promenades

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CitySpirit BDS462 urban lighting luminaire LED version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BDS462 XR-E/WW ITB-LED GR 60P	8.25	295245 00

Please contact your local Philips representative for additional configurations

Accessories

CitySpirit CDS462 urban lighting luminaire with indirect optic and GDS460 light trespass

Product ID	EOC
GDS460 LT	727066 00

	CitySpirit Modern lantern
Type	CDS462
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I) Refractor, prismatic (PR) Diffuser (DF) Top reflector, indirect (T IO) Top reflector, indirect asymmetrical (TA IO) Top reflector, indirect bi-directional (TB IO) Top reflector, indirect symmetrical (TS IO)
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: die-cast aluminium Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, UV-stabilised Top cover: ABS with heat shield or reflector
Colour	Housing: silver grey (GR) Pole mount: dark grey
Installation	Post top mounting: axial entry Ø 60/76 mm (60/76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS460 LO
Main applications	Urban, residential and pedestrian areas, promenades

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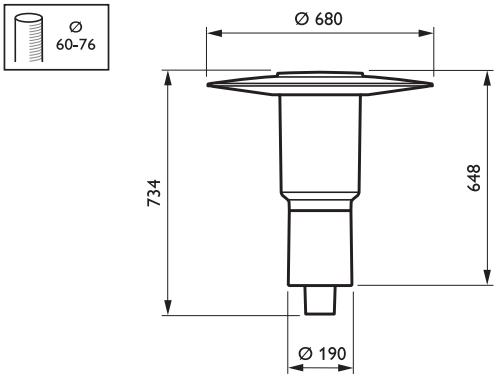

CDS462

CitySpirit CDS462 urban lighting luminaire with top reflector and prismatic refractor (PR)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS462 CPO-TW60W K EB I PR GR 60P	8.14	726335 00
CDS462 CPO-TW60W K EB I PR GR P3 60P	8.14	726342 00
CDS462 SON-T70W K EB I PR GR 60P	8.05	726373 00
CDS462 SON-T70W K EB I PR GR P3 60P	8.05	726380 00

Please contact your local Philips representative for additional configurations

CitySpirit CDS462 urban lighting luminaire with top reflector symmetrical (TS) and indirect optic (IO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS462 CPO-TW60W K EB ITS IO GR 60P	6.99	726410 00
CDS462 CPO-TW60W K EB ITS IO GR P3 60P	6.99	726427 00
CDS462 CPO-TW90W K EB ITS IO GR 60P	7.09	726434 00
CDS462 CPO-TW90W K EB ITS IO GR P3 60P	7.09	726441 00
CDS462 CPO-TW140W K EB ITS IO GR 60P	6.99	726458 00
CDS462 CPO-TW140W K EB ITS IO GR P3 60P	6.99	726465 00

Please contact your local Philips representative for additional configurations

CitySpirit CDS462 urban lighting luminaire with top reflector (TB) and indirect optic (IO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS462 CPO-TW60W K EB ITB IO GR 60P	6.99	726472 00
CDS462 CPO-TW60W K EB ITB IO GR P3 60P	6.99	726489 00
CDS462 CPO-TW90W K EB ITB IO GR 60P	7.09	726496 00
CDS462 CPO-TW90W K EB ITB IO GR P3 60P	7.09	726502 00
CDS462 CPO-TW140W K EB ITB IO GR 60P	6.99	726519 00
CDS462 CPO-TW140W K EB ITB IO GR P3 60P	6.99	726526 00

Please contact your local Philips representative for additional configurations

	CitySpirit Cone Indirect LED version
Type	BDS470
Light source	22 x SMD LED-HP
Light colour	Warm white 3,000 K (WW) Neutral white 4,000 K (NW)
Power consumption	System 30 W (typical)
Inrush current	20 A / 40 µs
Driver	220-240 V / 50-60 Hz
Optical element	Top reflector, indirect (T-IO) Top reflector, indirect asymmetrical (TA-IO) Top reflector, indirect bi-directional (TB-IO LED) Top reflector, indirect symmetrical (TS-IO)
Optical cover	Transparent bowl/cover (TB)
Controls	Compatible with full line of Philips 1-10 V controllers
Options	Lumistep (pre-programmed dimming) 1-10 V input (dimming via external control) Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)

Materials	Housing: high-pressure, die-cast aluminium, non-corrosive Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, translucent UV-stabilised Top cover: ABS with heat shield Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: ultra dark grey, approx RAL7043 (GR) Other RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 (60P) or 76 mm (76P) Operating temperature: -20°C < Ta < 35°C Recommended mounting height: 3.5 to 5 m
Lifetime	50,000 hours (70% lumen maintenance)
Remarks	CRI 80 Constant Light Output
Main applications	Urban, residential and pedestrian areas, promenades

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CitySpirit Cone BDS470 urban lighting luminaire LED version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BDS470 XR-E/WW I TB-LED GR 60P	10.05	295153 00

Please contact your local Philips representative for additional configurations

Accessories

CitySpirit Cone CDS470 urban lighting luminaire with indirect optic and GDS470 light trespass

Product ID	EOC
GDS470 LT	727073 00

	CitySpirit Cone
Type	CDS470
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I) Refractor, prismatic (PR) Diffuser (DF) Top reflector, indirect (T IO) Top reflector, indirect asymmetrical (TA IO) Top reflector, indirect bi-directional (TB IO) Top reflector, indirect symmetrical (TS IO)
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: die-cast aluminium Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, UV-stabilised Top cover: ABS with heat shield or reflector
Colour	Housing: silver grey (GR) Pole mount: dark grey
Installation	Post top mounting: axial entry Ø 60/76 mm (60/76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS470 LO
Main applications	Urban, residential and pedestrian areas, promenades

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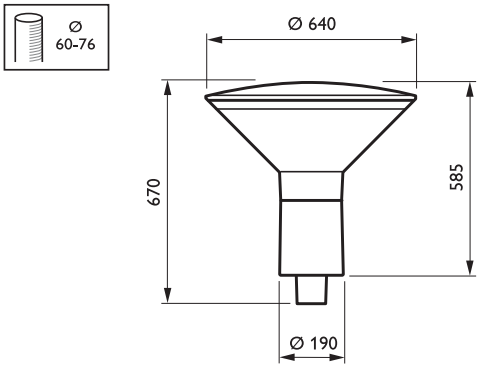

CDS470

CitySpirit Cone CDS470 urban lighting luminaire with bi-directional top reflector (TB) and indirect optic (IO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS470 CPO-TW60W K EB ITB IO GR 60P	8.79	726748 00
CDS470 CPO-TW60W K EB ITB IO GR P3 60P	8.79	726755 00
CDS470 CPO-TW90W K EB ITB IO GR 60P	8.89	726762 00
CDS470 CPO-TW90W K EB ITB IO GR P3 60P	8.89	726779 00
CDS470 CPO-TW140W K EB ITB IO GR 60P	8.79	726786 00
CDS470 CPO-TW140W K EB ITB IO GR P3 60P	8.79	726793 00

Please contact your local Philips representative for additional configurations

CitySpirit Cone CDS470 urban lighting luminaire with top reflector (T) and prismatic refractor (PR)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS470 CPO-TW60W K EB I PR GR 60P	9.94	726601 00
CDS470 CPO-TW60W K EB I PR GR P3 60P	9.94	726618 00
CDS470 SON-T70W K EB I PR GR 60P	9.85	726649 00
CDS470 SON-T70W K EB I PR GR P3 60P	9.85	726656 00

Please contact your local Philips representative for additional configurations

CitySpirit Cone CDS470 urban lighting luminaire with top reflector symmetrical (TS) and indirect optic (IO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS470 CPO-TW60W K EB ITS IO GR 60P	8.79	726687 00
CDS470 CPO-TW60W K EB ITS IO GR P3 60P	8.79	726694 00
CDS470 CPO-TW90W K EB ITS IO GR 60P	8.89	726700 00
CDS470 CPO-TW90W K EB ITS IO GR P3 60P	8.89	726717 00
CDS470 CPO-TW140W K EB ITS IO GR 60P	8.79	726724 00
CDS470 CPO-TW140W K EB ITS IO GR P3 60P	8.79	726731 00

Please contact your local Philips representative for additional configurations

	CitySpirit wall mounted Indirect LED version
Type	BWS464
Light source	22 x SMD LED-HP
Light colour	Warm white 3,000 K (WW) Neutral white 4,000 K (NW)
Power consumption	System 30 W (typical)
Inrush current	20 A / 40 µs
Driver	220-240 V / 50-60 Hz
Optical element	Top reflector, indirect (T-IO) Top reflector, indirect asymmetrical (TA-IO) Top reflector, indirect bi-directional (TB-IO LED) Top reflector, indirect symmetrical (TS-IO)
Optical cover	Transparent bowl/cover (TB)
Controls	Compatible with full line of Philips 1-10 V controllers
Options	Lumistep (pre-programmed dimming) 1-10 V input (dimming via external control) Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)

Material	Housing: high-pressure, die-cast aluminium, non-corrosive Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, translucent UV-stabilised Top cover: ABS with heat shield Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: ultra dark grey, approx RAL7043 (GR) Other RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 (60P) or 76 mm (76P) Operating temperature: -20°C < T_a < 35°C Recommended mounting height: 3.5 to 5 m
Lifetime	50,000 hours (70% lumen maintenance)
Remarks	CRI 80 Constant Light Output
Main applications	Urban, residential and pedestrian areas, promenades

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CitySpirit wall mounted BWS464 urban lighting luminaire LED version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BWS464 XR-E/WW ITB-LED GR 60P	6.85	295511 00

Please contact your local Philips representative for additional configurations

Accessories

CitySpirit wall mounted BWS464 urban lighting luminaire with indirect optic and GDS460 light trespass

Product ID	EOC
GDS460 LT	727066 00

	CitySpirit wall mounted
Type	CWS464
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I) Refractor, prismatic (PR) Diffuser (DF) Top reflector, indirect (T IO) Top reflector, indirect asymmetrical (TA IO) Top reflector, indirect bi-directional (TB IO) Top reflector, indirect symmetrical (TS IO)

Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: die-cast aluminium Pole mount: die-cast aluminium Bowl and skirt: polycarbonate, UV-stabilised Top cover: die-cast aluminium with heat shield or reflector
Colour	Housing: silver grey (GR) Pole mount and top cover: dark grey
Installation	Post top mounting: axial entry Ø 60/76 mm (60/76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS460 LO, wall-mounting bracket
Main applications	Urban, residential and pedestrian areas, promenades

CitySpirit wall mounted CWS464 urban lighting luminaire with top reflector (T) and direct/indirect louvre (LO-D/I)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CWS464 CPO-TW60W K EB I LO-D/I GR 60P	7.80	292336 00
CWS464 CPO-TW60W K EB I LO-D/I GR P3 60P	7.80	292343 00
CWS464 CPO-TW90W K EB I LO-D/I GR 60P	7.90	292350 00
CWS464 CPO-TW90W K EB I LO-D/I GR P3 60P	7.90	292367 00
CWS464 CPO-TW140W K EB I LO-D/I GR 60P	7.80	292374 00
CWS464 SON-T70W K EB I LO-D/I GR 60P	7.71	292398 00
CWS464 SON-T70W K EB I LO-D/I GR P3 60P	7.71	292404 00
CWS464 SON-T100W K EB I LO-D/I GR 60P	8.05	292411 00
CWS464 SON-T100W K EB I LO-D/I GR P3 60P	8.05	292428 00
CWS464 SON-T150W K EB I LO-D/I GR 60P	8.06	292435 00
CWS464 SON-T150W K EB I LO-D/I GR P3 60P	8.06	292442 00

Please contact your local Philips representative for additional configurations

CitySpirit wall mounted CWS464 urban lighting luminaire with top reflector (T) and prismatic refractor (PR)

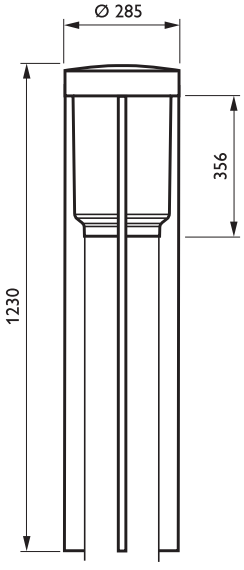
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CWS464 CPO-TW60W K EB I PR GR 60P	7.99	292459 00
CWS464 CPO-TW60W K EB I PR GR P3 60P	7.99	292466 00
CWS464 SON-T70W K EB I PR GR 60P	7.90	292473 00
CWS464 SON-T70W K EB I PR GR P3 60P	7.90	292480 00

Please contact your local Philips representative for additional configurations

	CitySpirit Bollard
Type	HGP450
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTERColour CDM-T / G12 / 35, 70 W 1 x MASTER SDW-T / PG12-1 / 50 W 1 x SON-T / E27 / 50, 70 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)

Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I) Refractor, prismatic (PR) Diffuser (DF) Top reflector, indirect (T IO) Top reflector, indirect asymmetrical (TA IO) Top reflector, indirect bi-directional (TB IO) Top reflector, indirect symmetrical (TS IO)
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Materials and finishing	Housing: cast aluminium Bowl: polycarbonate, UV-stabilised Top cover: cast aluminium with heat shield or reflector
Colour	Housing and top cover: dark grey (GR)
Installation	Flanged or embedded
Accessories	Light trespass, GDS460 LO
Main applications	Urban, residential and pedestrian areas, promenades



CitySpirit Bollard HGP450

CitySpirit Bollard HGP450

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP450 CPO-TW60W K EB I LO GR	25.00	294613 00
HGP450 CPO-TW60W K EB I PR GR	25.00	294620 00
HGP450 CPO-TW60W K EB I DF GR	25.00	294637 00
HGP450 CPO-TW60W K EB I TS IO GR	25.00	294644 00
HGP450 CPO-TW60W K EB I TA IO GR	25.00	294651 00
HGP450 CDO-TT70W K EB I LO GR	25.00	294668 00
HGP450 CDO-TT70W K EB I PR GR	25.00	294675 00
HGP450 CDO-TT70W K EB I DF GR	25.00	294682 00
HGP450 CDO-TT70W K EB I TS IO	25.00	294699 00
HGP450 CDO-TT70W K EB I TA IO	25.00	294705 00

Please contact your local Philips representative for additional configurations

CitySpirit Street

CitySpirit Street & Street Colour – enliven your streets

CitySpirit Street completes the CitySpirit range by combining a distinctive design with high quality street lighting. This combination makes it suitable for city centres, squares, boulevards and of course streets.

CitySpirit Street Colour is a high performance street lighting luminaire and an upgrade to the successful CitySpirit Street CDS480. It combines a high performance reflector for efficient street lighting with a translucent diffusing housing that creates a friendly, colourful lighting effect. CitySpirit Street Colour is available in two versions. The Ambient Light Effect version provides soft guidance thanks to the perforated optic, while the LED models – with 8 static presets, selected using a switch – can be used to create an attractive colourful ambience that brings the street to life.

www.philips.co.uk/lighting

product design award

asimpleswitch.com

CitySpirit Street Colour with LEDs, set to cyan

CitySpirit Street Colour with LEDs, set to red

CitySpirit Street Colour with LEDs, set to violet

CitySpirit Street Colour with LEDs, set to orange

CitySpirit Street Colour with LEDs, set to green

CitySpirit Street Colour

CitySpirit Street

	CitySpirit Street
Type	CDS480
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: die-cast aluminium Pole mount: die-cast aluminium Cover: die-cast aluminium Tempered glass
Colour	Housing, pole mount and cover: dark grey (GR)
Installation	Post top mounting: axial entry Ø 60 / 76 mm (60P / 76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS480 LO
Remarks	CDS480 76P version always delivered with pre-wired mains connection cable
Main applications	Urban, residential and pedestrian areas, promenades

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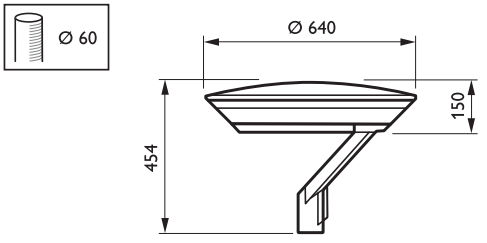


CDS480 60P

CitySpirit Street CDS480 urban lighting luminaire

Preferred selection

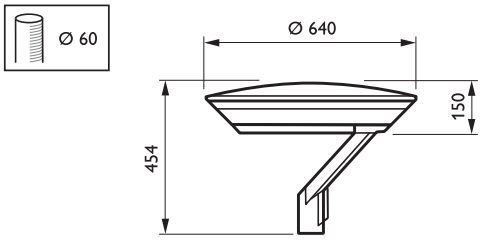
Product ID	Weight (kg)	European Order Code (EOC)
CDS480 CPO-TW45W K EB I CR GR 60P	13.25	726908 00
CDS480 CPO-TW45W K EB I CR GR P3 60P	13.25	726915 00
CDS480 CPO-TW60W K EB I CR GR 60P	13.25	726922 00
CDS480 CPO-TW60W K EB I CR GR P3 60P	13.25	726939 00
CDS480 CPO-TW90W K EB I CR GR 60P	13.35	726946 00
CDS480 CPO-TW90W K EB I CR GR P3 60P	13.35	726953 00
CDS480 CPO-TW140W K EB I CR GR 60P	13.21	726960 00
CDS480 CPO-TW140W K EB I CR GR P3 60P	13.21	726977 00
CDS480 SON-T70W K EB I CR GR 60P	13.21	726984 00
CDS480 SON-T70W K EB I CR GR P3 60P	13.21	726991 00
CDS480 SON-T100W K EB I OR GR 60P	13.50	727004 00
CDS480 SON-T100W K EB I OR GR P3 60P	13.50	727011 00
CDS480 SON-T150W K EB I OR GR 60P	13.51	727028 00
CDS480 SON-T150W K EB I OR GR P3 60P	13.51	727035 00

Please contact your local Philips representative for additional configurations

	CitySpirit Street Colour
Type	CDS482
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4* / 32, 42 W *depends on wattage
Lamp included	Yes (K or light colour 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Photocell: Minicell (P3) Pre-wired mains connection cable (for 60P version): 4.5 m (C4K5), 6 m (C6K)
Materials and finishing	Housing: polycarbonate Pole mount: die-cast aluminium Cover: die-cast aluminium Tempered glass
Colour	Housing, pole mount and cover: dark grey (GR)
Installation	Post top mounting: axial entry Ø 60 / 76 mm (60P / 76P) Recommended mounting height: 4 - 6 m
Accessories	Light trespass, GDS480 LO
Remarks	CDS482 76P version always delivered with pre-wired mains connection cable Ambient Light Effect (ALE) or LED ALE is best suited for CPO-TW and CDM-T lamp types LED only available with Electronic ballast (EB)
Main applications	Urban, residential and pedestrian areas, promenades

IP 65 IK 09



CDS480 60P

CitySpirit Street Colour

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CDS482 CPO-TW45W K EB I GR 60P	13.35	294323 00
CDS482 CPO-TW45W K EB I GR P3 60P	13.35	294330 00
CDS482 CPO-TW60W K EB I GR 60P	13.35	294347 00
CDS482 CPO-TW60W K EB I GR P3 60P	13.35	294354 00
CDS482 CPO-TW90W K EB I GR 60P	13.45	294361 00
CDS482 CPO-TW90W K EB I GR P3 60P	13.45	294378 00
CDS482 CPO-TW140W K EB I GR 60P	13.31	294385 00
CDS482 CPO-TW140W K EB I GR P3 60P	13.31	294392 00

Please contact your local Philips representative for additional configurations

Accessories

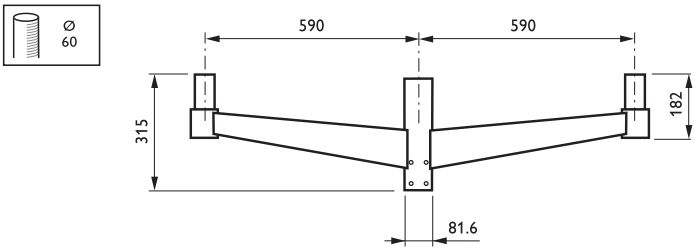
Product ID	Description	EOC
GDS480 LT	Light tresspass	727080 00

Vlissingen, The Netherlands

Double bracket

Preferred selection

Product ID	EOC
ZRP450 MBP-T D60	810225 00
ZRP450 MBP-T D76	810263 00

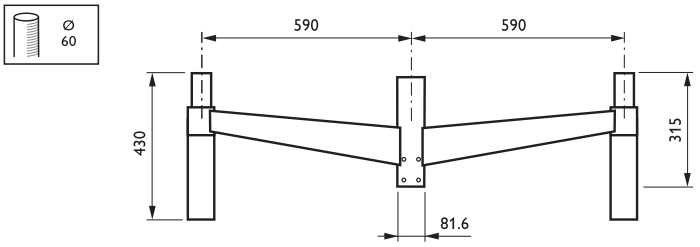


ZRP450 MBP-T D60

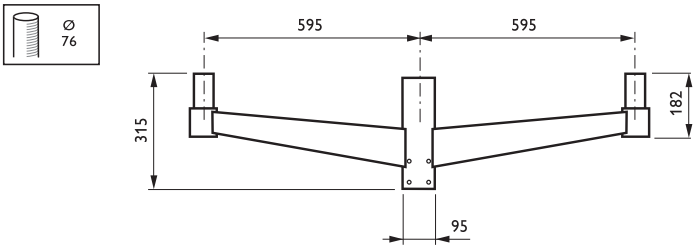
Double bracket with decorative element

Preferred selection

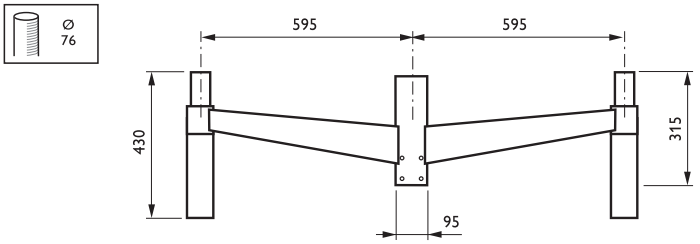
Product ID	EOC
ZRP450 MBP-T DECO D60	810232 00
ZRP450 MBP-T DECO D72	810270 00



ZRP450 MBP-T DECO D60



ZRP450 MBP-T D76

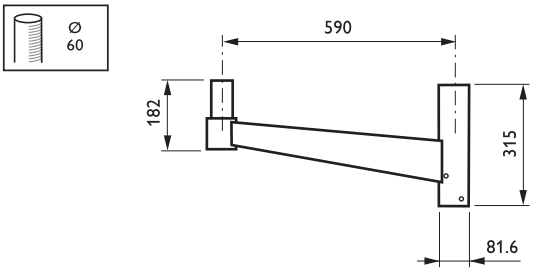


ZRP450 MBP-T DECO D76

Single bracket

Preferred selection

Product ID	EOC
ZRP450 MBP-S D60	810201 00
ZRP450 MBP-S D76	810249 00

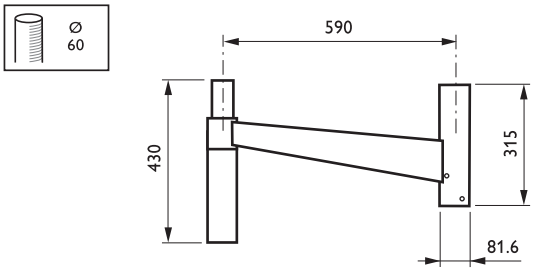


ZRP450 MBP-S D60

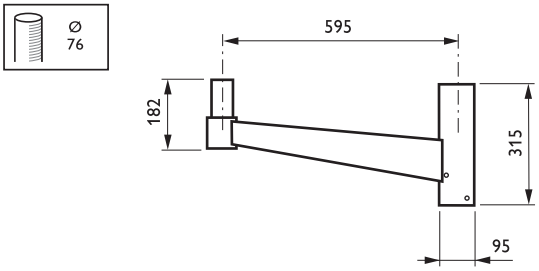
Single bracket with decorative element

Preferred selection

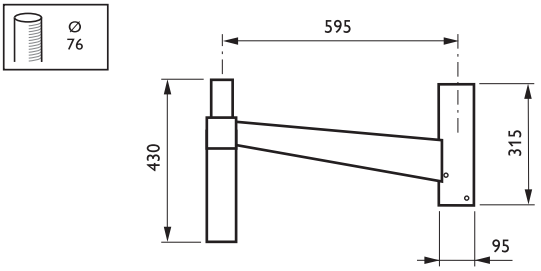
Product ID	EOC
ZRP450 MBP-S DECO D60	810218 00
ZRP450 MBP-S DECO D76	810256 00



ZRP450 MBP-S DECO D60



ZRP450 MBP-S D76

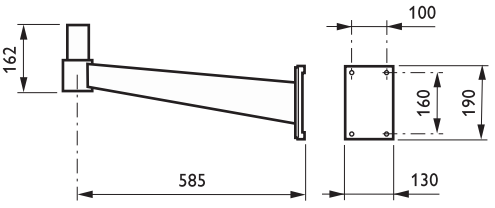


ZRP450 MBP-S DECO D76

Single bracket for wall mounting

Preferred selection

Product ID	EOC
ZRP450 MBW	810287 00

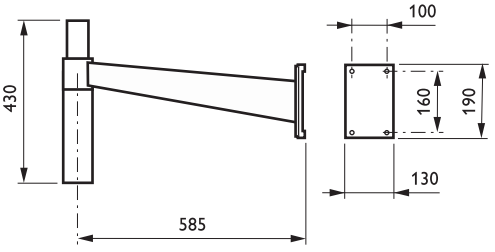


ZRP450 MBW

Single bracket for wall mounting with decorative element

Preferred selection

Product ID	EOC
ZRP450 MBW DECO	810294 00

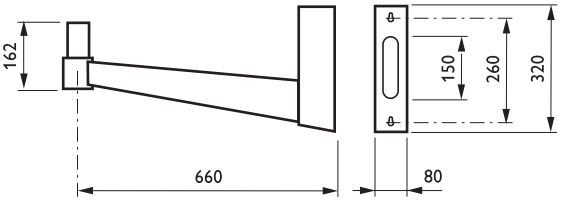


ZRP450 MBW DECO

Single bracket for wall mounting

Preferred selection

Product ID	EOC
ZRP450 MBW JB	810300 00

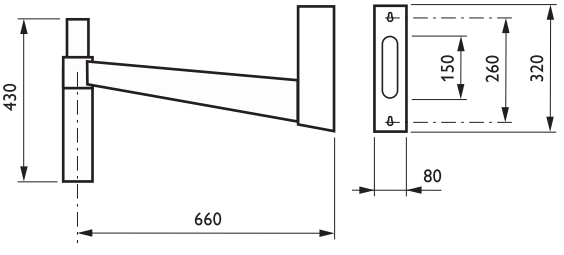


ZRP450 MBW JB

Single bracket for wall mounting with decorative element

Preferred selection

Product ID	EOC
ZRP450 MBW JB DECO	810317 00



ZRP450 MBW JB DECO

CPS200

CPS200 – functional and efficient

CPS200 is a functional, efficient post top luminaire for residential and other area lighting applications. It accommodates a range of lamp types and offers a choice of bowls – low glare prismatic for ovoid lamps and structured for tubular and compact fluorescent lamps – for optimum optical efficiency.

www.philips.co.uk/lighting

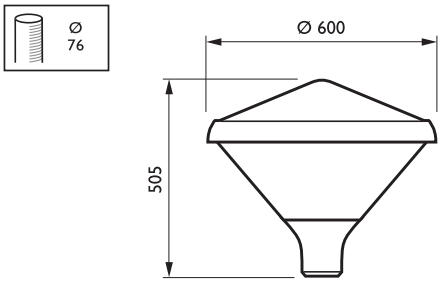
	CPS200
Type	CPS200 (bowl) EPS200 (control gear unit)
Light source	HID: 1 x SON / E27 / 70 W 1 x SON / E40 / 100, 150 W
Lamp included	No
Lamp holder	Horizontal position (LH) Vertical position (LV)
Gear	Electromagnetic (low loss), 240 V / 50 Hz: Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) High Frequency Regulator (HFR) Empty (E) (without gear)
Optical cover	Prismatic bowl (HP)
Ignitor	Semi-parallel (SP)

Options	Photocell: NEMA socket (P1)
Materials and finishing	Bowls: polycarbonate, impact-resistant Diffuser: steel, white-lacquered (HP versions) Cover: luran (ASA) with 3 quick-release stainless-steel clips Post socket: die-cast aluminium, non-corrosive
Installation	Post top mounting: axial entry Ø 60 / 68 / 76 mm (60P / 68P / 76P) Recommended mounting height: 3.5 - 4 m Bowl can be installed in advance of gear unit
Accessories	Spigot adaptor
Main applications	Shopping malls, residential areas, city centres and squares

IP65 IK10

CE

A complete configuration consists of:
control gear unit (EPS) and bowl (CPS)



CPS200

CPS200 urban lighting luminaire with prismatic bowl (HP version)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CPS200 E HP 60P	4.40	026251 00
CPS200 E HP P1 60P	4.40	026398 00
CPS200 E HP 76P	4.40	026534 00
CPS200 E HP P1 76P	4.40	026671 00
EPS200 SON70W 240V SP P1	2.40	019727 00
EPS200 SON100W 240V SP	2.60	019307 00
EPS200 SON150W 240V SP P1	2.90	019444 00

Please contact your local Philips representative for additional configurations

CityZen

CityZen – calm presence

CityZen is a residential outdoor luminaire. Its double-texture bowl ensures a good balance between optical performance and visual appearance. The extremely efficient optical system allows wider spacing between poles. Energy consumption is low thanks to the fluorescent PL-L Polar lamp. The vandal-resistant CityZen is available in a wide choice of colours.

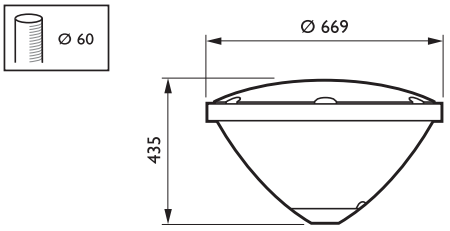
www.philips.co.uk/lighting

	CityZen
Type	HPS100
Light source	Compact fluorescent: 1 x MASTER PL-L 4 Pin / 2G11 / 24, 36 W
Lamp included	Yes (K or light colour 830)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF) High Frequency Performer (HFP) High Frequency Regulator (HFR)
Options	Light regulation: Dimming via SDU01S (D4)
Materials and finishing	Bowl: polycarbonate, impact-resistant Top reflector: aluminium Post socket: non-corrosive, die-cast aluminium

Colour	Light grey, medium grey, dark grey (GR-10714) RAL colours available on request
Installation	Post top mounting: axial entry Ø 60 or (optional) 76 mm Equipped with 'Express' connecting system
Remarks	The luminaire is supplied in one box as a complete assembly
Main applications	Shopping, pedestrian and residential areas, roads, city centres, squares, footpaths

IP65 IK10

CE



HPS100

CityZen HPS100 urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HPS100 PL-L24W HFP GR	5.50	546094 00
HPS100 PL-L24W HFP GR-10709	5.50	546155 00
HPS100 PL-L24W HFP GR-10714	5.50	546186 00
HPS100 PL-L36W HFP GR	5.50	546100 00
HPS100 PL-L36W HFP GR-10709	5.50	546148 00
HPS100 PL-L36W HFP GR-10714	5.50	546179 00

Please contact your local Philips representative for additional configurations

Easy step by step installation and maintenance. No tools are required

Urbana

Urbana – the beauty of versatility

Comprising eight different decorative models, the Urbana EPS300 range can be deployed in a wide variety of urban applications. At the same time, a distinct family design aesthetic is maintained thanks to the use of a single standard pole mount across the entire range. Whatever the application, Urbana's combination of excellent lighting performance and attractive day-time and night-time appearance adds to the ambience of the surroundings. The luminaires with Forest, Arctic and Tropic top covers address the issue of obtrusive light by means of dedicated bowls with top covers that prevent upward emission of light. The light pollution bowl Luner features a black coating on its upper hemisphere, to prevent upward light distribution. Both the opal Polar and clear Cristal bowls offer a choice of soft, diffuse lighting and bright, direct illumination.

www.philips.co.uk/lighting

Clear conical bowl cover with reflector (PCC-R)

Easy to instal and maintain

As each Urbana luminaire features the same pole mount, installation is the same every time. There is a simple twist-and-click bayonet connection for the louvres, which means that no tools are needed for lamp replacement, and the bowl itself also has a bayonet connection to the pole mount.

Reflectors

A choice of louvres - direct and indirect - are available for use with the clear bowls to ensure the desired light distribution and effect.
Alternately, a heat shield can be chosen when a reflector is not needed.

Bayonet connection

A bayonet connection for the bowls and top hats allows easy installation and tool-less lamp replacement

For easy installation and maintenance reasons, the reflector has a bayonet connection

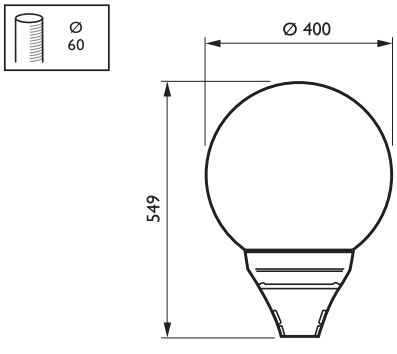
Heat shield

Bi-directional

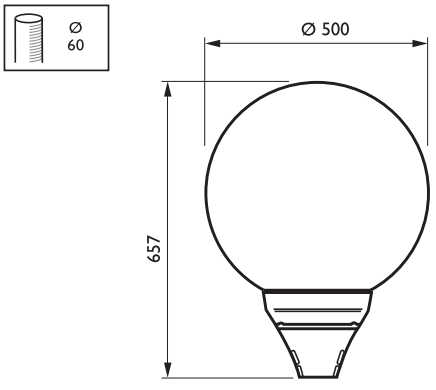
Direct

	Urbana
Type	GPS301/302/303/304/306/307/308/309 (bowls) EPS300 (pole mounts)
Light source	HID: 1 x SON-T / E27 / 70 W 1 x SON-T / E40 / 100, 150 W 1 x SON-I / E27 / 70 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-4 / 42 W
Lamp included	No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP)
Optical element	Louvre (LO) Louvre, direct/indirect (LO-D/I)
Safety device	Heat shield (HSH)
Materials and finishing	Bowls and top covers: UV stabilised, impact resistant. Top covers painted inside white and outside black Pole mount and gear cover: glass-fibre reinforced polyamide, black Louvre: sandblasted die-cast aluminium Heat shield: pre-galvanised steel
Installation	Post top mounting: axial entry Ø 60 mm Recommended mounting height: 3.5 - 4 m
Accessories	Top covers: GPS301 PCO-D400 (Polar 400) for soft, diffuse light GPS302 PCO-D500 (Polar 500) for soft, diffuse light GPS303 PCC-D400 (Cristal 400) for bright light GPS304 PCC-D500 (Cristal 500) for bright light GPS306 PCC-R-D500 (Luner) to prevent upward light distribution GPS307 PCO-R (Arctic) to prevent upward light distribution GPS308 PCC-R (Forest) to prevent upward light distribution GPS309 PCC-R (Tropic) to prevent upward light distribution
Main applications	Urban, pedestrian and residential areas, city and business centres, squares, promenades

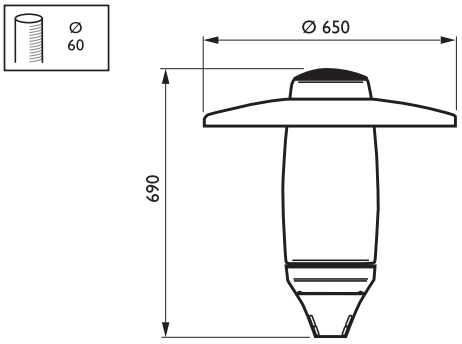
IP 65 IK 10



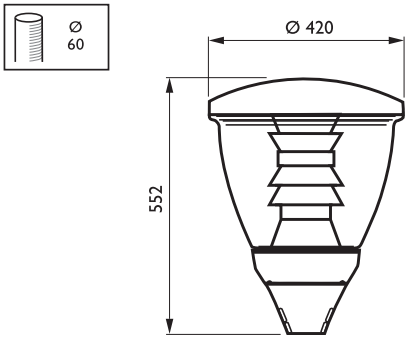
EPS300 + GPS301/303



EPS300 + GPS302/304/305/306



EPS300 + GPS307/308



EPS300 + GPS309

Urbana EPS300 urban lighting luminaire with heat shield (HSH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
EPS300 SON-T70W IC 240V HSH	2.50	126326 00
EPS300 SON-T150W IC 240V HSH	3.60	126388 00
EPS300 PL-T/4P42W HFP HSH	1.30	126234 00

Please contact your local Philips representative for additional configurations

Urbana EPS300 urban lighting luminaire with internal louvre, with direct/indirect lighting (LO-D/I)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
EPS300 SON-T70W IC 240V LO-D/I	3.20	126340 00
EPS300 SON-T150W IC 240V LO-D/I	4.40	126401 00
EPS300 PL-T/4P42W HFP LO-D/I	2.00	126258 00

Please contact your local Philips representative for additional configurations

Urbana EPS300 urban lighting luminaire with internal louvre (LO)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
EPS300 SON-T70W IC 240V LO	3.20	126333 00
EPS300 SON-T150W IC 240V LO	4.40	126395 00
EPS300 PL-T/4P42W HFP LO	2.00	126241 00

Please contact your local Philips representative for additional configurations

Accessories

Urbana Polar EPS300 Urban lighting luminaire with opal 400 diameter bowl cover (PCO-D400)

Product ID	EOC
GPS301 PCO-D400	146843 00

Urbana Polar EPS300 Urban lighting luminaire with opal 500 diameter bowl cover (PCO-D500)

Product ID	EOC
GPS302 PCO-D500	146850 00

Urbana Cristal EPS300 Urban lighting luminaire with Clear 400 diameter bowl cover (PCC-D400)

Product ID	EOC
GPS303 PCC-D400	146867 00

Urbana Cristal EPS300 Urban lighting luminaire with clear 500 diameter bowl cover (PCC-D500)

Product ID	EOC
GPS304 PCC-D500	146874 00

Urbana Luner EPS300 Urban lighting luminaire with clear 500 diameter bowl cover with reflector (PCC-R)

Product ID	EOC
GPS306 PCC-R-D500	146898 00

Urbana Arctic EPS300 Urban lighting luminaire with opal cylindrical bowl with reflector (PCO-R)

Product ID	EOC
GPS307 PCO-R	126425 00

Urbana Forest EPS300 Urban lighting luminaire with clear cylindrical bowl with reflector (PCC-R)

Product ID	EOC
GPS308 PCC-R	126418 00

Urbana Tropic EPS300 Urban lighting luminaire with clear conical bowl cover with reflector (PCC-R)

Product ID	EOC
GPS309 PCC-R	146928 00

Milewide

Milewide – pure and contemporary

Milewide is a pure, contemporary street lighting luminaire designed in collaboration with Knud Holscher (Denmark).

Blending simple design and high performance, the Milewide family encompasses three sizes: Mini Milewide, Milewide and Mega Milewide.

The new Mini Milewide has been specially designed to integrate the latest CosmoPolis technology. This elegant luminaire offers outstanding lighting performance thanks to the synergy between efficient CosmoPolis light sources, a new electronic ballast and the new, dedicated CosmoR optical system.

The Milewide and Mega Milewide deliver high optical performance thanks to the adjustable road lighting reflector and inclination angle and have been optimised for different street configurations. To create complete solutions for today's cities, the Milewide range has its own dedicated line of columns.

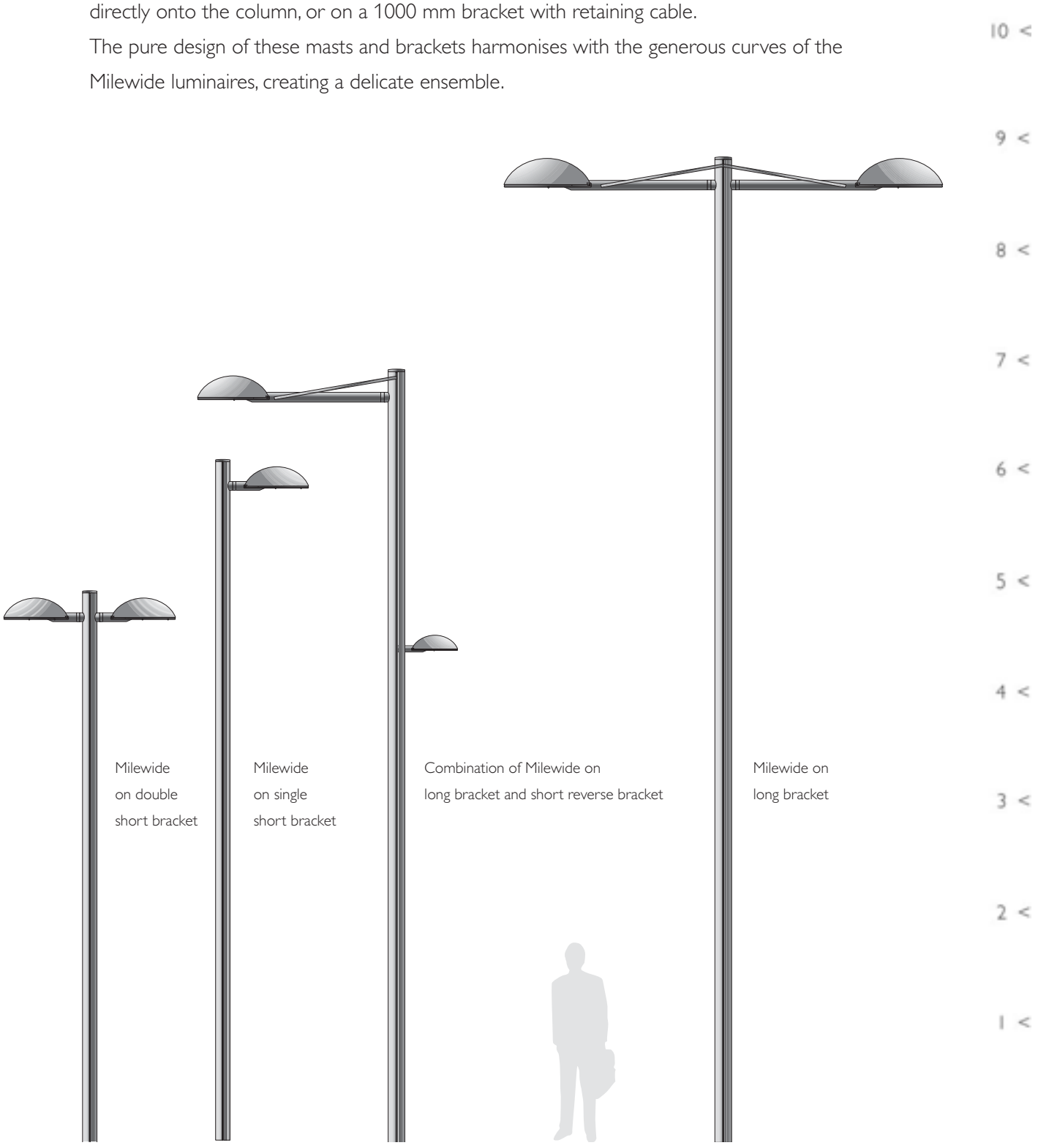
www.philips.co.uk/lighting

Mini Milewide SRS419, Milewide SRS421, Mega Milewide SRS427

product design award

Milewide masts and brackets

The dedicated Milewide masts and brackets were developed to suit all three versions of the luminaire (Mini, standard and Mega), depending on the application. With heights up to 12 m, the Milewide mast is tubular in section 150 or 180 mm, either in anodised aluminium, or painted Philips silver grey. The luminaire is fixed either on a mini bracket directly onto the column, or on a 1000 mm bracket with retaining cable.
The pure design of these masts and brackets harmonises with the generous curves of the Milewide luminaires, creating a delicate ensemble.

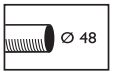


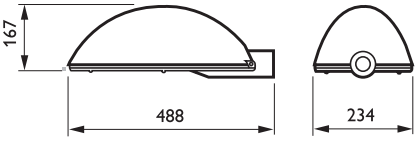
Werkhuizenkaai, Laken, Belgium

	Milewide
Type	SRS419 (Mini Milewide) SRS421 (Milewide) SRS427 (Mega Milewide)
Light source	HID: SRS419 1 x MASTERColour CDM-T / G8.5 / 35, 70 W 1 x MASTER CosmoWhite CPO-TW PGZ12 / 45, 60 W 1 x SON-T / E27 / 70 W SRS421 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150, 250 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T/ E40 / 100, 150, 250 W SRS427 1 x MASTER CityWhite CDO-ET / E40 / 250 W 1 x MASTER CityWhite CDO-TT / E40 / 150 W 1 x SON-T/ E40 / 150, 250, 400 W
Lamp included	Yes (K or lamp colour 830) No
Gear	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Closed R60 (CC) optic for CosmoPolis (S-classes and low ME-classes) Closed CT-POT (CR) optic for CosmoPolis (all ME-classes), CDO and SON lamps
Ignitor	Semi-parallel, self-stopping (ST) Series, self-stopping (SS)
Options	Lighting controls: Chronosense (CH), Minicell (P3)
Materials and finishing	Frame and housing: die-cast aluminium Cover: tempered flat glass Clips, screws, clamps: stainless steel
Colour	Dark grey (GR) RAL colours available on request
Installation	SRS419 Side entry mounting: lateral entry Ø 48 mm Recommended mounting height: 6 m SRS 421 Side entry mounting: lateral entry Ø 60 mm Recommended mounting height: 6 / 8 m SRS427 Side entry mounting: lateral entry Ø 76 mm (76S) Recommended mounting height: 10 m Tilt angle: 0°
Remarks	Faceted reflector adjustable to five positions
Main applications	Shopping and residential areas, roads, area, car parks, business centres, city centres and squares

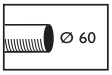
IP 65

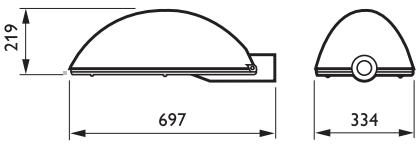
CE





SRS419





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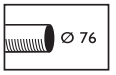
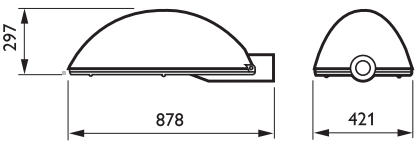




SRS427

Mini Milewide SRS419 urban lighting luminaire, miniaturised and elegant

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRS419 CDM-T70W K IC 240V II GR ST	4.70	909615 00
SRS419 CDM-T70W K IC 240V II GR ST P3	4.70	725802 00
SRS419 CPO-TW45W K EB II OC GR	4.50	724706 00
SRS419 CPO-TW45W K EB II OC GR P3	4.59	724713 00
SRS419 CPO-TW60W K EB II OC GR	4.50	090887 00
SRS419 CPO-TW60W K EB II OC GR P3	4.59	090894 00

Please contact your local Philips representative for additional configurations

Milewide SRS421 urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRS421 CPO-TW60W K EB OC GR	8.30	723426 00
SRS421 CPO-TW60W K EB OC GR P3	8.30	723457 00
SRS421 CPO-TW140W K EB OC GR	8.30	723433 00
SRS421 CPO-TW140W K EB OC GR P3	8.30	723440 00
SRS421 SON-TPP70W K 240V GR ST	10.10	723402 00
SRS421 SON-TPP70W K 240V GR ST P3	10.10	723358 00
SRS421 SON-TPP100W K 240V GR ST	8.00	723334 00
SRS421 SON-TPP100W K 240V GR ST P3	8.00	723365 00
SRS421 SON-TPP150W K 240V GR ST	10.80	723341 00
SRS421 SON-TPP150W K 240V GR ST P3	10.80	723372 00
SRS421 SON-TPP250W K 240V GR ST	10.50	723396 00
SRS421 SON-TPP250W K 240V GR ST P3	10.50	723389 00

Please contact your local Philips representative for additional configurations

Mega Milewide SRS427 urban-lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRS427 SON-T-250W K IC 240V II GR ST 76S	20.00	386877 00
SRS427 SON-T-250W K IC 240V II GR ST P3	20.00	387041 00
SRS427 SON-T-400W K IC 240V I GR ST 76S	22.00	386891 00
SRS427 SON-T-400W K IC 240V I GR ST P3	22.00	387164 00

Please contact your local Philips representative for additional configurations

Easy access by opening canopy

CitySoul

CitySoul – create identity

CitySoul is a family of modular street lighting luminaires, featuring state of the art lamp and gear technologies, and offering outstanding optical performance.

CitySoul's classic design merges well with today's urban environment. The simple, flat, ellipsoidal form of the luminaire creates an elegant light point.

CitySoul is highly versatile. Suitable for side entry, suspended or post top installation, and with its adjustable beam and light trespass accessories, it fits every application.

Incorporating highly energy efficient technologies, CitySoul has been designated as a Philips 'Green Flagship'.
CitySoul comes in two sizes, along with a complete range of dedicated masts and brackets.

www.philips.co.uk/lighting

CitySoul CGP430, mini version

CitySoul CGP431, standard version

asimpleswitch.com

Breskens, The Netherlands

CitySoul offers maximum flexibility in design and light applications in urban environments. Its stylish look conceals a rugged, high strength construction with a stiff enclosure that guarantees protection for the optic, lamp and gear, resulting in a total IP66 rating. The outer shell of the luminaire is made of die-cast aluminium, and the inner components are made of glass-reinforced polypropylene.

Optical performance
The patented CT-POT optic is suitable for all mounting heights, and the adjustable lamp holder allows perfect aiming of the beam, regardless of where the luminaire is installed. A polycarbonate bowl is available for greater shock resistance.

Versatile range
CitySoul is available for side entry, suspended or post-top installation and offers a choice of elegant brackets. With its adjustable beam and light trespass accessories, it fits every application.

Post top mounting
Traditional post top mounting is possible on a pole of Ø 60 or 76 mm. CitySoul expands this capability with another version, which includes a hinge that can be tilted in 5° steps for the perfect angle.

Side entry
This dedicated spigot enables side entry mounting on Ø 42 to 60 mm brackets.

Suspended
A dedicated canopy is available for suspended installations.

Opening the luminaire

Direct access to the lamp

Accessing the gear tray

Light only where it is needed
Ahead of upcoming regulations, CitySoul offers light distributions that illuminate the streets and not the sky. CitySoul enables lighting schemes that truly offer zero candelas above the horizon.

CosmoPolis
The MASTER CosmoPolis lamp and its electronic gear make it possible to increase spacing by up to +15%, while reducing CO_2 emissions by 40%. Assembled without glue, with all plastic parts coded for traceability, CitySoul is easily recycled, complying with RoHS and ready for WEEE.

Future proof
With CitySoul, maintenance is fast and easy. The complete gear platform can be changed in an instant, and the patented knife-connector ensures all maintenance operations are safe for the operator.

Self cleaning
With the CitySoul range, Philips is introducing a new coating that actively expels dust and pollution from the glass: DynaClean. This 'self-cleaning' coating reduces the decline in lumen output over time due to dust and dirt on the glass.
It reduces the need for maintenance, thus enabling maximum use to be made of the system energy of a luminaire over its lifetime.
In installation design, DynaClean increases the maintenance factor by 7%.

CosmoPolis system in dedicated CosmoR optic

Flat glass after 1.5 years near a motorway, with DynaClean

Flat glass after 1.5 years near a motorway, without DynaClean

CitySoul masts and brackets

Providing light is not enough. Cities are now looking for solutions that will contribute to the identity of the city, not just light points. For CitySoul, we designed several ranges of masts and brackets to fit every style, with elegance. Modern or classical, single or twin bracket, with the option for a pedestrian mini luminaire, CitySoul is versatile.
Available in heights from 4 to 10 m, CitySoul solutions are available in standard Philips ultra dark grey, while other colours and finishes are available upon request.
CitySoul post-top fixation on cylindriconical masts creates sober solutions. This type of installation is ideal for residential areas, industrial or shoppings districts.

Flip bracket

The straight design of the Flip bracket creates a simple and pure solution. Its classical shape is suitable for boulevards or ring roads.
The slim shape of the Flip bracket demonstrates dynamism. These solutions are primarily designed for ring roads and suburban access routes where daylight appearance is important.

Jump bracket

The Jump bracket expands the horizon and recreates a tree line. It is best applied in boulevards or commercial areas.

Morph bracket

Generous and organic, the Morph bracket is a design statement. It will suit centre boulevards as well as parking zones.

Horizontal bracket

Straightforward and unobtrusive, the Horizontal bracket can create rhythm within a city. This solution performs best on ring roads and suburban access routes.

Structural bracket

Sometimes function contributes to form. The cable that compensates for the angle of the Structural bracket creates a link to modern steel architectures. The Structural bracket can be applied in streets and roads to modern districts.

City of Petersbach in France, CitySoul on Jump bracket

Natural bracket

The angled Natural bracket has been designed to blend in in streets where there are trees, following the natural direction of the branches. It is ideal in access roads to residential areas or exit roads.

CitySoul Mini on a cylindroconical mast

Combination of CitySoul on Flip bracket and CitySoul Mini on back

CitySoul on Jump bracket

CitySoul on Morph bracket

CitySoul on Sweep mast

	CitySoul
Type	CGP431
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45 to 140 W 1 x MASTERColour CDM-T / G12 / 70 to 250 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100 to 250 W 1 x SON-T/ E27 / 50, 70 W 1 x SON-T/ E40 / 100 to 250 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42, 57 W *depends on wattage Induction lamp system: 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (K or light colour 728, 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF) Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps
Optical cover	Flat glass (FG) Flat glass with DynaClean coating (FGD) Polycarbonate bowl (PC)

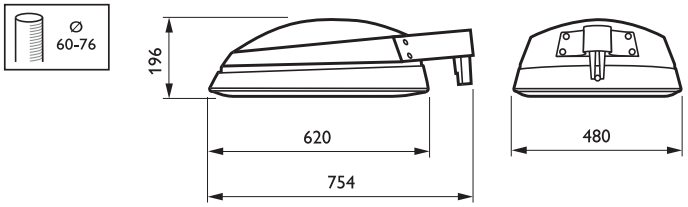
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Lighting controls: Chronosense (CH), dimming switch (SW), Minicell (P3)
Materials and finishing	Housing: die-cast aluminium Inner components: glass-reinforced polypropylene
Colour	Canopy: dark grey (GR) Frame: silver grey Other RAL or Akzo Futura colours available on request
Installation	Post top mounting: axial entry Ø 60 / 76 mm (76P) Post top mounting: tiltable with hinge (76PA) Side entry mounting: lateral entry Ø 42 - 60 mm (60S) Recommended mounting height: 4 - 10 m, depending on choice of mast and bracket
Accessories	Mounting brackets
Main applications	Urban, residential, pedestrian and shopping areas, squares, local streets, minor collector roads, parks

CitySoul CGP431 urban lighting luminaire with flat glass (FG)

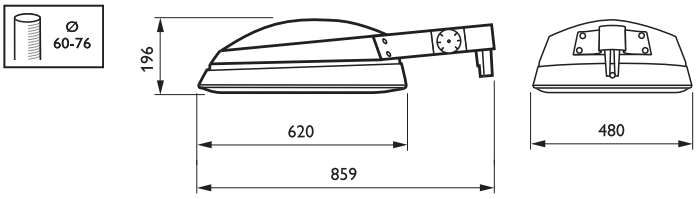
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CGP431 CDO-TT60W K EB I OC FG GR 76P	11.10	601800 00
CGP431 CPO-TW60W K EB I OC FG GR P3 76P	11.10	601817 00
CGP431 CPO-TW60W K EB I OC FG GR MBA	11.56	601824 00
CGP431 CPO-TW60W K EB I OC FG GR P3 MBA	11.56	601831 00
CGP431 CPO-TW140W K EB I OC FG GR 76P	11.10	601848 00
CGP431 CPO-TW140W K EB I OC FG GR P3 76P	11.10	601855 00
CGP431 CDO-TT140W K EB I OC FG GR MBA	11.56	601862 00
CGP431 CPO-TW140W K EB I OC FG GR P3 MBA	11.56	601879 00

Please contact your local Philips representative for additional configurations



CGP431 FG 76P



CGP431 FG 76PA/MBA

	CitySoul, mini
Type	CGP430
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 /45 to 90 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100 W 1 x SON-T/ E27 / 50, 70 W 1 x SON-T/ E40 / 100 W 1 x MASTERColour CDM-T / G12 / 35 to 70 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3 or 4 or 5* / 32, 42W *depends on wattage
Lamp included	Yes (K or light colour 728, 830, 840 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps
Optical cover	Flat glass (FG) Flat glass with DynaClean coating (FGD) Polycarbonate bowl (PC)
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel, digital (SND) Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Lighting controls: Chronosense (CH), dimming switch (SW), photo/minicell (P3)
Materials and finishing	Housing: die-cast aluminium Inner components: glass-reinforced polypropylene
Colour	Canopy: dark grey (GR) Frame: silver grey Other RAL or Akzo Futura colours available on request
Installation	Post top mounting: axial entry Ø 60 / 76 mm (76P) Post top mounting: tiltable with hinge (76PA) Side entry mounting: lateral entry Ø 42 - 60 mm (60S) Recommended mounting height: 4 - 10 m, depending on choice of mast and bracket
Accessories	Mounting brackets
Main applications	Urban, residential, pedestrian and shopping areas, squares, local streets, minor collector roads, parks

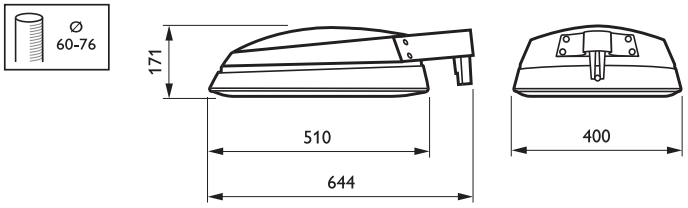
IK 08

CitySoul Mini CGP430 urban lighting luminaire with flat glass (FG)

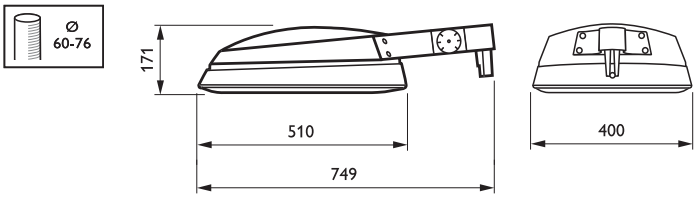
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CGP430 CPO-TW60W K EB I FG GR 76P	9.19	601480 00
CGP430 CPO-TW60W EB I FG GR P3 76P	9.19	601497 00
CGP430 CPO-TW60W K EB I FG GR MBA	9.65	601503 00
CGP430 CPO-TW60W K EB I FG GR P3 MBA	9.65	601510 00

Please contact your local Philips representative for additional configurations



CGP430 FG 76P



CGP430 FG 76PA/MBA

Accessories

Light Trespass louvre

Product ID	EOC
ZGP430 LO	479965 00
ZGP431 LO	479972 00

Quartier du Paradis, Louvroil, France. Architect: Reichen & Robert, Urbanica.

CityVision

CityVision – expand your horizons

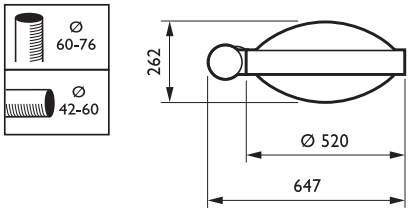
CityVision is a range of luminaires for use in residential areas. Their stylish looks conceal a rugged, high-strength construction, which is suitable for side entry and post top mounting at heights of up to 8 metres. A range of light sources provide warm to cool light, and direct to diffuse light. CityVision offers a choice of two decorative upper domes – translucent or painted – and two bowl shapes. There is also a version with an all-aluminium canopy and the choice of a flat glass for increased visual comfort (CPS500). In this model, the optical compartment has been designed to accommodate the CT-POT reflector, which is renowned for its versatility in application and performance. The flat glass reinforces the simplicity of the luminaire design and controls glare to the level of zero candelas above the horizon in compliance with the latest European norms on light nuisance.

www.philips.co.uk/lighting

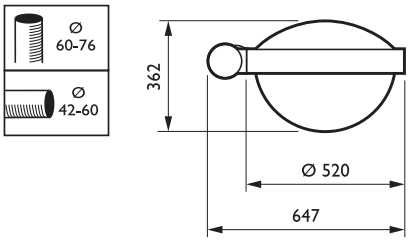
	CityVision
Type	CPS400 (slim top dome, slim bowl) CPS401 (slim top dome, wide bowl) CPS402 (wide top dome, slim bowl) CPS403 (wide top dome, wide bowl)
Light source	HID: 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 70, 150 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W Compact fluorescent: 1 or 2 x MASTER PL-L 4 Pin / 2G11 / 24 W 1 or 2 x MASTER PL-L 4 Pin / 2G11 / 18, 24 W
Lamp included	Yes (K or light colour 827, 830 or 840) No
Gear	Conventional, 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Ignitor	Series (SI) Semi-parallel (SP) Semi-parallel, self-stopping (ST)

Options	Light regulation: dimming switch (SW)
Materials and finishing	Frame: die-cast aluminium Canopy: polycarbonate Bowls: polycarbonate, impact-resistant, UV-stabilised
Colour	Black (BK), blue (BL), green (GN), grey (GR), red (RD), yellow (YE) RAL colours available on request All parts coloured (AL), cover painted (CO)
Installation	Post top mounting: axial entry Ø 60 / 76 mm (60P / 76P) Side entry mounting: lateral entry Ø 42 - 48 or 60 mm (42S or 60S) Recommended mounting height: 3.5 m
Accessories	Mounting brackets; two arms, ZPS400 MBT and three arms, ZPS400 MBY
Main applications	Urban, shopping, residential and pedestrian areas, city centres, parks

IP65 IK10



CPS400



CPS401

CityVision CPS400 urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CPS400 SON-T70W K 240V II GR ST 60P	7.41	676043 00
CPS400 SON-T100W K 240V II GR ST 60P	8.03	676050 00
CPS400 SON-T150W K 240V II GR ST 60P	8.36	676067 00
CPS400 CDO-TT70W K 240V II GR ST 60P	7.37	676074 00
CPS400 CDO-TT100W K 240V II GR ST 60P	7.88	676081 00
CPS400 CDO-TT150W K 240V II GR ST 60P	8.13	676098 00

Please contact your local Philips representative for additional configurations

CityVision CPS401 urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
CPS401 SON-T70W K 240V II GR ST 60P	7.73	676104 00
CPS401 SON-T100W K 240V II GR ST 60P	8.35	676111 00
CPS401 SON-T150W K 240V II GR ST 60P	8.68	676128 00
CPS401 CDO-TT70W K 240V II GR ST 60P	7.69	676135 00
CPS401 CDO-TT100W K 240V II GR ST 60P	8.20	676142 00
CPS401 CDO-TT150W K 240V II GR ST 60P	8.45	676159 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
ZPS400 MBT	Mounting bracket for clustering 2 luminaires	272344 00
ZPS400 MBY	Mounting bracket for clustering 3 luminaires	272351 00

Dombasle, France

NightWatch

NightWatch – Brilliant functionality

NightWatch is a bollard luminaire designed to supply a high lighting level despite the low height of the light point. The simple, robust and functional design is based on a dedicated optical system, providing a symmetrical downward light distribution for optimum guidance.

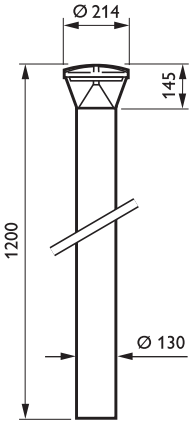
Design: Marianne Tuxen, Industrial Design
Lighting engineering: Jens Gudum, Hansen & Henneberg

www.philips.co.uk/lighting

	Nightwatch
Type	HGP433
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70 W
Lamp included	No
Gear	Electro magnetic (low loss), 240 V / 50 Hz
Ignitor	Semi-parallel, self-stopping (ST)
Materials and finishing	Housing: polycarbonate, UV-stabilised Canopy: die-cast aluminium Mast: extruded aluminium Canopy and mast: weather-resistant powder-varnished (texture)

Colour	Akzo Nobel Noir 200 Sable
Installation	Fixation onto base or firm foundation Adjustable console included
Remarks	The luminaire is supplied as a complete assembly (excluding lamp) in one box
Main applications	Urban, pedestrian and residential areas, promenades, parks, gardens, city centres, car parks

IP 65



HGP433

NightWatch HGP433 bollard luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP433 CDM-T35W IC II ST	15.00	085357 00
HGP433 CDM-T70W IC II ST	15.00	085364 00

Please contact your local Philips representative for additional configurations

Dedicated optical system offering optimised guidance lighting

Smart Bollard LED

Smart Bollard LED – contemporary city beautification

Smart Bollard LED is an outdoor luminaire for general illumination, which delivers a choice of cool-white or warm-white light. Three LUXEON® super-bright LEDs, aided by customised glare reducing optics, provide lighting levels similar to conventional sources, while only consuming 5 W. The extremely long lifetime of LEDs and the durable aluminium housing with IP65 protection ensure maintenance-free operation over the entire life of the product.

With its smart, elegant design, Smart Bollard LED is suited to a wide range of architectural styles. The integrated wide-voltage driver and provided cabling makes installation easy and safe. Smart Bollard LED is available in two heights of 400 mm (tall) and 200 mm (short).

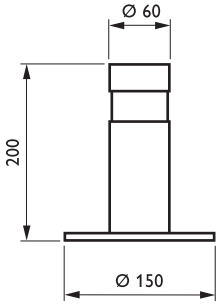
www.philips.co.uk/lighting

	Smart Bollard LED
Type	BCP450 (short version) BCP455 (large version)
Light source	3 x LUXEON® LED-HP, 140°, 350 am 3 x LUXEON® LED-HP, 110°, 350 am
Light colour	Warm white, 3085 - 3295 K Cool white, 5650 - 6300 K
Main voltage	100-240 V
Power consumption	3 W (LED only)
Optic	Conical chrome-plated ABS reflector
Optical cover	Cylindrical tempered glass cover
Driver	Integrated LED driver

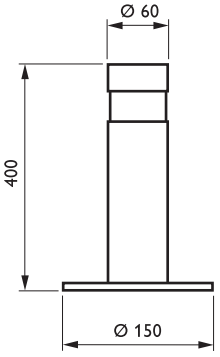
Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive, powder coated Glass: thermally hardened, 1.5 mm thick Reflectors: chrome plated ABS
Colour	Grey REAL 9006 (GER.)
Installation	Floor mounting PG16 cable gland at base for concealed wiring after installation Delivered with mains supply cable of 1 meter Operating temperature: -20° C < T_a < 40° C
Lifetime	50,000 hours (70% lumen maintenance at T_a = 25° C)
Main applications	Parks, gardens, shopping areas

IP65 850°C

CE RoHS



BCP455



BCP455

Smart Bollard LED BCP450, short version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP450 3xLED-HP/CW 5W 100-240V IP65 GR	0.86	812199 99
BCP450 3xLED-HP/WW 100-240V IP65 GR	0.86	812205 99

Please contact your local Philips representative for additional configurations

Smart Bollard LED BCP455, tall version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP455 3xLED-HP/CW 100-240V IP65 GR	1.36	812175 99
BCP455 3xLED-HP/WW 100-240V IP65 GR	1.36	812182 99

Please contact your local Philips representative for additional configurations

Verona

Verona – variety of effects

Verona is a modular, vandal-resistant bollard range that allows the creation of a variety of lighting atmospheres. With a choice of direct light or indirect, soft and filtered lighting effects, Verona offers distinction and demarcation by day, together with improved guidance at night. The posts are available in three different heights and with four different tops: open, cone, lamella and louvre. Furthermore, a light eye can be added to each of the tops for additional guidance.

www.philips.co.uk/lighting

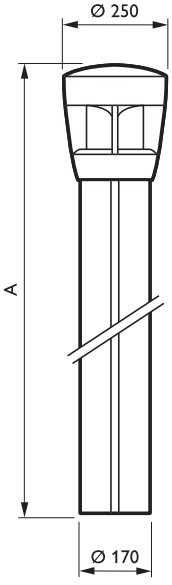
product design award

	Verona
Type	HGP141 (small post version) HGP142 (medium post version) HGP143 (long post version) EGP140 (control gear unit)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 70 W 1 x MASTER SDW-T / PG12-1 / 50 W 1 x SON-I / E27 / 70 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q -3 / 32 W Induction lamp system: 1 x MASTER QL system / 55 W
Lamp included	Yes (light colour 830 or 840) No
Ignitor	Semi-parallel (SP)

Materials and finishing	Posts: extruded aluminium Post tops: die-cast aluminium Diffuser: hardened glass Light eye: polycarbonate
Colour	Dark grey (GR)
Installation	Fixation onto base or firm foundation Both post and post top mounted subsequently and fastened with Allen screws
Accessories	Open post top, cone post top, light eye, louvre post top, lamella post top
Main applications	Shopping, residential and pedestrian areas, parks, promenades, city centres, squares, car parks

IP44 for gear compartment IP65 for optical compartment IK09

A complete configuration consists of: control gear unit (EGP) and post (HGP)



HGP141/142/143

	A
HGP141	800
HGP142	1200
HGP143	1600

Verona HGP141 short post with GGP143 bollard

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP141 LOW POST EXTRUSION	3.50	217253 00

Please contact your local Philips representative for additional configurations

Verona HGP142 medium post with GGP146/147 bollard

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP142 MEDIUM POST EXTRUSION	5.00	217352 00

Please contact your local Philips representative for additional configurations

Verona HGP143 high post with GGP144/145 bollard

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP143 HIGH POST EXTRUSION	8.50	219578 00

Please contact your local Philips representative for additional configurations

Preferred selection

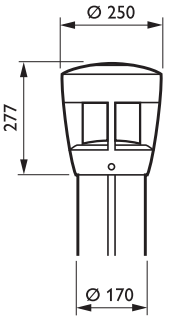
Product ID	Weight (kg)	European Order Code (EOC)
EGP140 CDM-T70W 230V SP	3.10	217314 00
EGP140 SON70W 230V SP	2.80	217277 00
EGP140 QL55W/830 220-240V	2.40	217284 00
EGP140 QL55W/840 220-240V	2.40	217291 00
EGP140 PL-T/4P32W 230V	2.00	217338 00
EGP140 MAX100W-E27	1.90	217345 00

Please contact your local Philips representative for additional configurations

Accessories

Verona HGP141 short post with GGP141/142 bollard

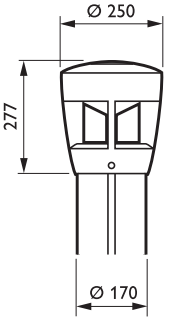
Product ID	EOC
GGP141 OPEN POST TOP	217185 00
GGP142 OPEN POST TOP / LIGHT EYE	217192 00



GGP141/142

Verona HGP142 medium post with GGP146/147 bollard

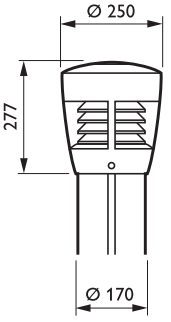
Product ID	EOC
GGP143 CONE POST TOP	217208 00



GGP143

Verona HGP143 high post with GGP141/145 bollard

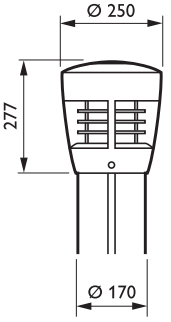
Product ID	EOC
GGP144 LOUVRE POST TOP	217215 00
GGP145 LOUVRE POST TOP / LIGHT EYE	217222 00



GGP144/145

Verona HGP141 short post with GGP143 bollard

Product ID	EOC
GGP146 LAMELLA POST TOP	217239 00
GGP147 LAMELLA POST TOP / LIGHT EYE	217246 00



GGP146/147

VivaraZON

VivaraZON – aluminium bollard

VivaraZON is a vandal resistant, aluminium bollard range for ground mounted applications. It offers a choice of two distinctive designs suitable for discharge and fluorescent lamps: round top with clear cover (HCP170) and flat top with innovative ZON diffuser (HCP171). A highly reflective aluminium internal louvre ensures glare free light distribution.

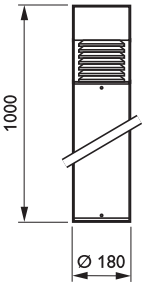
www.philips.co.uk/lighting

	VivaraZON
Type	HCP170 (round top with clear cover version) HCP171 (flat top with ZON diffuser version)
Light source	HID: 1 x SON / 70 W 1 x CDO-ET / 70 W Fluorescent (integrated): 1 x MASTER PL-Electronic Polar E27 / max 23 W
Lamp included	No
Optic element	Internal louvre (LO)
Optical cover	Polycarbonate cover, clear (PCC) Polycarbonate cover, prismatic (PCP)

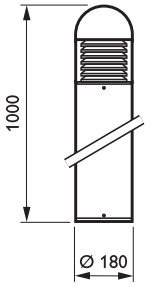
Materials and finishing	Column: aluminium, black powder baked Diffuser: polycarbonate Bolts: steel
Installation	Fixation on a dedicated mounting flange with three anchor bolts (to be cast in concrete base) All necessary fixation parts are included
Accessory	ZON lens GCP170 PCP, and clear lens GCP170 PCC
Remarks	ZON = Zone Optimised leNs unique technology
Main applications	Urban and pedestrian areas, promenades, city centres, squares, parks

IP 54 IK 10

CE



HCP171 +
GCP170



HCP170 +
GCP170

VivaraZON HCP171 flat top bollard with GCP170 ZON diffuser (PCP)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HCP171 SON70W 230-240V LO PCP	8.20	140391 00
HCP171 MAX100W-E27 LO PCP	7.00	140407 00

Please contact your local Philips representative for additional configurations

VivaraZON HCP170 round top bollard with GCP170 clear diffuser (PCC)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HCP170 SON70W 230-240V LO PCC	7.80	140360 00
HCP170 MAX100W-E27 LO PCC	6.60	140377 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
GCP170 PCP	ZON diffuser (PCP)	140421 00
GCP170 PCC	Clear diffuser (PCC)	140414 00

Vivara

Vivara – economical bollard

Vivara is an economical, vandal resistant bollard range for ground mounting applications. There is a choice of two sizes, both available with a variety of discharge and compact fluorescent lamps. The internal louvre and tinted transparent diffuser ensure glare free light distribution.

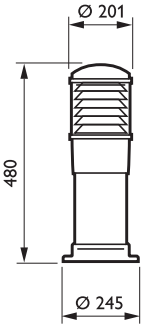
www.philips.co.uk/lighting

	Vivara
Type	HGC136 (low version) HGC137 (high version)
Light source	HID: 1 x SON-I / 70 W Fluorescent (integrated): 1 x MASTER PL-Electronic Polar E27 / max. 23 W
Lamp included	No

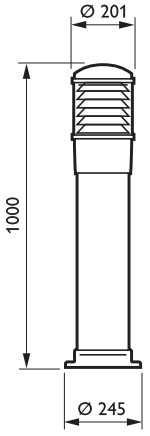
Materials and finishing	Optical unit: polycarbonate, UV-stabilised Diffuser: polycarbonate Internal louvre: aluminium, white painted Gear tray: reinforced polypropylene Column: extruded PVC Fixation anchors: zinc-coated steel Black polyurethane finish
Installation	Fixation on a dedicated mounting flange with four anchor bolts (to be cast in concrete base) All necessary fixation parts are included
Main applications	Urban and pedestrian areas, promenades, city centres, squares, parks

IP 54 IK 10

CE



HGC136



HGC137

Vivara HGC136 bollard, low version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGC136 MAX75W-E27	5.60	275031 00
HGC136 SON-I-70W 240V	6.05	824260 00

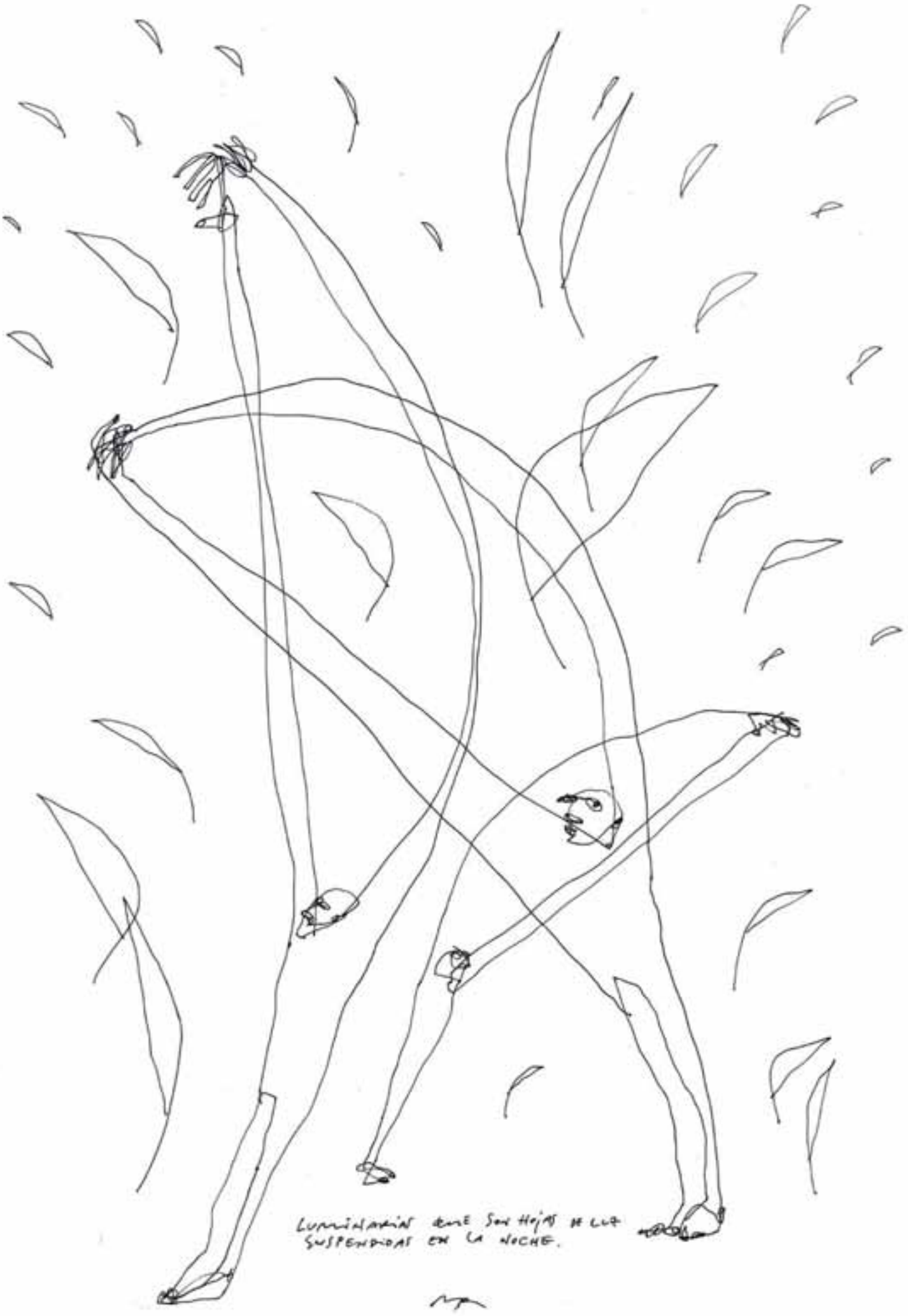
Please contact your local Philips representative for additional configurations

Vivara HGC137 bollard, high version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGC137 MAX75W-E27	8.10	275079 00
HGC137 SON-I-70W 240V	7.90	824284 00

Please contact your local Philips representative for additional configurations


LUMINARIAS DENTRO SON HOJAS DE LUZ
SUSPENDIDAS EN LA NOCHE.

Customised solutions

Turning creative ideas into reality

Light is, above all, an opportunity to create space, manage moods and improve the quality of life. An opportunity that is as broad as your imagination.
The ideal solution for any lighting application has to be based upon balanced consideration of numerous factors – the materials being illuminated, the most appropriate lamp technology, the aesthetics of the setting, environmental constraints, etc.
Therefore, at Philips we have dedicated application and product development specialists who – working together with our customers – co-create tailor-made lighting solutions.
In this way, we enable architects and lighting designers to turn their creative ideas into reality.
The next pages show only a small selection of this creative idea that became reality.

Project: Plaza de Indautxu, Bilbao, Spain
Architect: Ander Marquet Ryan, JAAM architecture partnership

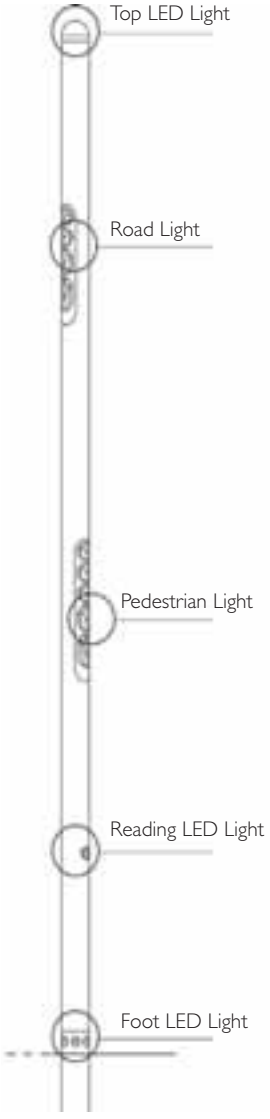
NXP research centre Caen, France

Multipole

Multipole is ideal for custom-made lighting solutions.
One Multipole product fulfils the multiple application requirements that arise in everyday city life.

Multipole is a multi-functional lighting concept that integrates state-of-the-art technologies, such as LEDs, and intelligent, dynamic lighting control systems. This modular and fully integrated lighting system offers – within one neutrally designed pole – five different lighting modules:

- Top Light provides dynamic and coloured guidance light
- Road Light provides dimmable and uniform functional light
- Pedestrian Light provides sensor-activated and localised light
- Reading Light provides personal and focused interactive light
- Foot Light provides dynamic and coloured decorative light



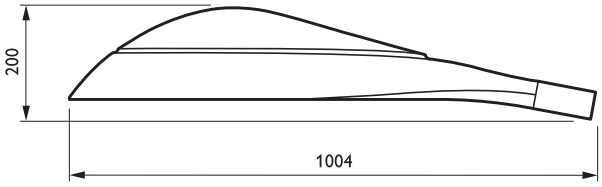
Dunkerque, France

Bellevue

The line of the lantern was designed to represent a mast blooming.
This fluidity and simplicity of shape makes the ensemble timeless.

Body: pure cast aluminium.
IP: IP65 (optic), IP23 (gear)
Lamps: SON-T 100 W, 150 W, 250 W
CDO-TT: 70 W, 150 W, 250 W
CosmoPolis CPO-T: 90 W, 140 W

Other lamps and finishes available on request.



Carré Senart, France

St Herbain, France

Montpellier, France

LightTube

The LightTube integrates a light-conductive film for HID or LED light sources with intelligent, dynamic lighting control systems.
These tailor-made luminaires are developed around a vast choice of tube diameters, heights, materials and finishes.

Courtrai, Belgium

Montpellier, France

St Rambert, France

Pandrup, Denmark

Project Luminaires

Nordic design for urban lighting

Over the years Philips has developed a close working relationship with Danish architects. The Asklepios and Aether luminaires are all products of this co-operation.

The objective was for us to share our vision of urban lighting and to generate unique lighting concepts that will enable us to fulfil our mission to improve the quality of life in the city.

The Asklepios and Aether luminaires have been developed in collaboration with the architects office Schmidt, Hammer & Lassen K/S. These two related families comprise a 3.5-metre-high street light and a bollard, which are made of anodized extruded aluminium and are suitable for use with energy-saving compact fluorescent lamps.

European flavour

No two cities are the same, so every city has different requirements in terms of style of street lighting and pedestrian luminaires.

Arken is ideal as a pedestrian partner to complement street lighting. Its simple conical shape, integrated gear, wide choice of lamps and combination of diffuser and indirect lighting ensure it will tie in seamlessly with your project. Helios, with its contemporary design and QL lamps is a landmark element for pedestrian zones in the city centre. With its unique design, Triangel combines efficient street lighting with guidance lighting above the housing.

Asklepios

Asklepios – urban minimalism

Asklepios is a range of column and bollard luminaires with a contemporary square-cut design. The clean lines bring modern minimalist aesthetics to the urban environment, creating soft directional effects and a pleasant ambience.

Design: Schmidt, Hammer & Lassen

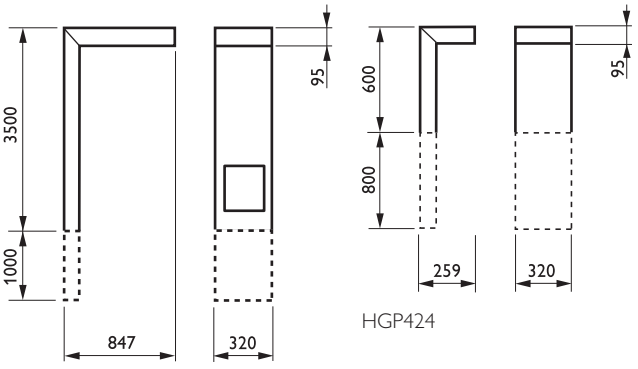
www.philips.co.uk/lighting

	Asklepios
Type	HGP424 (bollard version) HGP425 (column version)
Light source	Compact fluorescent: HGP424 1 x MASTER PL-L 4 Pin / 2G11 / 18 W HGP425 1 x MASTER PL-T 4 Pin / GX24q-4 / 42 W
Lamp included	Yes (light colour 840)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP)

Materials and finishing	Housing and mast: extruded anodised aluminium Cover: polycarbonate, UV-stabilised Reflector: aluminium Screws: stainless steel
Installation	Embedded in concrete Luminaire supplied with embedded mounting root
Remarks	Design: Schmidt, Hammer & Lassen
Main applications	Shopping, pedestrian and residential areas, parks, gardens and waterfronts

IP 65 IK 10

CE



HGP424

HGP425

Asklepios HGP424 column luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP425 PL-T/4P42W/840 K HFP II	68.00	082776 00

Please contact your local Philips representative for additional configurations

Asklepios HGP425 bollard luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP424 PL-L18W/840 K HFP II	20.50	082769 00

Please contact your local Philips representative for additional configurations

Aether

Aether – square-cut aesthetic

Aether is a range of column and bollard luminaires with a contemporary square-cut design. The clean lines bring modern minimalist aesthetics to the urban environment, creating soft directional effects and a pleasant ambience.

Design: Schmidt, Hammer & Lassen

www.philips.co.uk/lighting

	Aether
Type	HGP428 (column version) HGP429 (bollard version)
Light source	Compact fluorescent: HGP428: 2 x MASTER PL-L 4 Pin / 2G11 / 40 W HGP429: 2 x MASTER PL-L 4 Pin / 2G11 / 24 W
Lamp included	Yes (light colour 840)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP)

Materials and finishing	Housing and mast: extruded anodised aluminium Cover: polycarbonate, UV-stabilised Louvres: acrylic Screws: stainless steel
Installation	Embedded in concrete Luminaire supplied with embedded mounting root
Remarks	Design: Schmidt, Hammer & Lassen
Main applications	Shopping, pedestrian and residential areas, parks, gardens and waterfronts

IP 65 IK 10

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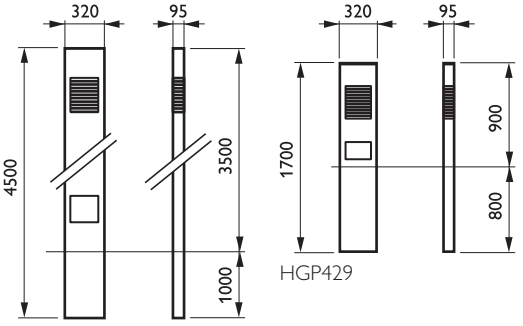

HGP429

HGP428

Aether HGP428 column luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP428 2xPL-L40W/840 HFP II PL3500	51.50	092843 00

Please contact your local Philips representative for additional configurations

Aether HGP429 bollard luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HGP429 2xPL-L24W HFP II PL900	21.00	084060 00

Arken

Arken – visual comfort

Arken is a luminaire with integrated gear for a variety of post and wall mounting applications. It provides rotationally symmetrical lighting by means of its top reflector, while the conical opal glass diffuser creates a soft and glare-free light effect. Designed in co-operation with the Office of City Architecture Copenhagen, Arken is particularly suitable for contemporary urban environments.

www.philips.co.uk/lighting

	Arken
Type	HPS930
Light source	HID: 1 x MASTER SDW-T / PG12-1 / 100 W 1 x MASTER CityWhite CDO-ET / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x SON-I / E27 / 70 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-4 / 42 W
Lamp included	No
Gear	Electromagnetic (low loss), 230 or 240 V / 50 Hz: Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP)
Ignitor	Semi-parallel, self-stopping (ST)

Materials and finishing	Housing: chill-cast aluminium, powder-coated RAL 9007 Bowl: polycarbonate, UV-stabilised, impact-resistant Frame: chill-cast/anodised aluminium, RAL 7021 Diffuser: opal glass Cover: polycarbonate/polyester blend, UV-stabilised Other RAL colours available on request
Installation	Post top mounting: axial entry: Ø 114 mm Recommended mounting height: 3.5 m Equipped with a 4.5 m (2 x 1 mm²) installation cable
Accessories	Wall mounting bracket
Main applications	Urban, shopping and residential areas, city centres, squares

IP 65 IK 10

CE

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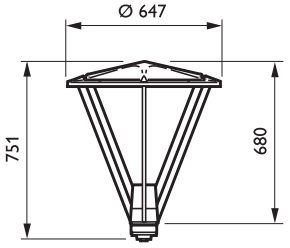


HPS930

Arken HPS930 urban-lighting luminaire

Preferred selection

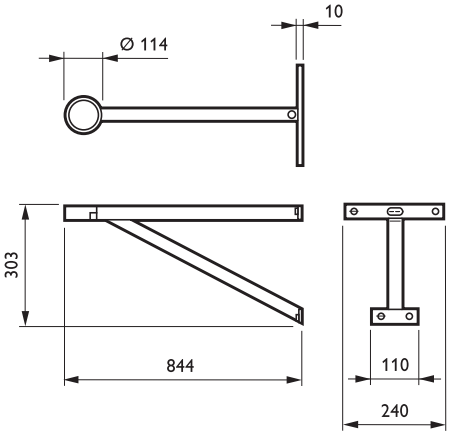
Product ID	Weight (kg)	European Order Code (EOC)
HPS930 MAX200W-E27 II	13.00	016115 00
HPS930 PL-T/4P42W HFP II	12.40	016146 00
HPS930 SON-I-70W IC II	14.00	016139 00
HPS930 CDO-TT70W IC II ST	13.20	016153 00
HPS930 SDW-T100W IC II	14.00	016160 00

Please contact your local Philips representative for additional configurations

Accessories

Arken HPS930 urban lighting luminaire with ZPS930 wall mounting bracket (MBW)

Product ID	EOC
ZPS930 MBW	080307 00



ZPS930 MBW

Helios

Helios – symbolic luminaire

Helios is a luminaire of elegant, contemporary design, symbolising the Olympic flame. Post and luminaire form a balanced whole, the dedicated spigot allowing the use of thicker, more imposing columns. Made of impact resistant materials, Helios is suitable for post top mounting at a height of about 3 - 4 metres or wall mounting with dedicated brackets. The internal diffuser ensures visual comfort without glare.

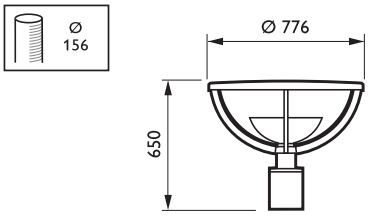
www.philips.co.uk/lighting

	Helios
Type	HPS900
Light source	HID: 1 x MASTERColour CDM-T / G12 / 70 W 1 x MASTER SDW-T / PG12-1 / 50, 100 W Induction lamp system: 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (light colour 827, 830, 840) No
Gear	Electromagnetic (low loss), 240 V / 50 Hz: Parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF) Electronic (EB)

Materials and finishing	Frame and housing: chill-cast aluminium Bowl: polycarbonate, UV-stabilised, impact-resistant Diffuser: acrylic, opal Cover: glass-fibre-reinforced polyester
Installation	Post top on a 156 mm column Equipped with a 4.5 m (2 x 1 mm^2) installation cable Recommended mounting height: 3.5 m
Accessories	Wall mounting bracket, ZWP900 MBW
Main applications	Urban, residential, shopping and pedestrian areas, commercial and business centres, parks, footpaths

IP 55 IK 10

CE



HPS900

Helios HPS900 urban lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HPS900 CDM-T70W EB II	19.20	007908 00
HPS900 QL85W/830 HF II	19.50	000152 00
HPS900 QL85W/840 HF II	19.50	080703 00
HPS900 SDW-T100W IC 240V II	21.40	083247 00

Please contact your local Philips representative for additional configurations

Accessories

Helios HPS900 urban lighting luminaire with ZPS900 wall mounting bracket (MBW)

Product ID	EOC
ZPS900 MBW	003566 00

Triangel

Triangel – lighting with distinction

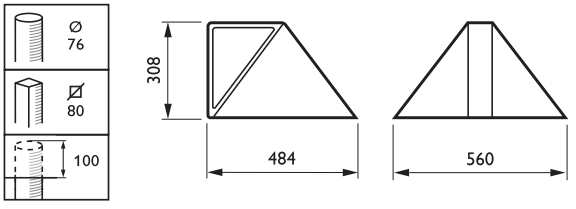
Triangel is an urban lighting luminaire that combines a memorable design with a robust, durable construction. Featuring a highly distinctive lit triangle perpendicular to the housing for visual guidance and secondary lighting, as well as high efficiency reflectors, the vandal resistant Triangel is suited to a variety of different applications.

Triangel offers a wide range of mounting options, at a recommended mounting height of 3 to 5 metres, as well as maintenance friendly access via a hinged glass cover – no tools required.

www.philips.co.uk/lighting

	Triangel
Type	2TR480
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ / 45, 60, 90, 140 W 1 x MASTERColour CDM-T / G12 / 70 W 1 x MASTERColour CDO-TT / E27 / 70 W 1 x MASTER SDW-T / PG12-1 / 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-T / E27 / 50, 70 W 1 x SON-T / E40 / 100, 150 W Compact fluorescent: 1 x or 2 x MASTER PL-C 4 Pin / G24q-3 / 26 W 2 x MASTER PL-L 4 Pin / 2G11 / 18 W Induction lamp system: 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (K or light colour 840) No
Gear	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF) High Frequency Performer (HFP) Electronic (EB)

Optic	CosmoPolis open CT-POT optic R140 (OR) Perforated mask (MK)
Optical cover	Clear glass (GC) Frosted glass (GF)
Options	Lighting controls: dimming switch (SW)
Materials and finishing	Housing: die-cast aluminium Cover: tempered glass
Colour	Dark grey, RAL 7021 Other RAL colours available on request
Installation	Post-top mounting: axial entry Ø 60 / 76 mm Dedicated accessories available for different mounting possibilities Tilt angle: 0° Recommended mounting height: 3 - 5 m
Accessories	Mounting brackets for post top and wall mounting Reduction piece 76/60 mm for 60 mm poles Mounting arms, mounting holders, gasket, decorative cover, adapter
Main applications	Shopping, urban, pedestrian and residential areas, roads, area lighting, parks, gardens, city centres and squares



2TR480

Triangel 2TR480 urban lighting luminaire with bracket (9TR480 AU-E) and clear glass (GC) or frosted glass (GF) cover

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
2TR480 1xCPO-TW45W K EB II OC GC 7021	9.85	238644 00
2TR480 1xCPO-TW60W K EB II OC 7021	9.85	219797 00
2TR480 1xCPO-TW140W K EB II OC 7021	9.62	219803 00
2TR480 1xSON-T50/70W IC II GC 7021	12.11	117710 00
2TR480 1xSON-T50/70W IC II GF 7021	12.42	035687 00
2TR480 1xSON-T100W IC II GC 7021	12.74	035571 00
2TR480 1xSON-T100W IC II GF 7021	12.70	035694 00
2TR480 1xCDM-TT70W IC II GC 7021	13.24	176694 00
2TR480 1xCDM-TT70W IC II GF 7021	10.23	176700 00
2TR480 2xPL-L18W IC II GC 7021	11.19	057917 00
2TR480 2xPL-L18W IC II GF 7021	12.04	057993 00
2TR480 1xQL55W/840 HF I GC 7021	11.02	128334 00

Please contact your local Philips representative for additional configurations

Accessories

Pole mounting bracket, single

Product ID	EOC
9TR480 AU-E RAL7021	074297 00
9TR480 AU-Z RAL7021	074303 00
9TR480 UES-76/60	074327 00
9TR480 MBW RAL7021	074334 00

Nordenham, Germany

Road and tunnel lighting

Lighting the road ahead

With over one hundred years of experience and expertise in the field of road and tunnel lighting, we are in an ideal position to analyse market trends and come up with appropriate solutions.

Our business is to apply technological innovation to the design and development of the road and tunnel lighting products of the future, in response to the wishes and needs of our customers.

All Philips luminaires are optimised in terms of wattage, in order to provide precisely the right level of light in the right place at the right time. Compact, aesthetically pleasing luminaires reflect the increasing importance being attached to the daytime appearance of light points.

The growing popularity of high-quality white light sources is being met by a range of special lamps (CosmoPolis system, CDM-T, CDO-TT, PL-T), and optics are being adapted to the new lamps, further improving performance. Better materials and IP66 are contributing to the durability of installations, while the increasing use of longlasting lamps, electronic gear and telemanagement is optimising running costs.

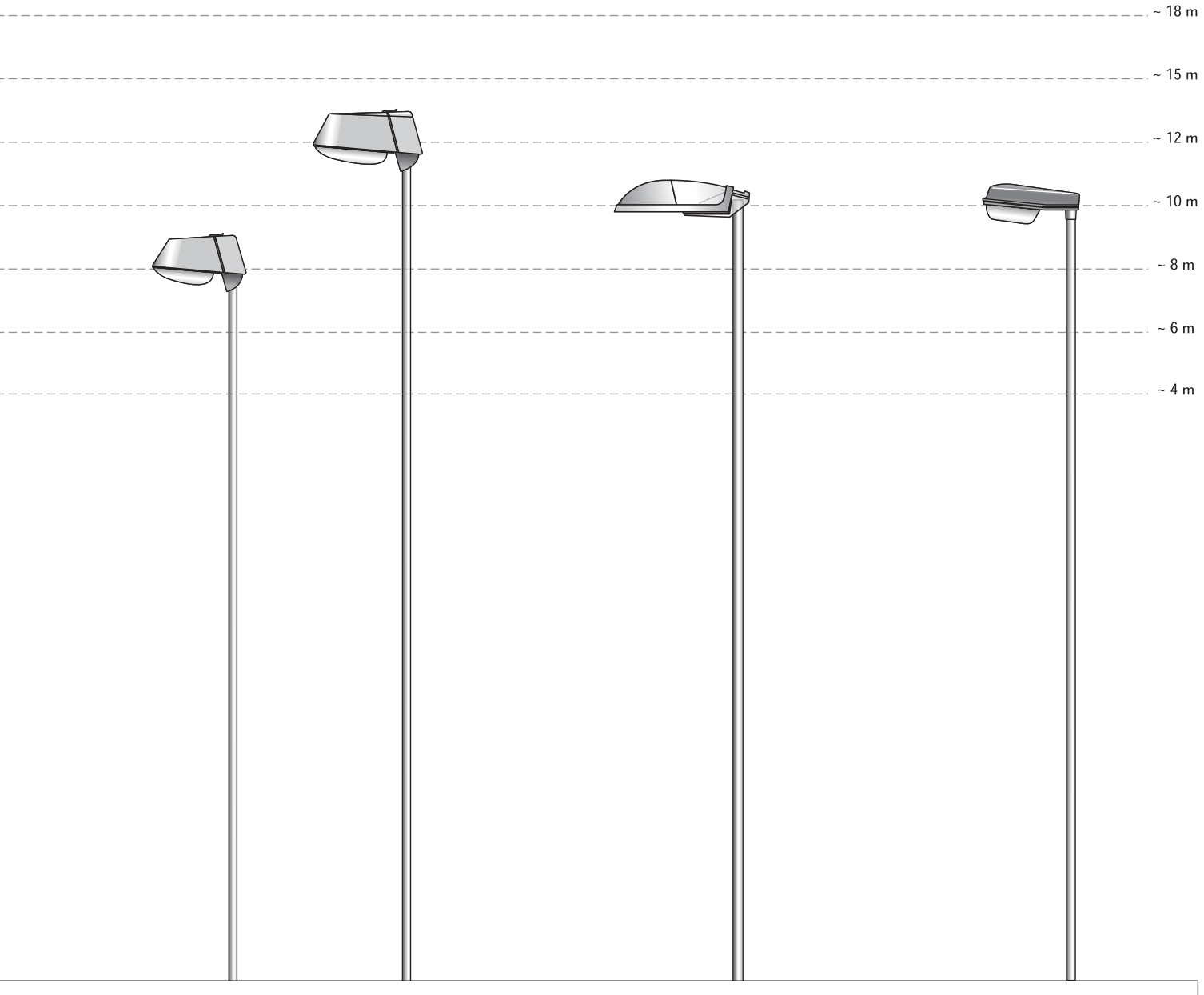
The best possible cost/light quality ratio

In view of the constant pressure on city maintenance budgets, it makes sense to opt for luminaires that are easy to instal and maintain. We recommend a predictive maintenance policy, which argues in favour of the installation of long-life lamps and luminaires.

Respect for the environment

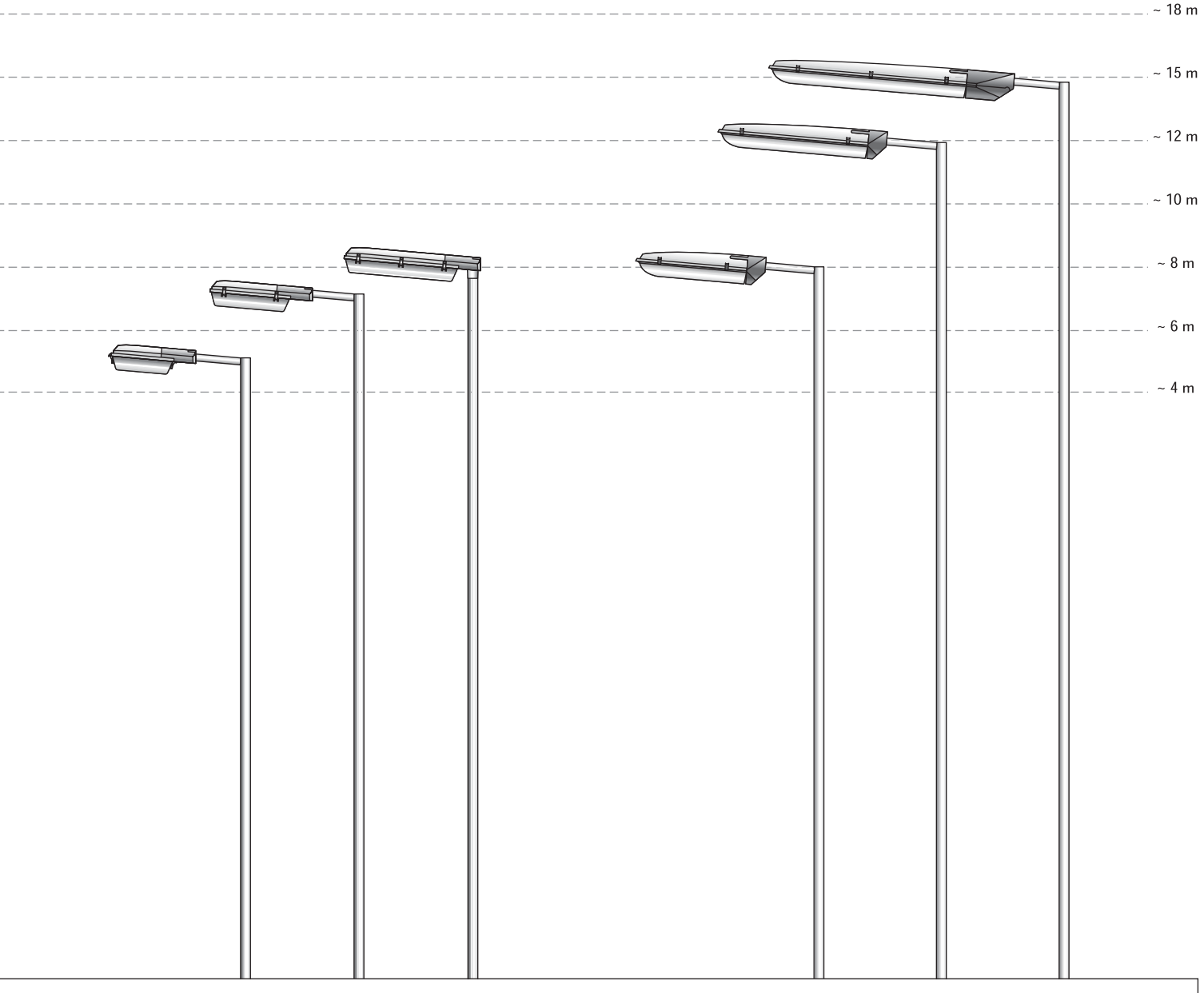
Care for the environment means using lamps that are free of heavy metals and luminaires that are made without glue from recyclable components and equipped with reflectors that reduce light pollution whilst maximising the efficiency of the lighting installation. All our systems are produced in factories which are ISO 14001-certified.

	Modena			Iridium			Koffer[2]	
	SGP680	SGP681	SGP682	SGS252/452	SGS253/453	SGS254/454	SGP070	SGP100
Page	3.18	3.13	3.16	3.24	3.28	3.32	3.44	3.46



TrafficVision		Selenium	SGS203
SGS305	SGS306	SGP340	
3.53	3.55	3.59	3.63

	AluRoad		Streetfighter		Residium		
	SRP221	SRP222	SGS101	SGS102	FGS223	FGS224	FGS225
Page	3.68	3.69	3.74	3.75	3.77	3.78	3.79



FGS103	FGS104	FGS105	SRS201 (90W)	SRS201 (135W)	SRS201 (180W)
3.82	3.82	3.82	3.86	3.86	3.86

Luminaire	Type	Page	Ingress protection (IP value)	Insulation class	Standard tilt angle post top (°)	Adjustable tilt angle (°)	Adjustable light distribution	Max windage area by side (m^2)	Max SCx values by side (m^2)	Side entry spigot (mm) Ø	Post top spigot (mm) Ø
Modena											
	SGP681	3.13	66	I/II	5	-	7 positions	0.154	0.065	42-60	42-60
	SGP682	3.16	66	I/II	5	-	7 positions	0.195	0.085	42-60	42-60
Mini Modena											
	SGP680	3.18	66	I/II	10	0, -5, -10 (intern)	6 Positionen	-	0,046	42-48	60-76
Iridium											
	SGS252/452	3.24	66	I/II	5	-	7 positions	0.12	0.059	34-60	60-76
	SGS253/453	3.28	66	I/II	5	-	7 positions	0.15	0.063*1	34-60	60-76
	SGS254/454	3.32	66	I/II	5	-	7 positions	0.20	0.063	42-60	60-76
	SGS451/BGS451	3.34	66	I/II	10	0, -5, -10	6 positions	-	0.032	42-48	60-76
Koffer[2]											
	SGP070	3.44	66	I/II	10	-	5 positions	0.08	-	34-48	60-76
	SGP100	3.46	66	I/II	10	-	7 positions	0.11	-	48-60	60-76
Mini Koffer[2]											
	SGP060	3.50	66	I/II	10	0, -5, -10 (intern)	6 positions	-	0.044	42-48	60-76
TrafficVision											
	SGS305	3.53	66/43	II	3	0-12 side-entry	19 positions	0.16	0.102	42-60	60-76
	SGS306	3.55	66/43	II	3	0-12 side-entry	19 positions	0.20	0.124	42-60	60-76
Selenium											
	SGP340	3.59	66	I/II	5	0, 5 and 15	5 positions	0.14	0.077	48-60(34)*2	48-60(76)*2
SGS203											
	SGS203	3.63	65/43	I/II	5	-	5 positions	0.14	0.044	34-60*3	60-76*3
AluRoad											
	SRP221	3.68	65	I/II	15	-	-	0.065	0.022	-	-
	SRP222	3.69	65	I/II	15	-	-	0.08	0.027	-	-
Malaga											
	SGS101	3.74	65/43	II	15	-	-	0.09	0.04	42-60(34)*2	42-60(76)*2
	SGS102	3.75	65/43	II	15	-	-	0.15	0.06	42-60(34)*2	42-60(76)*2
Residium											
	FGS223	3.77	65/43	I	-	5 and 15	-	0.14	0.055	42-60(34)*2	42-60(76)*2
	FGS224	3.78	65/43	I	-	5 and 15	-	0.16	0.057	42-60(34)*2	42-60(76)*2
	FGS225	3.79	65/43	I	5	-	-	0.19	0.059	34-60	60-76
FGS103/104/105											
	FGS103	3.82	65/43	I	5	-	-	0.09	0.03	42-60	60-76
	FGS104	3.82	65/43	I	5	-	-	0.11	0.04	42-60	60-76
	FGS105	3.82	65/43	I	5	-	-	0.14	0.05	42-60	60-76
SRS201											
	90 W version	3.86	65/43	I	5	-	-	0.21	0.05	60	-
	135 W version	3.86	65/43	I	5	-	-	0.28	0.09	60	-
	180 W version	3.86	65/43	I	5	-	-	0.27	0.124	60	-
Tunlite											
	CRX202	3.93	66	I/II*4	-	-	no	-	-	-	-
	CRX203	3.93	66	I/II*4	-	-	yes*5	-	-	-	-
	CRX204	3.93	66	I/II*4	-	-	yes*5	-	-	-	-
	CRX206	3.93	66	I/II*4	-	-	yes*5	-	-	-	-

SON-I/E	SON-T	SOX-(E)	PL-L	PL-T	CDO-ET CDO-TT	CDM-T	QL	TL-D	CPO- TW	High power LED	Electronic Ballast	Louvres
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*1 SCx - value with Louvres: 0.081

*2 Available on request

*3 Various spigot adapters to be ordered separately

*4 Class II for SON-T lamps only

*5 For T4 and T5 optics only

The Mini-Cosmo LED platform

Mini Iridium LED

Mini Koffer[2]

Mini Modena

The Mini-Cosmo LED platform – lamp holders for the future.

The MASTER Cosmopolis lamp has now become a household name in the world of outdoor lighting. Many luminaires are equipped with this in combination with the well-known R60 optics.

From the current efforts to achieve further reductions in energy consumption, CO_2 emissions and light pollution and in 'perfect design' around the CosmoPolis system, three new mini luminaires will be available from 2009: Mini Modena, Mini Koffer² and Mini Iridium.

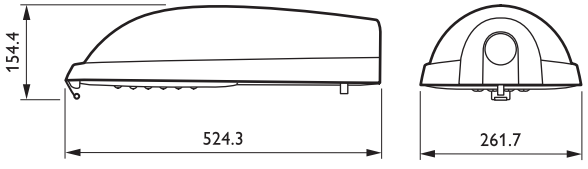
Optic

In addition, a new revolutionary optic has been designed for the superior diffusion of the attractive white CosmoPolis light in these super-compact luminaires, the patented VX2 optic.

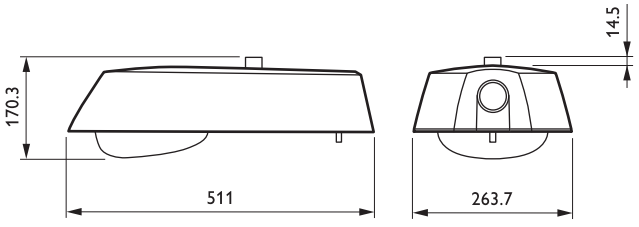
This makes it possible to work with much greater post spacings and fitting heights whilst maintaining the required light diffusion.

VX2 optic

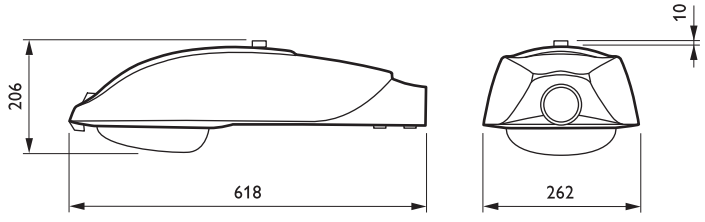
The most well-known of these three luminaires – the mini Iridium – will be the first to be available in 2009 in a 'future-proof' LED design.



BGS451 (LED) and SGS451 (HID)

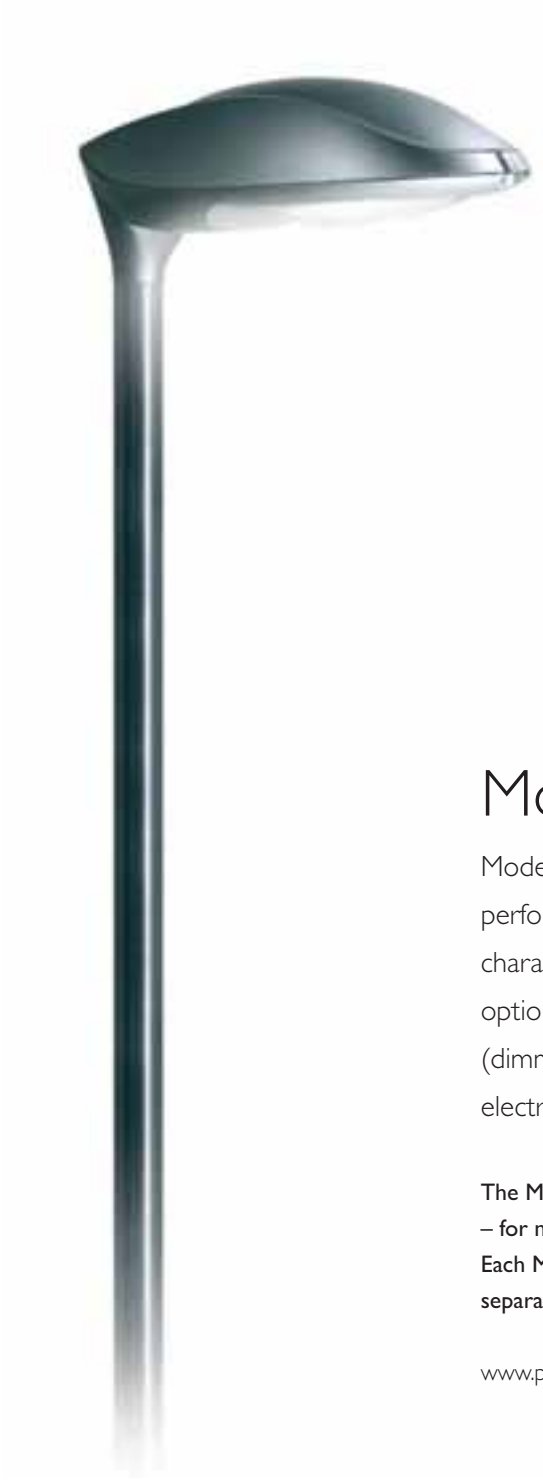


SGP060 (HID)



SGP680 (HID)

Modena



Modena – beauty and efficiency

Modena is a road lighting luminaire that combines elegance and excellent lighting performance. Its fluid, rounded form gives it a strong and distinctive visual character. Modena offers a wide choice of optical, electrical and mechanical options to satisfy all road applications. It allows considerable energy savings (dimming with standard dimming devices or stand-alone Chronosense system; electronic ballast or telemanagement system) and is easy to install and maintain.

The Modena family accommodates CosmoPolis white light technology and comes in three sizes – for mounting heights from 3.5 to 12 metres.
Each Modena luminaire is fully recyclable; only the lamp and ballast have to be recycled separately.

www.philips.co.uk/lighting

	Modena
Type	SGP681 (small version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 70, 150 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W 1 x SON / E27 / 50, 70 W
Lamp included	Yes (K) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Closed CT-POT (CR) optic for CosmoPolis (all ME-classes), CDO and SON lamps, "Opti-C" concept with double IP-66, simplify cleaning of the optic and improve lamp position precission Closed XT-POT (CX) or SON lamps, gives extra wide spacing when the mast-height/road-width ratio is e.g. 10/7 or higher. "Opti-C" concept
Optical cover	Polycarbonate bowl (PC) vandal-resistant Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on adition to GB the self-cleaning technology improve the maintenance factor Flat glass (FG), reduce glare and improve night nuisance Flat glass with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)

Options	Lighting controls: Chronosense (CH) Light regulation: Lumistep for CosmoPolis (LS-6 / 8 / 10) Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via Telemanagement Starsense 1-10Vdc (D6) Dimming via external communication 1-10Vdc (D7) Filter coil (F) included Fuse (FU) included
Materials and finishing	Canopy, frame, spigot and closing clip: die-cast aluminium Optics: high purity aluminium Optical covers: polycarbonate bowl, UV-stabilised or toughened glass IK08
Colour	Grey (GR) Other RAL or AKZO Sablé colours available on request
Installation	Side entry mounting: lateral entry Ø 42 / 60 mm Post top mounting: axial entry Ø 42 / 60 mm Recommended mounting height: 10 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.154 m^2 Max SCx values by side: 0.065 m^2
Maintenance	Tool-less opening from above
Accessories	Front and back louvres, ZGS253 L-FRONT resp ZGS253 L-BACK
Remarks	Designed to be dismantled completely, all parts can be recycled
Main applications	Roads, crossings, roundabouts, industry

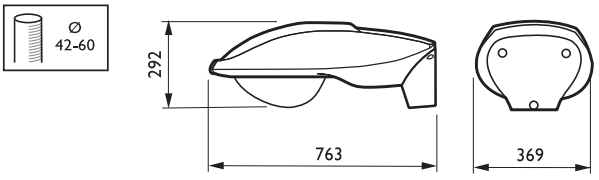
IP66 lamp and gear compartment

Modena SGP681 road lighting luminaire

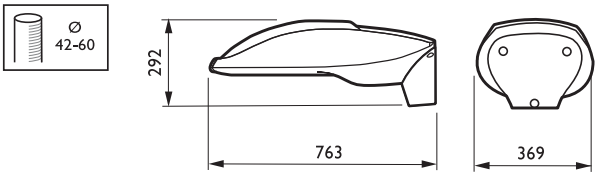
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP681 CPO-TW45W K EB 240V I OC GB AL GR	11.01	963416 00
SGP681 CPO-TW45W K EB 240V I OC PC AL GR	9.90	963423 00
SGP681 CPO-TW60W K EB 240V I OC FG AL GR	10.99	963430 00
SGP681 CPO-TW60W K EB 240V I OC GB AL GR	11.01	963447 00
SGP681 CPO-TW60W K EB 240V I OC PC AL GR	9.90	963454 00
SGP681 CPO-TW90W K EB 240V I OC FG AL GR	10.99	963461 00
SGP681 CPO-TW90W K EB 240V I OC GB AL GR	11.01	963478 00
SGP681 CPO-TW90W K EB 240V I OC PC AL GR	9.90	963485 00
SGP681 CPO-TW140W K EB 240V I OC FG AL	10.99	963492 00
SGP681 CPO-TW140W K EB 240V I OC GB AL	11.01	963508 00
SGP681 CPO-TW140W K EB 240V I OC PC AL	9.90	963515 00
SGP681 SON-T70W K EB 240V I CR FG AL GR	10.99	963522 00
SGP681 SON-T70W K EB 240V I CR GB AL GR	11.01	963539 00
SGP681 SON-T70W K EB 240V I CR PC AL GR	9.90	963546 00
SGP681 SON-T100W K EB 240V I CR FG AL GR	10.99	963553 00
SGP681 SON-T100W K EB 240V I CR GB AL GR	11.01	963560 00
SGP681 SON-T100W K EB 240V I CR PC AL GR	9.90	963577 00
SGP681 SON-T150W K EB 240V I CR FG AL GR	10.99	963584 00
SGP681 SON-T150W K EB 240V I CR GB AL GR	11.01	963591 00
SGP681 SON-T150W K EB 240V I CR PC AL GR	9.90	963607 00
SGP681 CPO-TW45W K EB 240V I OC FG AL GR	10.99	963683 00

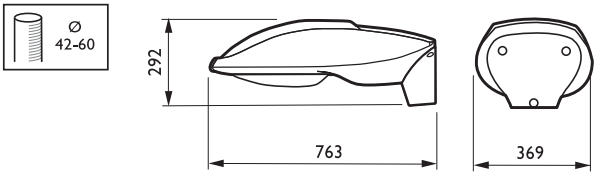
Please contact your local Philips representative for additional configurations



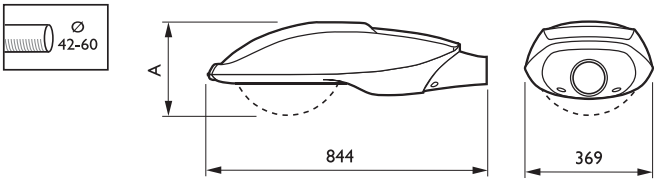
SGP681 PC



SGP681 FG



SGP681 GB



SGP681

	A
PC	290
GB	225
FG	221

	Modena
Type	SGP682 (large version)
Light source	HID: 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400 W
Lamp included	Yes (K) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Closed T-pot (CP) "Opti-C" concept with double IP-66, simplify cleaning of the optic and improve lamp position precission
Optical cover	Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on adition to GB the self-cleaning technology improve the maintenance factor Flat glass (FG), reduce glare and improve night nuisance Flat glass with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)

Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via external communication 1-10Vdc (D7) Filter coil (F) included Fuse (FU) included
Materials and finishing	Canopy, frame, spigot and closing clip: die-cast aluminium Optics: high purity aluminium Optical covers: toughened glass IK08
Colour	Grey (GR) Other RAL or AKZO Sablé colours available on request
Installation	Side entry mounting: lateral entry Ø 42 / 60 mm Post top mounting: axial entry Ø 42 / 60 mm Recommended mounting height: 15 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.195 m^2 Max SCx values by side: 0.085 m^2
Maintenance	Tool-less opening from above
Remarks	Designed to be dismantled completely, all parts can be recycled
Main applications	Roads, crossings, roundabouts, industry

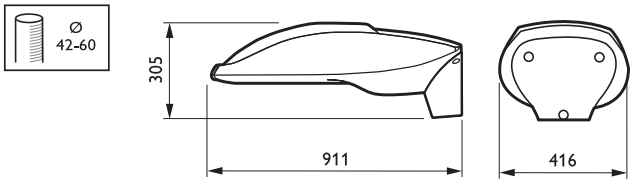
IP66 lamp and gear compartment

Modena SGP682 road lighting luminaire

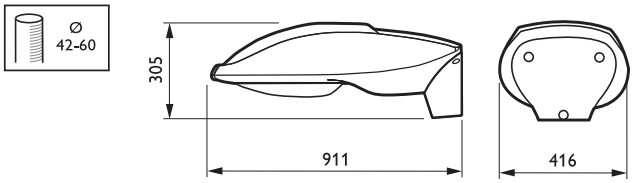
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP682 SON-T150W K 240V I CP FG AL GR ST	16.62	963614 00
SGP682 SON-T150W K 240V I CP GB AL GR ST	17.04	963621 00
SGP682 SON-T250W K 240V I CP FG AL GR ST	16.72	963645 00
SGP682 SON-T250W K 240V I CP GB AL GR ST	17.44	963652 00
SGP682 SON-T400W K 240V I CP FG AL GR ST	18.92	963669 00
SGP682 SON-T400W K 240V I CP GB AL GR ST	19.34	963676 00

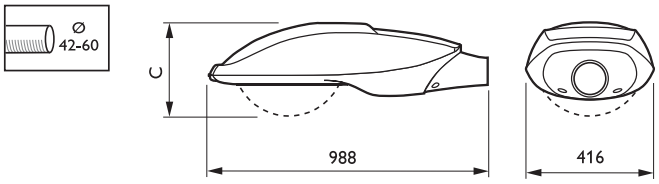
Please contact your local Philips representative for additional configurations



SGP682 FG



SGP682 GB



SGP682

	C
GB	303
FG	245

Accessories

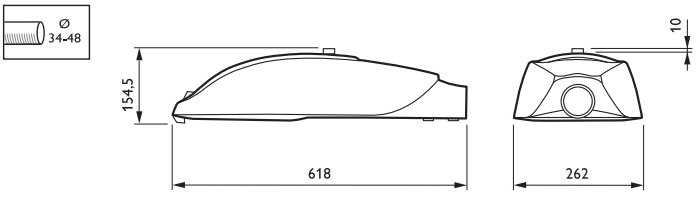
Easy-to-install front and back louvres attached to the Modena luminaire

Product ID	EOC
ZGS253 L-FRONT	833088 00
ZGS253 L-BACK	833095 00

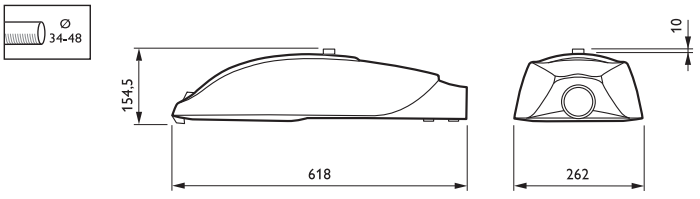
Thurrock, United Kingdom

	Mini Modena
Type	SGP680
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90 W
Lamp included	Yes (K)
Ballast (integrated)	Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	S-classes with V-recuperator (VX2) and without V-recuperator (VX1) Low ME-classes with V-recuperator (OC-V) and without V-recuperator (OC)
Optical cover	Glass bowl (GB) and with DynaClean coating (GBD) Flat glass (FG) and with DynaClean coating (FGD)
Cable gland	PG 13.5 mm
Options	Light regulation: Lumistep LS-6, LS-8 and LS-10 for 60 and 90 W versions Photocell: minicell 50lx (P3), minicell 30lx (P3-30) Pre-equipped cables without plug: cable lengths of: 9 m (C9000), 12 m (C12K), 14 m (C14K)
Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive Glass: thermally hardened, 6 mm thick Gasket: silicone rubber, heat-resistant Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: painted grey satin metalised, approx RAL9006 (GR) Frame: painted grey satin metalised, approx RAL9006 (GR) Spigot: painted grey satin metalised, approx RAL9006 (GR) Other RAL or AKZO Futura colours available on request for all parts (AL) or only the canopy
Installation	Fix spigot for side entry mounting: entry Ø 34-48 mm Operating temperature: - 20°C < T_a < 35°C (version 90 W max 25°C) Recommended mounting height: 3.5 to 6 m and 6 to 9 m Standard tilt angle post top: 10° standard Adjustable tilt angle: internal optic adjustment to -10, -5 and 0° Adjustable light distribution: 2 positions (VX2-optic version) and 7 positions (OC-optic version) Max SCx value by side: 0.044 m^2
Maintenance	From below by opening the housing with a single quick-release clip all supported by a retention cable Open optic for easy lamp replacement and quick lamp position and internal optic tilt adjustment Hinged front glass with quick-release clips for replacement Multiblock for easy cabling and electrical connection
Accessories	Dedicated mast and wall brackets available for different mounting possibilities Side entry reductor from 60 to 48 mm
Main applications	Residential streets, pedestrian and cycle paths and minor roads

IP66 IK07 650°C



Mini Modena SGP680 with glass bowl (GB)



Mini Modena SGP680 with flat glass (FG)

Mini Modena SGP680 with glass bowl (GB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP680 CPO-TW45W K EB I OC FG AL GR	5.71	960484 00
SGP680 CPO-TW45W K EB I OC FG AL GR P3	5.81	960408 00
SGP680 CPO-TW60W K EB I OC FG AL GR	5.71	960453 00
SGP680 CPO-TW60W K EB I OC FG AL GR P3	5.81	960378 00
SGP680 CPO-TW90W K EB I OC FG AL GR	5.81	960439 00
SGP680 CPO-TW90W K EB I OC FG AL GR P3	5.91	960354 00
SGP680 CPO-TW45W K EB I OC-V GB AL GR	6.07	960491 00
SGP680 CPO-TW45W K EB I OC-V GB AL GR P3	6.17	960415 00
SGP680 CPO-TW45W K EB IVX2 GB AL GR	6.13	960507 00
SGP680 CPO-TW45W K EB IVX2 GB AL GR P3	6.23	960422 00
SGP680 CPO-TW60W K EB I OC-V GB AL GR	6.07	960460 00
SGP680 CPO-TW60W K EB I OC-V GB AL GR P3	6.17	960385 00
SGP680 CPO-TW60W K EB IVX2 GB AL GR	6.13	960477 00
SGP680 CPO-TW60W K EB IVX2 GB AL GR P3	6.23	960392 00
SGP680 CPO-TW90W K EB I OC-V GB AL GR	6.17	960446 00
SGP680 CPO-TW90W K EB I OC-V GB AL GR P3	6.27	960361 00

Please contact your local Philips representative for additional configurations

Iridium

Iridium – lighting the road ahead

Iridium is a family of road lighting luminaires designed for three main applications – residential areas and minor roads, major roads, and motorways. Its modularity allows the integration of optical or electronic components in order to adapt to the changing demands of road lighting, e.g. the growing demand for white light and controls. Iridium ensures low cost of ownership thanks to its superior optics, dimming and telemanagement capability, and ease of installation and maintenance.

The Iridium luminaire family includes CosmoPolis and LED-enabled versions. It comes in four different sizes – for mounting heights from 3.5 to 12 metres – and is suitable for side entry and post top mounting. A full range of brackets ensures visual consistency between the column and the gently rounded luminaire, making Iridium a total solution.
Each Iridium luminaire is fully recyclable; only the lamp and ballast have to be recycled separately.

www.philips.co.uk/lighting

Mini Iridium LED BGS451

asimpleswitch.com

Mini Iridium SGS451 road lighting luminaire with flat glass (FG)

Iridium SGS252/452 road lighting luminaire with flat glass (FG)

Iridium SGS253/453 road lighting luminaire with flat glass (FG)

Iridium SGS254/454 road-lighting luminaire with flat glass (FG)

Iridium

Iridium – the evolution of road lighting

The never-ending evolution

Iridium provides the clearest illustration yet of the shift from the original purpose of "the right light in the right place" toward a "Green City light solution". Thanks to its worldwide design acceptance and its modularity (based on a wide range of sizes, materials and options), Iridium enables outdoor lighting authorities to introduce the most advanced green innovations while ensuring the best possible Total Cost of Ownership.

Sustainability

Iridium set the pace in the introduction of CosmoPolis, the most efficient white-light combination of lamps, electronic ballast and innovative optics for street lighting. Cities all over the world are replacing thousands of old, inefficient, low-quality lighting installations with Iridium and CosmoPolis.
Iridium's electronic ballast and dimming capability – with any type of outdoor lamp – also rationalises energy consumption.

Iridium helps protect the environment and the quality of life. Thanks to its variety of optics, Iridium can cover all configurations – from a highway to a pavement – and mounting heights, with perfect control and strict adherence to the latest lighting standards.

Maintenance

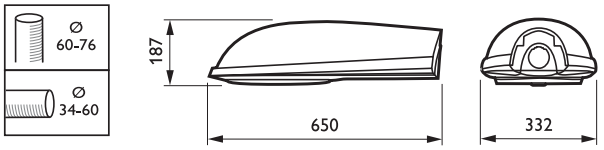
Iridium provides yet another example of Philips' commitment to creating maintenance-friendly lighting solutions – not only with its mechanical operations, fully recyclable glass, aluminium and plastic materials, tool-less access, absence of glue, and plug-and-socket connectors, but also with its electronic ballast and Starsense, the highly advanced Telemanagement solution. With Starsense, each individual light point can be switched on or off or dimmed as required, and automatic monitoring provides continuous feedback on the status of each lamp. The rationalisation and drastic simplification of lighting maintenance procedures reduces the operating cost of the system as a whole.

South Tyneside, England 25,000 lighting points with Iridium and CosmoPolis

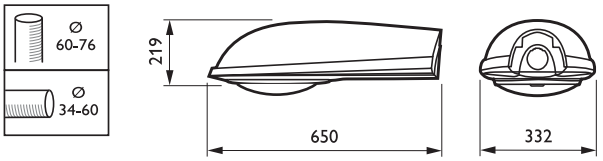
	Iridium
Type	SGS252 (glass-fibre-reinforced polyester canopy version) SGS452 (aluminium canopy version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100 W 1 x MASTERColour CDM-TT / E27 / 35, 70 W 1 x CDO-ET / E27 / 70 W 1 x CDO-ET / E40 / 100 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100 W 1 x SON-I / E27 / 50, 70 W 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-4 or 5* / 32, 42, 57 W *depends on wattage
Lamp included	Yes (K) No
Gear and compensation	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Closed CT-POT (CR) optic for CosmoPolis (all ME-classes), CDO and SON lamps, "Opti-C" concept with double IP-66, simplify cleaning of the optic and improve lamp position precision Open CT-POT (OR) "Opti-O" easy lamp access for CDO and SON lamps Closed R60 (CC) optic for CosmoPolis (S-classes and low ME-classes) "Opti-C" Cycle path optic (CYC). Only for GB and PC. Optimise for CosmoPolis low S-classes. Internal tilt possibility to improve spacing and reduce glare
Optical cover	Polycarbonate bowl (PC) vandal-resistant Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on addition to GB the self-cleaning technology improve the maintenance factor Glass flat (FG), reduce glare and improve night nuisance Glass flat with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)
Options	Lighting controls: Chronosense (CH) Light regulation: Lumistep for CosmoPolis (LS-6/8/10) Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Safety cable (SC) for plastic version, reduce maintenance risks
Materials and finishing	Canopy: glass-fibre-reinforced polyester with In-Mould Coating* (SGS252) or aluminium (SGS452) Frame: sand-blasted die-cast aluminium Optical covers: polycarbonate bowl, UV-stabilised or toughened glass IK08 Reflector: high-purity aluminium Gear-tray housing: polyamide Front clip: stainless steel
Colour	Grey (GR) Other RAL or AKZO colours available on request (e.g. 7035) Metallised frame (FM) for better appearance during life of the product
Installation	Side entry mounting: lateral entry Ø 34 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm (60/76) Recommended mounting height: 6-8 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable tilt optic: only in CYC-optic two positions; 0, -5° Adjustable light distribution: 7 positions Max windage area: 0.12 m^2 Max SCx values by side: 0.059 m^2

Maintenance	Tool-less opening from above, and disconnection of plug and socket
Accessories	Front and back louvres, ZGS252 L-FRONT, resp ZGS252 L-BACK Dedicated mast, wall and pole brackets and deco-elements available for different mounting possibilities

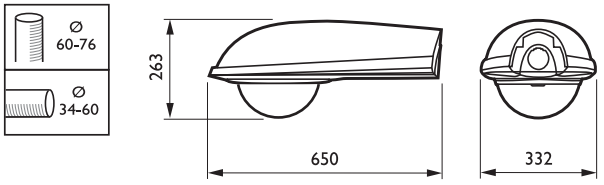
Remarks	* In-Mould Coating (IMC) prevents the glass fibres becoming exposed The integration of the CosmoPolis system (CPO-TW lamp, the high-efficient reflector, electronic ballast), a better spacing (in new installations) and less energy consumption (in new and existing installations) can be obtained CR optic has double IP66 classification for lamp compartment Compliant with EN 60598-2-3
Main applications	Residential and industrial areas, roads, bicycle paths



SGS252 FG



SGS252 GB



SGS252 PC

Iridium SGS252/452 road lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS252 SON-T70W K EB 240V I CR FG FM GR P1	7.24	956814 00
SGS452 SON-T70W K EB 240V I CR FG FM GR P1	8.43	956869 00

Please contact your local Philips representative for additional configurations

Iridium SGS252/452 road lighting luminaire with glass bowl (GB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS252 SON-T70W K EB 240V I CR GB FM GR P1	7.25	956821 00
SGS452 SON-T70W K EB 240V I CR GB FM GR P1	8.46	956876 00
SGS252 SON-T100W K EB 240V I OR GB FM GR P1	7.41	956845 00
SGS452 SON-T100W K EB 240V I OR GB FM GR P1	8.61	956890 00

Please contact your local Philips representative for additional configurations

Iridium SGS252/452 road lighting luminaire with polycarbonate bowl (PC)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS252 SON-T70W K EB 240V I CR PC FM GR P1	6.41	956838 00
SGS452 SON-T70W K EB 240V I CR PC FM GR P1	7.62	956883 00
SGS252 SON-T100W K EB 240V I OR PC FM GR P1	6.58	956852 00
SGS452 SON-T100W K EB 240V I OR PC FM GR P1	7.79	956906 00

Please contact your local Philips representative for additional configurations

Accessories

Easy-to-install front and back louvres attached to the Iridium luminaire

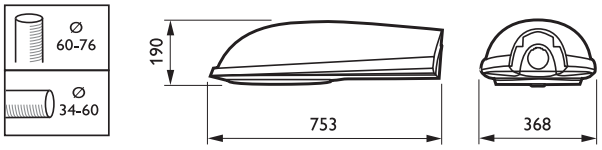
Product ID	EOC
ZGS252 L-FRONT	837581 00
ZGS252 L-BACK	837598 00

12,8

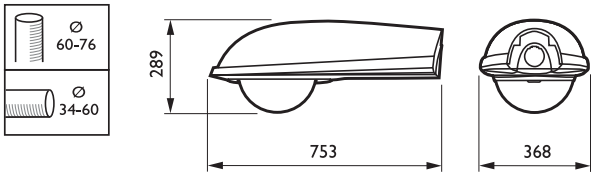
	Iridium
Type	SGS253 (glass-fibre-reinforced polyester canopy version) SGS453 (aluminium canopy version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W 1 x MASTERColour CDM-T / G12 / 70, 150 W 1 x CDO-ET / E27 / 70 W 1 x CDO-ET / E40 / 100, 150 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150 W 1 x SON-I / E27 / 50, 70 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / GX24q-3, 4 or 5* / 32, 42, 57 W *depends on wattage Induction lamp system: 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (K) No
Gear and compensation	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Closed CT-POT (CR) optic for CosmoPolis (all ME-classes), CDO and SON lamps, "Opti-C" concept with double IP-66, simplify cleaning of the optic and improve lamp position precision Open CT-POT (OR) "Opti-O" easy lamp access for CDO and SON lamps Open XT-POT (OX) for SON lamps, gives extra wide spacing when the mast-height/road-width ratio is e.g. 10/7 or higher. "Opti-O" concept Closed XT-POT (CX) same application in "Opti-C" concept Closed V-POT (CV) recuperate the back light via V-louvre Open T-POT (TP) optic "Opti-O" for SON lamps
Optical cover	Polycarbonate bowl (PC) vandal-resistant Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on addition to GB the self-cleaning technology improve the maintenance factor Glass flat (FG), reduce glare and improve night nuisance Glass flat with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)
Options	Lighting controls: Chronosense (CH) Light regulation: Lumistep for CosmoPolis (LS-6 / 8 / 10) Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via Telemanagement Starsense 1-10Vdc (D6) Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Safety cable (SC) for plastic version, reduce maintenance risks
Materials and finishing	Canopy: glass-fibre-reinforced polyester with In-Mould Coating* (SGS253) or aluminium (SGS453) Frame: sand-blasted die-cast aluminium Optical covers: polycarbonate bowl, UV-stabilised or toughened glass IK08 Reflector: high-purity aluminium Gear-tray housing: polyamide Front clip: stainless steel

	Iridium
Colour	Grey (GR) Other RAL or AKZO colours available on request (e.g. 7035) Metallised frame (FM) for better appearance during life of the product
Installation	Side entry mounting: lateral entry Ø 34 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm (60/76) Recommended mounting height: 10 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.15 m^2 Max SCx values by side: 0.063 m^2 Max SCx values by side: 0.081 m^2 with louvres attached
Maintenance	Tool-less opening from above, and disconnection of plug and socket

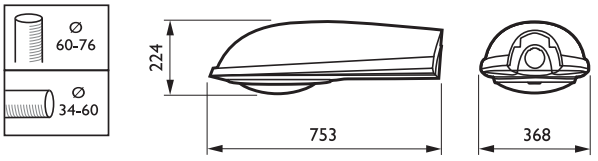
Accessories	Front and back louvres, ZGS253 L-FRONT, resp ZGS253 L-BACK Dedicated mast and wall brackets available for different mounting possibilities
Remarks	* In-Mould Coating (IMC) prevents the glass fibres becoming exposed The integration of the CosmoPolis system (CPO-TW lamp, the high-efficient reflector, electronic ballast), a better spacing (in new installations) and less energy consumption (in new and existing installations) can be obtained CR optic has double IP66 classification for lamp compartment Compliant with EN 60598-2-3
Main applications	Residential and industrial areas, roads, crossings, roundabouts



SGS253 FG



SGS253 PC



SGS253 GB

Iridium SGS253/453 road lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS253 CPO-TW140W K EB 240V I FG FM GR P1	9.25	608960 00
SGS453 CPO-TW140W K EB 240V I FG FM GR P1	11.24	609059 00
SGS253 SON-T150W K EB 240V I CR FG FM GR P1	9.33	609141 00
SGS453 SON-T150W K EB 240V I CR FG FM GR P1	11.31	609257 00
SGS253 SON-T250W K 240V I CR FG FM GR ST P1	10.27	609172 00
SGS453 SON-T250W K 240V I CR FG FM GR ST P1	12.25	609288 00

Please contact your local Philips representative for additional configurations

Iridium SGS253/453 road lighting luminaire with glass bowl (GB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS253 CPO-TW140W K EB 240V I GB FM GR P1	9.22	608977 00
SGS453 CPO-TW140W K EB 240V I GB FM GR P1	11.19	609066 00
SGS253 SON-T150W K EB 240V I CR GB FM GR P1	9.28	609158 00
SGS453 SON-T150W K EB 240V I CR GB FM GR P1	11.26	609264 00
SGS253 SON-T250W K 240V I CR GB FM GR ST P1	10.24	609189 00
SGS453 SON-T250W K 240V I CR GB FM GR ST P1	12.22	609295 00

Please contact your local Philips representative for additional configurations

Iridium SGS253/453 road lighting luminaire with polycarbonate bowl (PC)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS253 CPO-TW140W K EB 240V I PC FM GR P1	8.24	608984 00
SGS453 CPO-TW140W K EB 240V I PC FM GR P1	10.22	609073 00
SGS253 SON-T150W K EB 240V I CR PC FM GR P1	8.31	609165 00
SGS453 SON-T150W K EB 240V I CR PC FM GR P1	10.28	609271 00

Please contact your local Philips representative for additional configurations

Accessories

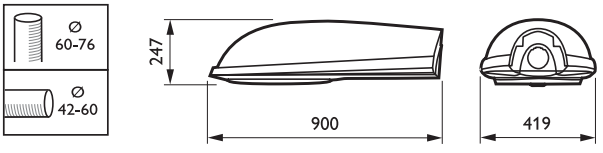
Easy-to-install front and back louvres attached to the Iridium luminaire

Product ID	EOC
ZGS253 L-FRONT	833088 00
ZGS253 L-BACK	833095 00

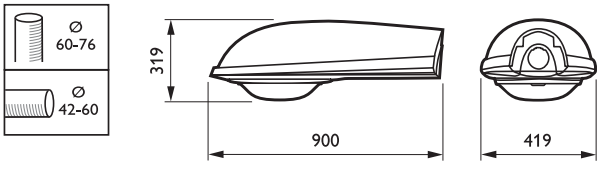
Lezno, Poland

	Iridium
Type	SGS254 (glass-fibre-reinforced polyester canopy version) SGS454 (aluminium canopy version)
Light source	HID: 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400 W 1 x SON / E40 / 150, 250, 400 W Induction lamp system: 1 x MASTER QL system / 165 W
Lamp included	Yes (K) No
Gear and compensation	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Closed T-pot (CP) "Opti-C" with double IP-66, simplify cleaning of the optic and improve lamp position precision Faceted open T-pot (TP) "Opti-O" easy lamp access concept
Optical cover	Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on addition to GB the self-cleaning technology improve the maintenance factor Glass flat (FG), reduce glare and improve night nuisance Glass flat with DynaClean coating (FGD)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Safety cable (SC) for plastic version, reduce maintenance risks

Materials and finishing	Canopy: glass-fibre-reinforced polyester with In-Mould Coating* (SGS254) or aluminium (SGS454) Frame: sand-blasted die-cast aluminium Optical covers: toughened glass IK08 Reflector: high-purity aluminium Gear-tray housing: polyamide Front clip: stainless steel
Colour	Grey (GR) Other RAL or AKZO colours available on request (e.g. 7035) Metallised frame (FM) for better appearance during life of the product
Installation	Side entry mounting: lateral entry Ø 34 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm (60/76) Recommended mounting height: 15 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.20 m^2 Max SCx values by side: 0.063 m^2
Maintenance	Tool-less opening from above, and disconnection of plug and socket
Accessories	Dedicated mast and wall brackets available for different mounting possibilities
Remarks	* In-Mould Coating (IMC) prevents the glass fibres becoming exposed CP optic has double IP66 classification for lamp compartment Compliant with EN 60598-2-3
Main applications	Industrial areas, roads, crossings, roundabouts



SGS254 FG



SGS254 GB

Iridium SGS254/454 road-lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS254 SON-T150W K 240V I CP FG FM GR ST P1	13.90	609301 00
SGS454 SON-T150W K 240V I CP FG FM GR ST P1	16.69	609363 00
SGS254 SON-T250W K 240V I CP FG FM GR ST P1	14.69	609325 00
SGS454 SON-T250W K 240V I CP FG FM GR ST P1	17.50	609387 00
SGS254 SON-T400W K 240V I CP FG FM GR ST P1	16.44	609349 00
SGS454 SON-T400W K 240V I CP FG FM GR ST P1	19.23	609400 00

Please contact your local Philips representative for additional configurations

Preferred selection

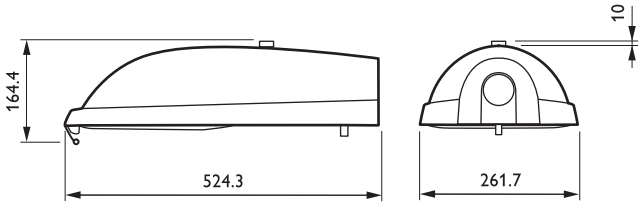
Product ID	Weight (kg)	European Order Code (EOC)
SGS254 SON-T150W K 240V I CP GB FM GR ST P1	13.90	609318 00
SGS454 SON-T150W K 240V I CP GB FM GR ST P1	16.69	609370 00
SGS254 SON-T250W K 240V I CP GB FM GR ST P1	14.69	609332 00
SGS454 SON-T250W K 240V I CP GB FM GR ST P1	17.50	609394 00
SGS254 SON-T400W K 240V I CP GB FM GR ST P1	16.44	609356 00
SGS454 SON-T400W K 240V I CP GB FM GR ST P1	19.23	609417 00

Please contact your local Philips representative for additional configurations

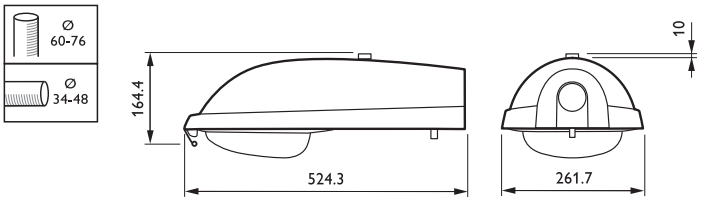
	Mini Iridium
Type	SGS451
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90 W
Lamp included	Yes (K)
Ballast (integrated)	Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	S-classes with V-recuperator (VX2) and without V-recuperator (VX1) Low ME-classes with V-recuperator (OC-V) and without V-recuperator (OC)
Optical cover	Glass bowl (GB) and with DynaClean coating (GBD) Flat glass (FG) and with DynaClean coating (FGD)
Cable gland	PG 13.5 mm
Options	Light regulation: Lumistep LS-6, LS-8 and LS-10 for 60, 90 W Photocell: minicell 70lx (P3), minicell 30lx (P3-30) Pre-equipped cables without plug: cable lengths of: 9 m (C9K), 12 m (C12K), 14 m (C14K)
Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive Gasket: silicone rubber, heat-resistant Reflectors: anodised aluminium, brightened 99.99% Glass: thermally hardened, 6 mm thick
Colour	Canopy: brilliant grey, approx RAL7043 (GR) Frame and spigot: aluminium, unpainted sandblasted

Installation	Flexifit spigot for post top mounting: axial entry Ø 60 - 76 mm at 10° tilt or side entry mounting: lateral entry Ø 34 - 48 mm Operating temperature: - 20°C < T_a < 35°C (version 90 W max 25°C) Recommended mounting height: 3.5 to 6 m and 6 to 9 m Standard tilt angle post top: 10° standard Adjustable tilt angle: internal optic adjustment to -10, -5 and 0° Adjustable light distribution: 2 positions (VX2-optic version) and 7 positions (OC-optic version) Max SCx value by side: 0.032 m^2 (GB/GBD versions), 0.032 m^2 (FG/FGD versions)
Maintenance	From below by opening the housing with a single quick-release clip all supported by a retention cable Multiblock for easy cabling and electrical connection Open optic for easy lamp replacement and quick lamp position and internal optic tilt adjustment Hinged front glass with quick-release clips for replacement
Accessories	Wall mounting bracket Dedicated mast and wall brackets available for different mounting possibilities Side entry reductor from 60 to 48 mm
Main applications	Residential streets, pedestrian and cycle paths and minor roads

IP66 650°C IK07



SGS451



SGS451

Mini Iridium SGS451 road lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS451 CPO-TW45W K EB I OC FG GR	5.06	958085 00
SGS451 CPO-TW45W K EB I OC FG GR P3	5.16	958009 00
SGS451 CPO-TW60W K EB I OC FG GR	5.06	958054 00
SGS451 CPO-TW60W K EB I OC FG GR P3	5.16	957972 00
SGS451 CPO-TW90W K EB I OC FG GR	5.16	958030 00
SGS451 CPO-TW90W K EB I OC FG GR P3	5.26	957941 00

Please contact your local Philips representative for additional configurations

Mini Iridium SGS451 road lighting luminaire with glass bowl (GB)

Preferred selection

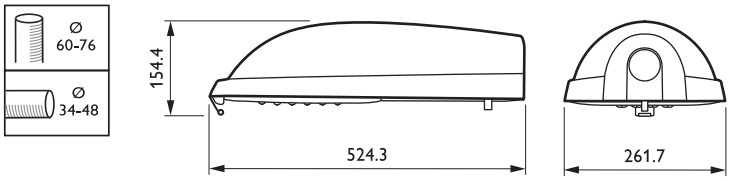
Product ID	Weight (kg)	European Order Code (EOC)
SGS451 CPO-TW45W K EB I OC-V GB GR	5.42	958092 00
SGS451 CPO-TW45W K EB I OC-V GB GR P3	5.52	958016 00
SGS451 CPO-TW45W K EB IVX2 GB GR	5.48	958108 00
SGS451 CPO-TW45W K EB IVX2 GB GR P3	5.58	958023 00
SGS451 CPO-TW60W K EB I OC-V GB GR	5.42	958061 00
SGS451 CPO-TW60W K EB I OC-V GB GR P3	5.52	957989 00
SGS451 CPO-TW60W K EB IVX2 GB GR	5.48	958078 00
SGS451 CPO-TW60W K EB IVX2 GB GR P3	5.58	957965 00
SGS451 CPO-TW90W K EB I OC-V GB GR	5.52	958047 00
SGS451 CPO-TW90W K EB I OC-V GB GR P3	5.62	957958 00

Please contact your local Philips representative for additional configurations

	Mini Iridium LED
Type	BGS451
Light source	16, 24 x LED-HP, 20, 31 W
Light colour	Warm white (WW)
Driver (integrated)	Driver 350 mA with Constant Light Output function (CLO)
Optic	Narrow street (NSO) Medium street (MSO)
Optical cover	Polycarbonate cover
Cable gland	PG 13.5 mm
Options	Light regulation: Lumistep LS-6, LS-8 and LS-10 Photocell: minicell 70lx (P3), minicell 30lx (P3-30) Pre-equipped cables without plug: cable lengths of: 9 m (C9K), 12 m (C12K), 14 m (C14K)
Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive Gasket: silicone rubber, heat-resistant Cover: polycarbonate, frosted with clear lenses Heat sink (internal): high-pressue die-cast aluminium, non-corrosive
Colour	Canopy: brilliant grey, approx RAL7043 (GR) Frame and spigot: aluminium, unpainted sandblasted

Installation	Flexifit spigot for post top mounting: axial entry Ø 60 - 76 mm at 10° tilt or side entry mounting: lateral entry Ø 34 - 48 mm Operating temperature: - 20°C < T_a < 35°C (version 90 W max 25°C) Recommended mounting height: 3.5 to 6 m and 6 to 9 m Standard tilt angle post top: 10° standard Max SCx value by side: 0.032 m^2 (GB/GBD versions), 0.032 m^2 (FG/FGD versions)
Maintenance	From below by opening the housing with a single quick-release clip all supported by a retention cable Multiblock for easy cabling and electrical connection Simple LED module and driver replacement Hinged front glass with quick-release clips for replacement
Accessories	Wall mounting bracket Dedicated mast and wall brackets available for different mounting possibilities Side entry reductor from 60 to 48 mm
Main applications	Residential streets, pedestrian and cycle paths and minor roads

IP66 650°C IK07



BGS451

Mini Iridium LED BGS451

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGS451 LXML/WW 22W I NSO CO GR 60/76P	4.41	961382 00
BGS451 LXML/WW 22W I NSO CO GR P3 60/76P	4.51	961351 00
BGS451 LXML/WW 31W I NSO CO GR 60/76P	4.41	961375 00
BGS451 LXML/WW 31W I NSO CO GR P3 60/76P	4.51	961344 00
BGS451 LXML/WW 31W I MSO CO GR 60/76P	4.41	961399 00
BGS451 LXML/WW 31W I MSO CO GR P3 60/76P	4.51	961368 00

Please contact your local Philips representative for additional configurations

14.1

Koffer^2

Koffer² – economical system

Koffer² is an archetypal modern road lighting luminaire, which meets the needs of today's road users and operators. It is easy to install and maintain, delivers optimum optical performance and is future-proof. With its rectangular shape, Koffer² offers an alternative to today's design trend towards rounded luminaires.

Total cost over lifetime was the main consideration during the development phase. In addition to sound construction and low maintenance costs, specific attention was also devoted to optical performance in order to enable optimum spacing and energy efficiency.

With the optional mast and bracket concept, the Koffer² design is highly versatile: the two sizes can be integrated into futuristic concepts in modern urban environments or in more traditional lighting designs. The design of Koffer² is a logical progression from the original Koffer design which has sold over 3 million units throughout Europe. Koffer² is, therefore, the ideal luminaire with which to upgrade or extend existing Koffer installations.

www.philips.co.uk/lighting

Mini Koffer2 SGP060

Koffer² SGP100

Koffer² SGP070

asimpleswitch.com

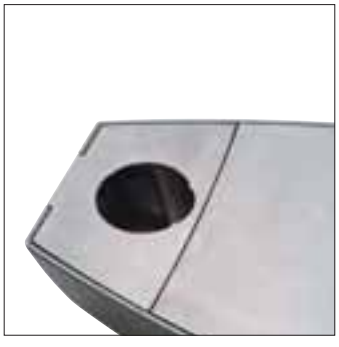
Koffer² – the safety specialist
Different types of roads require different lighting solutions in respect of luminous intensity and light distribution. Koffer² offers application-specific optics, e.g. for cycle paths and footpaths, pedestrian crossings and railway stations. Specific shapes of lamp also require dedicated optics for optimum performance.

Koffer² offers seven different optics for different applications and lamps. With some optics, the light distribution can be adapted to the installation layout by adjusting the lamp position.

CosmoPolis: the foundation of change
Combining maximum efficiency and brilliant light quality, CosmoPolis is set to become the lamp technology of the future. It is the ideal lamp for Koffer². In renovation projects, it enables the installed load to be halved compared with high-pressure mercury lamps. In new installations, energy consumption can even be reduced to a third compared with existing installations.

Improved flexi-fit mounting spigot
Koffer² comes with an improved flexi-fit mounting spigot, which guarantees a smooth and pure design – regardless of the mast diameter.

For post-top installations, 76 mm:
the opening is fully open and the round and moon-shaped baffles are pivoted inside the luminaire



Post-top installation, 60 mm:
the round baffle is pivoted inside the luminaire. The moon-shaped baffle closes the rest of the opening and the surface of the luminaire is totally flush

Side-entry installation:
both baffles close the opening and the surface is totally flush

Innovation – self-cleaning glass covers

With Koffer², Philips is introducing another genuine innovation – DynaClean, a new coating that helps to maintain lighting levels.

As an optional extra, the flat glass can be coated with a photo-catalytic and hydrophilic coating. This is activated by the UV rays from the lamp and the sun, which then destroy the dirt particles. This 'self-cleaning' coating slows the decline in lumen output over time. DynaClean increases the maintenance factor by 7 points. This leads to a potential spacing gain up to 9%.

Flat glass after 1.5 years near a motorway, with DynaClean

Flat glass after 1.5 years near a motorway, without DynaClean

Maintenance

Maintenance is tool less. The frame opens downwards and all electrical components are directly visible.

Toolless opening of the luminaire

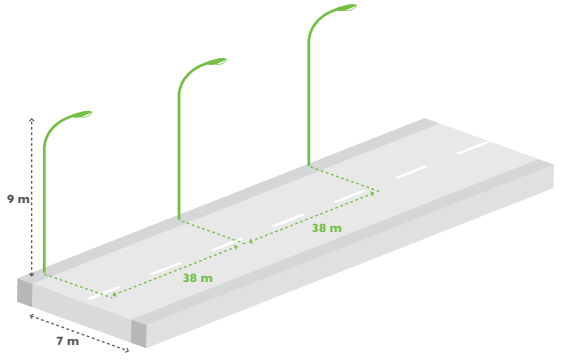
Quickly replace glass bowls

Quickly replace the gear-tray

Replace lamps without tools

Best environmental choice

The CosmoPolis lamp and its electronic gear make it possible to increase spacings by up to +15%, while enabling a 40% reduction in CO_2 emissions. Assembled without glue, with all plastic parts coded for traceability, Koffer² is easily recycled, complying with RoHS and ready for WEEE.



asimpleswitch.com

Compared to SON-T the spacing is increased by 15% and CO_2 emissions reduced by 40%.

Koffer[2] 70 on a cylindroconical mast

Koffer[2] 100 on single and double brackets

Koffer[2] 100 on single and double brackets

Koffer[2] 100 on single and double brackets

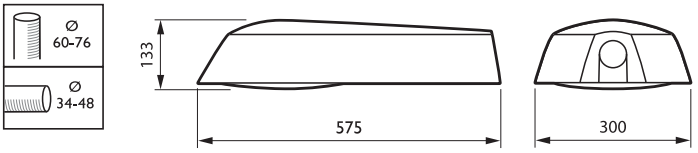
Koffer[2] 100 on single and double brackets

	Koffer²
Type	SGP070
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x CDO-ET / E27 / 70 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100 W Compact fluorescent: 2 x MASTER PL-L 4 Pin / 2G11 / 11 W 1 x or 2 x MASTER PL-L 4 PIN / 2G11 / 18 W Induction lamp system: 1 x MASTER QL system / 55 W
Lamp included	Yes (K or light colour 827, 830 or 840) No
Mains supply	240 V
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) "Opti-O" easy lamp access for CosmoPolis, CDO and SON lamps Cycle path optic (CYC). Only for GB and PC. At low mounting heights in narrow paths optimise for CosmoPolis low S-classes Reflector for railways (RW), for narrow platforms with maximum glare control
Optical cover	Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on addition to GB the self-cleaning technology improve the maintenance factor Flat glass (FG), reduce glare and improve night nuisance Flat glass with DynaClean coating (FGD) Acrylic bowl, frosted (ACF) no yellowing
Ignitor	Semi-parallel, digital (SND) Series digital ignitor (SUD)

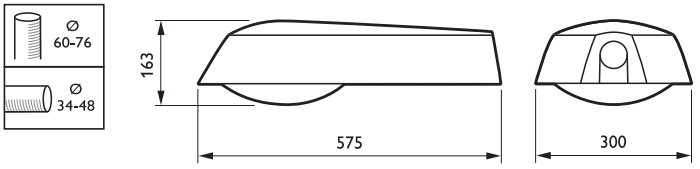
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Pre-equipped cables without plug connector: cable lengths of: 6 m (C6K), 10 m (C12K)
Materials and finishing	Housing: aluminium Optical covers: acrylic or polycarbonate bowls, UV-stabilised or hardened glass, min IK08
Colour	Grey (RAL 7035) or white (RAL 9006) Other RAL colours available on request (e.g. 7024)
Installation	Side entry mounting: lateral entry Ø 34 / 48 mm Post top mounting: axial entry Ø 60 / 76 mm Spigot is integrated, continuously variable Recommended mounting height: 3.5 - 7 m Standard tilt angle post top: 10° Adjustable tilt angle: n/a Adjustable light distribution: 5 positions Max windage area: 0.08 m^2 Max SCx values by side: 0.035 m^2
Maintenance	Toolless from below. Opening by one main clip
Accessories	Front and back louvres, ZGP070 L-FRONT resp ZGP070 L-BACK Dedicated mast and pole brackets available for different mounting possibilities
Main applications	Pedestrian and parking areas, bicycle paths

IP66 lamp and gear compartment

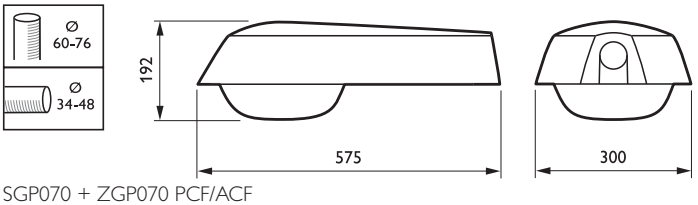
CE



SGP070 + ZGP070 FG



SGP070 + ZGP070 GB



SGP070 + ZGP070 PCF/ACF

Koffer² SGP070 road lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP070 CPO-TW45W K EB FG	7.21	234493 00
SGP070 CPO-TW45W K EB FG P1	7.21	234509 00
SGP070 CPO-TW45W K EB FG P3	7.21	234516 00
SGP070 CPO-TW60W K EB FG	7.21	234578 00
SGP070 CPO-TW60W K EB FG P1	7.21	234585 00
SGP070 CPO-TW60W K EB FG P3	7.21	234592 00
SGP070 SON-T70W K 240V FG	7.67	234660 00
SGP070 SON-T70W K 240V FG P1	7.67	234677 00
SGP070 SON-T70W K 240V FG P3	7.67	234684 00

Please contact your local Philips representative for additional configurations

Koffer² SGP070 road lighting luminaire with glass bowl (GB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP070 CPO-TW45W K EB GB	7.24	234462 00
SGP070 CPO-TW45W K EB GB P1	7.24	234479 00
SGP070 CPO-TW45W K EB GB P3	7.24	234486 00
SGP070 CPO-TW60W K EB GB	7.24	234547 00
SGP070 CPO-TW60W K EB GB P1	7.24	234554 00
SGP070 CPO-TW60W K EB GB P3	7.24	234561 00
SGP070 SON-T70W K 240V GB	7.70	234639 00
SGP070 SON-T70W K 240V GB P1	7.70	234646 00
SGP070 SON-T70W K 240V GB P3	7.70	234653 00

Please contact your local Philips representative for additional configurations

Koffer² SGP070 road lighting luminaire with structured plastic bowl (ACF)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP070 CPO-TW45W K EB ACF	6.69	234431 00
SGP070 CPO-TW45W K EB ACF P1	6.69	234448 00
SGP070 CPO-TW45W K EB ACF P3	6.69	234455 00
SGP070 CPO-TW60W K EB ACF	6.69	234523 00
SGP070 CPO-TW60W K EB ACF P1	6.69	234530 00
SGP070 CPO-TW60W K EB ACF P3	6.69	235056 00
SGP070 SON-T70W K 240V ACF	7.15	234608 00
SGP070 SON-T70W K 240V ACF P1	7.15	234615 00
SGP070 SON-T70W K 240V ACF P3	7.15	234622 00

Please contact your local Philips representative for additional configurations

Accessories

Koffer² SGP070 road lighting luminaire with louvres

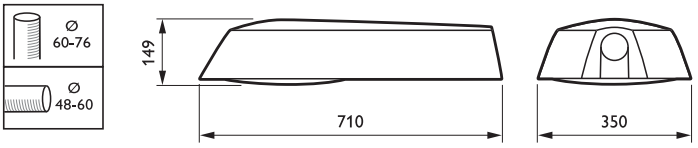
Product ID	EOC
ZGP070 L-FRONT	227631 00
ZGP070 L-BACK	227648 00

	Koffer²
Type	SGP100
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150, 250 W 1 x CDO-ET / E27 / 70 W 1 x CDO-ET / E40 / 100, 150, 250 W 1 x MASTER SON-T PIA Plus / E27 / 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W 1 x SON / E27 / 70 W 1 x SON / E40 / 100, 150, 250 W Compact fluorescent: 2 x MASTER PL-L 4 Pin / 2G11 / 18 W Induction lamp system: 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (K or light colour 827, 830 or 840) No
Mains supply	240 V
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) "Opti-O" easy lamp access for CosmoPolis, CDO and SON lamps Open XT-POT (OX) for SON lamps, gives extra wide spacing when the mast-height/road-width ratio is e.g. 10/7 or higher."Optic-O" concept Reflector, asymmetric left (R-A-L) pedestrian crossing left side asymmetric optic Reflector, asymmetric right (R-A-R) pedestrian crossing right side asymmetric optic
Optical cover	Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on addition to GB the self-cleaning technology improve the maintenance factor Flat glass (FG), reduce glare and improve night nuisance Flat glass with DynaClean coating (FGD) acrylic bowl, frosted (ACF) no yellowing

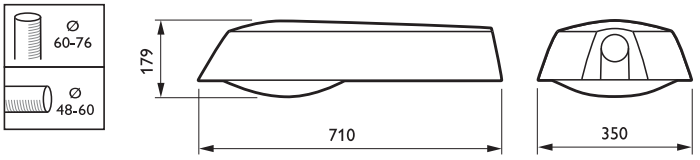
Ignitor	Semi-parallel, digital (SND) Series digital ignitor (SUD)
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via Telemanagement Starsense 1-10Vdc (D6) Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Pre-equipped cables without plug connector: cable lengths of: 6 m (C6K), 10 m (C12K)
Materials and finishing	Housing: aluminium Optical covers: acrylic or polycarbonate bowls, UV-stabilised or hardened glass, min IK08
Colour	Grey (RAL 7035) or white (RAL 9006) Other RAL colours available on request (e.g. 7024)
Installation	Side entry mounting: lateral entry Ø 48 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm Spigot is integrated, continuously variable Recommended mounting height: 6 - 12 m Standard tilt angle post top: 10° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.11 m^2 Max SCx values by side: 0.054 m^2
Maintenance	Toolless from below. Opening by one main clip
Accessories	Front and back louvres, ZGP100 L-FRONT resp ZGP100 L-BACK Dedicated mast and pole brackets available for different mounting possibilities
Main applications	Roads, pedestrian and parking areas

IP66 lamp and gear compartment

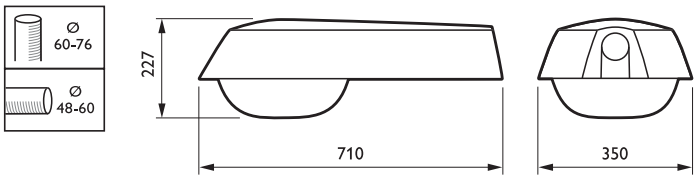
CE



SGP100 + ZGP100 FG



SGP100 + ZGP100 GB



SGP100 + ZGP100 ACF

Koffer² SGP100 road lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP100 CPO-TW140W K EB FG	9.75	234745 00
SGP100 CPO-TW140W K EB FG P1	9.75	234769 00
SGP100 CPO-TW140W K EB FG P3	9.75	234776 00
SGP100 SON-T100W K 240V FG	10.43	234844 00
SGP100 SON-T100W K 240V FG P1	10.43	234851 00
SGP100 SON-T100W K 240V FG P3	10.43	234868 00
SGP100 SON-T150W K 240V FG	10.98	234936 00
SGP100 SON-T150W K 240V FG P1	10.98	234943 00
SGP100 SON-T150W K 240V FG P3	10.98	234950 00
SGP100 SON-T250W K 240V FG	11.87	235025 00
SGP100 SON-T250W K 240V FG P1	11.87	235032 00
SGP100 SON-T250W K 240V FG P3	11.87	235360 00

Please contact your local Philips representative for additional configurations

Koffer² SGP100 road lighting luminaire with glass bowl (GB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP100 CPO-TW140W K EB GB	9.72	234752 00
SGP100 CPO-TW140W K EB GB P1	9.72	234721 00
SGP100 CPO-TW140W K EB GB P3	9.72	234738 00
SGP100 SON-T100W K 240V GB	10.40	234813 00
SGP100 SON-T100W K 240V GB P1	10.40	234820 00
SGP100 SON-T100W K 240V GB P3	10.40	234837 00
SGP100 SON-T150W K 240V GB	10.28	234905 00
SGP100 SON-T150W K 240V GB P1	10.95	234912 00
SGP100 SON-T150W K 240V GB P3	10.95	234929 00
SGP100 SON-T250W K 240V GB	11.84	234998 00
SGP100 SON-T250W K 240V GB P1	11.84	235001 00
SGP100 SON-T250W K 240V GB P3	11.84	235018 00

Please contact your local Philips representative for additional configurations

Koffer² SGP100 road lighting luminaire with structured acrylic bowl (ACF)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP100 CPO-TW140W K EB ACF	9.05	234691 00
SGP100 CPO-TW140W K EB ACF P1	9.05	227174 00
SGP100 CPO-TW140W K EB ACF P3	9.05	234714 00
SGP100 SON-T100W K 240V ACF	9.74	234783 00
SGP100 SON-T100W K 240V ACF P1	9.74	234790 00
SGP100 SON-T100W K 240V ACF P3	9.74	234806 00
SGP100 SON-T150W K 240V ACF	10.28	234875 00
SGP100 SON-T150W K 240V ACF P1	10.28	234882 00
SGP100 SON-T150W K 240V ACF P3	10.28	234899 00

Please contact your local Philips representative for additional configurations

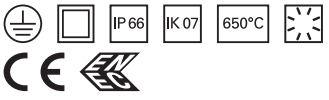
Accessories

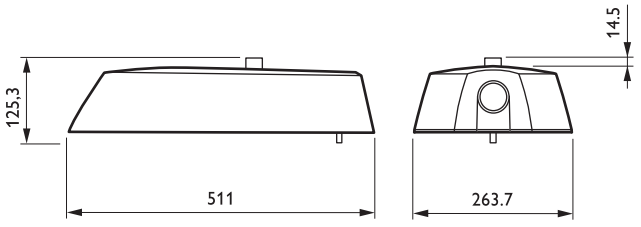
Koffer² SGP100 road lighting luminaire with louvres

Product ID	EOC
ZGP100 L-FRONT	227655 00
ZGP100 L-BACK	227662 00

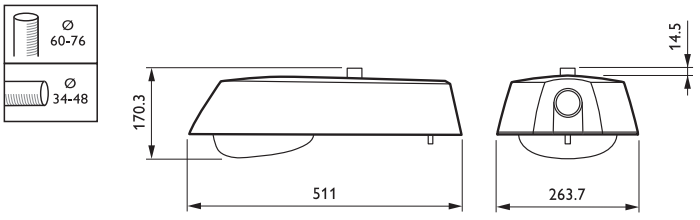
Vechta, Germany

	Mini Koffer2
Type	SGP060
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90 W
Lamp included	Yes (K)
Ballast (integrated)	Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	S-classes with V-recuperator (VX2) and without V-recuperator (VX1) Low ME-classes with V-recuperator (OC-V) and without V-recuperator (OC)
Optical cover	Glass bowl (GB) and with DynaClean coating (GBD) Flat glass (FG) and with DynaClean coating (FGD)
Cable gland	PG 13.5 mm
Options	Light regulation: Lumistep LS-6, LS-8 and LS-10 for 60 and 90 W versions Photocell: Minicell 70lx (P3), minicell 30lx (P3-30) Pre-equipped cables without plug: cable lengths of 9 m (C9K), 12 m (C12K), 14 m (C14K)
Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive Cover: thermally hardened glass, 6 mm thick Gasket: silicone rubber, heat-resistant Reflectors: anodised aluminium, brightened 99.99%
Colour	Canopy: brilliant grey, approx RAL 7043 (GR) Frame and spigot: aluminium, unpainted sandblasted
Installation	Flexifit spigot for post top mounting: axial entry Ø 60-76 mm at 10° tilt or side entry mounting: lateral entry Ø 34-48 mm Operating temperature: - 20°C < T_a < 35°C (version 90 W max 25 °C) Recommended mounting height: 3.5 to 6 m and 6 to 9 m Standard tilt angle post top: 10° standard Adjustable tilt angle: internal optic adjustment to -10°, -5° and 0° Adjustable light distribution: 2 positions (VX1-optic version) and 7 positions (OC-optic version) Max SCx value by side: 0.044 m²
Maintenance	From below by opening the housing with a single quick-release clip all supported by a retention cable Open optic for easy lamp replacement and quick lamp position and internal optic tilt adjustment Hinged front glass with quick-release clips for replacement Multiblock for easy cabling and electrical connection
Accessories	Dedicated mast and wall brackets available for different mounting possibilities Side entry reductor from 60 to 48 mm
Main applications	Residential streets, pedestrian and cycle paths and minor roads





Mini Koffer2 SGP060 with flat glass (FG)



Mini Koffer2 SGP060 with glass bowl (GB)

Mini Koffer2 SGP060 with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP060 CPO-TW45W K EB I OC FG CO GR	4.95	958764 00
SGP060 CPO-TW45W K EB I OC FG CO GR P3	4.95	958733 00
SGP060 CPO-TW60W K EB I OC FG CO GR	4.95	958757 00
SGP060 CPO-TW60W K EB I OC FG CO GR P3	4.95	958726 00

Please contact your local Philips representative for additional configurations

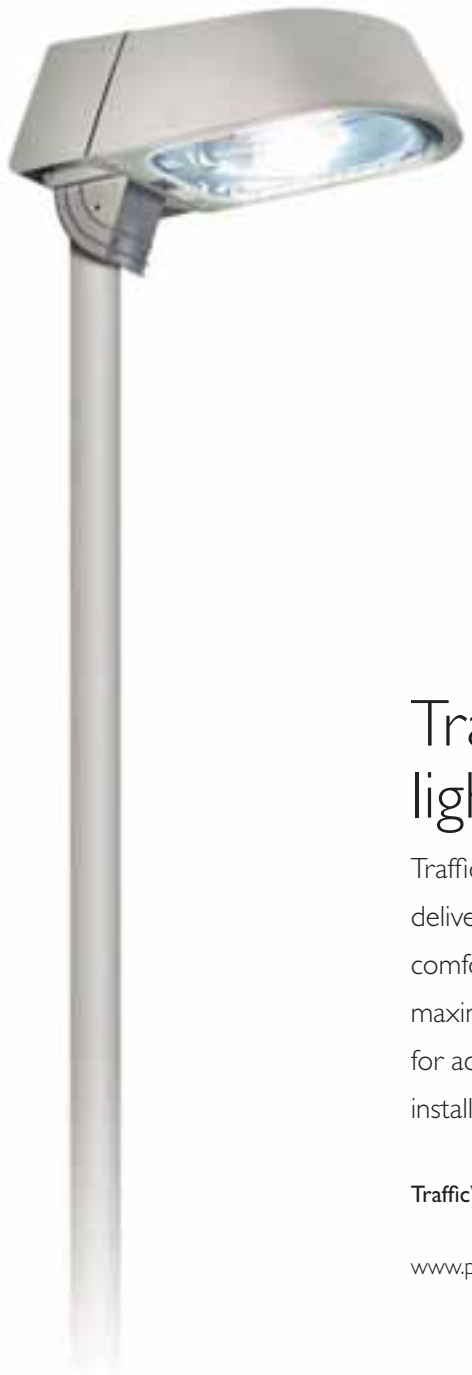
Mini Koffer2 SGP060 with glass bowl (GB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP060 CPO-TW45W K EB I OC-V GB CO GR	4.96	959365 00
SGP060 CPO-TW45W K EB I OC GB CO GR P3	4.95	959136 00
SGP060 CPO-TW45W K EB I OC-V GB CO GR P3	4.96	959327 00
SGP060 CPO-TW45W K EB IVX1 GB CO GR P3	5.01	959143 00
SGP060 CPO-TW45W K EB IVX2 GB CO GR	5.02	959372 00
SGP060 CPO-TW45W K EB IVX2 GB CO GR P3	5.02	959334 00
SGP060 CPO-TW60W K EB I OC GB CO GR P3	4.95	959112 00
SGP060 CPO-TW60W K EB I OC-V GB CO GR P3	4.96	959303 00
SGP060 CPO-TW60W K EB IVX1 GB CO GR P3	5.01	959129 00
SGP060 CPO-TW60W K EB IVX2 GB CO GR	5.02	959358 00
SGP060 CPO-TW60W K EB IVX2 GB CO GR P3	5.02	959310 00

Please contact your local Philips representative for additional configurations

TrafficVision



TrafficVision – exactly the right light

TrafficVision SGS305/306 is a road lighting luminaire that is fully adjustable to deliver light precisely where it is needed, in the quantity needed, for safe and comfortable driving. Dedicated faceted optics optimise beam control and maximise light output, while graduated adjustment of the reflector is possible for accurate direction of the beam. TrafficVision's modular concept ensures easy installation and fast, safe maintenance.

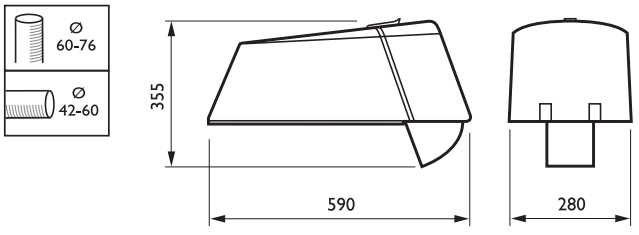
TrafficVision is suitable for post top or side entry mounting.

www.philips.co.uk/lighting

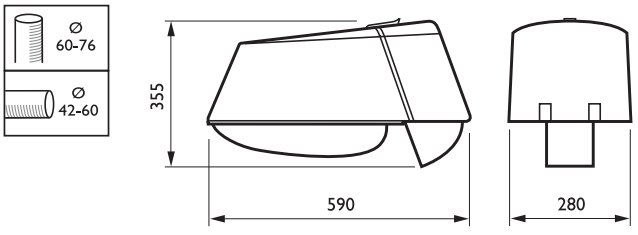
	TrafficVision
Type	SGS305
Light source	HID: 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100 W 1 x SON-I / E27 / 50, 70 W
Lamp included	Yes (K)
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)
Optic	Faceted T-POT (TP) in a close optical system IP66
Optical cover	Flat glass (FG), reduce glare and improve night nuisance Polycarbonate bowl (PC) vandal-resistant
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via Telemanagement Starsense 1-10Vdc (D6) Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Knife-connector as standard

Materials and finishing	Front and rear canopies: glass-fibre-reinforced polyester Optical covers: acrylic, non-yellowing or polycarbonate bowls, UV stabilised or toughened glass IK08 Mounting module: die-cast aluminium
Colour	Grey (GR) Other RAL colours available on request (RAL)
Installation	Post top mounting: axial entry Ø 60 / 76 mm (76P) Side entry mounting: lateral entry Ø 42 / 60 mm (60S) Recommended mounting height: 8 m Standard tilt angle post top: 3° Adjustable tilt angle: 0 - 12° (side entry) Adjustable light distribution: 19 positions Max windage area: 0.16 m^2 Max SCx values by side: 0.102 m^2
Maintenance	Tool-less opening the luminaire Opening gear compartment breaks the electrical circuit
Main applications	Industrial areas, major and minor roads, motorways, crossings, roundabounds

IP43 gear compartment IP66 lamp compartment



SGS305 FG



SGS305 PC

SGS305 with flat glass

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS305 SON-T70W K 240V II FG RS GR ST	8.69	294156 00
SGS305 SON-T100W K 240V II FG RS GR ST	9.00	294170 00
SGS305 SON-T150W K 240V II FG RS GR ST	9.30	294187 00

Please contact your local Philips representative for additional configurations

SGS305 with bowl

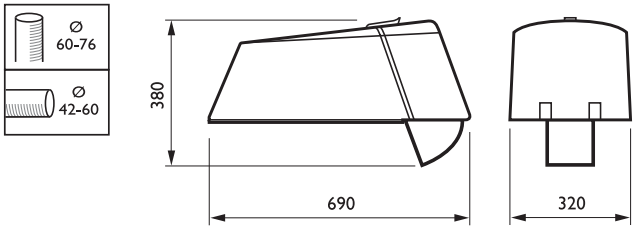
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS305 SON-T70W K 240V II PC RS GR ST	8.69	294163 00
SGS305 SON-T100W K 240V II PC RS GR ST	9.00	676173 00
SGS305 SON-T150W K 240V II PC RS GR ST	9.30	676180 00

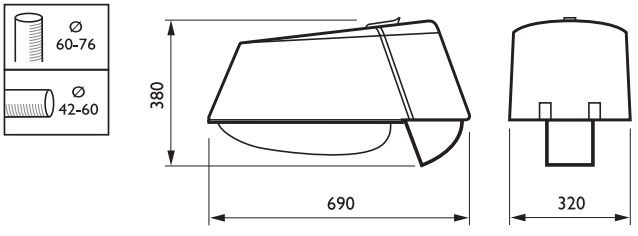
Please contact your local Philips representative for additional configurations

	TrafficVision
Type	SGS306
Light source	HID: 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400 W 1 x SON / E40 / 150, 250, 400 W Induction lamp system: 1 x MASTER QL system / 85 W
Lamp included	Yes (K or light colour 827, 830 or 840)
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB) Empty (E) (without gear)
Ignitor	Series (SI) Series, self-stopping (SS) Series, digital ignitor (SUD) Semi-parallel (SP) Semi-parallel, self-stopping (ST) Semi-parallel, digital ignitor (SND)
Optic	Faceted T-POT (TP) in a close optical system IP66
Optical cover	Flat glass (FG), reduce glare and improve night nuisance Polycarbonate bowl (PC) vandal-resistant Polythene bowl, opal (PE)
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Dimming via SDU01S (D4) Dimming via SDU11S (D5) Dimming via Telemanagement Starsense 1-10 Vdc (D6) Dimming via external communication 1-10 Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Fuse (FU) integrated Filter coil (F) integrated Knife-connector as standard
Materials and finishing	Front and rear canopies: glass-fibre-reinforced polyester Optical covers: polythene or polycarbonate bowls, UV stabilised or toughened glass IK08 Mounting module: die-cast aluminium
Colour	Grey (GR) Other RAL colours available on request (RAL)
Installation	Post top mounting: axial entry Ø 60 / 76 mm (76P) Side entry mounting: lateral entry Ø 42 / 60 mm (60S) Recommended mounting height: 12 m Standard tilt angle post top: 3° Adjustable tilt angle: 0 - 12° (side entry) Adjustable light distribution: 19 positions Max windage area: 0.20 m^2 Max SCx values by side: 0.124 m^2
Maintenance	Tool-less opening the luminaire Opening gear compartment breaks the electrical circuit
Main applications	Industrial areas, major and minor roads, motorways, roundabounds, crossings

IP43 gear compartment IP66 lamp compartment



SGS306 FG



SGS306 PE

SGS306 with flat glass

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS306 SON-T150W K 240V II FG RS GR ST	11.00	294408 00
SGS306 SON-T250W K 240V II FG RS GR ST	11.90	676203 00
SGS306 SON-T400W K 240V II FG RS GR ST	13.80	676210 00

Please contact your local Philips representative for additional configurations

SGS306 with acrylic bowl

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS306 SON-T150W K 240V II PE RS GR ST	11.00	676197 00
SGS306 SON-T250W K 240V II PE RS GR ST	11.90	294439 00
SGS306 SON-T400W K 240V II PE RS GR ST	13.80	294446 00

Please contact your local Philips representative for additional configurations

Removing the lamp

Removing the gear unit

Heathrow, United Kingdom

Selenium

Selenium – timeless design

Selenium SGP340 is an efficient, ergonomic road lighting luminaire. Its simple, rounded form reduces its daytime visual impact, allowing it to integrate into any kind of environment. Selenium incorporates the renowned T-POT reflector for excellent optical performance. Energy savings are possible by means of dimming with a switch or stand-alone Chronosense system (without pilot cable).

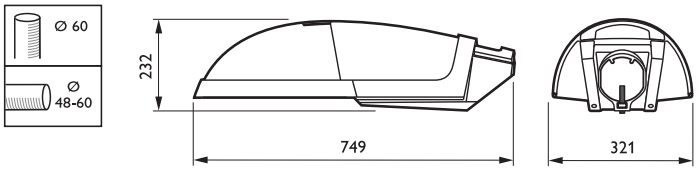
Selenium is suitable for side entry or post top mounting, with a choice of three tilt angles for optimal installation (0, 5, 15°).

www.philips.co.uk/lighting

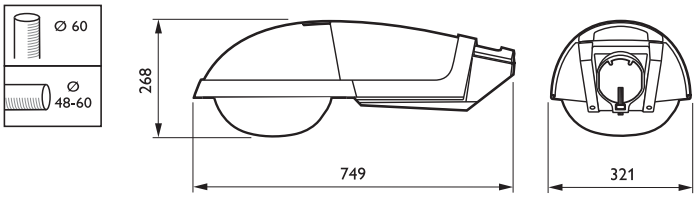
	Selenium
Type	SGP340
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250, 400 W
Lamp included	Yes (K) No
Mains voltage	240 V
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Faceted semi closed T-POT (TP)
Optical cover	Flat glass (FG), reduce glare and improve night nuisance Polycarbonate bowl (PC) vandal-resistant
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Photocell: NEMA socket (P1), Minicell (P3) Fuse (FU) included Knife-connector (KC) included

Materials and finishing	Canopy and frame: die-cast aluminium Mounting module: die-cast aluminium Optical covers: polycarbonate bowl or toughened glass Reflector: high-purity aluminium Closing clip: stainless steel
Colour	Grey (RAL 7035) Other RAL colours available on request
Installation	Side entry mounting: lateral entry Ø 48 / 60 mm (48/60) Post top mounting: axial entry Ø 48 / 60 mm (48/60) Spigot is reversible for side-entry and post-top Recommended mounting height: 10 m Standard tilt angle post top: 5° Adjustable tilt angle: 0.5 and 15° Adjustable light distribution: 5 positions Max windage area: 0.14 m^2 Max SCx values by side: 0.077 m^2
Maintenance	From above by opening the housing with a single quick-release clip No tools needed for geartray and disconnection of plug and socket
Accessories	Spigots for 34 mm side entry, ZGP340 SP34S and 76 mm post top, ZGP340 SP76P
Main applications	Industrial areas, roads, crossings, roundabouts

IP66 lamp and gear compartment



SGP340 FG



SGP340 PC

SGP340 with flat glass

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP340 SON-T50W K 240V I FG ST 34/42	8.85	610727 00
SGP340 SON-T50W K 240V I FG ST P1 34/42	9.05	610734 00
SGP340 SON-T50W K 240V I FG ST P3 34/42	9.05	610741 00
SGP340 SON-T50W K 240V I FG ST 76	9.14	613582 00
SGP340 SON-T50W K 240V I FG ST P1 76	9.34	613599 00
SGP340 SON-T50W K 240V I FG ST P3 76	9.34	613605 00
SGP340 SON-T70W K EB I FG 34/42	9.05	610772 00
SGP340 SON-T70W K EB I FG P1 34/42	9.35	610499 00
SGP340 SON-T70W K EB I FG P3 34/42	9.25	610789 00
SGP340 SON-T70W K EB I FG 76	9.54	613636 00
SGP340 SON-T70W K EB I FG P1 76	9.55	610482 00
SGP340 SON-T70W K EB I FG P3 76	9.54	613612 00
SGP340 SON-T100W K EB I FG 34/42	9.05	610581 00
SGP340 SON-T100W K EB I FG P1 34/42	9.25	610598 00
SGP340 SON-T100W K EB I FG P3 34/42	9.25	610604 00
SGP340 SON-T100W K EB I FG 76	9.34	613568 00
SGP340 SON-T100W K EB I FG P1 76	9.54	613698 00
SGP340 SON-T100W K EB I FG P3 76	9.54	613711 00
SGP340 SON-T150W K EB I FG 34/42	9.05	610659 00
SGP340 SON-T150W K EB I FG P1 34/42	9.25	610666 00
SGP340 SON-T150W K EB I FG P3 34/42	9.25	610673 00
SGP340 SON-T150W K EB I FG 76	9.34	613575 00
SGP340 SON-T150W K EB I FG P1 76	9.54	613773 00
SGP340 SON-T150W K EB I FG P3 76	9.54	613797 00
SGP340 SON-T250W K 240V I FG ST 34/42	11.25	610697 00
SGP340 SON-T250W K 240V I FG ST P1 34/42	11.45	610703 00
SGP340 SON-T250W K 240V I FG ST P3 34/42	11.45	610710 00
SGP340 SON-T250W K 240V I FG ST 76	11.54	613827 00
SGP340 SON-T250W K 240V I FG ST P1 76	11.74	613834 00
SGP340 SON-T250W K 240V I FG ST P3 76	11.74	613841 00
SGP340 CPO-TW45W K EB I OR FG P1 34/42	9.25	630152 00
SGP340 CPO-TW45W K EB I OR FG P1 76	9.55	630176 00
SGP340 CPO-TW60W K EB I OR FG P1 34/42	9.25	630190 00
SGP340 CPO-TW60W K EB I OR FG P1 76	9.55	630213 00
SGP340 CPO-TW90W K EB I OR FG P1 34/42	9.34	630237 00
SGP340 CPO-TW90W K EB I OR FG P1 76	9.65	630251 00
SGP340 CPO-TW140W K EB I OR FG P1 34/42	9.34	630275 00
SGP340 CPO-TW140W K EB I OR FG P1 76	9.65	630299 00

Please contact your local Philips representative for additional configurations

SGP340 with polycarbonate bowl

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGP340 SON-T50W K 240V I PC ST 34/42	8.50	126975 00
SGP340 SON-T50W K 240V I PC ST P1 34/42	8.70	127019 00
SGP340 SON-T50W K 240V I PC ST P3 34/42	8.70	127057 00
SGP340 SON-T50W K 240V I PC ST 76	9.00	127095 00
SGP340 SON-T50W K 240V I PC ST P1 76	9.20	127132 00
SGP340 SON-T50W K 240V I PC ST P3 76	9.20	127170 00
SGP340 SON-T70W K EB I PC 34/42	8.53	610796 00
SGP340 SON-T70W K EB I PC P1 34/42	8.54	610413 00
SGP340 SON-T70W K EB I PC P3 34/42	8.55	610512 00
SGP340 SON-T70W K EB I PC 76	8.64	613650 00
SGP340 SON-T70W K EB I PC P1 76	8.85	610505 00
SGP340 SON-T70W K EB I PC P3 76	8.84	613667 00
SGP340 SON-T100W K EB I PC 34/42	8.35	610611 00
SGP340 SON-T100W K EB I PC P1 34/42	8.50	610260 00
SGP340 SON-T100W K EB I PC P3 34/42	8.54	610420 00
SGP340 SON-T100W K EB I PC 76	8.64	613728 00
SGP340 SON-T100W K EB I PC P1 76	8.84	613735 00
SGP340 SON-T100W K EB I PC P3 76	8.84	613742 00
SGP340 SON-T150W K EB I PC 34/42	9.00	610277 00
SGP340 SON-T150W K EB I PC P1 34/42	8.54	610437 00
SGP340 SON-T150W K EB I PC P3 34/42	8.55	610680 00
SGP340 SON-T150W K EB I PC 76	8.64	613803 00
SGP340 SON-T150W K EB I PC P1 76	8.85	610536 00
SGP340 SON-T150W K EB I PC P3 76	8.84	613810 00
SGP340 SON-T250W K 240V I PC ST 34/42	11.00	128719 00
SGP340 SON-T250W K 240V I PC ST P1 34/42	11.00	128726 00
SGP340 SON-T250W K 240V I PC ST P3 34/42	11.25	610819 00
SGP340 SON-T250W K 240V I PC ST 76	11.20	128733 00
SGP340 SON-T250W K 240V I PC ST P1 76	11.20	128740 00
SGP340 SON-T250W K 240V I PC ST P3 76	11.54	613858 00
SGP340 CPO-TW45W K EB I OR PC P1 34/42	8.50	630145 00
SGP340 CPO-TW45W K EB I OR PC P1 76	8.80	630169 00
SGP340 CPO-TW60W K EB I OR PC P1 34/42	8.50	630183 00
SGP340 CPO-TW60W K EB I OR PC P1 76	8.80	630206 00
SGP340 CPO-TW90W K EB I OR PC P1 34/42	8.55	630220 00
SGP340 CPO-TW90W K EB I OR PC P1 76	8.84	630244 00
SGP340 CPO-TW140W K EB I OR PC P1 34/42	8.55	630268 00
SGP340 CPO-TW140W K EB I OR PC P1 76	8.84	630282 00

Please contact your local Philips representative for additional configurations

SGS203

SGS203 – precision lighting

SGS203 is a modular luminaire in contemporary style for safe and comfortable driving, and for area illumination, with low energy and maintenance costs. It offers a choice of canopies and a bowl, or flat glass for minimal-glare. Dedicated optics optimise beam control and maximise light output. Five different reflector positions allow precise control of beam direction. Energy savings are possible, for instance with the Chronosense dimming system (no pilot cable required).

SGS203 is suitable for side entry or post top mounting.

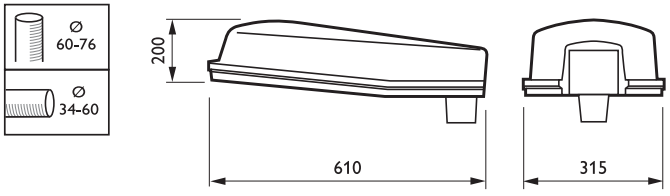
www.philips.co.uk/lighting

	SGS203
Type	SGS203 (glass-fibre-reinforced polyester canopy version)
Light source	HID: 1 x MASTERColour CDM-T / G12 / 70, 150 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W 1 x SON / E27 / 50, 70 W 1 x SON / E40 / 100, 150, 250 W 1 x SON-I / E27 / 50, 70 W 1 x MASTER SOX-E / BY22d / 18, 26 W 1 x SOX / BY22d / 35 W Compact fluorescent: 1 x MASTER PL-T 4 Pin / 32, 42 W Induction lamp system: 1 x MASTER QL system / 55 W
Lamp included	Yes (K) No
Mains voltage	240 V
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF) High Frequency Performer (HFP) Electronic (EB)
Optic	Faceted open T-POT (TP) for easy lamp access concept
Optical cover	Flat glass (FG), reduce glare and improve night nuisance Polycarbonate bowl (PC) vandal-resistant
Ignitor	Series (SI) Series, self-stopping (SS) Semi-parallel (SP) Semi-parallel, self-stopping (ST)

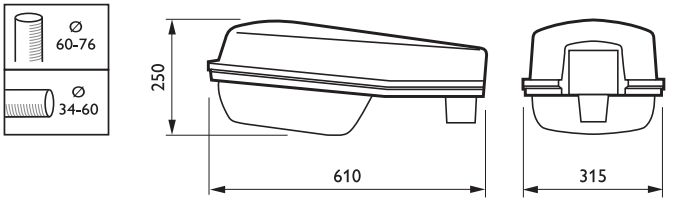
Options	Lighting controls: Chronosense (CH) Light regulation: Dimming switch (SW) Dimming switch with reverse function (SWR) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Pre-equipped cables without plug: cable lengths of: 9 m (C9000), 12 m (C12K), 14 m (C14K)
Materials and finishing	Canopy: glass-fibre-reinforced polyester Frame: sand-blasted die-cast aluminium Optical covers: polycarbonate bowl, UV-stabilised or toughened glass Reflector: high-purity aluminium
Colour	Grey (RAL 7035) Other RAL colours available on request
Installation	Side entry mounting: lateral entry Ø 34 mm Post top mounting: axial entry Ø 60 or 76 mm (60P, 76P) Recommended mounting height: 10 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: 5 positions Max windage area: 0.14 m^2 Max SCx values by side: 0.044 m^2
Maintenance	From above by opening the housing with a single quick-release clip Tools needed for geartray and disconnection of plug and socket
Accessories	Flexible spigot, ZGS200
Main applications	Residential and industrial areas, roads

IP43 gear compartment IP65 lamp compartment

CE



SGS203 FG



SGS203 PC

SGS203 road lighting luminaire with flat glass (FG)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS203 SON-TPP50W K 240V FG ST	7.09	720678 00
SGS203 SON-TPP50W K 240V FG ST P1	7.09	720685 00
SGS203 SON-TPP50W K 240V FG ST P3	7.10	722870 00
SGS203 SON-TPP70W K 240V FG ST	7.90	720715 00
SGS203 SON-TPP70W K 240V FG ST P1	7.90	720722 00
SGS203 SON-TPP70W K 240V FG ST P3	7.10	722894 00
SGS203 SON-TPP100W K 240V FG ST	7.60	720555 00
SGS203 SON-TPP100W K 240V FG ST P1	7.60	720562 00
SGS203 SON-TPP100W K 240V FG ST P3	7.10	722900 00
SGS203 SON-TPP150W K 240V FG ST	7.10	720593 00
SGS203 SON-TPP150W K 240V FG ST P1	7.10	720609 00
SGS203 SON-TPP150W K 240V FG ST P3	7.10	722917 00

Please contact your local Philips representative for additional configurations

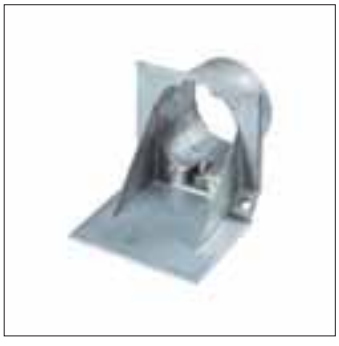
SGS203 road lighting luminaire with polycarbonate bowl

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS203 SON-TPP50W K 240V ST	5.60	720692 00
SGS203 SON-TPP50W K 240V ST P1	5.60	720708 00
SGS203 SON-TPP50W K 240V ST P3	7.10	722863 00
SGS203 SON-TPP70W K 240V ST	6.90	720739 00
SGS203 SON-TPP70W K 240V ST P1	6.90	720746 00
SGS203 SON-TPP70W K 240V ST P3	7.10	722887 00
SGS203 SON-TPP100W K 240V ST	6.60	720579 00
SGS203 SON-TPP100W K 240V ST P1	6.90	720586 00
SGS203 SON-TPP100W K 240V ST P3	7.10	720760 00
SGS203 SON-TPP150W K 240V ST	7.10	720616 00
SGS203 SON-TPP150W K 240V ST P1	7.10	720623 00
SGS203 SON-TPP150W K 240V ST P3	7.10	720784 00
SGS203 SON-TPP250W K 240V ST	7.30	720647 00
SGS203 SON-TPP250W K 240V ST P1	7.60	720654 00

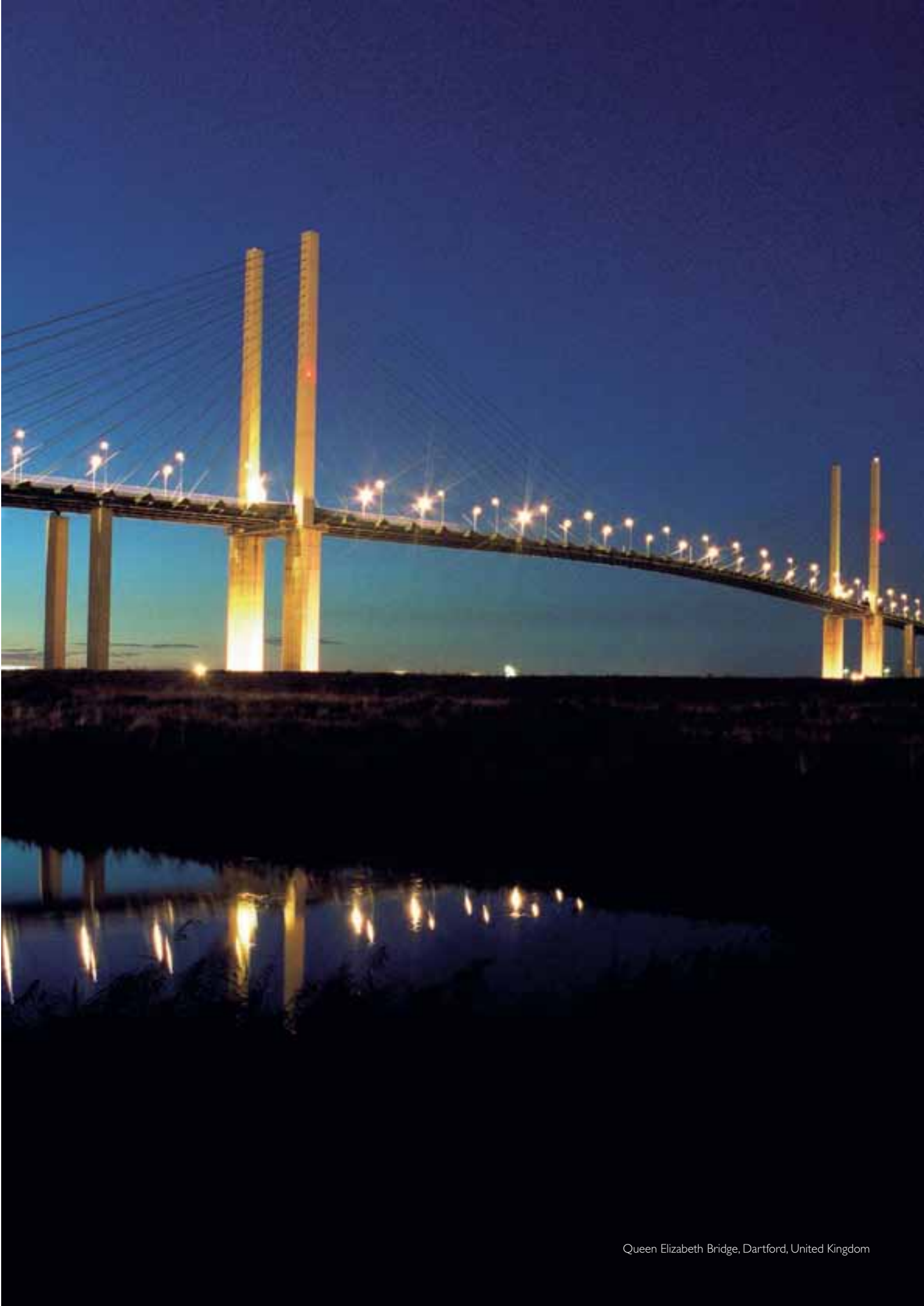
Please contact your local Philips representative for additional configurations

Accessories



Spigot either for side entry or for post top mounting

Product ID	EOC
ZGS200 SP34	931043 99
ZGS200 SP42/48	599506 99
ZGS200 SP60	216632 99
ZGS200 SP76	216649 99



Queen Elizabeth Bridge, Dartford, United Kingdom

AluRoad

AluRoad – street lighting made easy

AluRoad is a robust, compact road lighting luminaire that combines an attractive design with very good lighting performance. It is extremely easy to install and maintain, and offers a wide choice of energy efficient lamps.

The visual impression created by the aluminium canopy and polycarbonate bowl makes AluRoad compatible with existing road lighting applications.
AluRoad is available in two sizes – 450 and 560 mm, with corresponding adjustable reflectors and is suitable for side entry and post top mounting.

www.philips.co.uk/lighting

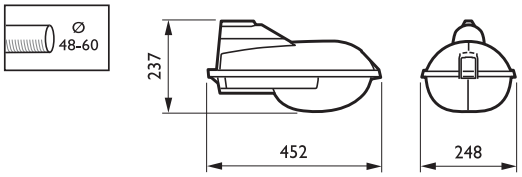
AluRoad SRP221 road lighting luminaire (small)

AluRoad SRP222 road lighting luminaire (large)

	AluRoad
Type	SRP221
Light source	HID: 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W
Lamp included	Yes (K)
Mains voltage	240 V
Gear	Electro magnetic (conventional), 240 V / 50 Hz
Optic	One piece deep drawn aluminium reflector (T-POT)
Optical cover	Polycarbonate bowl
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: Micro Minicell (P2)
Materials and finishing	Canopy: die-cast aluminium Reflector: high purity aluminium Optical covers: polycarbonate Closing clip: stainless steel
Colour	Grey, RAL 7035 Other RAL colours available on request

Installation	Side entry mounting: lateral entry Ø 48 / 60 mm (48/60) (or Ø 34 / 42 mm with reducing piece) Integrated spigot into luminaire Post top mounting: adaptors for Ø 60 / 76 mm Ambient temperature outdoor: -20°C < T_a < 35°C Recommended mounting height: 3.5 - 10 m Standard tilt angle post top: 5° Adjustable light distribution: 3 positions Max windage area: 0.022 m^2 Max SCx values by side: 0.065 m^2
Maintenance	Lamp accessible by opening the bowl with a single quick-release clip, replacement of the gear tray requires only one screw driver and the bowl replacement is easy and without any tools
Accessories	Post top adaptor ZRP220 AD60/60 A5 and ZRP220 AD76/60 A5, reducing piece for side entry spigot ZRP220 AD34/42
Main applications	Secondary roads, industrial and residential areas, roundabouts

IP65 lamp and gear compartment IK09



SRP221

AluRoad SRP221 road lighting luminaire (small)

Preferred selection

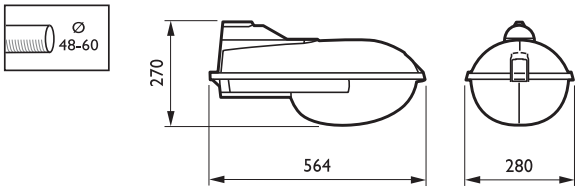
Product ID	Weight (kg)	European Order Code (EOC)
SRP221 SON-TPP50W K 240V ST 34/42	3.75	622898 00
SRP221 SON-TPP50W K 240V ST P2 34/42	3.80	622911 00
SRP221 SON-TPP50W K 240V ST 48/60	3.66	622904 00
SRP221 SON-TPP50W K 240V ST P2 48/60	3.71	622928 00
SRP221 SON-TPP70W K 240V ST 34/42	4.06	622935 00
SRP221 SON-TPP70W K 240V ST P2 34/42	4.11	622959 00
SRP221 SON-TPP70W K 240V ST 48/60	3.97	622942 00
SRP221 SON-TPP70W K 240V ST P2 48/60	4.02	622966 00
SRP221 CDO-TT70W K 240V ST 34/42	4.06	622850 00
SRP221 CDO-TT70W K 240V ST P2 34/42	4.11	622874 00
SRP221 CDO-TT70W K 240V ST 48/60	3.97	622867 00
SRP221 CDO-TT70W K 240V ST P2 48/60	4.02	622881 00

Please contact your local Philips representative for additional configurations

	AluRoad
Type	SRP222
Light source	HID: 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250* W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER CityWhite CDO-TT / E40 / 100, 150 W
Lamp included	Yes (K)
Mains voltage	240 V
Gear	Electro magnetic (conventional), 240 V / 50 Hz
Optic	One piece deep drawn aluminium reflector (T-POT)
Optical cover	Polycarbonate bowl
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: NEMA socket (P1), Minicell (P3)
Materials and finishing	Canopy: die-cast aluminium Reflector: high purity aluminium Optical covers: polycarbonate Closing clip: stainless steel
Colour	Grey, RAL 7035 Other RAL colours available on request

Installation	Side entry mounting: lateral entry Ø 48 / 60 mm (48/60) (or Ø 34 / 42 mm with reducing piece) Integrated spigot into luminaire Post top mounting: adaptors for Ø 60 / 76 mm Ambient temperature outdoor: -20°C < T_a < 35°C *note: T_a 25°C for 250 W lamp versions Recommended mounting height: 6 - 12 m Standard tilt angle post top: 5° Adjustable light distribution: 5 positions Max windage area: 0.027 m^2 Max SCx values by side: 0.080 m^2
Maintenance	Lamp accessible by opening the bowl with a single quick-release clip, replacement of the gear tray requires only one screw driver and the bowl replacement is easy and without any tools
Accessories	Post top adaptor ZRP220 AD60/60 A5 and ZRP220 AD76/60 A5, reducing piece for side entry spigot ZRP220 AD34/42
Main applications	Roads, crossings, roundabouts, industrial areas

IP65 IK09



SRP222

AluRoad SRP222 road lighting luminaire (large)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRP222 SON-TPP50W K 240V ST 34/42	4.50	623338 00
SRP222 SON-TPP50W K 240V ST P1 34/42	4.65	623352 00
SRP222 SON-TPP50W K 240V ST P3 34/42	4.57	623376 00
SRP222 SON-TPP50W K 240V ST 48/60	4.41	623345 00
SRP222 SON-TPP50W K 240V ST P1 48/60	4.56	623369 00
SRP222 SON-TPP50W K 240V ST P3 48/60	4.48	623383 00
SRP222 SON-TPP70W K 240V ST 34/42	4.85	623390 00
SRP222 SON-TPP70W K 240V ST P1 34/42	5.00	623413 00
SRP222 SON-TPP70W K 240V ST P3 34/42	4.92	623437 00
SRP222 SON-TPP70W K 240V ST 48/60	4.76	623406 00
SRP222 SON-TPP70W K 240V ST P1 48/60	4.91	623420 00
SRP222 SON-TPP70W K 240V ST P3 48/60	4.83	623444 00
SRP222 SON-T100W K 240V ST 34/42	5.15	623154 00
SRP222 SON-TPP100W K 240V ST P1 34/42	5.30	623178 00
SRP222 SON-TPP100W K 240V ST P3 34/42	5.33	623192 00
SRP222 SON-TPP100W K 240V ST 48/60	5.06	623161 00
SRP222 SON-TPP100W K 240V ST P1 48/60	5.21	623185 00

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRP222 SON-TPP100W K 240V ST P3 48/60	5.13	623208 00
SRP222 SON-TPP150W K 240V ST 34/42	5.80	623215 00
SRP222 SON-TPP150W K 240V ST P1 34/42	5.95	623239 00
SRP222 SON-TPP150W K 240V ST P3 34/42	5.87	623253 00
SRP222 SON-TPP150W K 240V ST 48/60	5.71	623222 00
SRP222 SON-TPP150W K 240V ST P1 48/60	5.86	623246 00
SRP222 SON-TPP150W K 240V ST P3 48/60	5.78	623260 00
SRP222 SON-TPP250W K 240V ST 34/42	6.93	623277 00
SRP222 SON-TPP250W K 240V ST P1 34/42	7.08	623291 00
SRP222 SON-TPP250W K 240V ST P3 34/42	7.00	623314 00
SRP222 SON-TPP250W K 240V ST 48/60	6.84	623284 00
SRP222 SON-TPP250W K 240V ST P1 48/60	6.99	623307 00
SRP222 SON-TPP250W K 240V ST P3 48/60	6.91	623321 00
SRP222 CDO-TT70W K 240V ST 34/42	4.85	623093 00
SRP222 CDO-TT70W K 240V ST P1 34/42	5.00	623116 00
SRP222 CDO-TT70W K 240V ST P3 34/42	4.92	623130 00
SRP222 CDO-TT70W K 240V ST 48/60	4.76	623109 00
SRP222 CDO-TT70W K 240V ST P1 48/60	4.91	623123 00
SRP222 CDO-TT70W K 240V ST P3 48/60	4.83	623147 00
SRP222 CDO-TT100W K 240V ST 34/42	5.15	622973 00
SRP222 CDO-TT100W K 240V ST P1 34/42	5.30	622997 00
SRP222 CDO-TT100W K 240V ST P3 34/42	5.22	623017 00
SRP222 CDO-TT100W K 240V ST 48/60	5.06	622980 00
SRP222 CDO-TT100W K 240V ST P1 48/60	5.21	623000 00
SRP222 CDO-TT100W K 240V ST P3 48/60	5.13	623024 00
SRP222 CDO-TT150W K 240V ST 34/42	5.80	623031 00
SRP222 CDO-TT150W K 240V ST P1 34/42	5.95	623055 00
SRP222 CDO-TT150W K 240V ST P3 34/42	5.87	623079 00
SRP222 CDO-TT150W K 240V ST 48/60	5.71	623048 00
SRP222 CDO-TT150W K 240V ST P1 48/60	5.86	623062 00
SRP222 CDO-TT150W K 240V ST P3 48/60	5.78	623086 00

Please contact your local Philips representative for additional configurations

Accessories

Post top adaptor

Product ID	EOC
ZRP220 AD60/60 A5	621341 00
ZRP220 AD76/60 A5	621358 00

Streetfighter

Streetfighter – contemporary style

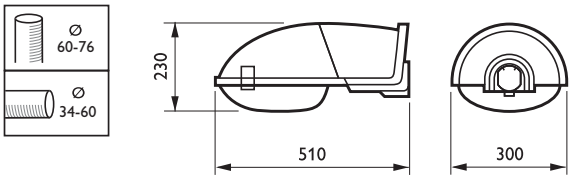
Streetfighter is a versatile road lighting luminaire. It offers modern styling and quality lighting for safe and comfortable driving, and for area illumination, with low investment and maintenance costs. The optical system has been designed to deliver good beam control and light output.

Streetfighter provides optimal illuminance and good uniformity when the mounting height approximately equals the road width and the mast spacing is approximately 3.5 times the road width. It is suitable for post top and side entry mounting; a wall mounting bracket is also available.

www.philips.co.uk/lighting

	Streetfighter
Type	SGS101 (small version)
Light source	HID: 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W 1 x SON / E27 / 50, 70 W 1 x SON-T / E27 / 50, 70 W
Lamp included	Yes (K) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz
Mains voltage	240 V
Optic	3 parts optic of high finish stucco aluminium
Optical cover	Polycarbonate bowl
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: NEMA socket (P1), Minicell (P3)
Materials and finishing	Canopy: glass-fibre-reinforced polypropylene, UV-stabilised Optical cover: polycarbonate Mounting module: die-cast aluminium, non-corrosive Gear carrier: glass-fibre-reinforced polycarbonate
Colour	Grey, RAL 7035
Installation	Side entry mounting: lateral entry Ø 34 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm Recommended mounting height: 6 m Adjustable tilt angle: n/a Adjustable light distribution: n/a Max windage area: 0.09 m^2 Max SCx values by side: 0.04 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray
Accessories	Spigots for 34 - 42 mm side entry, 48 - 60 mm side entry, 60 mm post top and 76 mm post top Wall mounting bracket
Main applications	Residential areas, roads, car parks, industry

IP43 gear compartment IP65 lamp compartment



SGS101

Streetfighter SGS101 road lighting luminaire, post top mounting

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS101 SON-TPP50W K 240V II MR SP	3.60	721040 00
SGS101 SON-TPP50W K 240V II MR SP P1	3.70	721057 00
SGS101 SON-TPP50W K 240V II MR SP P3	3.70	721064 00
SGS101 SON-TPP70W K 240V II MR SP	3.60	721071 00
SGS101 SON-TPP70W K 240V II MR SP P1	3.70	721088 00
SGS101 SON-TPP70W K 240V II MR SP P3	3.70	721095 00
SGS101 MAX70W-E27 II MR	2.20	931906 00
SGS101 MAX70W-E27 II MR P1	2.25	931913 00

Please contact your local Philips representative for additional configurations

Accessories

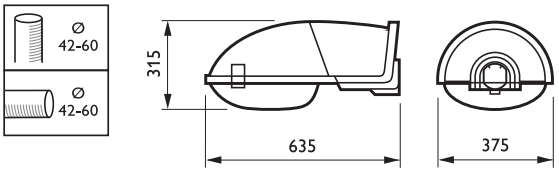
Product ID	Weight (kg)	European Order Code (EOC)
ZGP340 SP34/42	0.41	132501 99
ZGP340 SP48/60	0.41	131139 99
ZGP340 SP76P	0.41	131115 99

Please contact your local Philips representative for additional configurations

	Streetfighter
Type	SGS102 (large version)
Light source	HID: 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W 1 x SON-T / E40 / 100, 150, 250 W
Lamp included	Yes (K) No
Gear	Electro magnetic (low loss), 240 V / 50 Hz
Mains voltage	240 V
Optic	3 parts optic of high finish stucco aluminium
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Options	Photocell: NEMA socket (P1)
Materials and finishing	Canopy: glass-fibre-reinforced polypropylene, UV-stabilised Optical cover: polycarbonate Mounting module: die-cast aluminium, non-corrosive Gear carrier: glass-fibre-reinforced polycarbonate

Colour	Grey, RAL 7035
Installation	Side entry mounting: lateral entry Ø 34 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm Recommended mounting height: 10 m Adjustable tilt angle: n/a Adjustable light distribution: n/a Max windage area: 0.15 m^2 Max SCx values by side: 0.06 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray
Accessories	Spigots for 34 - 42 mm side entry, 48 - 60 mm side entry, 60 mm post top and 76 mm post top Wall mounting bracket
Main applications	Residential areas, roads, car parks, industry

IP43 gear compartment IP65 lamp compartment



SGS102

Streetfighter SGS102 road lighting luminaire, post top mounting

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS102 SON-TPP100W K 240V II MR SP	5.20	721101 00
SGS102 SON-TPP100W K 240V II MR SP P1	5.30	721118 00
SGS102 SON-TPP150W K 240V II MR SP	5.50	721125 00
SGS102 SON-TPP150W K 240V II MR SP P1	5.60	721132 00
SGS102 SON-TPP250W K 240V II MR SP	6.50	721149 00
SGS102 SON-TPP250W K 240V II MR SP P1	6.60	721156 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Weight (kg)	European Order Code (EOC)
ZGP340 SP34/42	0.41	132501 99
ZGP340 SP48/60	0.41	131139 99
ZGP340 SP76P	0.41	131115 99

Please contact your local Philips representative for additional configurations

Residium

Residium – innovative by design

Residium is a range of economical, easy-to-service, general purpose road lighting luminaires for PL-L and SOX lamps, offering low energy and maintenance costs. These luminaires have a balanced design and incorporate innovative mirror optics for optimum light distribution and minimal light pollution.

Residium is suitable for post top and side entry mounting.

www.philips.co.uk/lighting

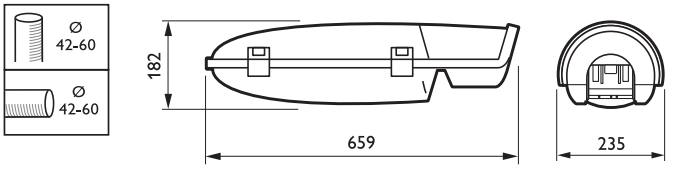
Residium FGS223 small version

Residium FGS224 medium version

Residium FGS225 large version

	Residium
Type	FGS223
Light source	HID: 1 x SOX / BY22d / 35 W Compact fluorescent: 1 x MASTER PL-L 4 Pin / 2G11 / 24 W
Lamp included	Yes (K or light colour 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High-Frequency Performer (HFP) High-Frequency Regulator (HFR) Electronic (EB)
Options	Light regulation: Dimming via SDU01S (D4) Dimming via SDU11S (D5) Photocell: NEMA socket (P1), Minicell (P3) Fuse (FU) included
Materials and finishing	Canopy: glass-fibre-reinforced polypropylene, UV-stabilised Frame: glass-fibre-reinforced polycarbonate Spigot: die-cast aluminium Optical cover: polycarbonate, UV-stabilised Clips: glass-fibre-reinforced polypropylene, UV-stabilised Front hinge: polycarbonate with steel wire Reflector plate: steel, lacquered Side mirrors: anodised aluminium, highly reflective
Colour	Grey, RAL 7035
Installation	Side entry mounting: lateral entry Ø 42 / 60 mm Post top mounting: axial entry Ø 42 / 60 mm Spigot is reversible for side entry and post top mounting Recommended mounting height: 5 m Standard tilt angle post top: n/a Adjustable tilt angle: 5 and 15° Adjustable light distribution: n/a Max windage area: 0.14 m^2 Max SCx values by side: 0.055 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray
Accessories	Spigots for 34 mm side entry and 76 mm post top mounting Internal louvres for G3
Main applications	Roads, residential and industrial areas, cycle paths

IP43 IP65



FGS223

Residium FGS223 road lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS223 PL-L24W/830 K HFP	3.10	720968 00
FGS223 PL-L24W/830 K HFP P1	3.20	720975 00
FGS223 PL-L24W/830 K HFP P3	3.60	722801 00
FGS223 SOX35W K EB	3.10	720982 00
FGS223 SOX35W K EB P1	3.20	720999 00
FGS223 SOX35W K EB P3	3.60	722818 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZGS223 LO	294767 00

Accessories

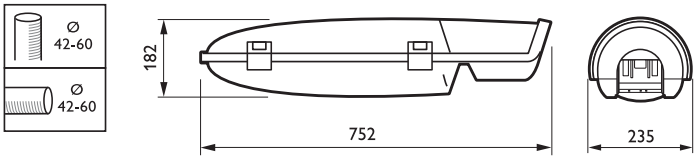
Product ID	Weight (kg)	European Order Code (EOC)
ZGP340 SP34/42	0.41	132501 99
ZGP340 SP48/60	0.41	131139 99
ZGP340 SP76P	0.41	131115 99

Please contact your local Philips representative for additional configurations

	Residium
Type	FGS224
Light source	HID: 1 x MASTER SOX-E / BY22d / 36 W 1 x SOX / BY22d / 55 W Compact fluorescent: 1 x MASTER PL-L 4 Pin / 2G11 / 36 W
Lamp included	Yes (K or light colour 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High-Frequency Performer (HFP) High-Frequency Regulator (HFR) Electronic (EB)
Options	Light regulation: Dimming via SDU01S (D4) Dimming via SDU11S (D5) Photocell: NEMA socket (P1), Minicell (P3) Fuse (FU) included
Materials and finishing	Canopy: glass-fibre-reinforced polypropylene, UV-stabilised Frame: glass-fibre-reinforced polycarbonate Spigot: die-cast aluminium Optical cover: polycarbonate, UV-stabilised Clips: glass-fibre-reinforced polypropylene, UV-stabilised Front hinge: polycarbonate with steel wire Reflector plate: steel, lacquered Side mirrors: anodised aluminium, highly reflective

Colour	Grey, RAL 7035
Installation	Post top mounting: axial entry Ø 42 / 60 mm Spigot is reversible for side entry and post top mounting Recommended mounting height: 6 m Standard tilt angle post top: n/a Adjustable tilt angle: 5 and 15° Adjustable light distribution: n/a Max windage area: 0.16 m^2 Max SCx values by side: 0.057 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray
Accessories	Spigots for 34 mm side entry and 76 mm post top mounting Internal louvres for G3
Main applications	Roads, residential and industrial areas, cycle paths

IP43 IP65



FGS224

Residium FGS224 road lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS224 PL-L36W/830 HFP	3.10	721002 00
FGS224 PL-L36W/830 HFP P1	3.15	721019 00
FGS224 PL-L36W/830 HFP P3	3.15	722825 00
FGS224 SOX55W K EB	3.20	721026 00
FGS224 SOX55W K EB P1	3.25	721033 00
FGS224 SOX55W K EB P3	3.25	722832 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZGS223 LO	294767 00

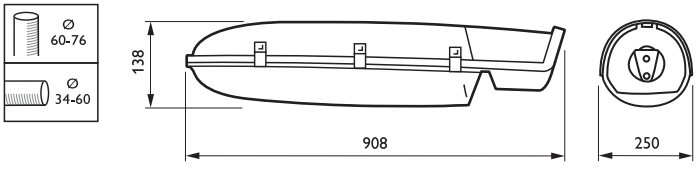
Accessories

Product ID	Weight (kg)	European Order Code (EOC)
ZGP340 SP34/42	0.41	132501 99
ZGP340 SP48/60	0.41	131139 99
ZGP340 SP76P	0.41	131115 99

Please contact your local Philips representative for additional configurations

	Residium
Type	FGS225
Light source	HID: 1 x MASTER SOX-E / BY22d / 66 W Compact fluorescent: 1 x MASTER PL-L 4 Pin / 2G11 / 55, 80 W
Lamp included	Yes (K or light colour 830 or 840) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High-Frequency Performer (HFP) High-Frequency Regulator (HFR) Electronic (EB)
Options	Light regulation: Dimming via SDU01S (D4) Dimming via SDU11S (D5) Photocell: NEMA socket (P1), Minicell (P3) Fuse (FU) included
Materials and finishing	Canopy: glass-fibre-reinforced polypropylene, UV-stabilised Frame: high-pressure-die-cast aluminium, Flexi-fit spigot integrated Optical cover: polycarbonate, UV-stabilised Clips: glass-fibre-reinforced polypropylene, UV-stabilised Front hinge: polycarbonate with steel wire Reflector plate: steel, lacquered Side mirrors: anodised aluminium, highly reflective
Colour	Grey, RAL 7035
Installation	Side entry mounting: lateral entry Ø 34 / 60 mm Post top mounting: axial entry Ø 60 / 76 mm Spigot is integrated and reversible for side entry and post top mounting Recommended mounting height: 7 m Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: n/a Max windage area: 0.19 m^2 Max SCx values by side: 0.059 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray
Accessories	Spigots for 34 mm side entry and 76 mm post top mounting Internal louvres for G3
Main applications	Roads, residential and industrial areas, cycle paths

IP43 IP65



FGS225

Residium FGS225 road lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS225 PL-L55W/830 K HFP 34/76	5.35	547985 00
FGS225 PL-L55W/830 K HFP P1 34/76	5.35	548029 00
FGS225 PL-L55W/830 K HFP P3 34/76	5.35	547008 00
FGS225 PL-L80W/830 K HFP 34/76	5.35	547978 00
FGS225 PL-L80W/830 K HFP P1 34/76	5.35	548012 00
FGS225 PL-L80W/830 HFP P3 34/76	5.34	546988 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZGS223 LO	294767 00
ZGS225 LO	294781 00

FGS103/104/105

FGS103/104/105 – economical and service-friendly

FGS103/104/105 are general purpose road lighting luminaires, available in three different lengths. They are economical and service-friendly, with low energy and maintenance costs. A UV-resistant polycarbonate refractor bowl ensures efficient, uniform lighting.

FGS103/104/105 are suitable for side entry or post top mounting.

www.philips.co.uk/lighting

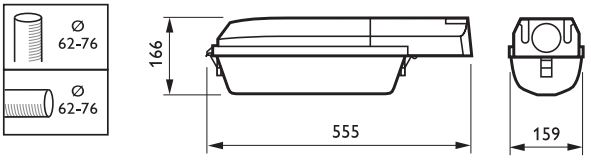
FGS103 road lighting luminaire, small version

FGS104 road lighting luminaire, medium version

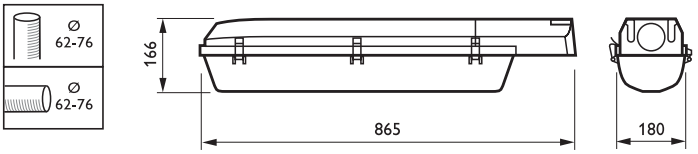
FGS105 road lighting luminaire, large version

	FGS103/104/105
Type	FGS103/104/105
Light source	FGS103 HID: 1 x SOX / BY22d / 35 W 1 x MASTER SOX-E / BY22d / 18, 26, 35 W Compact fluorescent: 1 MASTER PL-L 4 Pin / 2G11 / 24 W FGS104 HID: 1 x SOX / BY22d / 55 W 1 x MASTER SOX-E / BY22d / 36, 55 W Compact fluorescent: 1 MASTER PL-L 4 Pin / 2G11 / 36 W FGS105 HID: 1 x SOX / BY22d / 90 W 1 x MASTER SOX-E / BY22d / 66 W Compact fluorescent: 1 x MASTER PL-L 4 Pin / 2G11 / 40, 55 W Fluorescent: 1 or 2 x MASTER TL-D / G13 / 16, 18 W
Lamp included	Yes (K or light colour 830 or 840)
Mains voltage	240 V
Gear	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency Performer (HFP) Electronic (EB)
Options	Photocell: NEMA socket (P1), Minicell (P3) Fuse (FU) included
Materials and finishing	Canopy: glass-fibre-reinforced polyester, UV-stabilised Optical cover: polycarbonate Clips: stainless steel Mounting module: die-cast aluminium, non-corrosive
Colour	Canopy and gear plate: white
Installation	Side entry mounting: lateral entry Ø 34 - 60 mm (34S) Post top mounting: axial entry Ø 60 - 76 mm (76P) Standard tilt angle post-top: 5° Adjustable tilt angle: n/a Adjustable light distribution: n/a FGS103: Recommended mounting height: 4 - 6 m Max windage area: 0.09 m^2 Max SCx values by side: 0.03 m^2 FGS104: Recommended mounting height: 6 - 8 m Max windage area: 0.11 m^2 Max SCx values by side: 0.04 m^2 FGS105: Recommended mounting height: 8 m Max windage area: 0.14 m^2 Max SCx values by side: 0.05 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray
Accessories	Wall mounting bracket, ZGS103 MBW
Remarks	Ready-to-install versions available; lamp and installation material included (KIT)
Main applications	Roads, residential and industrial areas

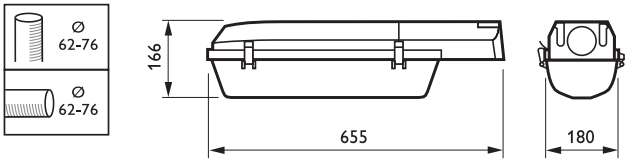
IP43 electrical connection compartment IP65 lamp/gear compartment



FGS103



FGS105



FGS104

FGS103 road lighting luminaire, small version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS103 SOX35W K EB FU 34S	3.70	721262 99
FGS103 SOX35W K EB P1 FU 34S	3.70	721286 99
FGS103 SOX35W K EB FU 76P	3.70	722771 00
FGS103 SOX35W K EB P1 FU 76P	3.70	721293 00

Please contact your local Philips representative for additional configurations

FGS104 road lighting luminaire, medium version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS104 PL-L36W/830 K HFP 34S	4.10	722788 00
FGS104 PL-L36W/830 K HFP P1 34S	4.10	721354 99
FGS104 PL-L36W/830 K HFP 76P	4.10	722795 00
FGS104 PL-L36W/830 K HFP P1 76P	4.10	721361 00
FGS104 SOX55W K EB FU 34S	4.10	721439 99
FGS104 SOX55W K EB P1 FU 34S	4.10	721453 99
FGS104 SOX55W K EB FU 76P	4.10	721446 00
FGS104 SOX55W K EB P1 FU 76P	4.10	721460 00

Please contact your local Philips representative for additional configurations

FGS105 road lighting luminaire, large version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS105 PL-L55W/830 K HFP 34S	4.80	721163 00
FGS105 PL-L55W/830 K HFP P1 34S	4.80	721187 00
FGS105 PL-L55W/830 K HFP 76P	4.80	721170 00
FGS105 PL-L55W/830 K HFP P1 76P	4.80	721194 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZGS103 MBW	150710 99

Also available as a standard luminaire kombipack

Individually packed with everything needed on site including lamp, photocell, prewired gear, mounting bracket, fixing accessories and easy to understand design guide.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGS104 SOX-E 36W 240V KP	3.20	922607 00
SNK070 1xSON-I 70W 240V KP	4.50	921327 00

Please contact your local Philips representative for additional configurations

SRS201

SRS201 – slender solution

SRS201 is a slender yet robust, economical road lighting luminaire for low pressure sodium lamps. It comes in three different sizes, all with a refractor bowl for optimal light distribution. Energy efficiency is assured.

SRS201 is designed for side entry mounting.

www.philips.co.uk/lighting

SRS201 small version

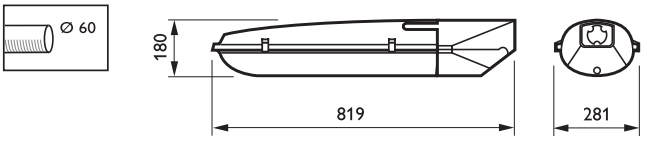
SRS201 medium version

SRS201 large version

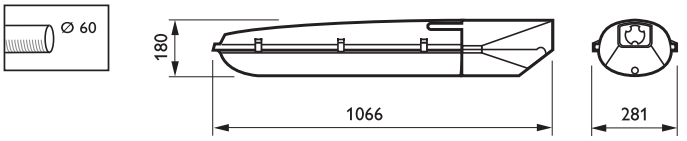
	SRS201
Type	SRS201
Light source	HID: 2 x MASTER SOX-E / BY22d / 66 W 1 x MASTER SOX-E / BY22d / 36, 55, 66, 91, 131 W 1 x SOX / BY22d / 55, 90, 135, 180 W
Compact fluorescent:	2 x MASTER PL-L 4 Pin / 2G11 / 36 W
Lamp included	No
Mains voltage	240 V
Gear	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB) Empty (E) (without gear)
Housing configuration	Gear shoe (GSH)
Options	Fuse included (FU) Photocell: NEMA socket (P1), 14 mm hole (P2) Extremely efficient HF gear for SOX-E 36 to 91 W and SOX 35 to 55 W versions Dimming facility for PL-L lamp version

Materials and finishing	Housing: glass-fibre-reinforced polyester, UV-stabilised Optical cover: methacrylate, UV-resistant
Colour	Housing: white
Installation	Side entry mounting: lateral entry Ø 42, 42 / 48 or 60 mm (60S) Recommended mounting height: 8 - 15 m (depending on configuration) Standard tilt angle post top: 5° Adjustable tilt angle: n/a Adjustable light distribution: n/a Max windage area: 90 W version: 0.21 m^2, 135 W version: 0.28 m^2 Max SCx values by side: 90 W version: 0.05 m^2, 135 W version: 0.09 m^2
Maintenance	Hinged bowl with quick-release clips and easily removable gear tray No internal cleaning required
Accessories	Prismatic refractors: large, ZRS201 PL-L, medium ZRS201 PL-M, small, ZRS201 PL-S
Main applications	Roads, roundabouts

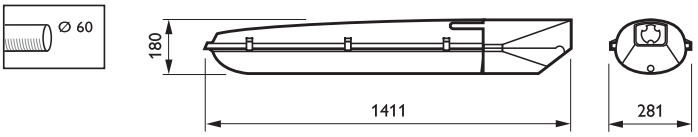
IP43 gear compartment IP65 lamp compartment



SRS201 36/55/66/90 W



SRS201 91/135 W



SRS201 131/180 W

SRS201 road lighting luminaire (90W)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRS201 SOX-E66W 240V 42S	10.00	918709 00
SRS201 SOX-E66W 240V P1 42S	10.00	918723 00
SRS201 SOX90W 240V 42S	9.00	918662 00
SRS201 SOX90W 240V P1 42S	9.00	918686 00
SRS201 MAX90W-BY22d 42S	5.20	918303 00
SRS201 MAX90W-BY22d P1 42S	5.20	918365 00
SRS201 SOX90W GSH 42/48S	6.10	918488 00
SRS201 SOX90W GSH P1 42/48S	6.10	918549 00

Please contact your local Philips representative for additional configurations

SRS201 road lighting luminaire (135W)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRS201 SOX-E91W 240V 42S	12.50	918747 00
SRS201 SOX-E91W 240V P1 42S	12.50	918761 00
SRS201 SOX135W 240V 42S	12.50	918600 00
SRS201 SOX135W 240V P1 42S	12.50	918624 00
SRS201 MAX135W-BY22D 42S	6.60	918327 00
SRS201 MAX135W-BY22d P1 42S	6.60	918389 00

Please contact your local Philips representative for additional configurations

SRS201 road lighting luminaire (180W)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SRS201 SOX180W GSH 42/48S	9.50	918525 00
SRS201 SOX180W GSH P1 42/48S	9.50	918587 00
SRS201 MAX180W-BY22d 42S	8.50	918341 00
SRS201 MAX180W-BY22d P1 42S	8.50	918402 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
ERS201 SOX90W 240V	5.00	920863 00
ERS201 SOX-E131W 240V	7.50	920788 00
ERS201 SOX135W 240V	6.00	920887 00
ERS201 SOX180W 240V	7.00	725789 00

Please contact your local Philips representative for additional configurations

Mont Blanc tunnel, France-Italy

What you ought to know about tunnel lighting

For smooth traffic flow, in bright daylight and total darkness, and in all weather conditions, tunnel lighting should give drivers the same sense of safety and comfort in the tunnel as on the open approach road. This means that drivers should have adequate visual information concerning the behaviour of other road users, the course of the road ahead and the presence of any obstacles in the tunnel entrance, to be able to react in time within a safe stopping distance (SSD). Guidelines for tunnel lighting according to CIE 88 can be found in document CIE 88-1990 "Guide for the lighting of road tunnels and underpasses".

www.philips.co.uk/lighting

When to light by day

Being adapted to the relatively high luminance outside, drivers will not be able to see details in a long tunnel, which appears on approach as a 'black hole'. For a short tunnel details may be visible in negative contrast when the tunnel appears as a dark frame around a bright background.

The decision whether a tunnel or underpass has to be lit during the day depends on the length of the tunnel, the visibility of the exit, the amount of natural light in the tunnel and the traffic density.
A guideline in this decision is offered by the CIE.

How to light by day

Good tunnel lighting takes care of good visibility conditions for the road users; this requires lighting levels that are matched with the adaptation level of the users' eyes.
As this adaptation level gradually changes while travelling through the tunnel for lighting purposes the tunnel can be divided lengthwise into five zones: the access, threshold, transition, interior and exit zone (Fig. 1).

The access zone

The access zone is not a part of the tunnel itself, but the approach road immediately before the tunnel entrance, from where drivers need to be able to see and stop in front of obstacles in the tunnel.
The length of the access zone is consequently equal to the safe stopping distance (SSD).
The maximum light adaptation condition of the drivers' vision in this zone, determines the luminance in the threshold zone at the beginning of the tunnel.
CIE defines the adaptation state as L20, the average luminance in a conical field of view of 2 x 10° centred in the tunnel opening at the safe stopping distance from the entrance.
L20 measurements and recordings for the access zone over a long period are the most solid basis for the entrance lighting design (Fig. 2).

The threshold zone

The required luminance level in the first section of the threshold zone, which length is equal to the safe stopping distance, is related to the L20, 'the outside luminance level', the stopping distance and the applied optical system as shown in Table 1 (next page). Daylight screens, louvres and other measures that reduce the L20 will proportionally reduce the amount of light and energy needed in the first zones of the tunnel. In the second half of the threshold zone the luminance level is decreased rapidly to 40% of the initial level (see Fig. 3 for a schematic representation).

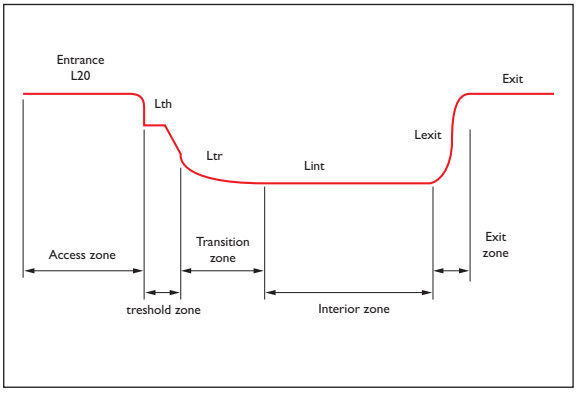


Fig. 1
The five tunnel zones defined for the purposes of lighting design

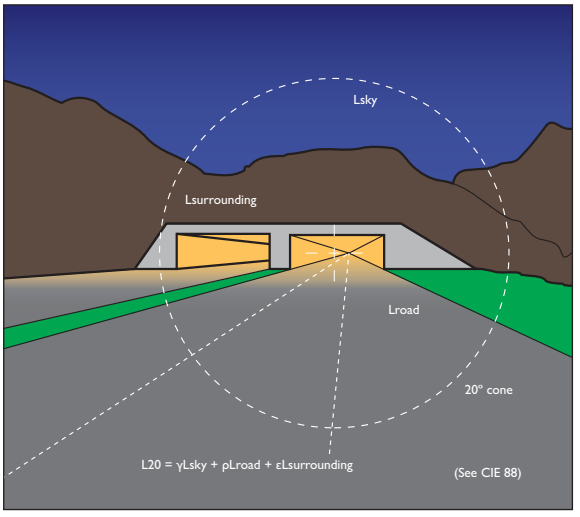


Fig. 2
Sketch showing the 20° conical field of view referred to in the text

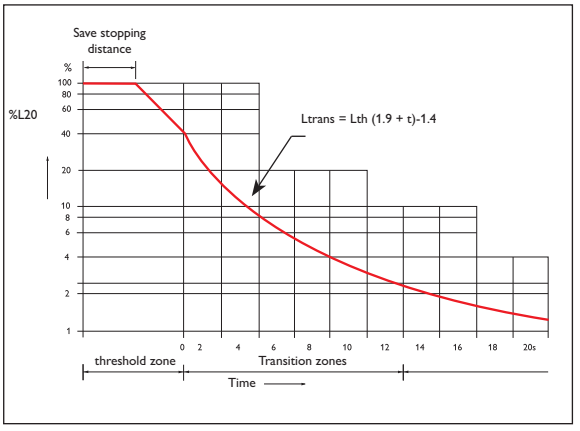


Fig. 3
Representation of lighting level in various zones

Transition zone

In the transition zone the lighting level is gradually reduced towards the level as required in the interior zone (Fig. 3). The reduction speed is related to the adaptation speed of the eyes and thus time dependent. The reduction steps should not exceed a ratio of 3:1.

Interior zone

In the interior zone, which is often the longest section of the tunnel, the required lighting levels are related to traffic speed and traffic density as shown in Table 2.

Exit zone

Visual adaptation from low to high level takes place instantaneously, but there are other reasons for installing an increased lighting level in the exit zone:

1 to make small cars following behind large lorries visible when the daylight at the exit is glaringly bright,
2 to make following cars visible in the rear-view mirror of a car leaving the tunnel and
3 to convert the exit into an entrance (at reduced speed) in case of an emergency or for maintenance.

Emergency lighting

Emergency lighting is normally part of the night-time lighting, but is fed from an uninterrupted power supply.

Table 1 Recommended threshold/access zone luminance ratios

Stopping distance (m)	Symmetrical lighting system Lth/ L20	Counter-beam lighting system Lth/ L20
60	0.05	0.04
100	0.06	0.05
160	0.10	0.07

Table 2 Recommended interior zone luminances (cd/m²)

Stopping distance (m)	Traffic density		
	<100 veh/h	100<veh/h<1000	>1000 veh/h
60	1	2	3
100	2	4	6
160	5	10	15

1

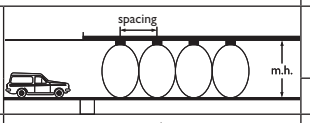
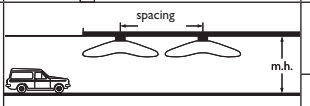
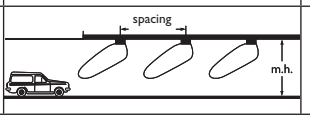
2

3

Birth-Velbert tunnel, Germany.
1: threshold zone.
2 and 3: transition zones.

Lighting system

- Symmetrical lighting is used for the entrance and interior lighting.
- Asymmetrical lighting (counterbeam) is used for entrance lighting when high contrast values are required or when the tunnel is not too short.
  Counterbeam lighting is adapted when high luminance levels are required (high Lth/L20 or high stopping distance).

Typical light distribution of the luminaire		max. sp/m.h. ratio	Preferred lamp type	Efficiency cd/W (q0=0.1)
Symmetrical-transversal		1.5	TL-D/PL-L	2.0
		1.5	SOX-E	4.0
		2.0	SON-T	2.8
Symmetrical-axial		3.5	SOX-E	4.5
		3.5	QL	2.4
		4	SON-T	3.5 - 4
Asymmetrical-counterbeam		2 - 2.5	SON-T	4.5

Symmetrical-transversal lighting

The light is mainly radiated at right angles to the axis of the tunnel. This results in good visual guidance, minimum glare, and light between the cars.

Symmetrical-axial lighting

The light is mainly radiated parallel to the tunnel axis, resulting in high efficiency and allowing wide luminaire spacing. However, occasional shadowing and uneven distance wall luminances can occur.

Asymmetrical-counterbeam lighting

The light is radiated parallel to the tunnel axis, mainly against the direction of the traffic flow, resulting in high efficiency and improved contrast, but with possible shadowing and uneven wall luminances.

Which lamp to use

The entrance of a tunnel needs high lighting levels of SON-T lamps. For other areas needing lower light levels, such as the interior zone or at night, compact fluorescent lamps can be used. Philips recommends TL-D and PL-L for the symmetrical-transversal lighting system and QL induction lamps for the symmetrical-axial lighting system. These white light sources are preferred for their good colour rendering over the more efficient SOX lamps. The light output of (compact) fluorescent lamps however is temperature dependent. In general, luminaire photometry is conducted at 25°C, but the average operating temperature in a tunnel can be much lower and therefore positively influence the efficacy.

Ostiche tunnel, Belgium

Tunlite™

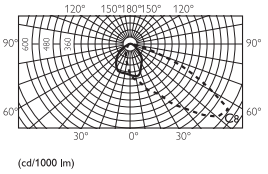
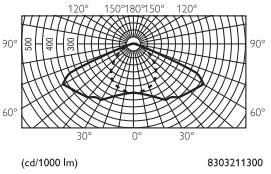
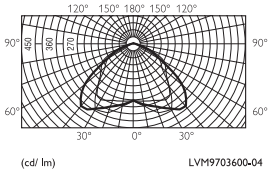
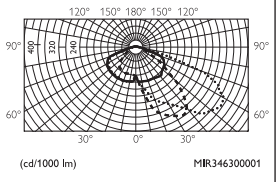
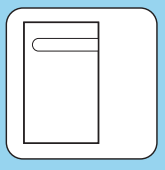
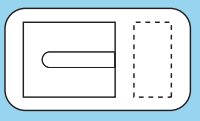
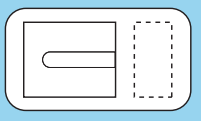
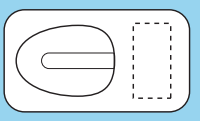
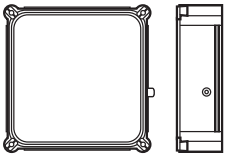
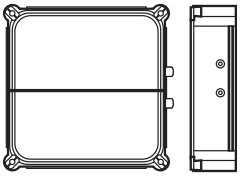
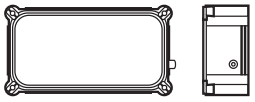
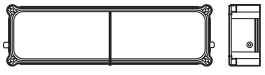
Tunlite™ – modular and flexible

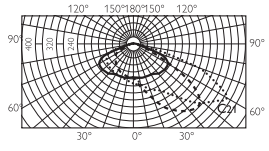
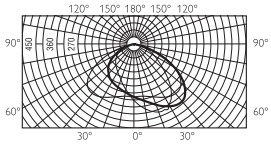
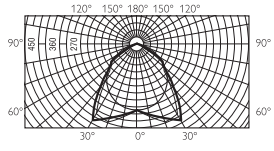
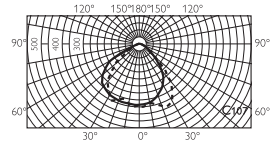
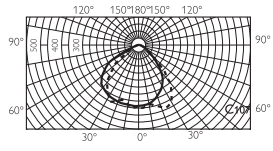
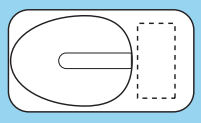
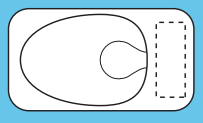
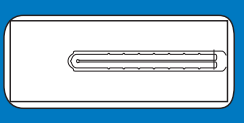
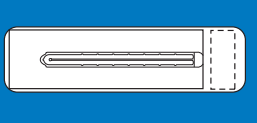
The Tunlite™ range is a range of luminaires for the lighting of tunnels, underpasses and other heavy duty applications. It is based on a modular concept that allows great flexibility in lighting design. Many different optical and lamp combinations are possible within the same housing, giving the designer the opportunity to optimize the lighting solution whilst maintaining the basic luminaire shape. The Tunlite™ range, which comprises four standard housings, has been designed with installers and maintenance personnel in mind – it offers rapid, tool-free access, and all the main assemblies can be removed or exchanged quickly and easily. A choice of brackets is available for ceiling, wall and continuous line mounting.

www.philips.co.uk/lighting

	Tunlite™
Type	CRX202/203/204/206
Light source	HID: CRX202 1 x SON-T / E40 / 100, 150, 250, 400 W CRX203 2 x SON-T / E27 / 70 W 2 x SON-T / E40 / 100, 150, 250, 400 W 2 x MASTER QL system / 55, 85 W 2 x MASTER PL-L 4 Pin / 2G11 / 36, 55 W 2 x SOX / BY22d / 35, 55, 90 W 2 x SOX-E / BY22d / 26, 36, 66 W CRX204 1 x SON-T / E27 / 70 W 1 x SON-T / E40 / 100, 150, 250, 400 W 1 x MASTER QL system / 55, 85 W 1 x MASTER PL-L 4 Pin / 2G11 / 36, 55 W 1 x SOX / BY22d / 35, 55, 90 W 1 x SOX-E / BY22d / 26, 36, 66 W CRX206 2 x SON-T / E27 / 70 W 2 x SON-T / E40 / 100, 150, 250, 400 W 2 x MASTER QL system / 55, 85 W 2 x MASTER PL-L 4 Pin / 2G11 / 36, 55 W 2 x SOX / BY22d / 35, 55, 90 W 2 x SOX-E / BY22d / 26, 36, 66 W 1 x SOX / BY22d / 135, 180 W 1 x SOX-E / BY22d / 91, 131 W
Lamp included	No
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 Hz: Electronic (EB) for Master PL-L / QL and SOX(-E) lamps
Optic	Range of beams for tunnel lighting (T1 to T10)
Ignitor	Semi-parallel (SP) Semi-parallel, self-stopping (ST)
Cable gland	Cable gland 1 x PG 16 mm (1PG16) Cable gland 2 x PG 16 mm (2PG16) Cable gland 4 x PG 16 mm (4PG16) Cable gland 1 x PG 21 mm (1PG21) Cable gland 2 x PG 21 mm (2PG21) Cable gland 4 x PG 21 mm (4PG21)
Options	Dimming gear, self-stopping ignitor, fuse (10 x 38 mm^2) and through-wiring Entrelec™ terminal block for 2 x 2.5 to 6 mm^2 wire with or without fuse 5 x 20 mm^2 (optional) All units equipped with 240 V / 50 Hz gear. Other voltages and frequencies optional
Materials and finishing	Housing: high-quality extruded AlMgSi alloy profiles and die-cast aluminium rounded corners, argon-welded Finishing of the housing by chromatization in accordance with DIN 50939 followed by 60 µm polyester powder coating RAL 7016 A self-adjusting removable front-glass frame of extruded aluminium, hinged on stainless-steel joints inside the housing and holding a 5 mm toughened one-sheet security glass. The IP66 integrity is maintained by two silicone rubber gaskets fitted at two levels in the extruded aluminium frame A removable optic and gear unit consists of a dedicated optical system of high-purity anodised aluminium (99.9 %) and an electrical part containing all electrical gear. These modular units are easily interchangeable without the need for tools, which simplifies installation and maintenance Mounting brackets, bolts and washers (as accessories): stainless steel Nylon washers between the aluminium profile and stainless-steel bracket to prevent electrochemical corrosion
Installation	Freedom and flexibility of mounting by means of quick-to-fit suspension brackets and special profiles over all sides of housing Glass-fibre-reinforced polycarbonate knobs (1/4 turn) for tool-less opening and closing of the front glass Quick-fastening devices for tool-less securing of the optic and gear unit Plug-and-socket connection for cables to the optic and gear unit Cable gland and a terminal block for wires up to 3 or 5 x 16 mm^2 per lamp
Accessories	Set of four brackets for ceiling mounting, ZRX208 Set of two tilt-adjustable brackets for wall mounting, ZRX209 Set of two brackets for continuous line mounting, ZRX210
Remarks	The luminaires are approved in accordance with IEC 60598-1/2-3
Main applications	Tunnels, underpasses

optional for SON-T lamps IP66 IK09

Lamp type			SON-T Plus		
Optical and Gear unit	Optic type	T1 (3420)	T2 (3412)	T3 (3451)	T4 (305)
	Gear wattage	100 - 400 W	100 - 400 W	100 - 400 W	70 - 150 W
	Light technical data	**CRX202 3420 1xSON-T PLUS 400W** Imax = 572 cd/1000 lm 1 x 55.000 lm 0° ◿ L.O.R. = 0.70 C = 8° γ = 52.5°  (cd/1000 lm)	**CRX206 3412 2xSON-T PLUS 400W** Imax = 289 cd/1000 lm 2 x 55.000 lm 0° ◿ L.O.R. = 0.75 C = 0° γ = 58°  (cd/1000 lm) 8303211300	**CRX204 3451 1xSON-T PLUS 400W** Imax = 349 cd/1000 lm 1 x 55.000 lm 0° ◿ L.O.R. = 0.86 C = 35° γ = 38°  (cd/ lm) LVM9703600-04	**2xSON-T PLUS150W** Imax = 388 cd/1000 lm 2 x 16.500 lm 0° ◿ L.O.R. = 0.75 C = 29° γ = 55°  (cd/1000 lm) MIR346300001
	Unit shape				
	Unit type	**TYPE 1**	**TYPE 2**		
Housing type					
lxwxh = 625x545x190 mm  CRX202 (1-lamp)		**1 x optical and gear unit type 1**			
lxwxh = 710x675x190 mm  CRX203 (2-lamp)					
lxwxh = 710x380x190 mm  CRX204 (1-lamp)					
lxwxh = 1380x380x190 mm  CRX206 (2-lamp)					
lxwxh = 1380x380x190 mm CRX206 (1-lamp)					

SON-T Plus	QL	PL-L	SOX/SOX-E	
T5 (306)	T6 - 55W (3702) T7 - 85W (3701)	T8 (3951)	T9 ≤ 90 W - T10 ≥ 90 W (3651)	
250 - 400 W	55 / 85 W	36 - 55 W	100 - 400 W	70 - 150 W
CRX204 306 POS.5 1xSON-T PLUS400W Imax = 403 cd/1000 lm 1 x 55.000 lm 0° ◿ L.O.R. = 0.78 C = 21° γ = 60°	**CRX204 3701 1 x QL 85W/840** Imax = 317 cd/1000 lm 1 x 6.000 lm 0° ◿ L.O.R. = 0.75 C = 25° γ = 39°	**CRX204 3951 1 x PL-L 55W/840** Imax = 392 cd/1000 lm 1 x 4.800 lm 0° ◿ L.O.R. = 0.82 C = 64° γ = 27°	**CRX204 3651 1 x SOX-E 66W** Imax = 323 cd/1000 lm 1 x 10.500 lm 0° ◿ L.O.R. = 0.81 C = 90° γ = 20°	**CRX206 3651 1 x SOX 180W** Imax = 323 cd/1000 lm 1 x 32.500 lm 0° ◿ L.O.R. = 0.81 C = 98° γ = 20°
 (cd/1000 lm) MIR3521000	 (cd/ lm) LVM7952000-00	 (cd/ lm) LVM9704300-02	 (cd/1000 lm) LVM9704200-00	 (cd/1000 lm) LVM9704200-05
				
TYPE 2				**TYPE 3**
2x optical and gear unit type 2				
1x optical and gear unit type 2				
1x optical and gear unit type 2				
				1 x optical and gear unit type 3

Telemanagement with the new Starsense system:

Starsense is a cost-effective telemanagement system for monitoring, controlling, metering and diagnosing outdoor lighting applications that saves energy, reduces maintenance costs and improves system reliability.

The system is designed to remotely manage and control outdoor light points on highways, roads, streets, in residential areas and in other similar applications. It enables individual light points to be switched on or off at any given time, or to be set to any dimming level that the lamp allows. The light points can be grouped to react at the same time depending on their specific location and thus provide different levels depending on, for example, whether they are lighting a roundabout or a crossing. It is also possible to programme different switching or dimming patterns depending on schedules or on the input of a weather sensor or traffic counter.

Starsense implements the most advanced repeating technology, enabling other light points to repeat commands when necessary, thereby ensuring that all commands will reach their destination whatever the state of the power grid.

Public lighting managers have long known that they could lower the operating costs of their systems if they could cost-effectively collect the critical data needed to make better planning and operational decisions. Starsense can achieve significant operating and energy cost savings while improving both the reliability and the quality of public lighting systems in combination with IP technology and the Internet.

Starsense monitors the age and condition of every lamp, thus eliminating the guesswork inherent in conventional installations.

Starsense can also be used to monitor failed lamps and report their location; maintenance costs can be minimised by considering the remaining life of nearby lamps that might be replaced during the same service call.

Finally, data collected by Starsense to track the hours of illumination for each lamp can be used to claim warranty replacement, establish unbiased product and supplier selection criteria, and validate energy bills for the system.

Architecture

Starsense is based on the LonWorks® protocol over power lines. This is an open protocol which is fully CENELEC EN50065-1 compliant, is known to work in outdoor lighting telemanagement solutions and is also used by other companies, thus allowing our customers to choose between different solutions available in the market without having to worry about which technology to use.

The Starsense system architecture consists of:

Outdoor Luminaire Controller (OLC)

Either built into the luminaire or fitted in the base of the pole, it switches and dims the lamp and detects lamp failures. It communicates to the Segment Controller via a power line and uses a 1-10 volt dimming signal as an interface to the electronic ballast and a relay to switch it on and off. The OLC has a digital input designed to connect to a photocell, enabling local control (switch on/off) when configured in this way.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
LLC7020/00	0.31	730868 99

Segment Controller (SC)

Built into the feeder pillar, it controls a number of OLCs connected to the same power grid and gathers information from them to be sent when required to the remote PC via a TCP/IP connection. The SC also has two inputs and two outputs that can be used to interface to other devices in the cabinet, such as traffic counters or weather sensors. Integrated into the SC is the Starsense Configurator Software, which provides installers and integrators with easy-to-use Web applications for configuring the OLCs and SCs on site, without any special skills being required.

A pre-configured version is also available. The SC is connected to a wireless router and contained in an IP rated housing, allowing an easy installation into feeder pillars. (please contact your Philips representative for more details)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
LFC7065	0.47	731841 00

Starsense Supervisor Software

For monitoring and managing the data from the SCs. It collects, aggregates and filters data before storing them in a central and open database. It provides Facility Managers with Web applications for analysing the data from this database in order to help them reduce maintenance costs and energy consumption and improve the lighting service. The Starsense Supervisor Software uses SOAP/XML commands, an open protocol to other asset management systems such as GIS (Geographical Information Systems) or billing systems.

Financial benefits

- **Savings through dimming**
  - Low traffic dimming
  - Constant Light Output (CLO)
  - Virtual Power Output (VPO)
  - Daylight switching
  - Increased lifetime of components
- **Savings due to improved maintenance**

  With feedback of information you have better forecasting and planning:
  - Improved group/spot replacement because no scouting is required
  - Predictive information about lamp failure
  - Only lamps that have reached group replacement time are replaced
  - Burning hours information can be used to manage guarantees

Non-financial benefits

- **Green issue**
  - Dimming = less light nuisance
  - Dimming = energy saving = lower consumption of fossil fuels
  - Less toxic lamp waste
- **Other**
  - Crime prevention by ensuring lights always on
  - Saved maintenance time can be used for other purposes

Suitable luminaires for Starsense

- Iridium family
- Modena
- Koffer^2 family
- Other versions or other luminaires with Starsense available on request

Example: Iridium SGS254

SGS253 SON-T70W EB 230 II TP PC GR D6
SGS253 SON-T100W EB 230 II TP PC GR D6
SGS253 SON-T150W EB 230 II TP PC GR D6

Example: Modena SGP681

SGP681 MAC70W EB 230 II CR PC CO GR D6
SGP681 MAC100W EB 230 II CR PC CO GR D6
SGP681 MAC150W EB 230 II CR PC CO GR D6

Example: Koffer^2 SGP

SGP100 SON-T150W EB II ACF D6
SGP100 SON-T100W EB II ACF D6

Chronosense

Chronosense allows energy savings by stand-alone step dimming without pilot cable; suitable for SON-T high-pressure sodium lamps. It is designed to work in combination with an external ignitor and standard electromagnetic ballast, coupled with an additional copper/iron dim coil, or tapped ballast.
Chronosense can also be used in combination with a Dynavision driver (connected to the 1-10V input).
Chronosense is not sold as an individual component, but is part of a luminaire.

Main applications

All applications that require dimming but for which no pilot cable is available: road and street lighting, residential and industrial areas, sports areas and tunnel lighting.
Ideal for applications for which specific dimming periods must be set in different places.

Features

- Provides dimming when no pilot cable is available
- Up to 35% energy savings
- No additional equipment on the network is needed
- Adaptable individual settings for dim down/up per luminaire
- Setting by dip switches
- For luminaires with lamp power up to 400 W
- Intelligent: adapts to daylight-saving time
- Built-in test mode
- Dimming duration independent of the switch on/off times

Installation

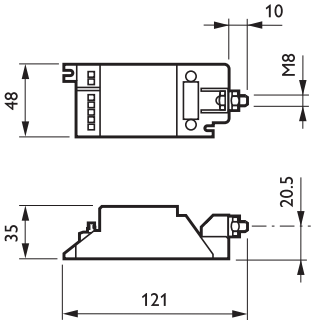
- Chronosense is available inside many outdoor luminaires
- Settings via dip switches directly on the component

Suitable luminaires for Chronosense

- Iridium family
- Koffer^2 family
- Modena family
- TrafficVision
- Other luminaires with Chronosense available only on request

Chronosense LLC7110/30

Product ID	European Order Code (EOC)
LLC7110/30 LUM BSD CONTR OUTDOOR	517247 99



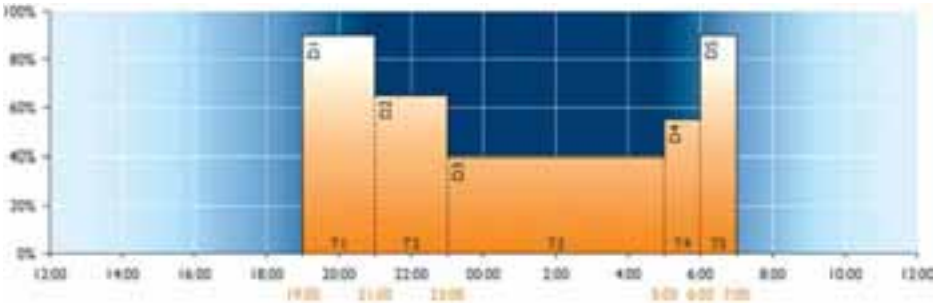
LLC7110/30

The flexible stand-alone dimming solution

The Dynadimmer is a luminaire based controller that can drive 1-10V electronic drivers according to a programmable dimming schedule.

The Dynadimmer dimming schedule is flexible up to five dimming levels and five time periods. Easy-to-operate PC based software and programming equipment enable end-users to program the dim times and dim levels to their required specification.

Savings are maximised with the Dynadimmer. The fact that any level can be configured at any time makes very low levels late at night possible, high levels at peak times (though not necessarily 100%) and medium levels during the transitional periods. For example, the following dimming schedule gives an overall yearly energy saving of 40%.



Dimming pattern

Features

- Stand-alone, self-regulating 1-10V control
- Five dimming levels, five time zones
- Easy (re-)scheduling with PC based software
- Country selector secures very accurate time calculation
- Programmable in factory or at job site with robust tool
- Small matchbox size to fit in most luminaires

Benefits

- No need to add additional control cables
- Maximized energy savings up to 50%
- Strongly reduced CO_2 emissions
- Return on investment less than 2-3 years
- Dimming schedule can always be adjusted when needed
- Reduced light pollution and green image

Installation

Dynadimmer is available inside many outdoor luminaires.
Please contact your local sales representative for more details.

Architectural lighting

Build your city identity

Identifying landmarks is an important step in developing a comprehensive approach to the urban environment. Lighting a building, a monument or a specific architectural feature contributes to the identity of a city, town or village. It also creates a marker for orientation. Whether you are working on a single building or an entire masterplan, Philips can offer state-of-the-art technologies and solutions, backed up by more than a century of lighting application expertise.

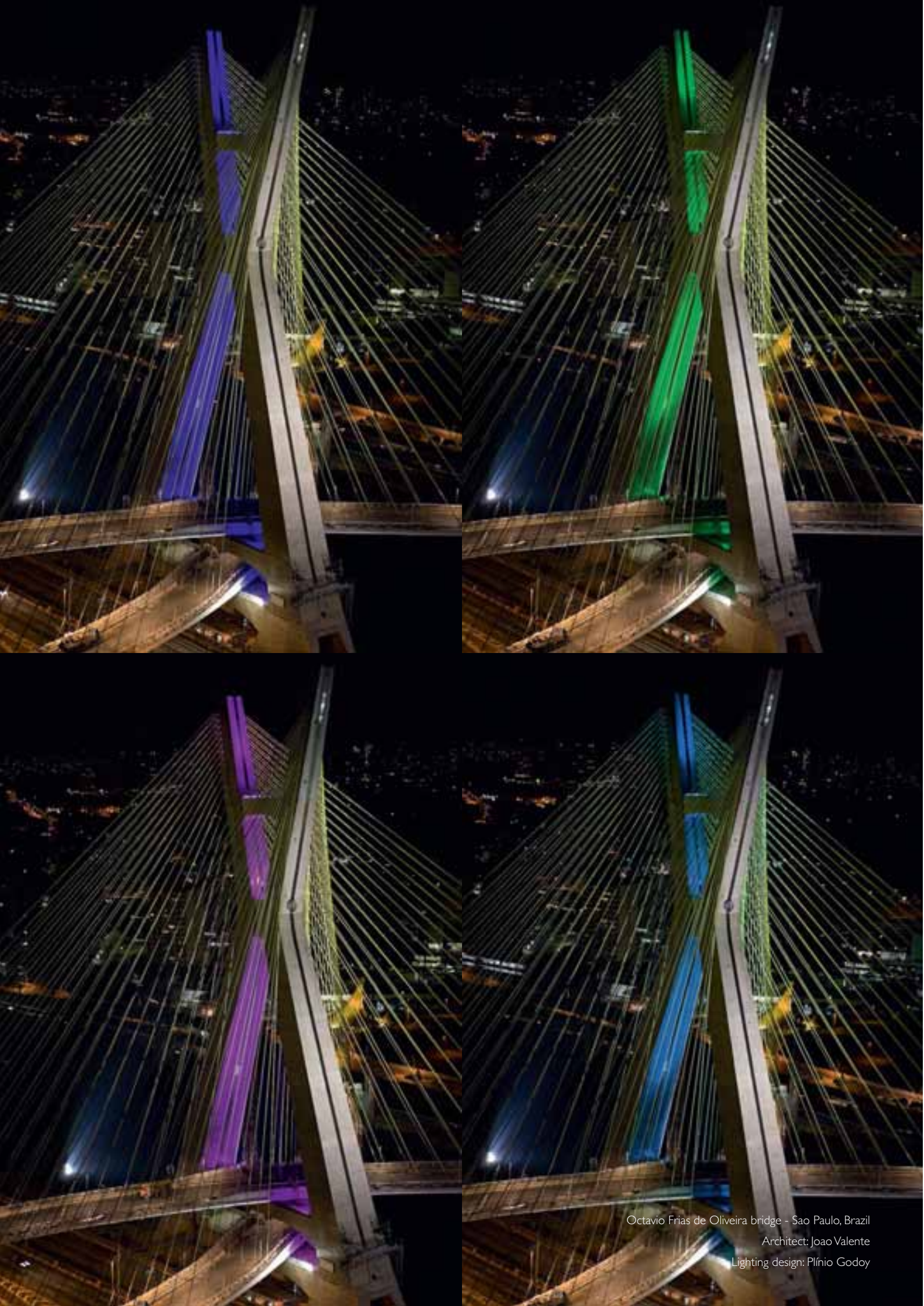
OLAC, Lyon, France

Explore the opportunities

The Philips Outdoor Lighting Application Centre (OLAC), based near Lyon in France, is the only facility of its kind anywhere in the world. This unique life-sized city environment is a test-bed where designers, architects and city officials can experience how light can improve the quality of urban life.

It offers access to Philips' world-class expertise and application know-how in the field of outdoor lighting and city beautification. Allow us to demonstrate how innovative lighting can add an extra dimension to architecture.

To visit the OLAC, please contact your local Philips representative.



Octavio Frias de Oliveira bridge - Sao Paulo, Brazil
Architect: Joao Valente
Lighting design: Plínio Godoy

Transform your world

Philips transforms environments through new, dynamic uses of light. Our lighting systems and technologies apply the benefits of LED lighting, a highly efficient, long-lasting, environmentally friendly and inherently digital source of illumination, thus reinventing light itself as a highly controllable medium.

For applications of colour and colour-changing light, Philips offers a growing line of fixtures, controllers and power/data supplies for diverse installations. Our systems mean colour can now be used in places where this was previously impossible or cost-prohibitive, enabling ordinary walls to be transformed into animated, customisable surfaces that can change the entire mood of a space at the push of a button.

For more information see the scene setting controls section of this chapter on page 4.85.

Luminaire	Type	Page	Ingress protection (IP value)	Gear integrated (i) separate (s)	Insulation class	SON (-T) PLUS	SDW-T	HAL PAR	Halogen
ColorReach Powercore									
	DCP770	4.14	66	-	I/II	-	-	-	-
LEDline2									
	BCS710/713/716/719/722	4.18	66	i	I	-	-	-	-
	BBS713/716	4.22	67	i	I	-	-	-	-
	BVS733	4.26	66	i	I	-	-	-	-
eW Graze Powercore									
	BCS419	4.29	66	-	II	-	-	-	-
ColorGraze Powercore									
	BCS459	4.33	66	-	II	-	-	-	-
ColorBlast 12 Powercore									
	BCP470	4.38	66	-	-	-	-	-	-
ColorBlast 12									
	BCP461	4.40	66	-	-	-	-	-	-
ColorBlast 6									
	BCP460	4.42	66	-	-	-	-	-	-
iW Blast 12 Powercore									
	BCP431	4.45	66	-	-	-	-	-	-
LEDflood									
	BCP731/732/733	4.50	65*1/66*2	s	I*1/II/III*2	-	-	-	-
	BBP731/732/733/741/742/743	4.52	67	-	I/II	-	-	-	-
SmartFlood LED									
	BCP400	4.56	66	i	I/II	-	-	-	-
Beamer LED									
	BCP725	4.60	66	i	I/II	-	-	-	-
ColorBurst 6									
	BCP466	4.64	66	-	-	-	-	-	-
iColor Accent Powercore									
	BCP494	4.67	66	-	-	-	-	-	-

Type	Page	CDM (-T/TT/ TSA)	CDM-R	CDM-TD	MHN-TD	HPI-T	PL (-C/E/T)	High/Low power LEDs	CPO-TW/TG	CDM-Tm	SDW-TG
DCP770	4.14	-	-	-	-	-	-	•	-	-	-
BCS710/713/716/719/722	4.18	-	-	-	-	-	-	•	-	-	-
BBS713/716	4.22	-	-	-	-	-	-	•	-	-	-
BVS733	4.26	-	-	-	-	-	-	•	-	-	-
BCS419	4.29	-	-	-	-	-	-	•	-	-	-
BCS459	4.33	-	-	-	-	-	-	•	-	-	-
BCP470	4.38	-	-	-	-	-	-	•	-	-	-
BCP461	4.40	-	-	-	-	-	-	•	-	-	-
BCP460	4.42	-	-	-	-	-	-	•	-	-	-
BCP431	4.45	-	-	-	-	-	-	•	-	-	-
BCP731/732/733	4.50	-	-	-	-	-	-	•	-	-	-
BBP731/732/733/741/ 742/743	4.52	-	-	-	-	-	-	•	-	-	-
BCP400	4.56	-	-	-	-	-	-	•	-	-	-
BCP725	4.60	-	-	-	-	-	-	•	-	-	-
BCP466	4.64	-	-	-	-	-	-	•	-	-	-
BCP494	4.67	-	-	-	-	-	-	•	-	-	-

Luminaire	Type	Page	Ingress protection (IP value)	Gear integrated (i) separate (s)	Insulation class	SON (-T) PLUS	SDW-T	HAL PAR	Halogen
C-Splash 2									
	BCP468	4.72	68	s	III	-	-	-	-
iColor Flex SL/SLX									
	BGC490	4.76	66	i	I	-	-	-	-
	BGC491	4.77	66	i	I	-	-	-	-
eW Flex SLX									
	BGC480	4.79	66	i	I	-	-	-	-
dTube									
	VWS	4.83	66	i	I	-	-	-	-
PROflood									
	DCP608	4.94	65	i	II	-	-	-	-
Decoflood									
	MVF605	4.108	65	- / s	I	-	-	●	-
	MVF606	4.110	65	i	I/II	●	●	-	-
	MVF607	4.112	65	i	I/II	●	-	-	-
	MVF616	4.114	65	i	I/II	●	●	-	●
	MVF617	4.118	65	i	I/II	●	-	-	-
	MVF619	4.120	66	i	I/II	-	-	-	-
	DWP603	4.122	65	s	I/II/III	-	-	●	●
	DWP604	4.122	65	i	I/II	-	-	-	●
DecoScene									
	DBP521	4.130	67	i	I/II	-	-	-	●
	DBP522	4.134	67	i	I/II	-	-	-	-
	DBP523	4.136	67	i	I/II	-	-	-	-
Amazon									
	DBC270/271	4.143	65	-	II	-	-	●	●
EFix Step Light									
	HWP200	4.146	65	i	I	-	-	-	-
	HWP201	4.146	65	i	I	-	-	-	-

Type	Page	CDM (-T/TT/ TSA)	CDM-R	CDM-TD	MHN-TD	HPI-T	PL (-C/E/T)	High/Low power LEDs	CPO-TW/TG	CDM-Tm	SDW-TG
BCP468	4.72	-	-	-	-	-	-	●	-	-	-
BGC490	4.76	-	-	-	-	-	-	●	-	-	-
BGC491	4.77	-	-	-	-	-	-	●	-	-	-
BGC480	4.79	-	-	-	-	-	-	●	-	-	-
VWS	4.83	-	-	-	-	-	-	●	-	-	-
DCP608	4.94	●	-	-	-	-	-	-	-	-	-
MVF605	4.108	-	●	-	-	-	-	-	-	-	-
MVF606	4.110	●	-	-	-	-	-	-	-	-	-
MVF607	4.112	●	-	-	-	-	-	-	-	-	-
MVF616	4.114	●	-	●	●	-	-	-	●	-	-
MVF617	4.118	●	-	-	●	●	-	-	●	-	-
MVF619	4.120	●	-	●	-	-	-	-	-	-	-
DWP603	4.122	-	●	-	-	-	-	-	-	-	-
DWP604	4.122	-	●	-	-	-	-	-	-	-	-
DBP521	4.130	-	-	-	-	-	●	-	-	●	
DBP522	4.134	●	-	●	-	-	-	-	-	-	-
DBP523	4.136	●	-	●	-	-	-	-	-	-	●
DBC270/271	4.143	-	-	-	-	-	●	-	-	-	-
HWP200	4.146	●	-	-	-	-	-	-	-	-	-
HWP201	4.146	-	-	-	-	-	●	-	-	-	-

Luminaire	Type	Page	Ingress protection (IP value)	Gear integrated (i) separate (s)	Insulation class	SON (-T) PLUS	SDW-T	HAL PAR	Halogen
EFix Step Marker									
	HWP100	4.148	54	i	I	-	-	-	-
	HWP101	4.148	54	i	I	-	-	-	-
	HWP102	4.148	54	i	I	-	-	-	-
	HWP103	4.148	54	i	I	-	-	-	-
	HWP104	4.148	54	i	I	-	-	-	-
Wall Marker assymetric LED									
	BWG331/332/333	4.152	54	-	II	-	-	-	-
DWP									
	DWP700	4.155	65	i	I	-	-	-	-
	DWP701	4.155	65	i	I	-	-	-	-
	DWP704	4.155	65	i	I	-	-	-	-
	DWP705	4.155	65	i	I	-	-	-	-
RCP200									
	RCP200	4.159	65	i	I	-	-	-	-
	RCP201	4.159	65	I	I	-	-	-	-
Amazon LED									
	BBC211	4.161	65	-	III	-	-	-	-
	BBC206	4.162	67	-	III	-	-	-	-
	BBC212	4.163	67	-	II	-	-	-	-
Marker LED									
	BBG300	4.166	67	i	II	-	-	-	-
	BBG310	4.167	67	i	II	-	-	-	-
	BBG320	4.168	67	i	II	-	-	-	-
Underwater LED									
	BCB450	4.172	68	s	III	-	-	-	-
	BCB451	4.173	68	s	III	-	-	-	-
	BBB451	4.176	68	s	III	-	-	-	-
Flex LED [NG]									
	BCC200	4.180	44/66	s	II	-	-	-	-

*1 Gear box

*2 Optical module

Type	Page	CDM (-T/TT/ TSA)	CDM-R	CDM-TD	MHN-TD	HPI-T	PL (-C/E/T)	High/Low power LEDs	CPO-TW/TG	CDM-Tm	SDW-TG
HWP100	4.148	-	-	-	-	-	●	-	-	-	-
HWP101	4.148	-	-	-	-	-	●	-	-	-	-
HWP102	4.148	-	-	-	-	-	●	-	-	-	-
HWP103	4.148	-	-	-	-	-	●	-	-	-	-
HWP104	4.148	-	-	-	-	-	●	-	-	-	-
BWG331/332/333	4.152	-	-	-	-	-	-	●	-	-	-
DWP700	4.155	●	-	-	-	-	-	-	-	-	-
DWP701	4.155	●	-	-	-	-	-	-	-	-	-
DWP704	4.155	●	-	-	-	-	-	-	-	-	-
DWP705	4.155	●	-	-	-	-	-	-	-	-	-
RCP200	4.159	-	-	-	-	-	●	-	-	-	-
RCP201	4.159	-	-	-	-	-	●	-	-	-	-
BBC211	4.161	-	-	-	-	-	-	●	-	-	-
BBC206	4.162	-	-	-	-	-	-	●	-	-	-
BBC212	4.163	-	-	-	-	-	-	●	-	-	-
BBG300	4.166	-	-	-	-	-	-	●	-	-	-
BBG310	4.167	-	-	-	-	-	-	●	-	-	-
BBG320	4.168	-	-	-	-	-	-	●	-	-	-
BCB450	4.172	-	-	-	-	-	-	●	-	-	-
BCB451	4.173	-	-	-	-	-	-	●	-	-	-
BBB451	4.176	-	-	-	-	-	-	●	-	-	-
BCG200	4.180	-	-	-	-	-	-	●	-	-	-

ColorReach Powercore

ColorReach Powercore – next-generation LED floodlight for signature façades and structures

The ColorReach Powercore is a high-performance architectural floodlight – the first LED unit powerful enough to brilliantly and dynamically illuminate large-scale façades and structures. It combines all the benefits of LED-based lighting and digital control, including colour-changing effects, in an elegant product. With unparalleled output of over 5000 lumen and unprecedented light projection over 150 metres, this powerful fixture represents the next generation in exterior illumination.

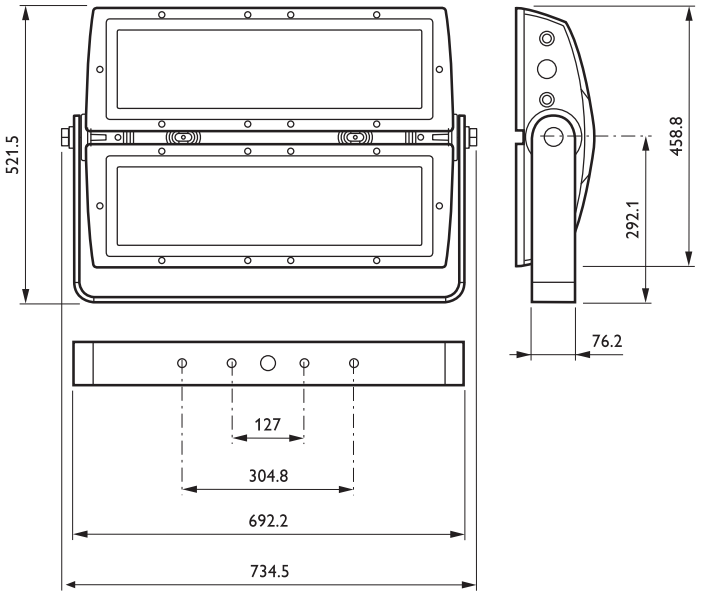
ColorReach's interchangeable spread lenses support a multitude of light distributions and applications, including spotlighting, wall grazing and asymmetric wall-washing.
The cost-effective product offers saturated colour output combined with Powercore technology. Power and data management is directly integrated into the product, thereby ensuring operational efficiency and simplifying installation.

www.philips.co.uk/lighting

ColorReach Powercore	
Type	DCP770
Light source	104 x LED-HB
Light colour	Tri-colour: red, green, blue (RGB)
Power consumption	290 W
Power/data supply	Not integrated, data enabler to be ordered separately
Inrush current	8.50 A

Driver	100-240 V AC / 50-60 Hz
Optic	5 (standard), 8, 13, 23, 43, 63, 5x17°
Controls	Philips full line DXM controllers, including Light System Manager, iPlayer3 or other DMX control sources
Materials and finishing	Housing: die-cast aluminium, powder-coat finish Lens: tempered glass
Colour	Dark grey
Installation	Fixation with bracket on surface Operating temperature: -40°C < T_a < +50°C Rotation: 360° Connection: integral male/female waterproof connector, 1.8 m leader cable Comes complete with Leader Cable
Lifetime	68.000 hours (50% lumen maintenance at T_a = 50°C)
Accessories	Spread lenses with bezel Leader cable, 1.8 m
Main applications	Flood lighting skyscrapers, monuments, bridges

IP 66



DCP770

ColorReach DCP770 architectural flood-lighting luminaire with 104 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DCP770 104xLED-HB/RGB 100-240V	34.00	701568 00

Please contact your local Philips representative for additional configurations

Accessories

Spread lenses

Product ID	Description	EOC
ZCP770 BSP A8	Spread lens, 8 degrees	701704 00
ZCP770 BSP A13	Spread lens, 13 degrees	701650 00
ZCP770 BSP A23	Spread lens, 23 degrees	701667 00
ZCP770 BSP A43	Spread lens, 43 degrees	701674 00
ZCP770 BSP A63	Spread lens, 63 degrees	701681 00
ZCP770 BSP A5-17	Asymmetrical spread lens, 5°x 17°	701698 00

Product ID	Description	EOC
ZCP770 C1800CE4	Additional Leader Cable	701636 99

LEDline^2

LEDline^2 – composing with light

LEDline^2 is a high-performance linear grazing light to create colour changing effects and seamless curtains of light. The new white colour variations with LUXEON® K2 LEDs, from cold to warm white, are well suited to enhance architectural details or facades and buildings with high quality white light. The new Mini LEDline^2 is suitable for a variety of new accent lighting applications. To create luminance effects on facades a new crossbeam version is available. The LEDline^2 range offers a simplified installation by featuring DMX/RDM and various connectors, cables lengths and mounting brackets.

www.philips.co.uk/lighting

LEDline² BCS713/716/722, surface-mounted version

LEDline² BBS713/716, recessed version

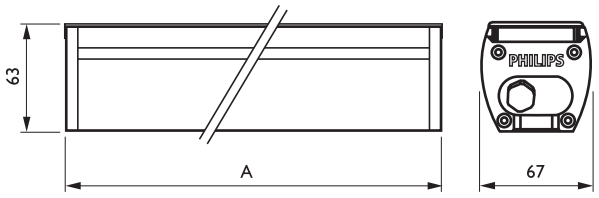
LEDline² BVS733, flood version

	LEDline²
Type	BCS710 (150 mm length, 6 x LEDs version) BCS713 (300 mm length, 12 x LEDs version) BCS716 (600 mm length, 6 x 60° wide beam LEDs version) BCS716 (600 mm length, 24 x LEDs version) BCS719 (900 mm length, 36 x LEDs version) BCS722 (1200 mm length, 12 x 60° wide beam LEDs version) BCS722 (1200 mm length, 48 x LEDs version)
Light source	LUXEON® I LED: cool white, blue, amber, green, red LUXEON® K2 LED: neutral white, warm white
Light colour	Mono: blue, amber, green, red, cool white, warm white, neutral white Tri colour: AWB (amber, white, blue), RGB (red, green, blue)
Power supply	220 - 240 V AC / 50 - 60 Hz (integrated gear)
Optic	Narrow beam (2 x 3°) for mono colour versions Medium beam (2 x 15°) Wide beam (2 x 30°) Wide crosswise beam (2 x 30°) Asymetrric beam: 90° x [-7° ; + 43°] (I max at 36°) (*1)
Driver	DMX/RDM protocol Throughwiring mains (mono-colour static)
Controls	ColourWheel ColourChaser DMX ColourChaser Touch Pharos Controls
Materials and finishing	Housing: anodized aluminium, extruded End caps: polycarbonate (grey) Flush front cover: metachrylate Bracket: anodized aluminium Optics: collimating lenses in metachrylate Recessing box and cover: backpainted sheet steel Bracket: anodized extruded aluminuim Screws: electro-zinc-plated steel

Options	XRL connector (X-HD series, 5 poles, IP65) Wieland connector RAL-colours Brackets (100, 150, 200 mm) Jumper cable choice Leader cable choice
Adjustment	Tilt optical unit: +/-15° Up and down lighting position
Options (in configurator)	XLR connector (X-HD series, 5 poles, IP65) BCS716/722 static mains throughwiring: Wieland connector (GESIS IP + RST 20i3) Leader cables (1/2/3/5 m length) Glow wire acrylic 650° or polycarbonate 850°
Colour	Silver grey Other RAL colours available on request
Installation	Wall and surface mounting Optical module fixed in position by universal and tiltable bracket Tilt wall mounted: 315° Tilt surface mounted: 30° Cool touch glass temperature 50°C Operating temperature: -20°C < T_a < 35°C
Lifetime	Optical module sealed for life; no internal cleaning required 50,000 hours (70% lumen maintenance)
Accessories	Mounting brackets (100/150/200 mm) Jumper cables mains (1, 2 m) Mounting frame BVS733 Termination block DMX with XLR5 connector
Remarks	Thermal management system to ensure long lifetime
Main applications	Architectural outdoor (floodlighting, wallwashing, grazing) Facades, buildings, bridges, structures, parks, gardens

IP66

CE



BCS710/713/716/719/722

	A
BCS710	156
BCS713	304
BCS716	594
BCS719	884
BCS722	1174

LEDline² BCS710 surface-mounted architectural flood-lighting luminaire with 6 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS710 6xLED-LXN/CW 6	0.72	678796 00
BCS710 6xLED-LXN/CW 60	0.72	678802 00
BCS710 6xLED-K2/WW 60	0.72	678765 00
BCS710 6xLED-K2/NW 6	0.72	678772 00

Please contact your local Philips representative for additional configurations

LEDline² BCS713 surface-mounted architectural flood-lighting luminaire with 12 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS713 12xLED-K2/WW 60	0.96	678826 00
BCS713 12xLED-LXN/WH 60	0.96	714172 00
BCS713 12xLED-K2/NW 6	0.93	678833 00
BCS713 12xLED-LXN/BL 6	0.93	714202 00
BCS713 12xLED-LXN/BL 60	0.96	714233 00
BCS713 12xLED-LXN/RD 6	0.93	714264 00
BCS713 12xLED-LXN/RD 60	0.96	714295 00
BCS713 12xLED-LXN/GN 6	0.93	714325 00
BCS713 12xLED-LXN/GN 60	0.96	714356 00
BCS713 12xLED-LXN/AM 6	0.93	714387 00
BCS713 12xLED-LXN/AM 60	0.96	714417 00

Please contact your local Philips representative for additional configurations

LEDLine² BCS716 surface-mounted architectural flood-lighting luminaire with 6 or 24 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS716 24xLED-LXN/WH 6	1.66	714448 00
BCS716 24xLED-LXN/WH 60	1.70	714479 00
BCS716 24xLED-LXN/BL 6	1.66	714509 00
BCS716 24xLED-LXN/BL 60	1.70	714530 00
BCS716 24xLED-LXN/RD 6	1.66	714561 00
BCS716 24xLED-LXN/RD 60	1.70	714592 00
BCS716 24xLED-LXN/GN 6	1.66	714622 00
BCS716 24xLED-LXN/GN 60	1.70	714653 00
BCS716 24xLED-LXN/AM 6	1.66	714684 00
BCS716 24xLED-LXN/AM 60	1.70	714714 00
BCS716 6xLED-LXN/WH 60	1.55	715049 00
BCS716 6xLED-LXN/BL 60	1.55	715070 00
BCS716 6xLED-LXN/RD 60	1.55	715100 00
BCS716 6xLED-LXN/GN 60	1.55	715131 00
BCS716 6xLED-LXN/AM 60	1.55	715162 00
BCS716 24xLED-K2/WW 60	1.70	678864 00
BCS716 6xLED-K2/WW 60	1.55	678895 00
BCS716 24xLED-LXN/CW 6 DMX	2.01	678956 00
BCS716 24xLED-LXN/CW 60 DMX	2.06	678963 00
BCS716 24xLED-LXN/RGB 30 DMX	2.06	679816 00
BCS716 24xLED-LXN/AWB 30 DMX	2.06	679823 00
BCS716 24xLED-LXN/RGB 60 DMX	2.06	679830 00
BCS716 24xLED-LXN/AWB 60 DMX	2.06	679847 00
BCS716 24xLED-K2/NW 6	1.66	678871 00

Please contact your local Philips representative for additional configurations

LEDline² BCS719 surface-mounted architectural flood-lighting luminaire with 36 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS719 36xLED-K2/WW 60	2.65	679007 00
BCS719 36xLED-LXN/CW 6	2.58	679038 00
BCS719 36xLED-LXN/CW 60	2.65	679045 00
BCS719 36xLED-K2/NW 6	2.58	679014 00
BCS719 36xLED-LXN/RGB 30 DMX	2.76	679939 00
BCS719 36xLED-LXN/AWB 30 DMX	2.76	679946 00
BCS719 36xLED-LXN/RGB 60 DMX	2.76	679953 00
BCS719 36xLED-LXN/AWB 60 DMX	2.76	679960 00

Please contact your local Philips representative for additional configurations

LEDline² BCS722 surface-mounted architectural flood-lighting luminaire with 12 or 48 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS722 12xLED-LXN/WH 60	2.80	715193 00
BCS722 12xLED-LXN/BL 60	2.80	715223 00
BCS722 12xLED-LXN/RD 60	2.80	715254 00
BCS722 12xLED-LXN/AM 60	2.80	715308 00
BCS722 12xLED-LXN/GN 60	2.80	717685 00
BCS722 12xLED-K2/WW 60	2.80	679090 00
BCS722 48xLED-LXN/WH 6	3.22	714745 00
BCS722 48xLED-LXN/WH 60	3.31	714776 00
BCS722 48xLED-LXN/BL 6	3.22	714806 00
BCS722 48xLED-LXN/BL 60	3.31	714837 00
BCS722 48xLED-LXN/RD 6	3.22	714868 00
BCS722 48xLED-LXN/RD 60	3.31	714899 00
BCS722 48xLED-LXN/GN 6	3.22	714929 00
BCS722 48xLED-LXN/GN 60	3.31	714950 00
BCS722 48xLED-LXN/AM 6	3.22	714981 00
BCS722 48xLED-LXN/AM 60	3.31	715018 00
BCS722 48xLED-K2/WW 60	3.31	679069 00
BCS722 48xLED-LXN/CW 6 DMX	3.33	679151 00
BCS722 48xLED-LXN/CW 6 DMX	3.33	679168 00
BCS722 48xLED-LXN/RGB 30 DMX	3.43	679854 00
BCS722 48xLED-LXN/AWB 30 DMX	3.43	679861 00
BCS722 48xLED-LXN/RGB 60 DMX	3.43	679878 00
BCS722 48xLED-LXN/AWB 60 DMX	3.43	679885 00
BCS722 48xLED-K2/NW 6	3.22	679076 00

Please contact your local Philips representative for additional configurations

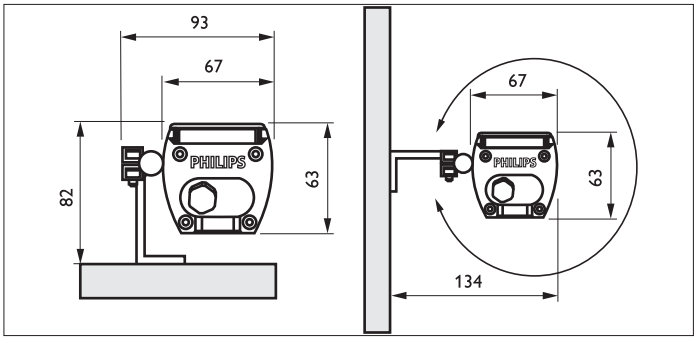
Accessories

Mounting bracket (included with Surface Mounted luminaires)

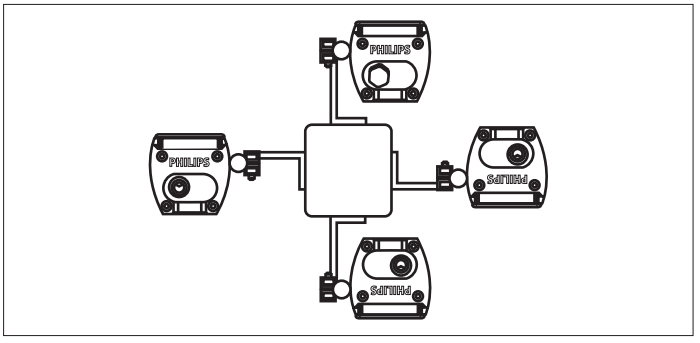
Product ID	EOC
ZCS711 MB L71 W100	679670 00
ZVS733 MFRM	679748 00

Product ID	Description	EOC
ZCS711 TB-XLR5	Termination Block for DMX line with XLR5 connectors	679700 00
ZCS711 C1000W	Through Wiring Extension Cable 1 m	679311 00
ZCS711 C2000W	Through Wiring Extension Cable 2 m	679328 00

Wall and surface mounting possibilities



Wall and surface mounting possibilities: uplighting or downlighting

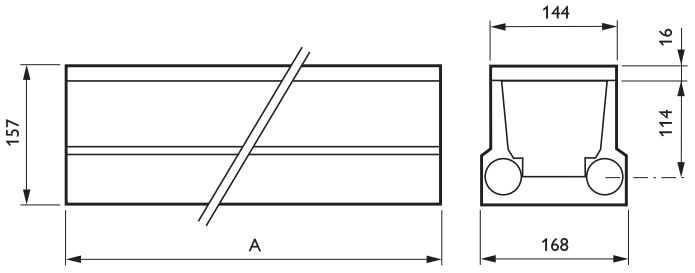


	LEDline², recessed
Type	BBS713 (300 mm length, 12 x LEDs version) BBS716 (600 mm length, 24 x LEDs version)
Light source	LUXEON® I: cool white, amber, red, green, blue LUXEON® K2: warm white, neutral white
Light colour	Mono-colour: blue (BL), amber (AM), green (GN), red (RD), cool white (CW), neutral white (NW), warm white (WW) BBS716: tri-colour: amber, white, blue (AWB), red, green, blue (RGB)
Power supply	220-240 V AC / 50-60 Hz (integrated gear)
Optic	Narrow beam: 6° Medium beam: 30° Wide beam: 60° Wide beam crosswise: 60° Asymmetric beam: 90° x [-7° ; + 43°] (I max at 36°)
Driver/electronic interface	DALI/1-10V protocol (mono-colours) DMX/RDM protocol (RGB, AWB, NW, WW)
Controls	ColourChaser Touch: DMX/RDM ColourChaser DMX144: DMX ColourChaser Wheel: DMX iPlayer3: DMX MutliDim DALI/ 1-10V (note: DALI/1-10V version does not store DALIscenes)
Options (in configurator)	XLR connector (X-HD series, 5 poles, IP65) Leader cables (1/2/3/5 m length)

Materials and finishing	Housing: cast aluminium Recessing box and cover: sheet steel Flush tempered front glass with dark-grey screen print and transparent optical window Bracket: anodized aluminium Frame and screws: stainless steel
Colour	Black painted
Installation	Wall- and in-ground mounting Supplied with sheet-metal recessing box and cover for ground or wall preparation: flush luminaire Suitable for permanent installation in ground with drainage system Internal optical unit tiltable: 10° Cool touch glass temperature: 50°C Optimal distance wall/optical unit: 150 to 300 mm Operating temperature: -20°C < T_a > 35°C
Lifetime	Optical module sealed for life; no internal cleaning required 50,000 hours (70% lumen maintenance)
Static load	500 kg
Accessories	Termination block DMX with XLR5 connector
Remarks	Thermal management system to ensure long lifetime
Main applications	Architectural outdoor (floodlighting, wallwashing, grazing)

IP 67 IK 10 960°C

CE

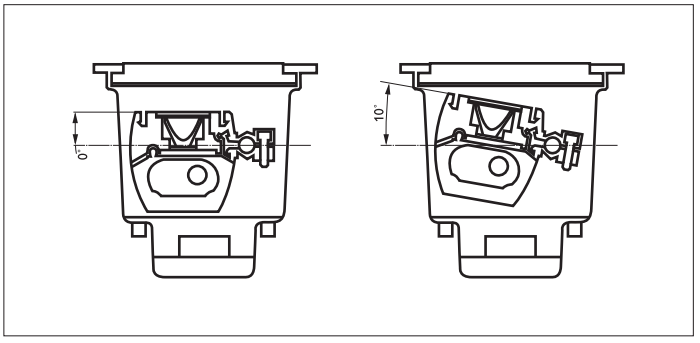


BBS713/716

	A
BBS713	432
BBS716	722

BBS713/716, exploded view

Optical module tilt



LEDline² BBS716 recessed architectural flood-lighting luminaire with 24 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBS716 24xLED-LXN/WH 6	12.20	715629 00
BBS716 24xLED-LXN/WH 60	12.24	715650 00
BBS716 24xLED-K2/WW 30	12.24	679229 00
BBS716 24xLED-LXN/BL 6	12.20	715681 00
BBS716 24xLED-LXN/CW 30	12.24	679243 00
BBS716 24xLED-LXN/BL 60	12.24	715711 00
BBS716 24xLED-LXN/RD 6	12.20	715742 00
BBS716 24xLED-LXN/RD 60	12.24	715773 00
BBS716 24xLED-LXN/GN 6	12.20	715803 00
BBS716 24xLED-LXN/GN 60	12.24	715834 00
BBS716 24xLED-LXN/AM 6	12.20	715865 00
BBS716 24xLED-LXN/AM 60	12.24	715896 00

Please contact your local Philips representative for additional configurations

LEDline² BBS713 recessed architectural flood-lighting luminaire with 12 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBS713 12xLED-LXN/WH 6	7.48	715339 00
BBS713 12xLED-LXN/WH 60	7.50	715360 00
BBS713 12xLED-K2/WW 30	7.50	679199 00
BBS713 12xLED-LXN/BL 6	7.48	715384 00
BBS713 12xLED-LXN/CW 30	7.50	679212 00
BBS713 12xLED-LXN/BL 60	7.50	715414 00
BBS713 12xLED-LXN/RD 6	0.99	715445 00
BBS713 12xLED-LXN/RD 60	7.50	715476 00
BBS713 12xLED-LXN/GN 6	7.48	715506 00
BBS713 12xLED-LXN/GN 60	7.50	715537 00
BBS713 12xLED-LXN/AM 6	7.48	715568 00
BBS713 12xLED-LXN/AM 60	7.50	715599 00

Please contact your local Philips representative for additional configurations

Accessories

Recessed mounting box for LEDline² BBS713 - Supplied with Recessed luminaire

Product ID	EOC
ZCS713 RMB	715988 00

Recessed mounting box for LEDline² BBS716 - Supplied with Recessed luminaire

Product ID	EOC
ZCS716 RMB	715995 00

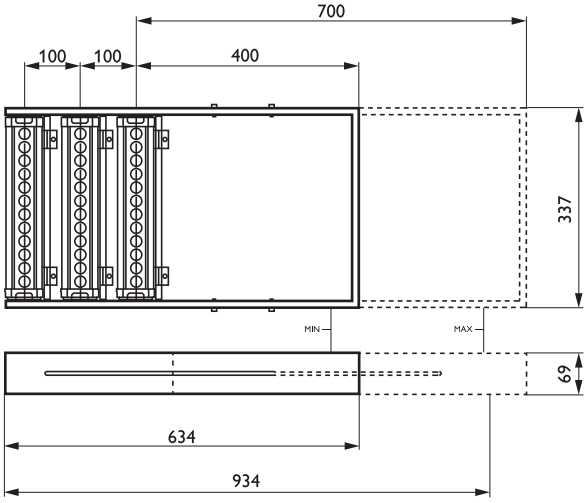
Buckingham Palace, London, United Kingdom
Photography: Edmund Summer

	LEDline², flood
Type	BVS733 (3 x 300 mm length, 3 x 12 = 36 LEDs version)
Light source	LUXEON® I: cool white, amber, red, green, blue LUXEON® K2: warm white, neutral white
Light colour	Mono-colour: blue (BL), amber (AM), green (GN), red (RD), cool white (CW), neutral white (NW), warm white (WW)
Power supply	220-240 V AC / 50-60 Hz (integrated gear)
Optic	Narrow beam: 6°
Driver/electronic interface	DALI/1-10 V protocol
Controls	MutliDim DALI/ 1-10V (note: DALI/1-10V version does not store DALIscenes)
Materials and finishing	Housing: anodized aluminium, extruded End caps: polycarbonate Flush and clear front cover: PMMA Bracket: anodized aluminium, extruded Screws: electro-zinc-plated steel

Colour	Silver grey
Installation	Wall mounting for up- and downlighting (up to 8 m) Three independent optical modules fixed together within a bracket Modules can be tilted separately +/- 15° Adjustable bracket from 400 to 700 mm Operating temperature: -20°C < T_a < 35°C
Lifetime	Optical module sealed for life; no internal cleaning required 50,000 hours (70% lumen maintenance)
Remarks	Thermal management system to ensure long lifetime
Main applications	Architectural outdoor (floodlighting)

IP66 650°C acrylic version 850°C polycarbonate version

CE



BVS733

LEDline² BVS733 architectural flood-lighting luminaire with cluster of three modules

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BVS733 36xLED-LXN/AM/GN/BL 6	7.50	715926 00
BVS733 36xLED-LXN/AM/GN/BL 6 D10	1.30	715940 00
BVS733 36xLED-LXN/BL 6	6.83	715957 00
BVS733 36xLED-LXN/BL 6 D10	7.09	715971 00

Please contact your local Philips representative for additional configurations

Chelsea Bridge, London, United Kingdom
Lighting design: Atkins Odin
Photography: Newbery Smith Photography

eW Graze Powercore

eW Graze Powercore – linear white LED surface light for wall washing and grazing

eWGraze Powercore is a linear lighting product optimised for surface grazing and wall-washing applications requiring high-quality white light.

eW Graze Powercore offers superior illumination quality and dramatic energy savings for new installations and retrofit upgrades. Its space efficient, low-profile, exterior-rated aluminium housing and flexible mounting options allow discreet placement within a wide range of compact architectural details.

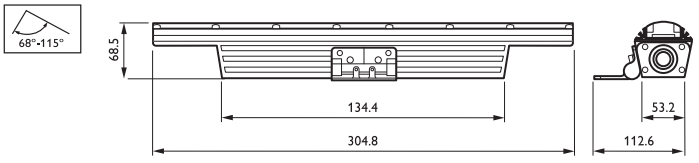
Featuring Powercore technology, eW Graze Powercore processes power directly from line voltage, eliminating the need for low-voltage, external power supplies.

www.philips.co.uk/lighting

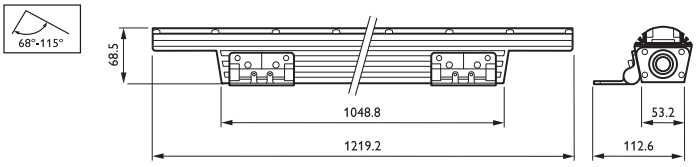
	eWGraze Powercore
Type	BCS419
Light source	12 x LED-HB (305 mm length version) 24 x LED-HB (609 mm length version) 36 x LED-HB (914 mm length version) 48 x LED-HB (1219 mm length version)
Light colour	Warm white (WW) Cool white (NW)
Power consumption	305 mm length version: 14 W 1219 mm length version: 56.3 W
Power/data supply	Integrated
Inrush current	1.10 A
Driver	100 / 120 / 230 / 277 V AC / 50-60 Hz
Optic	9 x 9° (9) 10 x 60° (10) 15 x 30° (15) 30 x 60° (30) 60 x 30° (30C)
Controls	Line Switch, ELV commercially available dimmers

Materials and finishing	Housing: anodized aluminium, extruded Lens: clear polycarbonate
Installation	Fixation with mounting hinge on surface Operating temperature: - 40°C < T_a < +50°C Max vertical aiming: 115°
Lifetime	50.000 hours (70% maintenance at T_a = 50°C
Accessories	Jumper cables (end-to-end 0, 305, 1500 mm) Leader cables (15,2 m)
Main applications	Architectural wallwash- and grazing lighting applications: buildings, facades, bridges

IP 66



BCS419 12xLED



BCS419 48xLED

eW Graze Powercore BCS419 surface-mounted architectural flood-lighting luminaire with 12 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS419 12xLED-HB/WW-2700 230V 10	1.21	714944 99
BCS419 12xLED-HB/NW-4000 230V 10	1.21	714951 99
BCS419 12xLED-HB/WW-2700 230V 30	1.21	714968 99
BCS419 12xLED-HB/NW-4000 230V 30	1.21	714975 99
BCS419 12xLED-HB/WW 9 L305	1.25	704866 99
BCS419 12xLED-HB/NW 9 L305	1.25	704873 99
BCS419 12xLED-HB/CW 9 L305	1.25	704880 99
BCS419 12xLED-HB/CW 10 L305	1.25	704897 99
BCS419 12xLED-HB/WW 15 L305	1.25	704903 99
BCS419 12xLED-HB/NW 15 L305	1.25	704910 99
BCS419 12xLED-HB/CW 15 L305	1.25	704927 99
BCS419 12xLED-HB/CW 30 L305	1.25	704934 99
BCS419 12xLED-HB/WW 30C L305	1.25	704941 99
BCS419 12xLED-HB/NW 30C L305	1.25	704958 99
BCS419 12xLED-HB/CW 30C L305	1.25	704965 99

Please contact your local Philips representative for additional configurations

eW Graze Powercore BCS419 surface-mounted architectural flood-lighting luminaire with 48 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS419 48xLED-HB/WW-2700 230V 10	5.32	715330 00
BCS419 48xLED-HB/NW-4000 230V 10	5.32	715347 00
BCS419 48xLED-HB/WW-2700 230V 30	5.32	715378 00
BCS419 48xLED-HB/NW-4000 230V 30	5.32	715385 00
BCS419 48xLED-HB/WW 9 L1219	5.00	705535 00
BCS419 48xLED-HB/NW 9 L1219	5.00	705542 00
BCS419 48xLED-HB/CW 9 L1219	5.00	705559 00
BCS419 48xLED-HB/CW 10 L1219	5.00	705566 00
BCS419 48xLED-HB/WW 15 L1219	5.00	705573 00
BCS419 48xLED-HB/NW 15 L1219	5.00	705580 00
BCS419 48xLED-HB/CW 15 L1219	5.00	705597 00
BCS419 48xLED-HB/CW 30 L1219	5.00	705603 00
BCS419 48xLED-HB/WW 30C L1219	5.00	705610 00
BCS419 48xLED-HB/NW 30C L1219	5.00	705627 00
BCS419 48xLED-HB/CW 30C L1219	5.00	705634 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS419 24xLED-HB/WW 9 L609	2.20	704972 99
BCS419 24xLED-HB/NW 9 L609	2.20	704989 99
BCS419 24xLED-HB/CW 9 L609	2.20	704996 99
BCS419 24xLED-HB/WW 10 L609	2.20	705009 99
BCS419 24xLED-HB/NW 10 L609	2.20	705016 99
BCS419 24xLED-HB/CW 10 L609	2.20	705023 99
BCS419 24xLED-HB/WW 15 L609	2.20	705030 99
BCS419 24xLED-HB/NW 15 L609	2.20	705047 99
BCS419 24xLED-HB/CW 15 L609	2.20	705054 99
BCS419 24xLED-HB/WW 30 L609	2.20	705061 99
BCS419 24xLED-HB/NW 30 L609	2.20	705078 99
BCS419 24xLED-HB/CW 30 L609	2.20	705085 99
BCS419 24xLED-HB/WW 30C L609	2.20	705092 99
BCS419 24xLED-HB/NW 30C L609	2.20	705108 99
BCS419 24xLED-HB/CW 30C L609	2.20	705115 99

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS419 36xLED-HB/WW 9 L914	3.90	705382 00
BCS419 36xLED-HB/NW 9 L914	3.90	705399 00
BCS419 36xLED-HB/CW 9 L914	3.90	705405 00
BCS419 36xLED-HB/WW 10 L914	3.90	705412 00
BCS419 36xLED-HB/NW 10 L914	3.90	705429 00
BCS419 36xLED-HB/CW 10 L914	3.90	705436 00
BCS419 36xLED-HB/WW 15 L914	3.90	705443 00
BCS419 36xLED-HB/NW 15 L914	3.90	705450 00
BCS419 36xLED-HB/CW 15 L914	3.90	705467 00
BCS419 36xLED-HB/WW 30 L914	3.90	705474 00
BCS419 36xLED-HB/NW 30 L914	3.90	705481 00
BCS419 36xLED-HB/CW 30 L914	3.90	705498 00
BCS419 36xLED-HB/WW 30C L914	3.90	705504 00
BCS419 36xLED-HB/NW 30C L914	3.90	705511 00
BCS419 36xLED-HB/CW 30C L914	3.90	705528 00

Please contact your local Philips representative for additional configurations

Also available in Static Colours. eColorGraze is available in Red, Green, Blue, Amber, same Beam Angles and Lengths as above.

Accessories

Leader cable

Product ID	Description	EOC
ZCS419 C15250P CE	Leader Cable 50 ft (includes terminator)	715095 99
ZCS459 CONNECTOR CE	Jumper Cable 0 ft	715057 99
ZCS459 CONNECTOR CE	Jumper Cable 1 ft	715064 99
ZCS459 CONNECTOR CE	Jumper Cable 5 ft	715071 99
ZCS459 TERMINATOR (10PCS)	Additional terminators (also included with leader cable)	700608 99

Custom House Tower, Boston, United States
Photocredit: John Brandon Miller

ColorGraze Powercore

ColorGraze Powercore – linear, colour-changing LED surface light for wall washing and grazing

ColorGraze Powercore is a linear product optimised for surface grazing, wall-wash lighting and efficient signage illumination. Featuring Powercore technology, ColorGraze Powercore processes power directly from line voltage, dramatically simplifying installation.

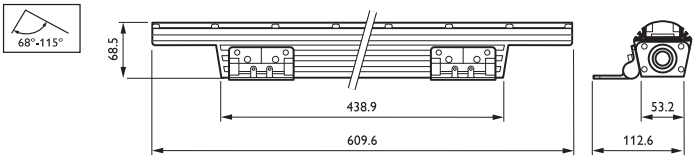
Superior beam quality offers uniform beam saturation as close as 152 mm, and a compact, low-profile design combined with flexible mounting options allows for discreet placement within wide-ranging architectural details.

www.philips.co.uk/lighting

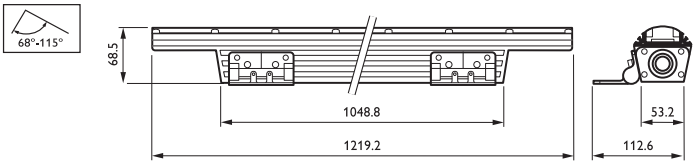
ColorGraze Powercore	
Type	BCS459
Light source	12 x LED-HB (305 mm length version) 24 x LED-HB (609 mm length version) 36 x LED-HB (914 mm length version) 48 x LED-HB (1219 mm length version)
Light colour	Tri-colour: red, green, blue (RGB)
Power consumption	609 mm length version: 35 W 914 mm length version: 52,5 W 1219 mm length version: 70 W
Power/data supply	Not integrated, data enabler to be ordered separately (DMX or Ethernet)
Inrush current	1.72 A
Driver	100-240 V AC / 50-60 Hz
Optic	9 x 9° (9) 10 x 60° (10) 15 x 30° (15) 30 x 60° (30) 60 x 30° (30C)
Controls	Philips full line DXM512 (RS-485) controllers
Materials and finishing	Housing: anodized aluminium, extruded Lens: clear polycarbonate

Installation	Fixation with mounting hinge on surface Operating temperature: -20°C < T_a < 50°C Max vertical aiming: 115° Connection: integral male/female waterproof connector
Lifetime	50,000 hours (70% lumen maintenance at T_a = 50°C
Accessories	Jumper cables (end-to-end 0, 305, 1500 mm) Leader cables (15,2 m)
Main applications	Architectural wallwash- and grazing lighting applications: buildings, facades, bridges

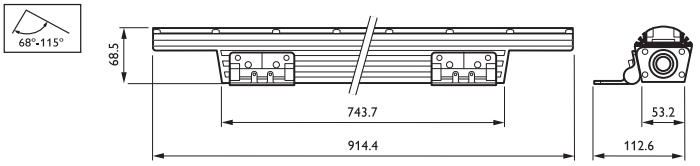
IP 66



BCS459 24xLED



BCS459 48xLED



BCS459 36xLED

ColorGraze Powercore BCS459 surface-mounted architectural flood-lighting luminaire with 12 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS459 12xLED-HB/RGB 9 DMX L305	1.25	704644 99
BCS459 12xLED-HB/RGB 10 DMX L305	1.25	704651 99
BCS459 12xLED-HB/RGB 15 DMX L305	1.25	704668 99
BCS459 12xLED-HB/RGB 30 DMX L305	1.25	704675 99
BCS459 12xLED-HB/RGB 30C DMX L305	1.25	704682 99

Please contact your local Philips representative for additional configurations

ColorGraze Powercore BCS459 surface-mounted architectural flood-lighting luminaire with 24 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS459 24xLED-HB/RGB 9 DMX L609	2.20	704699 99
BCS459 24xLED-HB/RGB 10 DMX	2.20	715804 99
BCS459 24xLED-HB/RGB 15 DMX L609	2.20	704705 99
BCS459 24xLED-HB/RGB 30 DMX	2.20	715811 99
BCS459 24xLED-HB/RGB 30C DMX L609	2.20	704712 99

Please contact your local Philips representative for additional configurations

ColorGraze Powercore BCS459 surface-mounted architectural flood-lighting luminaire with 36 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS459 36xLED-HB/RGB 9 DMX L914	3.40	704804 00
BCS459 36xLED-HB/RGB 10 DMX	3.40	715750 00
BCS459 36xLED-HB/RGB 15 DMX L914	3.40	7044811 00
BCS459 36xLED-HB/RGB 30 DMX	3.40	715781 00
BCS459 36xLED-HB/RGB 30C DMX L914	3.40	704828 00

Please contact your local Philips representative for additional configurations

ColorGraze Powercore BCS459 surface-mounted architectural flood-lighting luminaire with 48 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCS459 48xLED-HB/RGB 9 DMX L1219	5.35	704835 00
BCS459 48xLED-HB/RGB 10 DMX	3.40	715767 00
BCS459 48xLED-HB/RGB 15 DMX L1219	5.35	704842 00
BCS459 48xLED-HB/RGB 30 DMX	4.60	715798 00
BCS459 48xLED-HB/RGB 30C DMX L1219	5.35	704859 00

Please contact your local Philips representative for additional configurations

Also available in Intelligent White, iWGraze is available in same Beam Angles and Lengths as above.

Accessories

Product ID	Description	EOC
ZCS459 C15250P CE	Leader Cable 50 ft (includes terminator)	715118 99
ZCS459 CONNECTOR CE	Jumper Cable 0 ft	715057 99
ZCS459 C305P-M-F CE	Jumper Cable 1 ft	715064 99
ZCS459 C1525P-M-F CE	Jumper Cable 5 ft	715071 99
ZCS459 TERMINATOR (10PCS)	Additional terminators (also included with leader cable)	700608 99
ZCX400 100-240V DMX DATA ENABLER		275567 99
ZCX400 100-240V ETHERNET DATA ENABLER		710533 99

Avenue of the Arts, Philadelphia, United States
photocredit: Jim Abbott

ColorBlast 12 Powercore

ColorBlast – shaping dynamic ambience

Philips ColorBlast® offers a wide range of wall-washing effects with rich, saturated colours and colour changing effects. These compact, high-performance LED-based units offer ease and flexibility of installation, operational efficiency and outstanding control. They are sufficiently robust to withstand the demands of a wide range of indoor and outdoor applications. ColorBlast can be controlled by a Philips controller or a DMX512-compatible third-party controller.

Philips ColorBlast 12 Powercore offers high performance, operational efficiency and simplified installation. Powercore® technology integrates power and data management directly into the product and eliminates the need for an external power supply. ColorBlast 12 Powercore offers a choice of three different beams and is suitable for a wide variety of indoor and outdoor applications

www.philips.co.uk/lighting

ColorBlast 12 Powercore BCP470

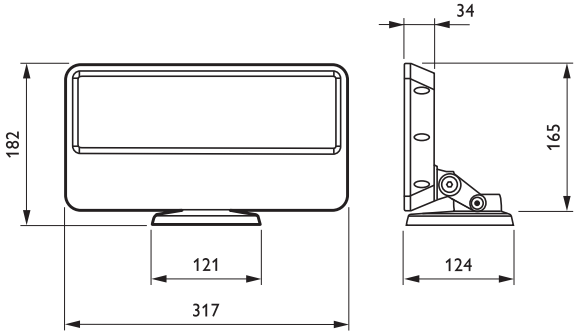
ColorBlast 12 BCP461

ColorBlast 6 BCP460

	ColorBlast 12 Powercore
Type	BCP470
Light source	36 x LED-HB
Light colour	Red, green, blue (RGB)
Power supply	100 - 240 V AC / 50 - 60 Hz
Power consumption	Max. 50 W
Optic	Narrow beam angle 8° Narrow beam angle 10° (clear lens) Medium beam angle 23° (ground lens)
Controls	Compatible with full line of Philips DMX controllers
Materials and finishing	Housing: die-cast aluminium Cover: tempered glass, clear or soft-focus

Colour	Black (BK) or white (WH)
Installation	Surface mounting Starting temperature: -20°C < T_a < 50°C Operating temperature: -40°C < T_a < 50°C Locking base swivel: after-installation rotation up to 350° rotation Locking fixture rotation: 110°
Lifetime	50,000 hours at 50°C (complies with IES LM-79-08)
Remarks	Data enabler, controls equipment and cables to be ordered separately
Main applications	Architectural outdoor (floodlighting) and indoor

IP66



BCP470

ColorBlast 12 Powercore BCP470 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP470 36xLED-HB/RGB 100-240V 8 BK DMX	3.00	711547 99
BCP470 36xLED-HB/RGB 100-240V 10 BK DMX	3.00	711509 99
BCP470 36xLED-HB/RGB 100-240V 23 BK DMX	3.00	711462 99

Please contact your local Philips representative for additional configurations

ColorBlast 12 Powercore BCP470 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP470 36xLED-HB/RGB 100-240V 8 WH DMX	3.00	711530 99
BCP470 36xLED-HB/RGB 100-240V 10 WH DMX	3.00	711493 99
BCP470 36xLED-HB/RGB 100-240V 23 WH DMX	3.00	711455 99

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZCX400 100-240V DMX DATA ENABLER	275567 99
ZCX400 100-240V ETHERNET DATA ENABLER	710533 99

Biloxi Hard Rock Hotel and Casino, Biloxi, Mississippi, USA
Lighting design: Jon Champelli, SHOP 12 and 4Wall Entertainment Lighting

Front view

Side view

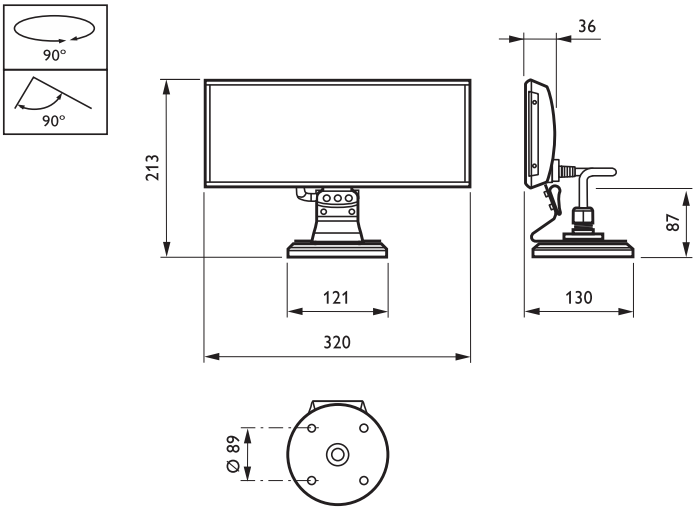
Rear view

Aiming the fixture

	ColorBlast 12
Type	BCP461
Light source	36 x LED-HB
Light colour	Red, green, blue (RGB)
Power supply	24 V DC
Power consumption	Max. 50 W
Optic	Narrow beam angle 10° Medium beam angle 23°
Controls	Compatible with full line of Philips DMX controllers
Materials and finishing	Housing: die-cast aluminium Cover: tempered glass, clear or soft-focus

Colour	Black (BK) or white (WH)
Installation	Surface mounting Starting temperature: -20°C < T_a < 50°C Operating temperature: -40°C < T_a < 50°C Locking base swivel: after-installation rotation up to 350° rotation Locking fixture rotation: 110°
Lifetime	50,000 hours at 50°C (complies with IES LM-79-08)
Remarks	Power/data supply enabler, controls equipment and cables to be ordered separately
Main applications	Architectural outdoor (floodlighting) and indoor

IP 66



BCP461

ColorBlast 12 BCP461 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP461 36xLED-HB/RGB 24V 10 WH	3.50	711066 99
BCP461 36xLED-HB/RGB 24V 23 WH	3.50	711042 99

ColorBlast 12 BCP461 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

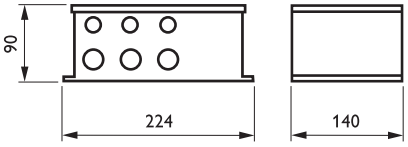
Product ID	Weight (kg)	European Order Code (EOC)
BCP461 36xLED-HB/RGB 24V 10 BK	3.50	711073 99
BCP461 36xLED-HB/RGB 24V 23 BK	3.50	711059 99

Please contact your local Philips representative for additional configurations

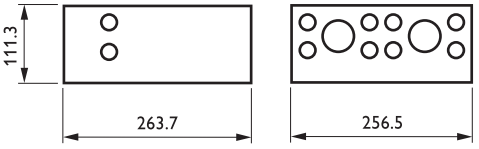
Accessories

Power/Data Supply ZCX400 PDS-60 24V

Product ID	Weight (kg)	European Order Code (EOC)
ZCX400 PDS-60 24V	2.30	710854 99
ZCX400 PDS-60 24V DMX/ ETHER	2.30	710861 99
ZCX400 PDS-150E	3.80	710816 99



ZCX400 PDS-60 24V



ZCX400 PDS-150E

Potawatomi Bingo Casino, Milwaukee, United States
photocredit: Marty Peck, Creative Lighting Design & Engineering

	ColorBlast 6
Type	BCP460
Light source	18 x LED-HB
Light colour	Red, green, blue (RGB)
Power supply	24 V DC
Power consumption	Max. 25 W
Optic	Narrow beam angle 10° Medium beam angle 23°
Controls	Compatible with full line of Philips DMX controllers
Materials and finishing	Housing: die-cast aluminium Cover: tempered glass

Colour	Black (BK) or white (WH)
Installation	Surface mounting Starting temperature: -20°C < T_a < 50°C Operating temperature: -40°C < T_a < 50°C Locking base swivel: after-installation rotation up to 350° rotation Locking fixture rotation: 110°
Lifetime	50,000 hours at 50°C (complies with IES LM-79-08)
Remarks	Power/data supply enabler, controls equipment and cables to be ordered separately
Main applications	Architectural outdoor (accent lighting) and indoor

IP 66

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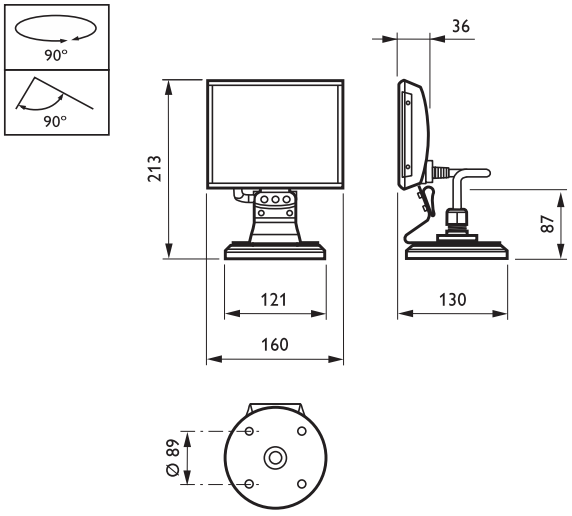


BCP460

ColorBlast 6 BCP460 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP460 18xLED-HB/RGB 24V 10 WH	2.95	711103 99
BCP460 18xLED-HB/RGB 24V 23 WH	2.95	711080 99

Please contact your local Philips representative for additional configurations

ColorBlast 6 BCP460 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

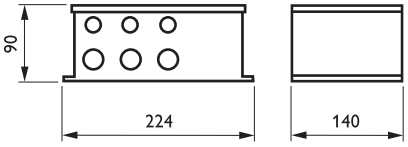
Product ID	Weight (kg)	European Order Code (EOC)
BCP460 18xLED-HB/RGB 24V 10 BK	2.95	711110 99
BCP460 18xLED-HB/RGB 24V 23 BK	2.95	711097 99

Please contact your local Philips representative for additional configurations

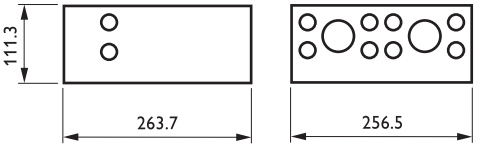
Accessories

Power/Data Supply ZCX400 PDS-60 24V

Product ID	Weight (kg)	European Order Code (EOC)
ZCX400 PDS-60 24V	2.30	710854 99
ZCX400 PDS-60 24V DMX/ ETHER	2.30	710861 99
ZCX400 PDS-150E	3.80	710816 99



ZCX400 PDS-60 24V



ZCX400 PDS-150E

CN Tower, Toronto, Canada
Photography: George Fischer

iW Blast 12 Powercore

iW Blast – rich wall-washing effects

Philips iW Blast provides colour temperature-controllable (3000 - 6500 K) white light for creating wall-washing and grazing light effects. The intensity of the light output can be adjusted while maintaining or varying the colour temperature. Philips iW Blast is suitable for a variety of applications.

Philips iW Blast 12 Powercore features Powercore® technology, which integrates power and data management directly into the product and eliminates the need for an external power supply. This robust, high-performance white-light system offers outstanding operational efficiency and simplified installation, as well as excellent control with any Philips iW controller. For both indoor and outdoor applications.

www.philips.co.uk/lighting

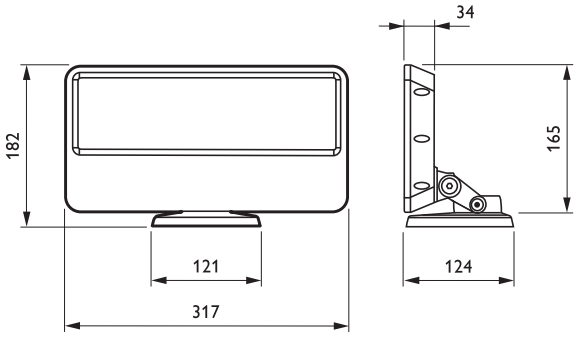
iW Blast 12 Powercore BCP431

iW Blast 12 Powercore BCP431

	iW Blast 12 Powercore
Type	BCP431
Light source	30 x LED-HB
Light colour	White, tunable 3000 - 6500 K
Power supply	100 - 240 V AC / 50 - 60 Hz
Power consumption	50 W at 110 - 240 V AC (60 W at 100 V AC)
Optic	Narrow beam angle 18° Medium beam angle 24°
Controls	Compatible with full line of Philips DMX controllers
Materials and finishing	Housing: die-cast aluminium Cover: tempered glass

Colour	Black (BK) or white (WH)
Installation	Surface mounting Starting temperature: -20°C < T_a < 50°C Operating temperature: -40°C < T_a < 50°C Locking base swivel: after-installation rotation up to 350° rotation Locking fixture rotation: 110°
Lifetime	50,000 hours at 50°C (complies with IES LM-79-08)
Remarks	Data enabler, controls equipment and cables to be ordered separately
Main applications	Architectural outdoor (floodlighting) and indoor

IP66



BCP431

iW Blast 12 Powercore BCP431

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP431 30xLED-HB/WH-3000-6500 18 WH	2.30	711882 99
BCP431 30xLED-HB/WH-3000-6500 24 WH	2.30	711868 99

Please contact your local Philips representative for additional configurations

iW Blast 12 Powercore BCP431

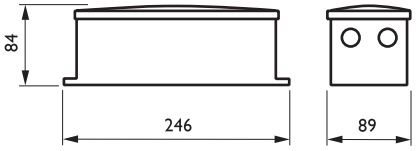
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP431 30xLED-HB/WH-3000-6500 18 BK	2.32	711899 99
BCP431 30xLED-HB/WH-3000-6500 24 BK	2.30	711875 99

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZCX400 100-240V IW DATA ENABLER	711790 99



ZCX400

Benjamin Constant bridge, Manus, Brasil
photography: Peter Casper

LEDflood surface mounted

LEDflood LUXEON® K2 – enhancing structures

LEDflood is a distinctive outdoor floodlight range for illuminating and enhancing structures with light. Each LED is fitted with high-efficiency collimating optics, ensuring precise light distribution and uniform illuminance over longer distances.

LEDflood LUXEON® K2 is available with a fixed rotational beam (2 x 3°) or fixed linear beam (2 x 4°/2 x 25°) for grazing or spot/linear lighting. In combination with the patented Zoomspot system, the beam can be adjusted continuously from 2 x 3° to 2 x 15° within a single floodlight. Flexible aiming (tilt and pan) ensures freedom of installation.

The control platform for LEDflood is DMX, enabling dynamic light. The colour combinations WH/AM, BL/WH and AWB deliver the full palette of natural white, revealing the beauty of the architectural material used.
LEDflood is also available in a version for recessed mounting.

www.philips.co.uk/lighting

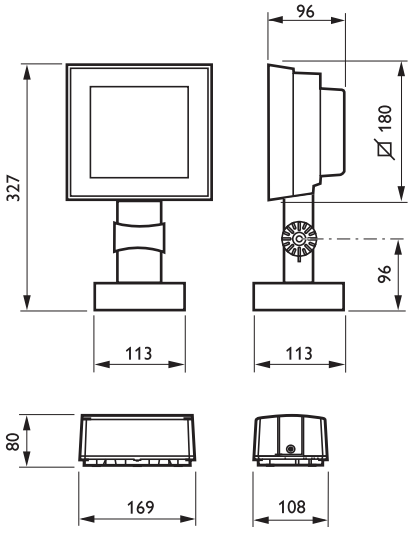
LEDflood BCP731 surface-mounted version

LEDflood BBP751 recessed version

	LEDflood
Type	BCP731 (mono-colour, surface-mounted version) BCP732 (bi-colour, surface-mounted version) BCP733 (tri-colour, surface-mounted version)
Light source	9 x LUXEON® K2 LEDs
Light colour	Mono-colour: red (RD), amber (AM), green (GN), blue (BL), white (WH) Bi-colour: white/blue (WH/BL), white/amber (WH/AM), blue/green (BL/GN) Tri-colour: red, green, blue (RGB), amber, white, blue (AWB)
Power supply	230-240 V AC / 50-60Hz (with remote gearbox)
Optic	With Zoomspot: 6 up to 30° (6-30), all versions Without Zoomspot: 6° (6), mono- and bi-colour versions Linear vertical fixed prisms 8 to 60° (P-LIN-V), all versions Linear horizontal fixed prisms 8 to 60° (P-LIN-H), all versions Driver/electronic interface DMX/RDM protocol (with remote driver)
Controls	ColourChaser Touch: DMX/RDM ColourChaser DMX144: DMX ColourChaser Wheel: DMX iPlayer3: DMX

Materials and finishing	Housing: die-cast aluminium (anodic silver grey, RAL 9006) Cover: tempered glass with silver screen print around optic (anodic grey, RAL 9006) Optics: collimating lenses in methacrylate Frame: brushed stainless steel Remote gearbox: die-cast aluminium (anodic silver grey paint, RAL 9006)
Colour	Anodic silver grey (RAL 9006) Other RAL colours (for housing) available on request
Installation	Wall- and surface mounting Flexible positioning and aiming: Vertical axis adjustment: -67.5 to + 67.5° Horizontal axis adjustment: -170 to +170° Cable included: type HO7RNF 3 x 0.5 mm^2, length 3 m Zoomspot beam externally adjustable Operating temperature: -20°C < T_a < 35°C
Lifetime	50,000 hours (70% lumen maintenance) Thermal management system for long lifetime
Main applications	Architectural outdoor

IP66 IK10 IK08 linear prisms 850°C



BCP730 AM, GN, BL, WH, RD, WH/AM, BL/GN

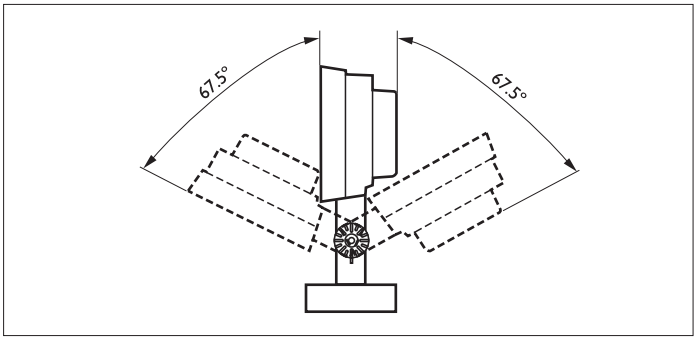
LEDflood surface mounted BCP731 architectural flood-lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP731 LED-K2/BL EB I 6 SI C3000	4.90	505306 00
BCP731 LED-K2/BL EB I 6 SI DMX C3000	4.90	505313 00
BCP731 LED-K2/BL EB I 6-30 SI C3000	5.30	505320 00
BCP731 LED-K2/BL EB I 6-30 SI DMX C3000	5.30	505337 00
BCP731 LED-K2/GN EB I 6 SI C3000	4.90	505344 00
BCP731 LED-K2/GN EB I 6 SI DMX C3000	4.90	505351 00
BCP731 LED-K2/GN EB I 6-30 SI C3000	5.30	505368 00
BCP731 LED-K2/GN EB I 6-30 SI DMX C3000	5.30	505375 00
BCP731 LED-K2/RD EB I 6 SI C3000	4.90	505382 00
BCP731 LED-K2/RD EB I 6-30 SI C3000	5.30	505399 00
BCP731 LED-K2/AM EB I 6 SI C3000	4.90	505405 00
BCP731 LED-K2/AM EB I 6-30 SI C3000	5.30	505412 00
BCP732 LED-K2/WH/AM EB I 6 SI DMX C3000	4.90	505429 00
BCP732 LED-K2/WH/AM EB I 6-30 SI DMX C3000	5.29	505436 00
BCP732 LED-K2/WH/BL EB I 6 SI DMX C3000	4.90	505443 00
BCP732 LED-K2/WH/BL EB I 6-30 SI DMX C3K	5.30	505450 00
BCP732 LED-K2/BL/GN EB I 6 SI DMX C3000	4.90	505467 00
BCP732 LED-K2/BL/GN EB I 6-30 SI DMX C3000	5.29	505474 00
BCP733 LED-K2/AWB EB I 6-30 SI DMX C3000	5.29	505498 00
BCP733 LED-K2/RGB EB I 6-30 SI DMX C3000	5.29	505481 00

Please contact your local Philips representative for additional configurations

Adjustment possibilities



	LEDflood
Type	BBP731/741/751 (mono-colour, recessed versions) BBP732/742/752 (bi-colour, recessed versions) BBP733/743/753 (tri-colour, recessed versions)
Light source	9 x LUXEON® K2 LEDs
Light colour	Mono-colour: red (RD), amber (AM), green (GN), blue (BL), white (WH) Bi-colour: white/blue (WH/BL), white/amber (WH/AM), blue/green (BL/GN) Tri-colour: red, green, blue (RGB), amber, white, blue (AWB)
Power supply	230-240 V AC / 50-60Hz
Optic	Narrow beam 10° (NB), tilt adjustable +/-22° Medium beam 26° (MB), tilt adjustable +/-17° Linear beam angle 8 - 34° (LIN8-34), tilt adjustable +/-8° Asymmetrical elliptical beam -19°, +14° / 104° (A), no tilt
Drivers	DMX/ RDM protocol

Controls	ColourChaser Touch: DMX/RDM ColourChaser DMX144: DMX ColourChaser Wheel: DMX iPlayer3: DMX
Materials and finishing	Housing: die-cast aluminium Recessing box and cover: sheet steel Cover: die-cast aluminium Frame: stainless steel (BBP741/742/743) or aluminium frame (BBP731/732/733) (0 mm, flush) Mask: stainless steel (BBP751/752/753) (3 mm, not flush)
Installation	In recessing box, delivered with the luminaire Operating temperature: -20°C < T_a < 35°C
Lifetime	50,000 hrs (70% lumen maintenance) Thermal management system for long lifetime
Remarks	Cool-touch glass temperature 50°C
Main applications	Architectural outdoor

IP 67 IK 10

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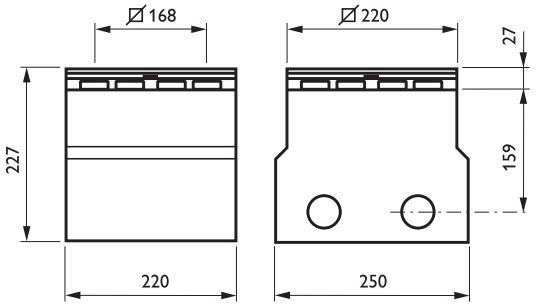


BBP731/742/743

LEDflood recessed BBP731/732/733 architectural flood-lighting luminaire with gray aluminium frame

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP731 LED-K2/WH I MB SI C2000	9.37	603255 00
BBP731 LED-K2/WH I A SI C2000	9.30	603248 00
BBP731 LED-K2/BL I A SI C2000	9.30	603286 00
BBP731 LED-K2/BL I LIN8-34 SI C2000	9.37	603293 00
BBP731 LED-K2/AM I A SI C2000	9.30	603309 00
BBP731 LED-K2/AM I LIN8-34 SI C2000	9.37	603316 00

Please contact your local Philips representative for additional configurations

LEDflood recessed BBP741/742/743 architectural flood-lighting luminaire with stainless-steel frame

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP742 LED-K2/WH/BL I LIN8-34 DMX C2000	9.87	603323 00
BBP742 LED-K2/WH/BL I NB DMX C2000	9.87	603385 00
BBP742 LED-K2/WH/AM I MB DMX C2000	9.87	603408 00
BBP742 LED-K2/WH/AM I A DMX C2000	9.87	603415 00
BBP743 LED-K2/RGB I A DMX C2000	9.81	603446 00
BBP743 LED-K2/RGB I LIN8-34 DMX C2000	9.87	603453 00
BBP743 LED-K2/RGB I MB DMX C2000	9.87	603460 00
BBP743 LED-K2/AWB I MB DMX C2000	9.87	603507 00
BBP743 LED-K2/AWB I LIN8-34 DMX C2000	9.87	603521 00

Please contact your local Philips representative for additional configurations

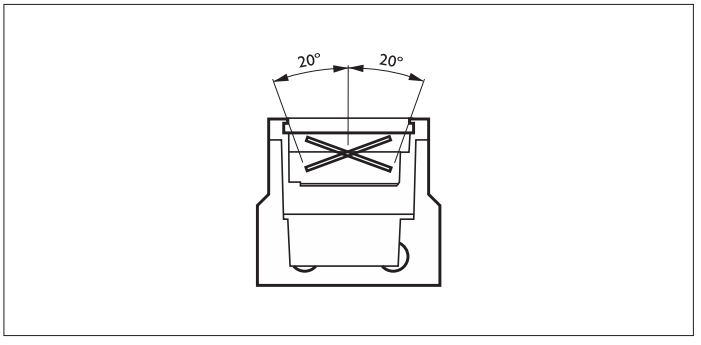
Rectangular asymmetrical beam

Narrow beam

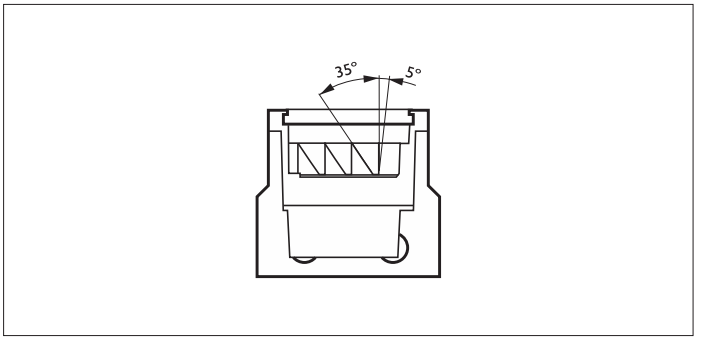
Linear rectangular beam

Medium beam

Adjustment possibilities



Adjustment possibilities



SmartFlood LED

Smart Flood LED – effective, efficient and economical

Smart Flood LED is a range of versatile IP65 outdoor floodlights in crisp-white, which is ideal for facade lighting and grazing applications. Equipped with super-bright collimated LEDs for true floodlighting, these compact luminaires are highly efficient, consuming between 16 to 90 W.

Smart Flood LEDs sleek styling and simple connections open up new possibilities for usage in tight spaces, and the fixture can be easily adjusted after installation to ensure the right effect at the right place. Smart Flood LED is available in three pre-wired sizes, along with IP65 interconnectors, combi-packed together with a clip-on wide-voltage gear box.

Mounting mechanisms are available on both the luminaire and gear box, enabling remote driving if needed.

The durable IP65 aluminium housing for both fixture and driver, combined with the long lifetime of the high-power LEDs, ensures maintenance-free operation over a very long period of time.

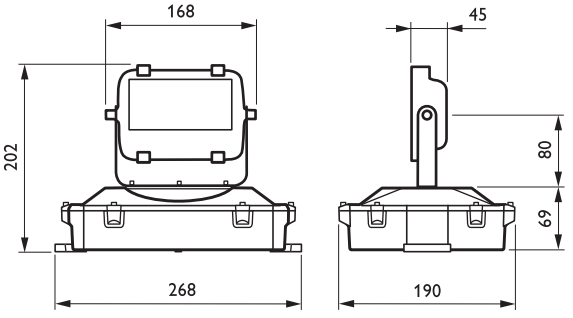
www.philips.co.uk/lighting

	Smart Flood LED
Type	BCP400 (large, medium, small versions)
Light source	Large version: 60 x 1 W LED-HP (mono-colour), 90° Medium version: 36 x 1 W LED-HP (mono-colour), 90° Small version: 8 x 1 W LED-HP (mono-colour), 90°
Light colour	Mono-colour version: Cool white, 6000 K
Current	Cool white and RGB 350 mA
Mains voltage	100-240 V
Power consumption	8 W / 36 W / 60 W (LEDs only)
Optic	Special collimating polycarbonate lenses on each LED Collimating angle: Large, medium, small, mono-colour version: 22°
Optical cover	Tempered glass cover

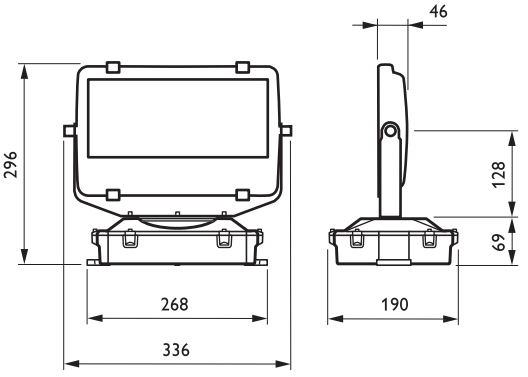
Driver	Clip-on external LED driver in IP65 gear box, driver can be remotely installed up to 30 metres
Materials and finishing	Housing: high-pressure, die-cast aluminium, non-corrosive Glass: thermally hardened, 4 mm thick Collimating lens: polished polycarbonate Clips: stainless steel SUS 304
Colour	Grey (GR) RAL 9006, painted
Installation	Surface mounted PG16/PG20 cable glands for all connections Operating temperature: -20°C < T_a < 50°C Adjustable tilt angle: +/- 180° Delivered with mains supply cable of 1 metre Aiming indicator integrated
Lifetime	50,000 hours (70% lumen maintenance at T_a = 25°C)
Main applications	Facade and area lighting, recreational

system stand-alone luminaire IP65 IK05 850°C

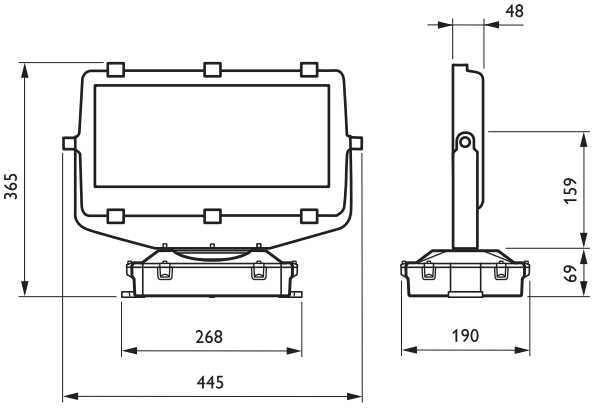
CB RoHS



BCP400 8xLED



BCP400 36xLED



BCP400 60xLED

SmartFlood LED BCP400 flood-lighting luminaire with mono system, small version. Need to order power supply unit separately

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP400 8xLED-HB/CW 24V GR	0.76	812717 99

Please contact your local Philips representative for additional configurations

SmartFlood LED BCP400 flood-lighting luminaire with mono system, medium version. (Power supply unit included)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP400 36xLED-HB/CW PSU-E 60W GR	4.50	812731 00

Please contact your local Philips representative for additional configurations

SmartFlood LED BCP400 flood-lighting luminaire with mono system, large version. (Power supply unit included)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP400 60xLED-HB/CW PSU-E 100W GR	6.13	812755 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
ZCP400 PSU-100W IP65 GR	Power supply unit can run up to 8 small units	812793 99
ZCP400 C1000P2-M-F	Extention cable 1 m	813707 99

Beamer LED

Beamer LED – spot on

Beamer LED is a projector luminaire for outdoor architectural accent-lighting. It incorporates a single high-power LED and is designed for light projection over distances up to 30 m, with perfect control of spill light.

A choice of various beams, allows the product to be used in various outdoor applications, such as remote accent lighting, highlighting shapes and contrasts.

The aluminium housing and U-bracket ensure a robust, solid construction, enabling the Beamer LED to withstand harsh outdoor conditions. This projector offers maximum aiming flexibility – Zoomspot adjustment, beam rotation, tilt and pan – ensuring complete freedom of installation. In addition to cool white, warm white and saturated colours, thanks to the new Solgel filter technology yellow gold is also possible. Beamer LED is available in surface-mounted and pole-mounted versions.

www.philips.co.uk/lighting

Beamer LED offers maximum aiming flexiblity - Zoomspot adjustment, beam rotation, tilt and pan - ensuring complete freedom of installation.

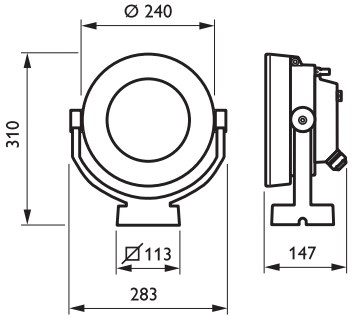
Grazer (reflector and grazer plate)

Zoomspot (reflector and honeycomb glass)

Spot (reflector only)

	Beamer LED
Type	BCP725
Light source	1 x LUXEON® I
Light colour	Mono-colour version: white (WH), red (RD), green (GN), blue (BL), amber (AM), cyan (CY) White with Solgel filter: light blue (LBL); light transmission 55% White with Solgel filter: yellow (YE), light transmission 67% White with dichroic filter: warm white 3400 K; light transmission 60%
Power supply	110-240 V AC / 50-60 Hz (integrated gear, PSU)
Power consumption	Max 5 W
Optic	Spot 2° (RND2) Zoomspot 4 - 12° (RND2-6) Linear beam 6 - 50° (LIN6-50) Grazer; high-gloss narrow beam (C-NB)
Materials and finishing	Housing and U-bracket: die-cast aluminium (silver grey, RAL9006) Optic: anodized parabolic reflector, lense and prism in methacrylate Cover: tempered glass Cover frame: brushed stainless steel
Colour	Grey, RAL 9006; silver (SI) Other RAL colours available on request
Installation	Surface mounting Max horizontal aiming: -170 to +170° Max vertical aiming: -90 to +90° Beam rotation (external ring on the housing): -180 to +180° Through wiring; two M20 cable glands (3 x 2.5 mm^2) Operating temperature: -20°C < T_a < 35°C
Lifetime	50,000 hours (70% lumen maintenance) Thermal management system for long lifetime
Main applications	Accent lighting of facades, buildings, structures, parks, gardens

IP 66 IK 08



BCP725

Beamer LED BCP725 architectural flood-lighting luminaire with ultra-narrow round-beam optic (RND2)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP725 LED-LXN/WH PSU II RND2 SI	3.66	478258 00
BCP725 LED-LXN/BL PSU II RND2 SI	3.66	478159 00
BCP725 LED-LXN/RD PSU II RND2 SI	3.66	478203 00

Please contact your local Philips representative for additional configurations

Beamer LED BCP725 architectural flood-lighting luminaire with high-gloss narrow-beam optic (C-NB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP725 LED-LXN/WH PSU II C-NB SI	3.88	478296 00
BCP725 LED-LXN/BL PSU II C-NB SI	3.88	478197 00
BCP725 LED-LXN/RD PSU II C-NB SI	3.88	478241 00

Please contact your local Philips representative for additional configurations

Beamer LED BCP725 architectural flood-lighting luminaire with round-beam Zoomspot optic (RND2-6)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP725 LED-LXN/WH PSU II RND2-6 SI	4.31	478265 00
BCP725 LED-LXN/BL PSU II RND2-6 SI	4.31	478166 00
BCP725 LED-LXN/RD PSU II RND2-6 SI	3.66	478210 00

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP725 LED-LXN/BL PSU II LIN6-50 SI	4.31	478180 00
BCP725 LED-LXN/RD PSU II LIN6-50 SI	4.31	478234 00
BCP725 LED-LXN/WH PSU II LIN6-50 SI	4.31	478289 00

Please contact your local Philips representative for additional configurations

Zoomspot adjustment device

Aiming device

Rear view, through-wiring

The aluminium housing and U-bracket ensure a robust, solid construction

The aluminium housing and U-bracket ensure a robust, solid construction

The aluminium housing and U-bracket ensure a robust, solid construction

ColorBurst 6

ColorBurst 6 – colourful spotlighting

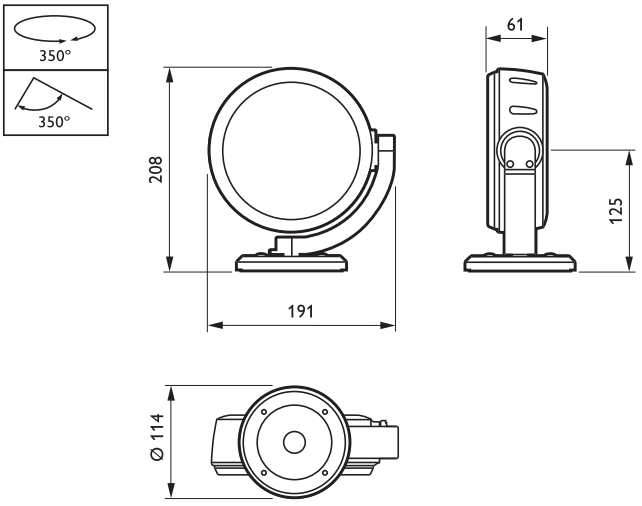
Philips ColorBurst® 6 is a small, sleek solution – for spotlighting and wall-washing with rich, saturated colours and colour-changing effects. Projecting a soft-edge beam of light, ColorBurst 6 is a sealed product designed for a variety of indoor and outdoor applications. The 350° locking base swivel, with 350° locking system rotation, offers a versatile range of light positioning. The housing is equipped with a three-screw accessory ring to affix attachments, such as spread lenses and louvres. ColorBurst 6 offers outstanding control via a Philips controller or a third party controller and is DMX512-compatible when using Philips power/data supply.

www.philips.co.uk/lighting

	ColorBurst 6
Type	BCP466
Light source	18 x LED-HB
Light colour	Red, green, blue (RGB)
Power supply	24 V DC
Power consumption	Max. 25 W
Optic	Narrow beam angle 12° Medium beam angle 22°
Controls	Compatible with full line of Philips DMX controllers
Materials and finishing	Housing: die-cast aluminium Cover: tempered glass
Colour	White (WH) or black (BK)

Installation	Surface mounting Starting temperature: -20°C < T_a < 50°C Operating temperature: -40°C < T_a < 50°C Locking base swivel: after-installation rotation up to 350° rotation Locking fixture rotation: 350°
Lifetime	50,000 hours at 50°C (complies with IES LM-79-08)
Accessories	Mounting brackets
Remarks	Power/data supply enabler, controls equipment and cables to be ordered separately
Main applications	Architectural outdoor and indoor

IP66



BCP466

ColorBurst BCP466 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP466 18xLED-HB/RGB 24V 12 WH	1.50	711141 99
BCP466 18xLED-HB/RGB 24V 22 WH	1.50	711127 99

Please contact your local Philips representative for additional configurations

ColorBurst BCP466 surface-mounted LED fixture with narrow or medium-beam optic

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP466 18xLED-HB/RGB 24V 12 BK TC	1.50	711158 99
BCP466 18xLED-HB/RGB 24V 22 BK	1.50	711134 99

Please contact your local Philips representative for additional configurations

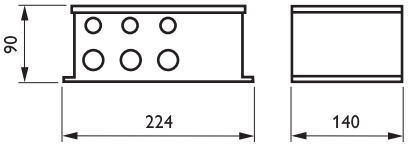
Accessories

ColorBurst BCP466 surface-mounted LED fixture with mounting base

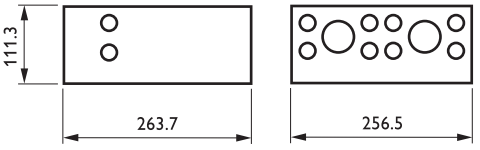
Product ID	Weight (kg)	European Order Code (EOC)
ZCP466 MB WH mounting bracket	1.92	711004 99
ZCP466 MB BK mounting bracket	1.92	711011 99

Power/Data Supply ZCX400 PDS-60 24V

Product ID	Weight (kg)	European Order Code (EOC)
ZCX400 PDS-60 24V	2.30	710854 99
ZCX400 PDS-60 24V DMX/ ETHER	2.30	710861 99
ZCX400 PDS-150E	3.80	710816 99



ZCX400 PDS-60 24V



ZCX400 PDS-150E

iColor Accent Powercore

iColor Accent Powercore – creating seamless columns of colour

The iColor Accent Powercore is a direct-view luminaire that generates seamless colour-changing effects and enables low-resolution video displays for indoor and outdoor applications. Available in various sizes, the product is suitable for a variety of applications.

The iColor Accent uses Chromasic® technology to offer precise control in 3-cm increments, which allows it to reproduce video, graphics and intricately-designed effects in a host of architectural and entertainment settings.

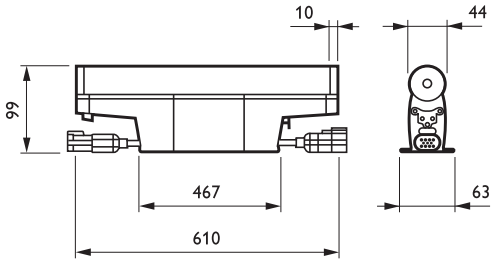
The patented Chromasic® technology is a custom-designed microchip that integrates power, communications and control to enable next-generation digital lighting systems and networks. Chromasic is the 'brain' of next-generation LED lighting systems that enable a host of previously unimaginable applications.

www.philips.co.uk/lighting

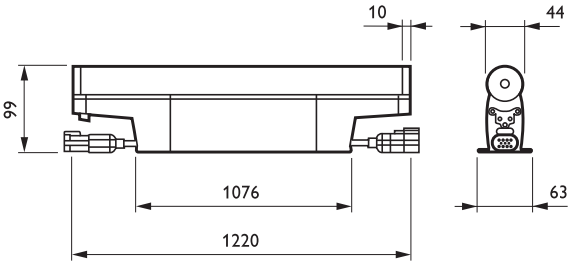
	iColor Accent Powercore
Type	BCP494
Light source	380 x LEDs (0.61 m) 760 x LEDs (1.22 m) 1520 x LEDs (2.44 m)
Light colour	RGB
Power supply	100 - 240 V AC / 50 - 60 Hz
Power consumption	10 W per foot max
Controls (optional)	Philips full line of DMX controllers including: Light System Manager Video System Manager Other DMX512 (RS485) sources
Optic	250 x 180°, symmetric direct view

Lifetime	50,000 hours (70% lumen maintenance at T_a= 25°C)
Materials and finishing	Housing: extruded aluminium Lens: plastic
Installation	Connectors: over-moulded, integral male/female connectors Operating temperature: -20°C < T_a < 50°C
Remarks	Data enabler EO, cables and controls to be ordered separately PSE
Main applications	Highlighting facades, buildings or low resolution video displays

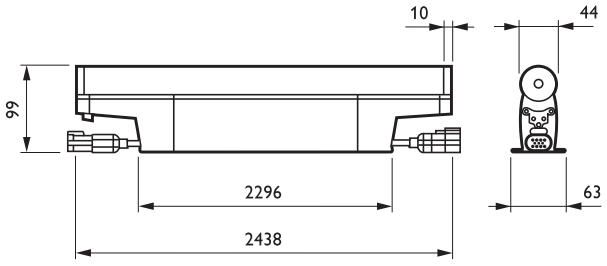
IP66



BCP494 380x



BCP494 760x



BCP494 1520x

iColorAccent Powercore® BCP494 surface-mounted direct-view LED fixture

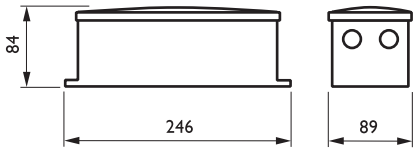
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP494 380xLED-LP/RGB 100-240V	2.00	701728 99
BCP494 760xLED-LP/RGB 100-240V	4.20	701735 99
BCP494 1520xLED-LP/RGB 100-240V	8.60	701742 99

Please contact your local Philips representative for additional configurations

Accessories

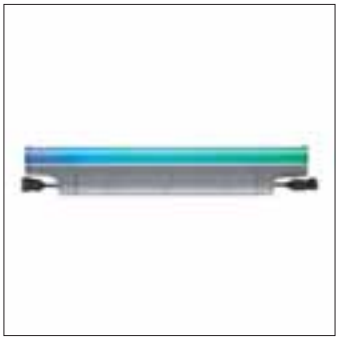
Product ID	Weight (kg)	European Order Code (EOC)
ZCX400 100-240V EO DATA ENABLER	1.18	710540 99



ZCX400 100-240V EO DATA ENABLER

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZCP494 C305FL	Jumper cable 0.3 m	0.08	710762 99
ZCP494 C610FL	Jumper cable 0.6 m	0.10	710793 99
ZCP494 C1525FL	Jumper cable 1.5 m	0.17	710786 99
ZCP494 C3050FL	Jumper cable 3 m	0.30	710779 99
ZCP494 C15250FL	Leader cable 15 m	1.15	710755 99

Chromasic® technology enables precision-controlled RGB effects



Side view: housing, lens and connectors

Aerial view: housing and lens

End view: LEDs inside lens, and connector

LG Towers, Beijing, China
Lighting design: Alto Lighting

C-Splash 2

C-Splash 2 – vibrant colour changing effects in water

Philips C-Splash 2 is an ultra-thin, rugged submersible LED system that generates vibrant colour-changing effects with outstanding control and flexibility. An IP68 rating makes it suitable for use in up to 3 metres of fresh or saltwater, even treated with bromine or chlorine - ideal for application in fountains, theme parks or harsh seaside environments.

It is available with a soft focus diffuser (22° beam angle) or a clear lens for extended light projection (10° beam angle). With inbuilt Chromacore®, Optibin®, and Temperature Monitoring Technologies along with unified power and data cabling, C-Splash 2 is really easy to install, experience and maintain.

www.philips.co.uk/lighting

	C-Splash 2
Type	BCP468
Light source	18 x LED-HB
Light colour	Tri-colour: red, green, blue (RGB)
Power supply	24 V DC
Power consumption	Max 25 W, at full intensity
Optic	Narrow beam: 10° Medium beam: 22°
Options	Lighting controls: Philips full line of DMX controllers
Materials and finishing	Housing: cast brass (BRS) Cover: tempered glass

Colour	Brass finished
Installation	Surface mounted with separately available PDS-150e or PDS-60-24V drivers Locking base swivel: after-installation rotation up to 360° rotation Locking fixture rotation: 360° Operating temperature: -40°C < T_a < 50°C
Lifetime	50,000 hours (50% lumen maintenance)
Aceessories	Range of drivers
Remarks	External power/data supply and controls required Not suitable for human-occupied underwater locations Chromacore®, Optibin®
Main applications	Underwater applications indoor and outdoor

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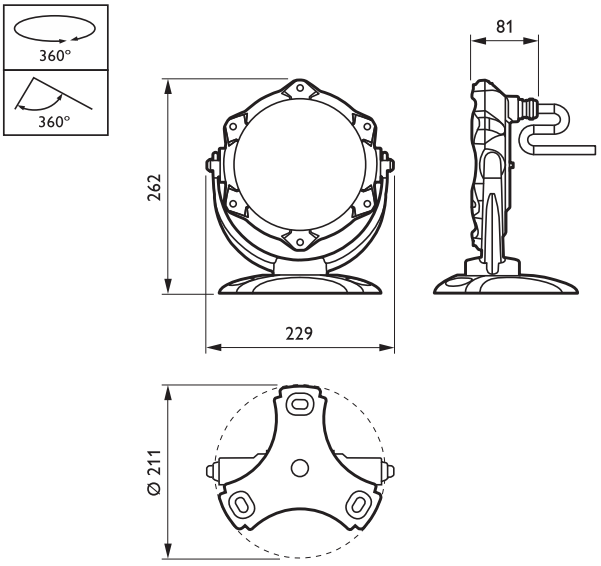


BCP468

C-Splash 2 BCP468 surface-mounted LED fixture with narrow or medium-beam optic for underwater applications

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCP468 18xLED-HB/RGB 24V IP68 10 BRS	10.00	711035 00
BCP468 18xLED-HB/RGB 24V IP68 22 BRS	10.00	711028 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZCX400 PDS-60 24V	710854 99
ZCX400 PDS-60 24V DMX/ ETHER	710861 99
ZCX400 100-240V DMX DATA ENABLER	275567 99
ZCX400 PDS-150E	710816 99

RadioShack Corporate Headquarters, Fort Worth, TX, USA.
Lighting Design: Bos Lighting Design

Müller
INTERSPORT
MERKUR

iColor Flex – virtual experience

The iColor Flex is a multi-purpose, LED-based strand of lights for medium resolution Video with Light™ or perimeter lighting that generates extraordinary effects indoors or outdoors without the constraints of luminaire size, shape or space. It incorporates 50 individually controllable full colour LED nodes with clear or translucent lenses. Each node is powered by Chromasic® for individual control and self-addressing.

The iColor Flex SL offers maximum lighting control, is extraordinarily flexible (because any node can be virtually any colour at any time) and represents a cost-effective way of producing medium resolution Video with Light™.
The nodes are available in two spacings (10.1 and 30.5 cm), with custom spacing (up to 30.5 cm) available upon request. The flexible form factor means iColor Flex SL is able to accommodate 3D shapes, logos, etc.

The iColor Flex SLX is the larger-node and higher-intensity version for bigger impact and longer viewing distances.

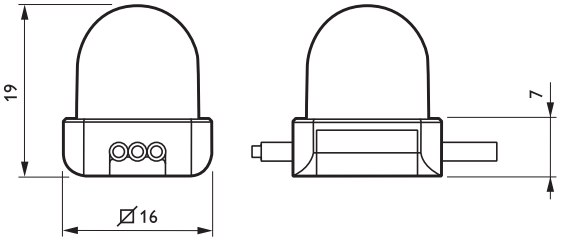
www.philips.co.uk/lighting

iColor Flex SL

Type	BGC490
Number of LEDs per pixel	1 x 3in1 SMD
Number of RGB pixels per string	50
Colour resolution	36 bits
Luminous Intensity per pixel	1 cd
Power supply	7.5V DC
Power consumption	25W Max. at full intensity
Controls (optional)	Video system manager
Viewing angle	120°
Lenses	Clear dome Translucent dome
Operating temperature	-20°C > T_a > 50°C
Material Housing	Polycarbonate
Colour	Black White

Installation	Surface mounted Through hole mounted
Pixel pitch	10.2 cm (4") 30.5 cm (12") Custom spacing available
Lifetime	30,000 - 50,000 hours
Remarks	Power/data supply and controls need to be ordered separately. See also Technical overview – data enablers page 4.90 Power suplies: ZCX400 PDS-60CA 7.5V DMX / ETHERNET EOC 710830 99

IP66



BGC490

iColor Flex SL with clear dome

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGC490 150xLED-MD/RGB 7.5V 120 CLDM4 BK	0.80	710007 99
BGC490 150xLED-MD/RGB 7.5V 120 CLDM4 WH	0.87	709957 99
BGC490 150xLED-MD/RGB 7.5V 120 CLDM4 CL	0.80	710168 99
BGC490 150xLED-MD/RGB 7.5V 120 CLDM12 BK	0.87	710113 99
BGC490 150xLED-MD/RGB 7.5V 120 CLDM12 WH	0.87	710083 99
BGC490 150xLED-MD/RGB 7.5V 120 CLDM12 CL	0.93	710175 99

Please contact your local Philips representative for additional configurations

iColor Flex SL with translucent dome

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGC490 150xLED-MD/RGB 7.5V 120 TSDM4 BK	0.80	709995 99
BGC490 150xLED-MD/RGB 7.5V 120 TSDM4 WH	0.80	709940 99
BGC490 150xLED-MD/RGB 7.5V 120 TSDM12 BK	0.87	710106 99
BGC490 150xLED-MD/RGB 7.5V 120 TSDM12 WH	0.87	710076 99

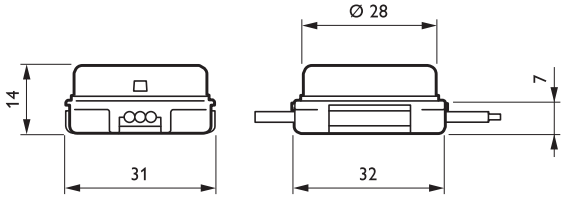
Please contact your local Philips representative for additional configurations

iColor Flex SLX

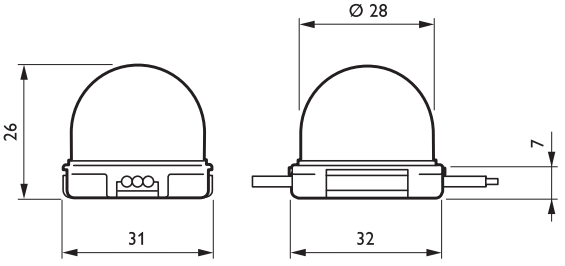
Type	BGC491
Number of LEDs per pixel	7 (3 red, 2 green, 2 blue)
Number of RGB pixels per string	50
Colour resolution	36 bits
Luminous Intensity per pixel	1,9 cd
Power supply	12V DC
Power consumption	50W Max. at full intensity
Viewing angle	115°
Lenses	Clear flat Translucent dome
Operating temperature	-20°C > T_a > 50°C
Material Housing	Polycarbonate
Colour	Black White

Installation	Surface mounted Through hole mounted
Pixel pitch	10.2 cm (4") 30.5 cm (12") Custom spacing available
Lifetime	30,000 - 50,000 hours
Remarks	Power/data supply and controls need to be ordered separately. See also Technical overview – data enablers page 4.90 Power suplies: ZCX400 PDS-60CA 12V EOC 710939 99 ZCX400 PDS-60CA 12V DMX / ETHERNET EOC 710946 99

IP66



BCG491 CLFT4/CLFT12



BCG491 TSDM4/TSDM12

iColor Flex SLX with clear flat lenses

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGC491 50xLED-MD/RGB 12V 115 CLFT4 WH	1.63	710267 99
BGC491 50xLED-MD/RGB 12V 115 CLFT12 WH	2.05	710281 99
BGC491 50xLED-MD/RGB 12V 115 CLFT4 BK	1.63	710304 99
BGC491 50xLED-MD/RGB 12V 115 CLFT12 BK	2.08	710328 99

Please contact your local Philips representative for additional configurations

iColor Flex SLX with translucent dome

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGC491 50xLED-MD/RGB 12V 115 TSDM4 WH	1.63	710250 99
BGC491 50xLED-MD/RGB 12V 115 TSDM12 WH	2.08	710274 99
BGC491 50xLED-MD/RGB 12V 115 TSDM4 BK	1.63	710298 99
BGC491 50xLED-MD/RGB 12V 115 TSDM12 BK	2.15	710311 99

Please contact your local Philips representative for additional configurations

eW Flex SLX – a versatile solution

The eW Flex SLX is a versatile strand of 50 white LED nodes that apply Chromasic® -based intelligence for individual control. Designed for accent or perimeter lighting or as a component of a custom fixture, eW Flex SLX provides lighting professionals with a 'building block' for the design and creation of custom applications. The durable, flexible form factor allows dynamic points of white light to be installed across nearly any interior or exterior surface – walls, ceilings, floors, as well as three-dimensional sculptures and set pieces.

A choice of colour temperature (2700 K or 4200 K) ensures design flexibility, while the high intensity node of light allows longer-distance viewing. These factors make eW Flex SLX an excellent choice for building outlines, signage applications, under-cabinet lighting, architectural details, amusement themes, store windows or other retail displays, museum lighting, restaurant, bar or nightclub lighting. Furthermore this product can also be used for Monochromatic Video.

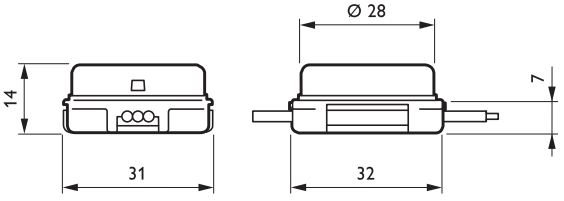
www.philips.co.uk/lighting

eW Flex SLX

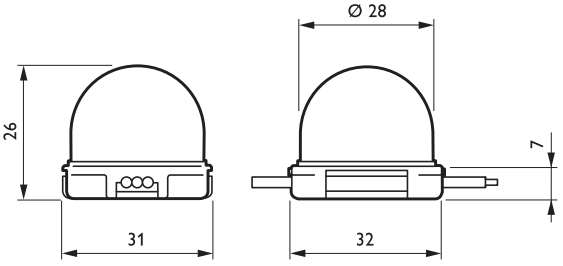
Type	BGC480
Number of LEDs per pixel	5
Number of RGB pixels per string	50
Luminous intensity per pixel	3,3 cd
Power supply	24V DC
Power consumption	50W Max. at full intensity
Viewing angle	115°
Lenses	Clear flat Translucent dome
Operating temperature	-40°C > T_a > 50°
Material Housing	Polycarbonate
Colour	White

Installation	Surface mounted Through hole mounted
Pixel pitch	10, 2cm (4") 30,5 cm (12") Custom spacing available
Lifetime	30.000 – 50.000 hours
Remarks	Power/data supply and controls need to be ordered separately. See also Technical overview – data enablers page 4.90 Power suplies: ZCX400 PDS-60CA 24V EOC 710847 99 ZCX400 PDS-60CA 24V DMX EOC 715606 99

IP66



BGC480 CLFT4/CLFT12



BGC480 CLDM/TSDM

eW Flex with clear flat lenses

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGC480 50xLED-MD/WW 24V 115 CLFT4 WH	1.63	711653 99
BGC480 50xLED-MD/WW 24V 115 CLFT12 WH	2.11	711677 99
BGC480 50xLED-MD/NW 24V 115 CLFT4 WH	1.72	711691 99
BGC480 50xLED-MD/NW 24V 115 CLFT12 WH	2.19	711714 99

Please contact your local Philips representative for additional configurations

eW Flex with translucent dome

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BGC480 50xLED-MD/WW 24V 280 TSDM4 WH	1.74	711646 99
BGC480 50xLED-MD/WW 24V 280 TSDM12 WH	2.15	711660 99
BGC480 50xLED-MD/NW 24V 280 TSDM4 WH	1.73	711684 99
BGC480 50xLED-MD/NW 24V 280 TSDM12 WH	2.23	711707 99

Please contact your local Philips representative for additional configurations

Accessories iColor Flex SLX and eW Flex SLX

Product ID	Description	EOC
ZGC491 RA WH	Mounting track for SLX - white - 1.2m	710335 99
ZGC491 RA BK	Mounting track for SLX - black - 1.2m	710342 99
ZGC491 SNC WH (50PCS)	Single node holders for SLX - white	710359 99
ZGC491 SNC BK (50PCS)	Single node holders for SLX - black	710366 99
ZGC491 SPA-4 (50PCS)	Mounting track spacer for SLX - white - 10 cm	710373 99
ZGC491 SPA-12 (50PCS)	Mounting track spacer for SLX - white - 30 cm	710380 99
ZGC491 SPA-4 BK (50PCS)	Mounting track spacer for SLX - black - 10 cm	710410 99
ZGC491 SPA-12 BK (50PCS)	Mounting track spacer for SLX - black - 30 cm	710427 99
ZGC491 RA CL	Mounting track for SLX - clear - 1.2m	715644 99
ZGC480 IN-LINE ON/OFF ADAPTER	Used to connect eW Flex SLX to a PS-96 24V power supply	710571 99

Accessories iColor Flex SL

Product ID	Description	EOC
ZGC490 RA WH	Mounting track for SL - white - 1.2m	710045 99
ZGC490 RA BK	Mounting track for SL - black - 1.2m	710052 99
ZGC490 RA CL	Mounting track for SL - clear - 1.2m	710069 99
ZGC490 SNC WH (50PCS)	Single node holders for SL - white	710144 99
ZGC490 SNC BK (50PCS)	Single node holders for SL - black	710151 99
ZGC490 SPA-4 WH (50PCS)	Mounting track spacer for SL - white - 10 cm	710199 99
ZGC490 SPA-4 BK (50PCS)	Mounting track spacer for SL - black - 10 cm	710205 99
ZGC490 SPA-12 WH (50PCS)	Mounting track spacer for SL - white - 30 cm	710212 99
ZGC490 SPA-12 BK (50PCS)	Mounting track spacer for SL - black - 30 cm	710229 99

dTube – full video experience

The dTube is a transparent outdoor rated tube mounted in an aluminium profile housing 12 or 16 best in class RGB LED pixels, specifically designed for creative video capable displays. This capability allows content managers and creative media specialists to display video from any source or any format, ranging from animations up to live broadcasts.

The dTube is one of the most energy efficient creative LED video systems in the market due to a balanced design of high efficient LEDs and industry leading integrated power management. This "green" solution allows designers and architects to save up to 50% in power consumption with the same display brightness and resolution.

The dTube concept is very robust with no need for complex back structures, allowing the final installation to remain transparent and lightweight. The design allows for free format layout and scalability, ranging from few m^2 up to thousands of m^2. As all system components are fully outdoor proof there is no need for additional arrangement for environmental protection.

www.philips.com/vidiwall

dTube - 75 mm pitch

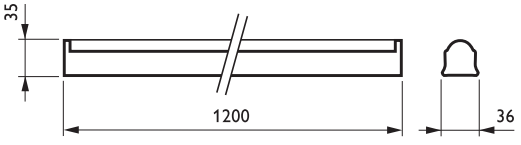
Type	VWS130 016 001 1B BK	VWS130 016 001 2D BK	VWS130 016 001 4F BK
Number of LEDs per pixel	1 x 3in1 SMD	2 x 3in1 SMD	4 x 3in1 SMD
Number of RGB pixels per tube	16	16	16
Colour resolution	48 bits	48 bits	48 bits
Luminous Intensity per pixel	2 cd	4 cd	8 cd
Power supply	24V DC	24V DC	24V DC
Power consumption per pixel	0.5 W Max. at full intensity	0.8 W Max. at full intensity	1.4 W Max. at full intensity
Controls (optional)	SP600 with DVI input	SP600 with DVI input	SP600 with DVI input
Viewing angle	120°	120°	120°
Operating temperature	-20°C > T_a > 45°C	-20°C > T_a > 45°C	-20°C > T_a > 45°C
Material Housing	Aluminium base with polycarbonate tube	Aluminium base with polycarbonate tube	Aluminium base with polycarbonate tube
Colour	Black	Black	Black
Installation	Surface mounted	Surface mounted	Surface mounted
Pixel pitch	75 mm	75 mm	75 mm
Lifetime	50,000 - 70,000 hours	50,000 - 70,000 hours	50,000 - 70,000 hours
Ingress protection	IP66	IP66	IP66
Approbations	CE	CE	CE
Remarks	Power/data supply and controls need to be ordered separately	Power/data supply and controls need to be ordered separately	Power/data supply and controls need to be ordered separately

Specifications subject to change without notice

dTube - 100 mm pitch

Type	VWS140 012 001 1B BK	VWS140 012 001 2D BK	VWS140 012 001 4F BK
Luminous Intensity per pixe	1 x 3in1 SMD	2 x 3in1 SMD	4 x 3in1 SMD
Number of RGB pixels per tube	12	12	12
Colour resolution	48 bits	48 bits	48 bits
Brightness per pixel	2 cd	4 cd	8 cd
Power supply	24V DC	24V DC	24V DC
Power consumption per pixel	0.5 W Max. at full intensity	0.8 W Max. at full intensity	1.4 W Max. at full intensity
Controls (optional)	SP600 with DVI input	SP600 with DVI input	SP600 with DVI input
Viewing angle	120°	120°	120°
Operating temperature	-20°C > T_a > 45°C	-20°C > T_a > 45°C	-20°C > T_a > 45°C
Material Housing	Aluminium base with polycarbonate tube	Aluminium base with polycarbonate tube	Aluminium base with polycarbonate tube
Colour	Black	Black	Black
Installation	Surface mounted	Surface mounted	Surface mounted
Pixel pitch	100 mm	100 mm	100 mm
Lifetime	50,000 - 70,000 hours	50,000 - 70,000 hours	50,000 - 70,000 hours
Ingress protection	IP66	IP66	IP66
Approbations	CE	CE	CE
Remarks	Power/data supply and controls need to be ordered separately	Power/data supply and controls need to be ordered separately	Power/data supply and controls need to be ordered separately

Specifications subject to change without notice



VWS130/140

Plaza del Sol, Móstoles, Spain
Architect: Enrique Fombella
Lighting design: Enriqueta Diaz

Scene setting controls

Philips transforms environments through new, dynamic uses of light. Our lighting systems and technologies apply the benefits of LED lighting, a highly efficient, long-lasting, environmentally friendly and inherently digital source of illumination, thus reinventing light itself as a highly controllable medium.

For applications of colour and colour-changing light, Philips offers a growing line of fixtures, controllers and power/data supplies for diverse installations. The following tables provide a short overview of available controllers and power/data supplies.

					Luminaire type		Preset type			Interaction	
			Product ID	EOC	Colour control	iWhite Control	Static presets	Dynamic presets	Scheduler (clock)	Build in User interface	Remote / External Triggering
Basic:											
	iW Scene Controller	Pushbutton control of colour temperature including 4 zone presets and 4 static presets	LRC9624	71178399		•	•			•	
Medium:											
	ColourChaser DMX144	Compact controller that stores and plays up to 4 pre-programmed light shows	LRC9600/00	73089900	•		•	•			•
	ColourChaser Touch	Intuitive and touch sensitive controller to directly set a colour or recall one of the 4 pre-programmed light shows	LRC9611	80896399	•		•	•		•	
	iPlayer3	Compact controller that stores and plays up to 5 pre-programmed light shows	LRC9613	27559899	•		•	•	•	•	•
Advanced:											
	Light System Manager	Combined software and hardware solution providing control for large scale, Ethernet based installations	LRC9621	71442500	•		•	•	•		•
	Video System Manager Pro DVI	Combined software and hardware solution providing control for large scale, video-based Ethernet control installations	LRC9626	71559000	•						

Programming			Control protocol			Control capacity		Mounting				
Basic scene programming	Advanced scene programming	D VI input	DMX 512 A	RDM	Ethernet	individual controllable RGB luminaires	Maximum DMX addresses	Surface mount	Wall mount box US	DIN Rail mount	19" rack mount	Desktop
						4 zones (no RGB)			•			
•			•			48	144			•		
•			•	•		100	512	•				
•	•		•			340	1024	•				
•	•				•	10.000						•
		•			•	250.000					•	

Luminaire	Supplied with	Accessories
iColor Accent Powercore		
	Connector on luminaire, cable to be ordered separately	Leader cable 15 m EOC 71075599Jumper cable 30 cm EOC 71076299 / 60 cm EOC 71079399 / 1.5 m EOC 71078699 / 3 m EOC 71077999
ColorBlast 12		
	Fixed cable with flying leads	
ColorBlast 12 Powercore		
	Fixed cable with flying leads	
ColorBlast 6		
	Fixed cable with flying leads	
ColorBurst 6		
	Fixed cable with flying leads	
ColorGraze Powercore		
	Connector on luminaire, cable to be ordered separately	Leader cable and jumper cable (available April 2009)
ColorReach Powercore		
	Connector on luminaire, cable to be ordered separately	Leader cable and jumper cable (available April 2009
C-splash 2		
	Fixed cable with flying leads	
iW Blast Powercore		
	Fixed cable with flying leads	

Features
Ethernet input
DMX512 input
Stand alone use/ preprogrammed
Indoor use
Outdoor use
Operating Voltage
EOC

Compatibility							
PDS-150E	**PDS-60 24V pre-programmed**	**PDS-60 24V DMX/ Ethernet**	**PDS-750 TR**	**Data Enabler DMX**	**Data Enabler Ethernet**	**Data Enabler EO**	**iW Data Enabler**
						•	
•	•	•	•*				
				•	•		
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•	•	•	•	•	•	•	•
		•		•	•	•	•
100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac
71081699	71081699	71085499	71090800	27556799	71053399	71054099	71179099

There are limitations to the amount of luminaires that can be connected to a PDS/DataEnabler. Please refer to the manual of the product for details.

• See product manual how to connect

•* Ask your local sales representave how to connect

Luminaire	Supplied with	Compatibility		
		PDS-60ca 24V Preprogrammed	PDS-60ca 24V Ethernet	PDS-60ca 24V DMX
iColor Flex SL				
	fixed cable with connector	-	-	-
iColor Flex SLX				
	fixed cable with connector	-	-	-
eW Flex SLX				
	fixed cable with connector	●	●	●
Features				
	Ethernet input	-	●	-
	DMX512 input	-	-	●
	Stand alone use/ preprogrammed	●	-	-
	Indoor use	●	●	●
	Outdoor use	●	●	●
	Operating Voltage	100-240Vac	100-240Vac	100-240Vac
	EOC	71084799	71561399	71560699

Compatibility						
PDS-60ca12V preprogrammed	**PDS-60ca12V DMX/Ethernet**	**PDS-60ca 7,5V DMX/Ethernet**	**sPDS-60ca 24V**	**sPDS-480ca 24V**	**sPDS-480ca 12V**	**sPDS-480ca 7,5V**
		•				•
•	•				•	
			•	•		
	•	•	•	•	•	•
	•	•	•			
•						
•	•	•	•	•	•	•
•	•	•				
100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac	100-240Vac
71093999	71094699	71083099	71095399	71099100	71097700	71096000

PROflood

PROflood – eye-catching display effects

PROflood is a waterproof projector allowing both image projection and creative light framing – a powerful tool that gives display lighting designers great creative freedom. PROflood makes its mark in many different ways. It highlights the most attractive architectural and natural features of the city. It can create a welcoming, safe and intriguing ambience. It is ideal for drawing attention to retail displays. It can be used to great effect supporting and enlivening cultural events and special occasions.

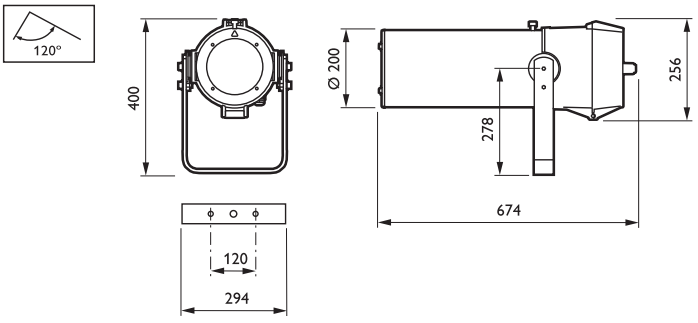
Its output can be adjusted to precisely match the surroundings or to create a particular effect. Colour Solgel filters are available to bring a touch of colour to the projected light, while textured glass screens create specific lighting effects.

www.philips.co.uk/lighting

	PROflood
Type	DCP608
Light source	HID: 1 x CDM-SA/T / G12 / 150 W
Lamp included	Yes (K)
Gear (integrated)	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Four non-reflecting lenses: beam angle adjustments of 2 x 10° to 2 x 20° (Zoom spot) Image size (Ø): adjustable by moving the lens along the optical axis Image focus: adjustable by moving the two lenses along the optical axis Image uniformity: adjustable by moving the diaphragm (Ø 50 mm) along the optical axis
Materials and finishing	Housing and cannon: high-pressure die-cast aluminium Glass: thermally hardened, 4 mm thick Brackets and supports for gobo and glass filters: stainless steel Reflector: high-quality anodised aluminium

Colour	Dark grey (GR)
Installation	Pole at anything up to 6 m above the ground and wall mounting with a special bracket One M20 cable gland Ambient temperature outdoor: 25°C (35°C under certain restrictions) SCx): 0.12 m^2 Max. vertical aiming: -30 to +90°
Maintenance	Lamp access by opening the rear cover (does not affect the optical settings) No internal cleaning required
Accessories	Gobo (GOBO), diaphragm shutter (DSHT) Solgel colour filters, support for glasses
Remarks	Integrated electronic ballast, PrimaVision HID PV/150 220 - 240 V AC, 50 / 60 Hz, increases the lifespan of the CDM by up to 30% through faster elimination of the effects of mains voltage variation and by controlling the lamp ignition
Main applications	Modern and classical buildings, architectural floodlighting

IP 65



DCP608

PROflood DCP608 architectural flood lighting luminaire, standard with gobo support (GOBO) and/or shutters (DSHT)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DCP608 CDM-TSA150W K 230-240V GOBO	19.00	845296 00
DCP608 CDM-TSA150W K 230-240V DSHT	19.00	845302 00
DCP608 CDM-TSA150W K 230-240V GOBO DSHT	19.00	845289 00

Please contact your local Philips representative for additional configurations

Light framing

PROflood has four adjustable parallelepiped shutters, made of stainless steel, for accurate direction of the projected beam.
Each shutter is secured in position by means of a nut brake.
For thermal reasons, the shutter can be adjusted manually for approximately 15 minutes after the PROflood has been switched on, then it becomes too hot.

Shutters

Image projection

A gobo support mounted in the projector allows fixation of any customised steel or glass gobo.
The gobo support has a nut brake and protective rings to firmly secure it. The gobo to be used is size A: 100 mm gobo diameter and 75 mm image diameter.
The gobo support can be adjusted between +15° and –15°, which allows very accurate positioning of the gobo itself.

Gobo support

Anamorphosis

When the PROflood is installed to one side above or below the axis, the projected image without gobo correction becomes distorted.
To overcome this, dedicated software has been developed to calculate the required gobo form to offset the distortion.

PROflood's internal structure

Example of anamorphosis

Accessories

Blue, light blue, green, magenta or yellow Solgel filters or a red tinted filter can be added to PROflood. The colour filter support needs to be ordered separately.

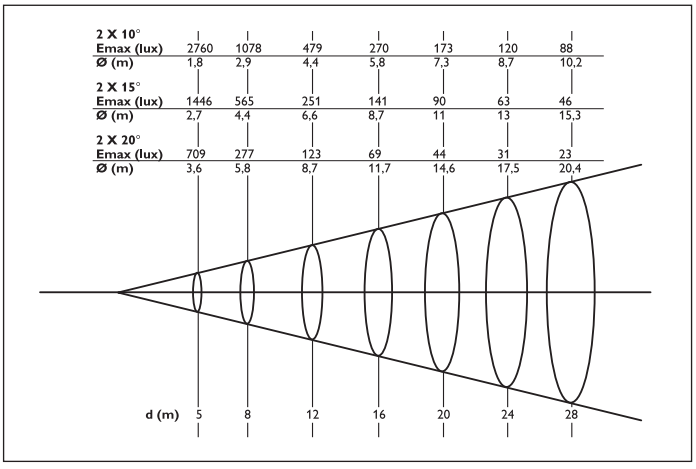
Colour filters to bring a touch of colour to the projected light

Glass screens

There are also two different types of textured glass screen for the creation of specific lighting effects. The grained screen softens the beam, whereas the fine-ridged screen spreads the beam in either a horizontal or vertical direction (on demand only).

Fine-ridged glass

Object lit by fine-ridged glass



Photometrical data

Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZCP608 GLS	Filter support	0.30	503104 00
ZCP608 F-RD	Red filter	0.50	503111 00
ZCP608 SGF-MG	Magenta Solgel filter	0.48	502350 00
ZCP608 SGF-YE	Yellow Solgel filter	0.48	477503 00
ZCP608 SGF-GN	Green Solgel filter	0.48	477480 00
ZCP608 SGF-BL	Blue Solgel filter	0.48	477473 00
ZCP608 SGF-LBL	Light Blue Solgel filter	0.40	600346 00

Solgel colour filters to bring a touch of colour to the projected light

Zénith Europe Music Hall, Eckbolsheim, France
Lighting design: Pierre Nègre, L' Atelier du Paysage, Illzach, France

Liverpool, United Kingdom

Decoflood

Decoflood – the ideal solution for city beautification

Decoflood is a family of seven high performance floodlights, offering aesthetically pleasing yet surprisingly rugged luminaire designs. An extensive range of lamps provides a choice of colour appearance and colour rendering, while twenty different optics offer a wide selection of beam spread patterns. Even more options are available, with further choices of refractive glass plates and stylish louvres.

www.philips.co.uk/lighting

product design award

Mini Decoflood DWP603/604

Decoflood MVF605

Decoflood MVF606

Decoflood MVF607

Decoflood MVF616

Decoflood MVF617

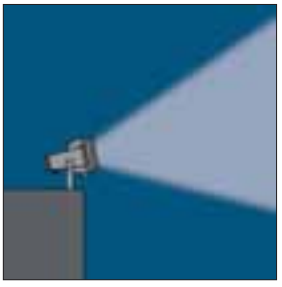
Decoflood MVF619

Decoflood filtering accessories

A wide range of accessories can be used with the various products in the Decoflood range, providing specifiers with maximum flexibility in complying with the increasingly stringent requirements of urban lighting applications. The following table illustrates the many effects which can be obtained with the different accessories.

Prevents glare in all directions

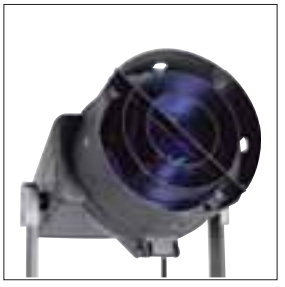
Without accessory



With accessory

Round louvre

- Decoflood 605
- Decoflood 606
- Decoflood 607
- Decoflood 619

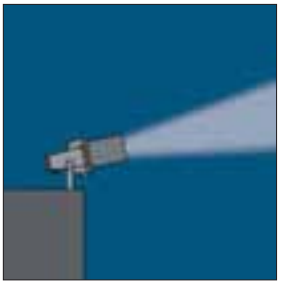


Prevents glare in a single direction

Glare shield

- Decoflood 605
- Decoflood 606
- Decoflood 607

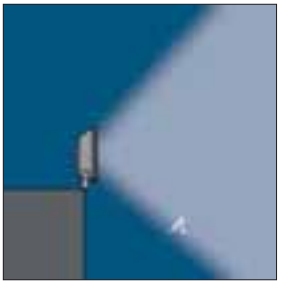
Ensures total visual comfort without glare



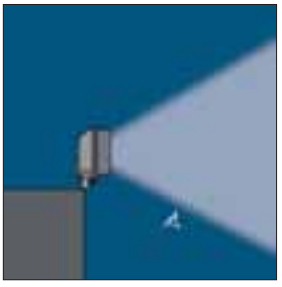
Cannon

- Decoflood 605
- Decoflood 606
- Decoflood 607

Prevents glare in a lateral direction



Without accessory



With accessory

Vertical louvre

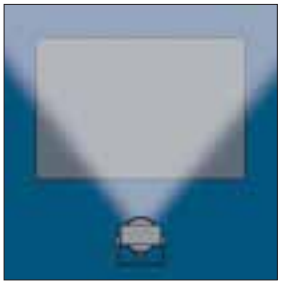
- Decoflood 616 (narrow beam, medium beam and wide beam reflectors)
- Decoflood 617 (narrow beam, medium beam and wide beam reflectors)

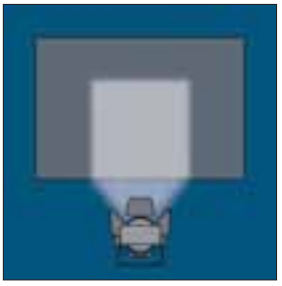
Prevents glare on the lower part of the luminaire

Horizontal louvre

- Decoflood 616 (narrow beam reflector)
- Decoflood 617 (narrow beam, medium beam and wide beam reflectors)
- Decoflood 619 (symmetrical reflector)

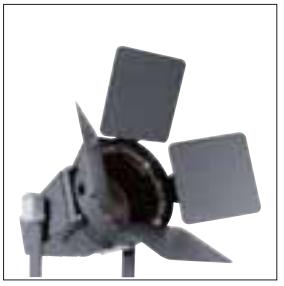
Reduces unwanted light output in a horizontal or vertical direction





Barndoors

- Decoflood 605
- Decoflood 606
- Decoflood 607
- Decoflood 616 (narrow beam, medium beam and wide beam reflectors)
- Decoflood 617 (narrow beam, medium beam and wide beam reflectors)



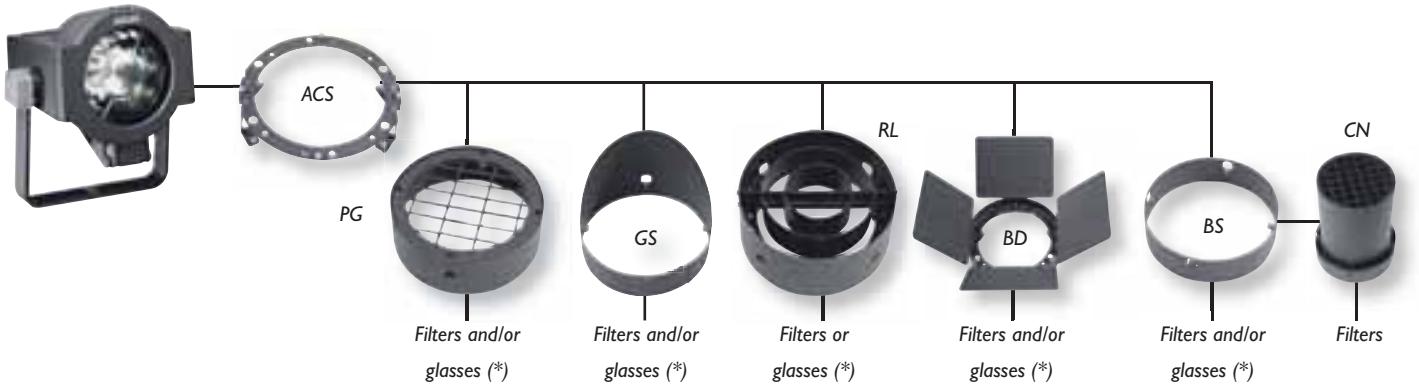
Prevents impacts and damage to the glass

Protection grid

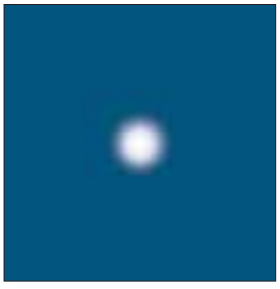
- Decoflood 605
- Decoflood 606
- Decoflood 607
- Decoflood 616
- Decoflood 617

Decoflood 605/606 accessories

For the Decoflood floodlights with a round form (605 and 606), a support (ACS) is required before any accessory can be fitted. If a cannon, refractive glass and/or a colour filter are to be fitted alone (without any other accessory), a special base (BS) is required.

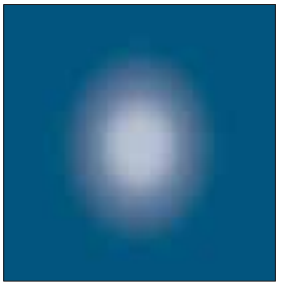


Lighting effect on a façade, with the floodlight positioned opposite the façade.

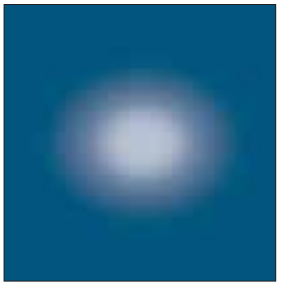


Standard glass

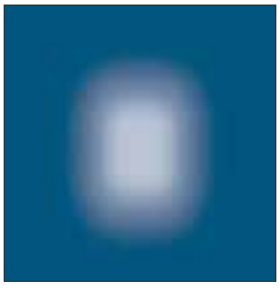
Grained glass (BSO)



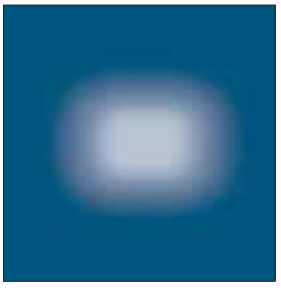
Honeycomb glass, vertical pattern (VBSO)



Honeycomb glass, horizontal pattern (HBSO)

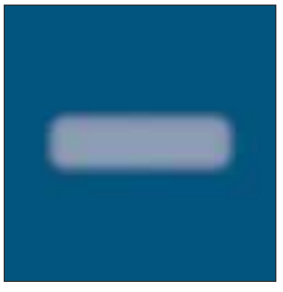


Diamond-point glass, vertical pattern (VBSP)



Diamond point glass, horizontal pattern (HBSP)

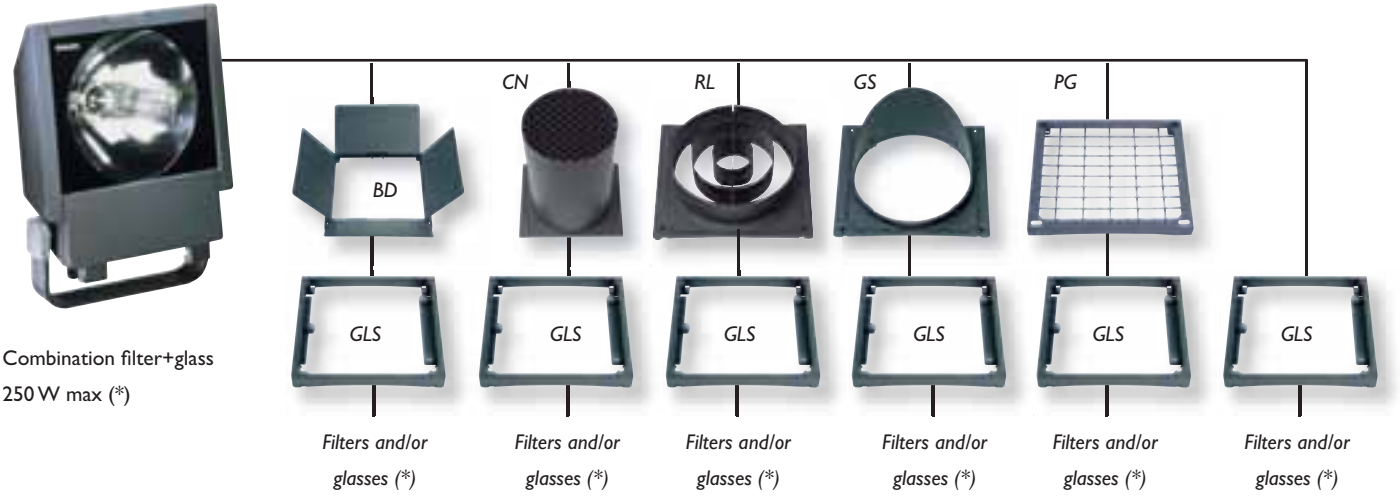
Fine ridged glass, vertical pattern (VLBSP)



Fine ridged glass, horizontal pattern (HLBSP)

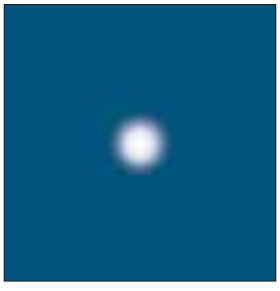
Decoflood 607 accessories

For the Decoflood 607 floodlight, a glass support (GLS) is required if refractive glass and/or a colour filter are to be fitted (with or without another accessory).



Combination filter+glass 250 W max (*)

Lighting effect on the façade, with the floodlight positioned opposite the façade.



Standard glass

Grained glass (BSO)

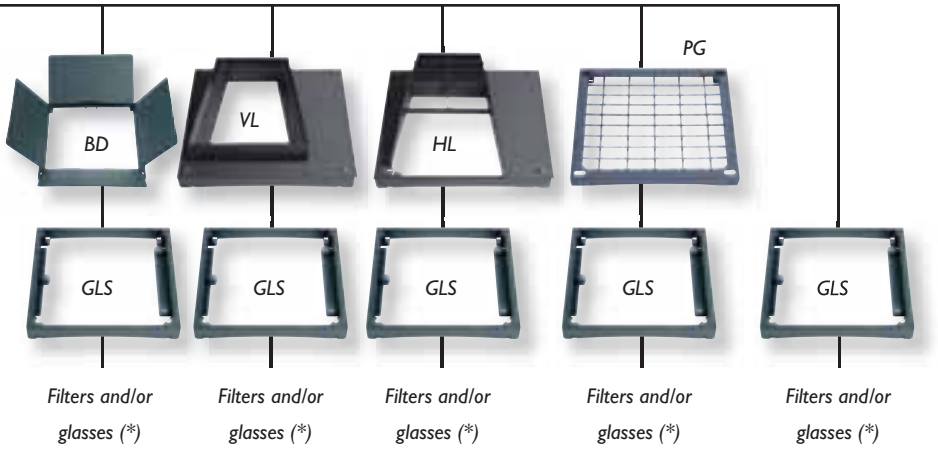
Diamond point glass, horizontal pattern (HBSP)

Fine ridged glass, vertical pattern (VLBSP)

Fine ridged glass, horizontal pattern (HLBSP)

Decoflood 616/617 accessories

For the Decoflood floodlights with a rectangular form (616 and 617), a glass support (GLS) is required if refractive glass and/or a colour filter are to be fitted (with or without another accessory).



Combination filter+glass
Decoflood 616 : 100 W max (*)
Decoflood 617 : 250 W max (**)

Lighting effect on the wall, with the floodlight positioned at the foot of the façade and directed upwards

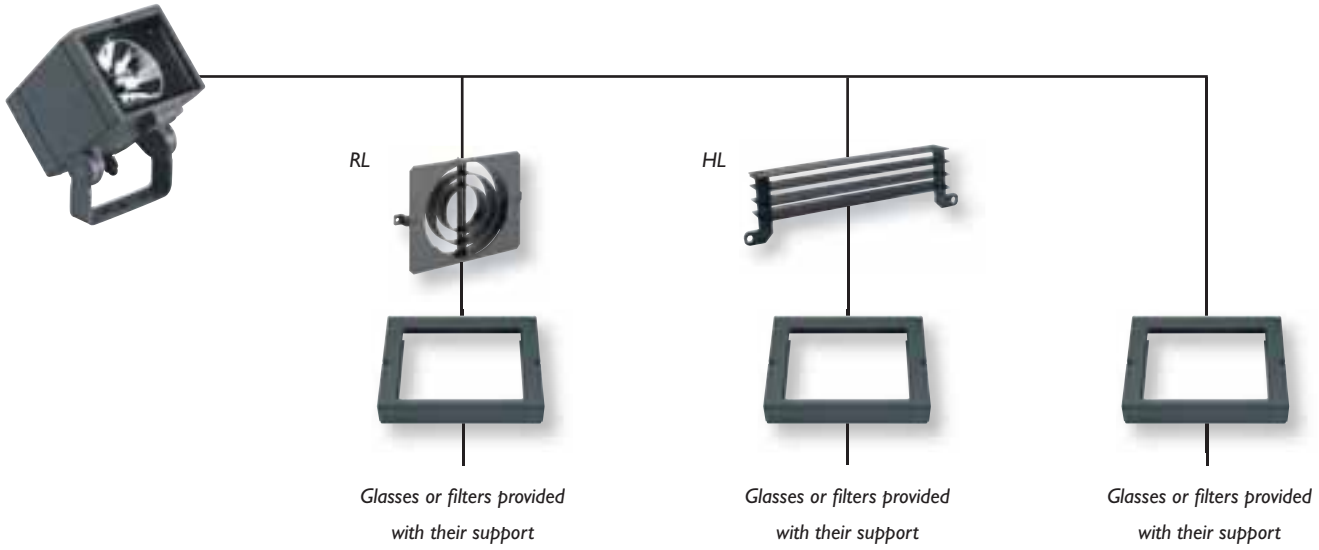
Standard glass

Grained glass (BSO)

Diamond point glass (BSP)

Decoflood 619 accessories

For the Decoflood 619 floodlight, the refractive glass or filters are supplied together with their support, if ordered separately.
It should be noted that if specifically requested in advance, these and the louvre can be fitted by us. Please, contact your local Philips representative for these configurations.

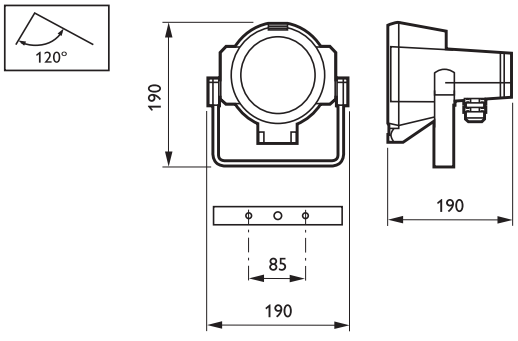


The accessories available are louvres:
- round (RL) for the versions with the round optic
- horizontal (HL) for the versions with the symmetrical rectangular optic

These accessories are secured systematically on the exterior of the floodlight, but without adding a support frame.
It should be noted that if specifically requested in advance, in some cases they can be fitted inside the floodlight.

	Decoflood
Type	MVF605
Light source	Halogen: 1 x HalogenA PAR38 / E27 / 75, 100 W 1 x PAR38E / E27 / 60, 80, 120 W HID: 1 x MASTERColour CDM-R / E27 / 35 W
Lamp included	No
Materials and finishing	Housing, front frame and rear cover: high-pressure die-cast aluminium Glass: toughened, 4 mm thick Gaskets: silicone rubber Mounting bracket: paint-coated aluminium End caps: polypropylene, UV-stabilised
Colour	Housing and bracket: dark grey (GR), RAL 10714 End caps: light grey Other RAL colours available on request
Installation	Ceiling, wall or floor mounting, optional pole mounting Rear access for mains connection, cable entry via M20 cable gland Angle indicator with marking integrated Ambient temperature outdoor: 35°C Drag factor (Cx): n/a Projected area in horizontal position: 0.03 m^2 Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -30 to +90°
Maintenance	Hinged front window with quick-release fastener No internal cleaning required
Accessories	Solgel and glass filters in various colours, refractive glass plates, louvres, protection grid, barndoors, base ring, glare shield, cannon, accessory support
Remarks	Compliant with IEC 598 and EN 60598
Main applications	Parks, pathways, architectural floodlighting, bridges, structures, sculptures

IP65 IK08



MVF605

Decoflood MVF605 flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF605 MAX120W-E27 GR	2.40	283265 00

Please contact your local Philips representative for additional configurations

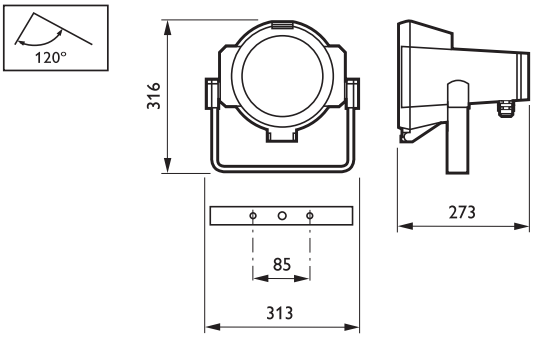
Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZVF605 ACS	Accessory support	0.30	234717 00
ZVF605 TPG	Protection grid	0.80	234694 00
ZVF605 GS	Glare shield	0.80	234700 00
ZVF605 RL	Round louvre	0.60	234687 00
ZVF605 BD	Barndoors	0.80	234670 00
ZVF605 BS	Base ring	0.30	234724 00
ZVF605 CN	Cannon	0.90	234663 00
ZVF605 SGF-BL	Blue Solgel filter	0.60	477060 00
ZVF605 SGF-GN	Green Solgel filter	0.60	477077 00
ZVF605 SGF-YE	Yellow Solgel filter	0.60	477091 00
ZVF605 SGF-MG	Red Solgel filter	0.60	502305 00
ZVF605 SGF-LBL	Light blue Solgel filter	0.60	502299 00
ZVF605 SGF-WAF2	Warmer filter	0.60	477114 00
ZVF605 SGF-COF2	Cooler filter	0.60	477107 00
ZVF605 HLBSP	Fine ridged glass, horizontal pattern	0.30	234656 00
ZVF605 VLBSP	Fine ridged glass, vertical pattern	0.30	235967 00

Helmond Castle, Helmond, The Netherlands

	Decoflood
Type	MVF606
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTER SDW-T / PG12-1 / 35, 50, 100 W 1 x SON-T / E27 / 70 W
Lamp included	Yes (K or light colour 830 or 942) No
Mains voltage	240 V
Gear and compensation (integrated)	Electromagnetic (low loss), 240 V / 50 Hz
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB) Wide beam, large (WB-L)
Ignitor	Series (SI) Semi-parallel (SP)
Options	Other voltages or versions without gear
Materials and finishing	Housing, front frame and rear cover: high-pressure die-cast aluminium Glass: toughened, 4 mm thick Gaskets: silicone rubber Mounting bracket: paint-coated aluminium End caps: polypropylene, UV-stabilised Reflectors: high-grade anodised aluminium
Colour	Housing and bracket: dark grey (GR), RAL 10714 End caps: light grey Other RAL colours available on request

Installation	Ceiling, wall or floor mounting, optional pole mounting Rear access for mains connection, cable entry via M20 cable gland (2 cable glands for through-wiring facilities) Protractor scale integrated Ambient temperature outdoor: 35°C Drag factor (Cx): 0.78 Projected area in horizontal position: 0.07 m^2 Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -30 to +90°
Maintenance	Hinged front window with quick-release fastener No internal cleaning required
Accessories	Solgel and glass filters in various colours, refractive glass plates, glare shield, cannon, louvres, protection grid, barndoors, base ring, accessory support
Remarks	'Memory ring' integrated for immediate re-aiming if the floodlight should be swivelled off-beam
Main applications	Parks, pathways, architectural floodlighting, bridges, structures, sculptures



MVF606

Decoflood MVF606 flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF606 CDM-T35W 240V I NB GR	6.13	282770 00
MVF606 CDM-T35W 240V I MB GR	6.13	282787 00
MVF606 CDM-T35W 240V I WB GR	6.13	282794 00
MVF606 CDM-T70W/830 K 240V I NB GR SP	6.36	677477 00
MVF606 CDM-T70W/830 K 240V I MB GR SP	6.36	849737 00
MVF606 CDM-T70W/830 K 240V I WB GR SP	6.36	677484 00
MVF606 CDM-T70W/830 K 240V I WB-L GR SP	6.36	677491 00
MVF606 CDM-T150W/830 K 240V I NB GR SP	7.11	677149 00
MVF606 CDM-T150W/830 K 240V I MB GR SP	7.11	849744 00
MVF606 CDM-T150W/830 K 240V I WB GR SP	7.11	677156 00
MVF606 CDM-T150W/830 K 240V I WB-L GR SP	7.11	677163 00
MVF606 SON-T70W K 240V I NB GR SP	6.51	677118 00
MVF606 SON-T70W K 240V I MB GR SP	6.51	849720 00
MVF606 SON-T70W K 240V I WB GR SP	6.51	677125 00
MVF606 SON-T70W K 240V I WB-L GR SP	6.51	677132 00
MVF606 SDW-T50W 240V I NB GR	6.36	282718 00
MVF606 SDW-T50W 240V I MB GR	6.36	282725 00
MVF606 SDW-T50W 240V I WB GR	6.36	282732 00
MVF606 SDW-T100W 240V I NB GR	6.81	282749 00
MVF606 SDW-T100W 240V I MB GR	6.81	282756 00
MVF606 SDW-T100W 240V I WB GR	6.81	282763 00

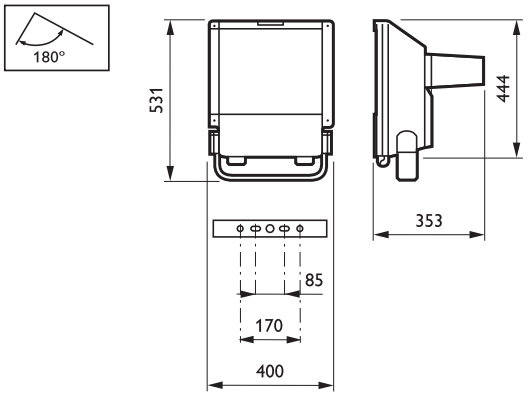
Please contact your local Philips representative for additional configurations

Accessories

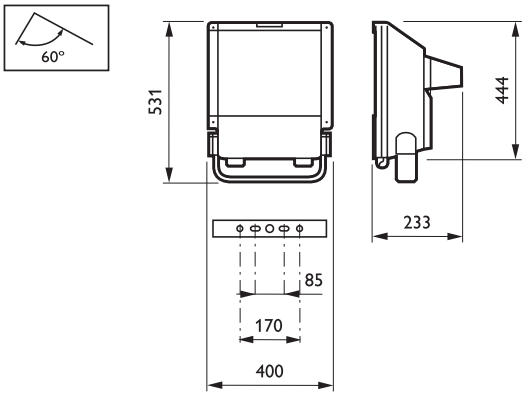
Product ID	Description	Weight (kg)	European Order Code (EOC)
ZVF606 ACS	Accessory support	0.30	233796 00
ZVF606 PG	Protection grid	0.80	233741 00
ZVF606 GS	Glare shield	0.50	233765 00
ZVF606 RL	Round louvre	0.90	233772 00
ZVF606 BD	Barndoors	1.90	233758 00
ZVF606 BS	Base ring	0.30	233802 00
ZVF606 CN	Cannon	1.20	233789 00
ZVF606 SGF-BL	Blue Solgel filter	0.90	477121 00
ZVF606 SGF-GN	Green Solgel filter	0.90	477138 00
ZVF606 SGF-YE	Yellow Solgel filter	0.90	477152 00
ZVF606 SGF-MG	Magenta Solgel filter	0.90	477510 00
ZVF606 SGF-LBL	Light blue Solgel filter	0.60	477169 00
ZVF606 BSO	Grained glass	0.90	233680 00
ZVF606 HBSO	Honeycomb glass, horizontal pattern	0.90	233697 00
ZVF606 VBSO	Honeycomb glass, vertical pattern	0.90	233703 00
ZVF606 HBSP	Diamond point glass, horizontal pattern	0.50	235950 00
ZVF606 VBSP	Diamond point glass, vertical pattern	0.90	233710 00
ZVF606 HLBSP	Fine ridged glass, horizontal pattern	0.90	233727 00
ZVF606 VLBSP	Fine ridged glass, vertical pattern	0.90	233734 00
ZVF606 SGF-COF2	Warmer filter	0.60	477176 00
ZVF606 SGF-WAF2	Cooler filter	0.60	477183 00

	Decoflood
Type	MVF607
Light source	HID: 1 x MASTERColour CDM-T / G12 / 250 W 1 x SON-T / E40 / 150, 250, 400, 600 W
Lamp included	Yes (K) No
Mains voltage	240 V
Gear and compensation (integrated)	Electromagnetic (low loss), 240 V / 50 Hz
Optic	Narrow beam (NB)
Ignitor	Series (SI) Semi-parallel, self-stopping (ST) Semi-parallel (SP)
Options	Other voltages or versions without gear
Materials and finishing	Housing, front frame and rear cover: high-pressure die-cast aluminium Glass: toughened, 4 mm thick Gaskets: silicone rubber Mounting bracket: paint-coated aluminium End caps: polypropylene, UV-stabilised Reflectors: high-grade anodised aluminium
Colour	Housing and bracket: dark grey (GR), RAL 10714 End caps: light grey Other RAL colours available on request
Installation	Ceiling, wall or floor mounting, optional pole mounting Front access for mains connection, cable entry via M20 cable gland (2 cable gland for through-wiring facilities) Protractor scale integrated Ambient temperature outdoor: 35°C Drag factor (Cx): 1.18 Projected area in horizontal position: 0.18 m^2 Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -90 to +90°
Maintenance	Hinged front window with quick-release fastener No internal cleaning required
Accessories	Solgel and glass filters in various colours, refractive glass plates, glare shield, cannon, louvres, protection grid, barndoors, glass support
Remarks	'Memory ring' integrated for immediate re-aiming if the floodlight should be swivelled off-beam
Main applications	Parks, pathways, architectural flood lighting, bridges, structures, sculptures

IP65 IK08



MVF607 SON-T



MVF607 CDM-T

Decoflood MVF607 flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF607 SON-T150W K 240V I NB GR SP	10.98	849836 00
MVF607 SON-T250W K 240V I NB GR SP	12.01	849843 00
MVF607 SON-T400W K 240V I NB GR SP	13.77	849850 00
MVF607 CDM-T250W K 240V I NB GR ST	11.47	852058 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZVF617 GLS	Glass support	1.50	234014 00
ZVF617 PG	Protection grid	1.50	233994 00
ZVF607 GS	Glare shield	2.30	234045 00
ZVF607 RL	Round louvre	2.20	234038 00
ZVF617 BD	Barndoors	2.50	234007 00
ZVF607 CN	Cannon	2.50	234021 00
ZVF617 SGF-BL	Blue Solgel filter	1.50	477190 00
ZVF617 SGF-GN	Green Solgel filter	1.50	477206 00
ZVF617 SGF-YE	Yellow Solgel filter	1.50	477220 00
ZVF617 SGF-MG	Magenta Solgel filter	1.50	502343 00
ZVF617 SGF-LBL	Light blue Solgel filter	1.50	502336 00
ZVF617 BSO	Grained glass	1.50	233932 00
ZVF607 HBSP	Diamond point glass, horizontal pattern	1.00	236506 00
ZVF607 HLBSP	Fine ridged glass, horizontal pattern	1.50	233987 00
ZVF607 VLBSP	Fine ridged glass, verticall pattern	1.50	233970 00
ZVF617 SGF-WAF2	Warmer filter	1.50	477244 00
ZVF617 SGF-COF2	Cooler filter	1.50	477237 00

The Parthenon, the Erechtheion, the Propylaea, Athens, Greece

Lighting design: Pierre Bideau

	Decoflood
Type	MVF616
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60 W 1 x SON-T / E27 / 70, 100, 150 W 1 x MASTER SDW-T / PG12-1 / 100 W 1 x MHN-TD / RX7s / 70, 150 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70 W Halogen: 1 x Plusline Small / R7s / 150, 200, 300 W
Lamp included	Yes (K or light colour 728, 830 or 942) No
Mains voltage	240 V
Gear and compensation (integrated)	Electromagnetic (low loss), 240 V / 50 Hz
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB) Asymmetrical axis angle 45° (A45) Asymmetrical axis angle 60° (A60) CosmoPolis open optic R60 (OC) Faceted open T-POT, small (TP-S)
Ignitor	Series (SI) Semi-parallel, self-stopping (ST) Semi-parallel (SP)
Options	Other voltages or versions without gear
Materials and finishing	Housing, front frame and rear cover: high-pressure die-cast aluminium Glass: toughened, 4 mm thick Gaskets: silicone rubber Mounting bracket: paint-coated aluminium End caps: polypropylene, UV-stabilised Reflectors: high-grade anodised aluminium
Colour	Housing and bracket: dark grey (GR), RAL 10714 End caps: light grey Other RAL colours available on request
Installation	Ceiling, wall or floor mounting, optional pole mounting Front access for mains connection, cable entry via M20 cable gland (2 cable glands for through-wiring facilities) Protractor scale integrated Ambient temperature outdoor: 35°C Drag factor (Cx): 1.26 Projected area in horizontal position: 0.10 m^2 Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -90 to +90°
Maintenance	Hinged front window with quick-release fastener No internal cleaning required
Accessories	Solgel and glass filters in various colours, refractive glass plates, louvres, protection grid, barndoors, glass support
Remarks	'Memory ring' integrated for immediate re-aiming if the floodlight should be swivelled off-beam Tilt angle 5° minimum when installed post-top
Main applications	Parks, pathways, architectural floodlighting, bridges, structures, sculptures

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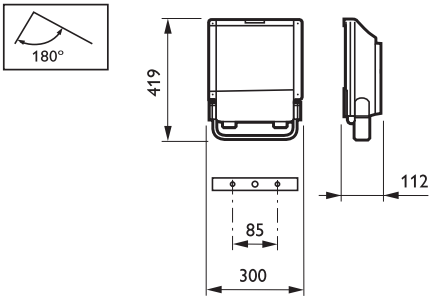


MVF616

Decoflood MVF616 flood lighting luminaire with narrow beam (NB), medium beam (MB) or wide beam (WB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF616 CDM-TD70W/830 K 240V I NB GR SP	5.66	849799 00
MVF616 CDM-TD70W/830 K 240V I MB GR SP	5.66	677347 00
MVF616 CDM-TD70W/830 K 240V I WB GR SP	5.66	677354 00
MVF616 CDM-TD150W/830 K 240V I NB GR SP	6.41	849805 00
MVF616 CDM-TD150W/830 K 240V I MB GR SP	6.41	677361 00
MVF616 CDM-TD150W/830 K 240V I WB GR SP	6.41	677378 00
MVF616 SON-T70W K 240V I NB GR SP	5.81	677262 00
MVF616 SON-T70W K 240V I MB GR SP	5.81	849751 00
MVF616 SON-T70W K 240V I WB GR SP	5.81	677279 00
MVF616 SON-T100W K 240V I NB GR SP	5.91	677507 00
MVF616 SON-T100W K 240V I MB GR SP	5.91	849768 00
MVF616 SON-T100W K 240V I WB GR SP	5.91	677460 00
MVF616 SON-T150W K 240V I NB GR SP	6.48	677286 00
MVF616 SON-T150W K 240V I MB GR SP	6.48	849775 00
MVF616 SON-T150W K 240V I WB GR SP	6.48	677293 00
MVF616 SDW-T100W 240V I NB GR	6.11	280493 00
MVF616 SDW-T100W 240V I MB GR	6.11	280509 00
MVF616 SDW-T100W 240V I WB GR	6.11	280516 00
MVF616 MHN-TD70W K 240V I NB GR SP	5.66	677309 00
MVF616 MHN-TD70W K 240V I MB GR SP	5.66	849812 00
MVF616 MHN-TD70W K 240V I WB GR SP	5.66	677316 00
MVF616 MHN-TD150W K 240V I NB GR SP	6.41	677323 00
MVF616 MHN-TD150W K 240V I MB GR SP	6.41	849829 00
MVF616 MHN-TD150W K 240V I WB GR SP	6.41	677330 00

Please contact your local Philips representative for additional configurations

Decoflood MVF616 flood lighting luminaire with façade lighting A45 reflector (A45), max at 45°

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF616 CDM-TD70W/830 K 240V I A45 GR SP	5.66	677422 00
MVF616 CDM-TD150W/830 K 240V I A45 GR SP	6.41	677446 00
MVF616 SON-T70W K 240V I A45 GR SP	5.81	677385 00
MVF616 SON-T100W K 240V I A45 GR SP	5.91	677408 00
MVF616 SON-T150W K 240V I A45 GR SP	6.48	677415 00

Please contact your local Philips representative for additional configurations

Decoflood MVF616 flood lighting luminaire with area lighting A60 reflector (A60), max at 60°. Mast height up to 6 m.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF616 CDM-TD70W/830 K 240V I A60 GR SP	5.66	677439 00
MVF616 CDM-TD150W/830 K 240V I A60 GR SP	6.41	677453 00
MVF616 SON-T70W K 240V I A60 GR SP	5.81	677392 00

Please contact your local Philips representative for additional configurations

Decoflood MVF616 flood lighting luminaire with street lighting reflector (TP-S)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF616 CDM-T70W/830 K 240V ITP-S GR SP	6.40	849782 00

Please contact your local Philips representative for additional configurations

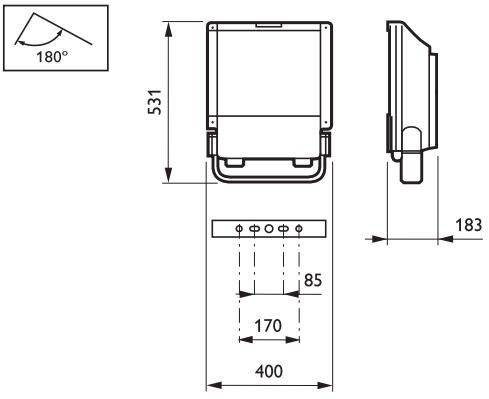
Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZVF616 GLS	Glass support	1.80	234359 00
ZVF616 PG	Protection grid	2.00	234373 00
ZVF616 HL	Horizontal louvre	2.20	234397 00
ZVF616 VL	Vertical louvre	2.20	234380 00
ZVF616 BD	Barndoors	2.00	234366 00
ZVF616 SGF-BL	Blue Solgel filter	1.00	477251 00
ZVF616 SGF-GN	Green Solgel filter	1.00	477268 00
ZVF616 SGF-YE	Yellow Solgel filter	1.00	477282 00
ZVF616 SGF-MG	Magenta Solgel filter	1.00	502329 00
ZVF616 SGF-LBL	Light blue Solgel filter	1.00	502312 00
ZVF616 BSO	Grained glass	1.00	234298 00
ZVF616 BSP	Diamond point glass	1.00	234328 00
ZVF616 BESP	Fine ridged glass	1.00	234342 00
ZVF616 SGF-WAF2	Warmer filter	1.00	477305 00
ZVF616 SGF-COF2	Coolere filter	1.00	477299 00

Palazzo Vecchio, Florence, Italy
Lighting design: Lorella Primavera, Marco Dipilato

	Decoflood
Type	MVF617
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70, 100, 150 W 1 x SON-T / E27 / 70, 100, 150, 250, 400 W 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x MHN-TD / RX7s / 250 W 1 X MASTERColour CDM-T / G12 / 150 W
Lamp included	Yes (K or light colour 728, 828, 830 or 942) No
Mains voltage	240 V
Gear and compensation (integrated)	Electromagnetic (low loss), 240 V / 50 Hz
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB) CosmoPolis optic (OC) Open CT-POT (OR) for CosmoPolis, CDO and Son lamps
Ignitor	Series (SI) Semi-parallel, self-stopping (ST) Semi-parallel (SP)
Options	Other voltages or versions without gear
Materials and finishing	Housing, front frame and rear cover: high-pressure die-cast aluminium Glass: toughened, 4 mm thick Gaskets: silicone rubber Mounting bracket: paint-coated aluminium End caps: polypropylene, UV-stabilised Reflectors: high-grade anodised aluminium
Colour	Housing and bracket: dark grey (GR) RAL 10714 End caps: light grey Other RAL colours available on request
Installation	Ceiling, wall or floor mounting, optional pole mounting Front access for mains connection, cable entry via M20 cable gland (2 cable glands for through-wiring facilities) Protractor scale integrated Ambient temperature outdoor: 35°C Drag factor (Cx): 1.26 Projected area in horizontal position: 0.10 m^2 Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -90 to +90°
Maintenance	Hinged front window with quick-release fastener No internal cleaning required
Accessories	Solgel and glass filters in various colours, refractive glass plates, louvres, protection grid, barndoors, glass support
Remarks	'Memory ring' integrated for immediate re-aiming if the floodlight should be swivelled off-beam Tilt angle 5° minimum when installed post-top
Main applications	Parks, pathways, architectural floodlighting, bridges, structures, sculptures

IP 65 IK 08



MVF617

Decoflood MVF617 flood lighting luminaire with narrow beam (NB), medium beam (MB) or wide beam (WB)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF617 HPI-TP250W K 240V I NB GR SP	10.56	677514 00
MVF617 HPI-TP250W K 240V I MB GR SP	10.56	849881 00
MVF617 HPI-TP250W K 240V I WB GR SP	10.56	677217 00
MVF617 HPI-TP400W K 240V I NB GR SP	11.66	677224 00
MVF617 HPI-TP400W K 240V I MB GR SP	11.66	849898 00
MVF617 HPI-TP400W K 240V I WB GR SP	11.66	677231 00
MVF617 SON-T250W K 240V I MB GR SP	11.61	849867 00
MVF617 SON-T250W K 240V I WB GR SP	11.61	677187 00
MVF617 SON-T400W K 240V I NB GR SP	13.37	677194 00
MVF617 SON-T400W K 240V I MB GR SP	13.37	849874 00
MVF617 SON-T400W K 240V I WB GR SP	13.37	677200 00
MVF617 MHN-TD250W K 240V I NB GR SP	11.61	677248 00
MVF617 MHN-TD250W K 240V I MB GR SP	11.61	849904 00
MVF617 MHN-TD250W K 240V I WB GR SP	11.61	677255 00

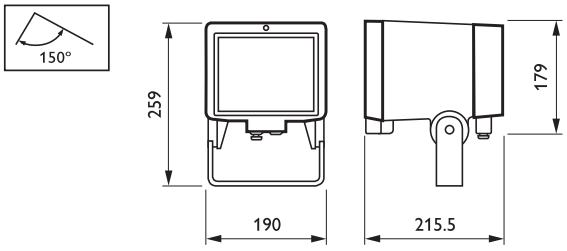
Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZVF617 GLS	Glass support	1.50	234014 00
ZVF617 PG	Protection grid	1.50	233994 00
ZVF617 HL	Horizontal louvre	2.30	234052 00
ZVF617 VL	Vertical louvre	2.30	234069 00
ZVF617 BD	Barndoors	2.50	234007 00
ZVF617 SGF-BL	Blue Softgel filter	1.50	477190 00
ZVF617 SGF-GN	Green Softgel filter	1.50	477206 00
ZVF617 SGF-YE	Yellow Softgel filter	1.50	477220 00
ZVF617 SGF-MG	Magenta Softgel filter	1.50	502343 00
ZVF617 SGF-LBL	Light blue Softgel filter	1.50	502336 00
ZVF617 BSO	Grained glass	1.50	233932 00
ZVF617 BSP	Diamond point glass	1.00	236490 00
ZVF617 BESP	Fine ridged glass	1.00	236483 00
ZVF617 SGF-WAF2	Warmer filter	1.50	477244 00
ZVF617 SGF-COF2	Coolder filter	1.50	477237 00

	Decoflood
Type	MVF619
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W
Lamp included	Yes (light colour 830 or 942) No
Gear and compensation (integrated)	Electromagnetic (low loss), 240 V / 50 Hz: Conventional Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB) Symmetrical (S) Asymmetrical (A)
Ignitor	Digital serial (SUD) Semi-parallel, digital (SND)
Materials and finishing	Housing: high-pressure die-cast aluminium Glass: tempered, 4 mm thick Gaskets: silicone rubber Mounting bracket: paint-coated aluminium Reflectors: high-grade anodised aluminium
Colour	Dark grey (GR), RAL 10714 or ivory white, RAL1015 Other RAL colours available on request
Installation	Ceiling, wall or floor mounting Front access for mains connection, cable entry via M20 cable glands (2 cable glands for through-wiring facilities) Protractor scale integrated Ambient temperature outdoor: 35°C SCx: 0.035 m^2 Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -90 to +60°
Maintenance	Hinged front window with one Allen screw No internal cleaning required
Accessories	Solgel filters in various colours, diamond point glasses, fine ridged glasses, louvres
Remarks	If accessories are included in the luminaire package, the letter Z is included in the product designation
Main applications	Parks, pathways, architectural floodlighting, bridges, structures, sculptures

IP66 IK08



MVF619

Decoflood MVF619 flood lighting luminaire with narrow (NB), medium (MB), wide (WB), symmetrical (S) or assymmetrical (A) beam

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF619 CDM-T35W/830 240V I NB GR SND	4.96	505955 00
MVF619 CDM-T35W/830 240V I MB GR SND	4.97	505962 00
MVF619 CDM-T35W/830 240V I WB GR SND	4.97	505979 00
MVF619 CDM-T70W/830 240V I NB GR SND	5.56	505986 00
MVF619 CDM-T70W/830 240V I MB GR SND	5.56	505993 00
MVF619 CDM-T70W/830 240V I WB GR SND	5.56	506006 00
MVF619 CDM-TD70W/830 240V I S GR SND	5.56	506020 00
MVF619 CDM-TD70W/830 240V I A GR SND	5.56	506013 00
MVF619 CDM-T150W/830 240V I NB GR SND	6.30	506037 00
MVF619 CDM-T150W/830 240V I MB GR SND	6.30	506044 00
MVF619 CDM-T150W/830 240V I WB GR SND	6.30	506051 00
MVF619 CDM-TD150W/830 240V I S GR SND	6.30	506075 00
MVF619 CDM-TD150W/830 240V I A GR SND	6.30	506068 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZVF619 RL GR	Round louvre	0.11	506082 00
ZVF619 HL GR	Horizontal louvre	0.22	506099 00
ZVF619 F-RD GR	Red filter	0.65	608069 00
ZVF619 SGF-BL GR	Blue Solgel filter	0.65	608014 00
ZVF619 SGF-GN GR	Green Solgel filter	0.65	608021 00
ZVF619 SGF-YE GR	Yellow Solgel filter	0.65	608038 00
ZVF619 SGF-MG GR	Magenta Solgel filter	0.65	608052 00
ZVF619 SGF-LBL GR	Light blue Solgel filter	0.65	608045 00
ZVF619 HBSP GR	Horizontal beam spreader	0.65	506174 00
ZVF619 VBSP GR	Vertical beam spreader	0.65	506167 00
ZVF619 HLBSP GR	Horizontal linear beam spreader glass	0.65	506198 00
ZVF619 VLBSP GR	Vertical linear beam spreader glass	0.65	506181 00
ZVF619 WAF1 GR	Warmer filter 3000 to 2300K	0.65	506105 00
ZVF619 WAF2 GR	Warmer filter 3000 to 2500K	0.65	506112 00
ZVF619 WAF3 GR	Warmer filter 3000 to 2700K	0.65	506129 00
ZVF619 COF2 GR	Cooler filter 3000 to 3800K	0.65	506136 00
ZVF619 COF3 GR	Cooler filter 3000 to 3500K	0.65	506143 00
ZVF619 COF4 GR	Cooler filter 3000 to 3300K	0.65	506150 00

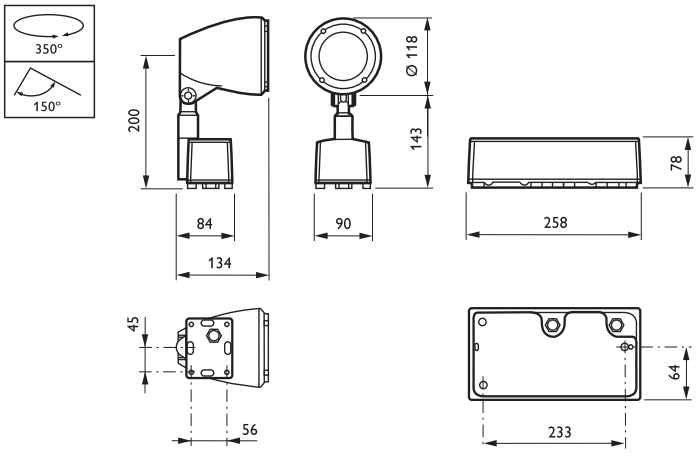
Brandenburg Gate, Germany

	Mini Decoflood
Type	DWP603 (with or without remote gear box) DWP604 (with gear included)
Light source	HID: 1 x MASTERColour CDM-R / E27 / 35 W Halogen: 1 x or 2 x MASTERLine ES / GU5.3 / 45 W 1 x MASTER PAR20 E / E27 / 20 W (only for DWP603 version)
Lamp included	No
Mains voltage	240 V
Gear	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 230 - 240 V / 50 - 60 Hz: Electronic (EB)
Transformer	Electronic (ET)
Options	Extension arm of 350 mm length (HMA) Safety classes: Class I, Class II, and Class III (for DWP603 version) Dimming possibility for halogen lamp versions
Materials and finishing	Housings: die-cast high-pressure aluminium Glass: toughened, 6 mm thick Gasket: silicone rubber Screws: stainless steel Extension arm: extruded aluminium Glare shield (accessory): die-cast aluminium

Colour	Dark grey (GR), RAL 10714 Other RAL colours available on request
Installation	Floor mounting by the integrated gear box (DWP604 version) or base plate (BA) and separate gear box (DWP603 version) Two cable glands for through-wiring facility Angle indicator with marking integrated Ambient temperature outdoor: 35°C, 25°C for MASTER PAR20 E lamp version Drag factor (Cx): n/a Max adjustment from the horizontal: 350° Max vertical aiming: -90 to +60°
Maintenance	Lamp access by opening the front glass No internal cleaning required
Accessoies	Solgel filters in various colours, glare shields with and without colour filters, vertical louvre
Remarks	Compliant with IEC 598 and EN 60598
Main applications	Modern and classic buildings, architectural flood lighting, sculptures

for CDM-R and MASTER PAR20-E lamps for halogen dichroic lamps
for compact model with halogen lamps IP 65 IK 07

Mini Decoflood DWP603 flood lighting luminaire suitable for CDM-R20 lamp



DWP603 1x CDM-R20

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP603 CDM-R20-35W 240V I GR	4.00	152967 00

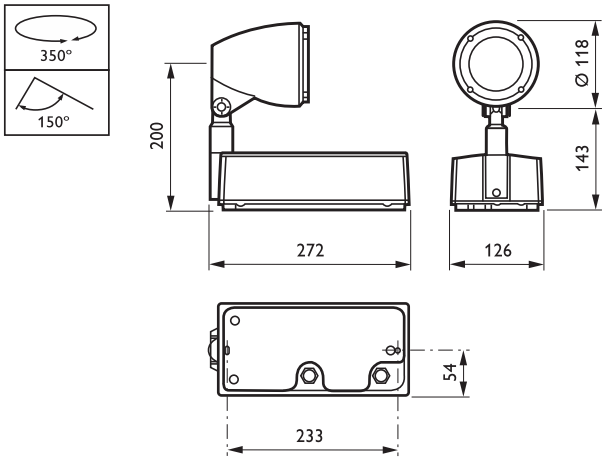
Please contact your local Philips representative for additional configurations

Mini Decoflood DWP604 flood lighting luminaire suitable for CDM-R20 lamp

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP604 CDM-R20-35W EB 230-240V GR	3.00	152899 00
DWP604 CDM-R20-35W 240V GR	3.70	152882 00

Please contact your local Philips representative for additional configurations



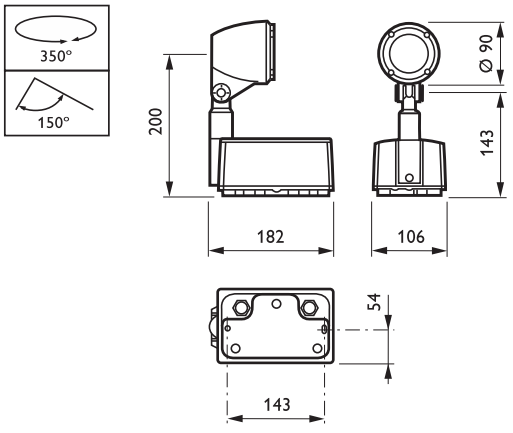
DWP604 1x CDM-R20

Mini Decoflood DWP604 flood lighting luminaire suitable for Dichroic halogen lamp (HAL-MR50)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP604 HAL-MR50-45W ET 230-240V II GR	2.00	152837 00
DWP604 HAL-MR50-45W ET 230-240V HMA II	2.30	545295 00

Please contact your local Philips representative for additional configurations



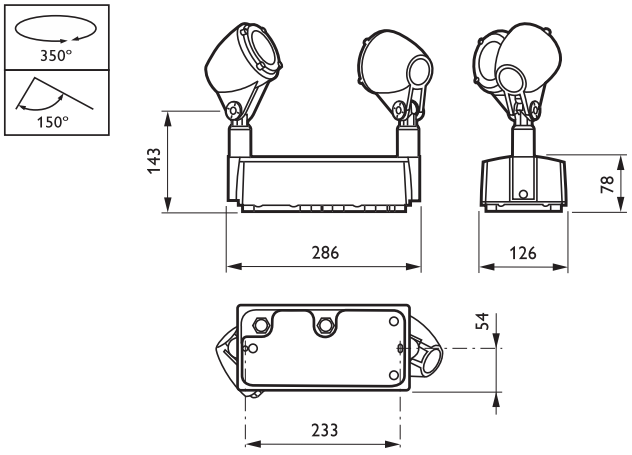
DWP604 1x HAL-MR50

Mini Decoflood DWP604 flood lighting luminaire suitable for two Dichroic halogen lamps (HAL-MR50)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP604 2xHAL-MR50-45W ET 230-240V II GR	3.30	152851 00

Please contact your local Philips representative for additional configurations



DWP604 2x HAL-MR50

Accessories

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZWP600 GS-D118 GR	Glare shield, 118mm dia	0.23	544922 00
ZWP600 GS-VL-D118 GR	Vertical louvre, 118mm dia	0.25	545127 00
ZWP600 GS-F-RD-D118 GR	Red filter, 118mm dia	0.25	544960 00
ZWP600 SGF-MG GS D118 GR	Magenta Solgel filter, 118mm dia	0.29	477435 00
ZWP600 SGF-YE GS D118 GR	Yellow Solgel filter, 118mm dia	0.29	477428 00
ZWP600 SGF-GN GS D118 GR	Green Solgel filter, 118mm dia	0.29	477404 00
ZWP600 SGF-LBL GS D118 GR	Light blue Solgel filter, 118mm dia	0.29	477442 00
ZWP600 SGF-BL GS D118 GR	Blue Solgel filter, 118mm dia	0.29	477398 00
ZWP600 SGF-WAF2 GS D118 GR	Warmer Solgel filter, 118mm dia	0.29	477466 00
ZWP600 SGF-COF2 GS D118 GR	Cooler Solgel filter, 118mm dia	0.29	477459 00
ZWP600 GS-D90 GR	Glare shield, 90mm dia	0.14	544908 00
ZWP600 GS-F-RD-D90 GR	Vertical louvre, 90mm dia	0.24	544977 00
ZWP600 SGF-MG GS D90 GR	Magenta Solgel filter, 90mm dia	0.15	477350 00
ZWP600 SGF-YE GS D90 GR	Yellow Solgel filter, 90mm dia	0.15	477343 00
ZWP600 SGF-GN GS D90 GR	Green Solgel filter, 90mm dia	0.15	477329 00
ZWP600 SGF-LBL GS D90 GR	Light blue Solgel filter, 90mm dia	0.15	477367 00
ZWP600 SGF-BL GS D90 GR	Blue Solgel filter, 90mm dia	0.15	477312 00
ZWP600 SGF-WAF2 GS D90 GR	Warmer Solgel filter, 90mm dia	0.15	477381 00
ZWP600 SGF-COF2 GS D90 GR	Cooler Solgel filter, 90mm dia	0.15	477374 00

Colour filters to bring a touch of colour to the projected light

Mini Decoflood DWP603/604 flood lighting luminaire with glare shield, colour filter (yellow) and two vertical strips

DecoScene

DecoScene – bringing the night scene to life

DecoScene is a ground recessed uplighter for enhancing, highlighting or even revealing the architecture of the city at night. An unobtrusive presence by day, DecoScene offers a wide choice of light sources, beams, adjustment possibilities and accessories to deliver the optimum upward lighting effect after dark, e.g. to illuminate monuments, highlight a striking piece of architecture or mark out a luminous path through a park or garden.

The DecoScene range, comprising three conventional versions (DBP521, DBP522 and DBP523) and one LED version (BBP521), complies with the IEC 60598-2-13 norm and offers a glass temperature below 80°C. A wide choice of accessories is available, e.g. for enhanced guidance.

The small DecoScene is designed around the compact high performance MASTERColour CDM-Tm Mini 20/35 W lamp. Together with the integrated PrimaVision mini-gear, it offers a unique combination of miniature size, excellent light quality and energy efficiency. The small DecoScene also incorporates dichroic halogen lamps, which offer ideal colour rendering, and a PL-T lamp for marking a path.

The DecoScene LED Guidance offers a choice of saturated colours with an attractive, uniform light effect, as well as the option of dynamic guidance, for instance to highlight parking places. Available in white, blue, amber, green, red and RGB, the low-power LED modules can easily be exchanged to extend the lifetime of the luminaire.

www.philips.co.uk/lighting

DecoScene DBP521 ground recessed luminaire

DecoScene DBP522 ground recessed luminaire

DecoScene DBP523 ground recessed luminaire

asimpleswitch.com

A wide choice of optics

The DecoScene housing is made up of four main parts: the ground housing, the luminaire housing, the protective glass and the top fixing element.

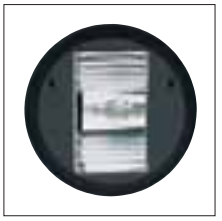
In the luminaire housing the anodised aluminium reflector offers a large choice of different beams: circular narrow, medium or wide beams for accent lighting and rectangular symmetrical and asymmetrical beams for uniform illumination of facades.

The optic can be adjusted up to 20° for circular beams and up to 10° for rectangular beams with 100% of the beam being utilised. The optic is locked after adjustment and does not need to be unlocked during relamping.

Beam angles

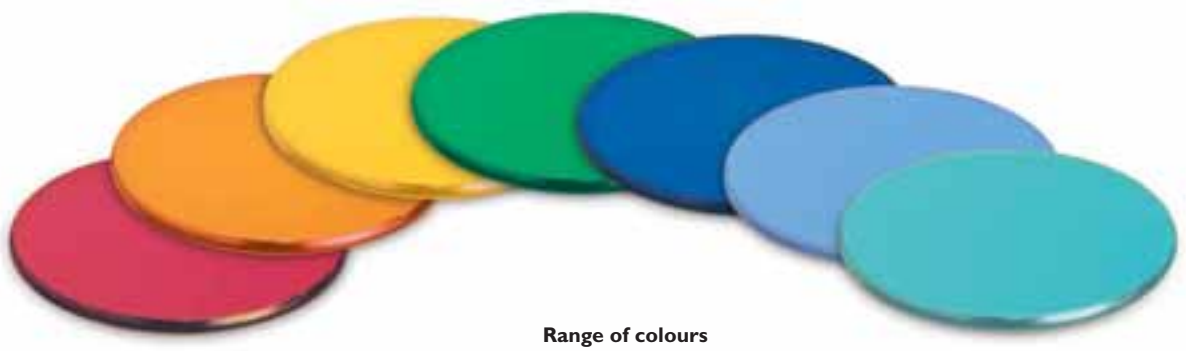
Circular beams

Rectangular beams

Narrow beam	Medium beam	Wide beam	Rectangular symmetrical beam	Rectangular asymmetrical beam
				
2x3°	2x9°	2x14°	8° / 2x39°	-15°, +9° / 2x37°

Colour your light

DecoScene integrates the innovative SolGel colour filters, which are available in different colours. SolGel filters are a highly cost-effective means of creating attractive colour effects on illuminated facades or objects and creating grazing light free of unwanted colour variations.
Six standard colours and six warm and cool filters are available.



Range of colours

Glass effects

Clear glass

Frosted glass

Frosted inside for softening the beam and creating diffuse and uniform light.

Half moon frosted glass

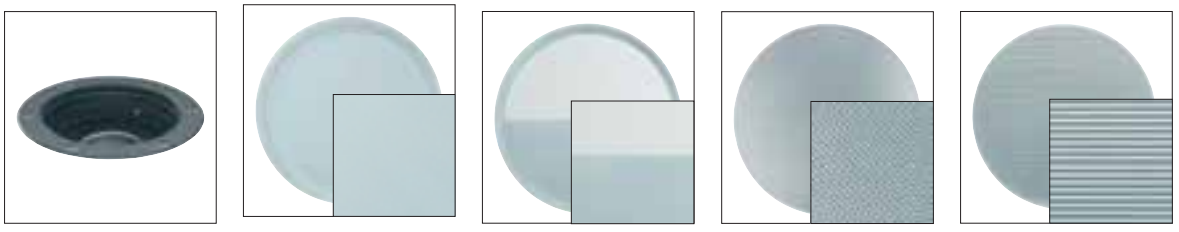
Partially frosted inside to soften the edges of the beams against the wall and to give a nice horizontal cut-off at the bottom. The frosted part of the glass faces the facade.

Honeycomb glass

Multidirectional beam softener. The glass creates a diffuse and uniform light.

Fine-ridged glass

Unidirectional beam spreader. The fine-ridged glass aimed towards the facade spreads the beam vertically.

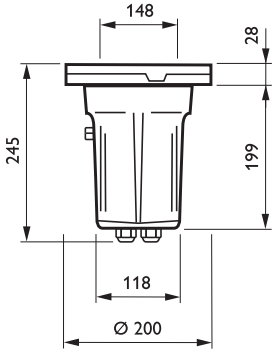


	DecoScene
Type	DBP521
Light source	HID: 1 x MASTERLine ES / GU5.3 / 20, 30, 35, 45 W 1 x MASTERColour CDM-Tm Mini / PGJ5 / 20, 35 W Compact fluorescent: 1 x MASTER PL-T 2 Pin / GX24d-2 / 18 W
Lamp included	Yes (light colour 830 or 930) No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Narrow (NB), medium (MB), wide (WB), symmetrical (S) and asymmetrical (A) beams
Options	Fuse (F) integrated
Materials and finishing	Housing: die-cast aluminium Glass: tempered, 15 mm thick Gasket: silicon Optics: anodised aluminium Installation tube: PVC Screws: stainless steel
Colour	Dark grey (GR), RAL 10714 Other RAL colours are available on request

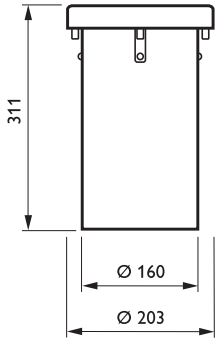
Installation	In recessing box delivered with the luminaire Two M20 cable glands for through wiring facility Delivered with mains supply cable of 2 m Ambient temperature outdoor: 25°C (indoor: 15°C for CDM-Tm 35 W version) Static load: 4000 kg
Maintenance	Lamp access by opening the front glass No internal cleaning required
Accessories	Frosted glass (GF), half-moon frosted glass (HMG-FR), honeycomb glass (BSO), fine ridged glass (LBSP), Sol Gel filters in various colours, antislip glass (GC-AS), round or horizontal louvres (HRL, RL, HL, MK), shallow glass bowl (GB), radial shields (GS1, GS4), square tile (SV), stainless-steel decorative ring (DR), anti-vandal screws (SVP), recessing box (RMR)
Remarks	If accessories are included in the luminaire package, the letter Z is included in the product designation
Main applications	Architectural floodlighting, parks, squares, residential and shopping areas, indoor applications

IP 67 IK 10

CE



DBP521



DBP521

Recessed mounting box (ZBP521 RMR), standard delivered with DecoScene DBP521 and BBP521

DecoScene DBP521 ground recessed luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DBP521 CDM-Tm20W/830 EB I NB GR Z	4.60	727134 00
DBP521 CDM-Tm20W/830 EB I MB GR Z	4.60	727141 00
DBP521 CDM-Tm20W/830 EB I WB GR Z	4.60	727158 00
DBP521 CDM-Tm20W/830 EB I S GR Z	4.60	727165 00
DBP521 CDM-Tm20W/830 EB I A GR Z	4.60	727172 00
DBP521 CDM-Tm35W/930 EB I NB GR Z	4.60	727189 00
DBP521 CDM-Tm35W/930 EB I MB GR Z	4.60	727196 00
DBP521 CDM-Tm35W/930 EB I WB GR Z	4.60	727202 00
DBP521 CDM-Tm35W/930 EB I S GR Z	4.60	727219 00
DBP521 CDM-Tm35W/930 EB I A GR Z	4.60	727226 00
DBP521 HAL-MR50 240V I GR Z	5.25	727622 00
DBP521 PL-T/2P18W 240V I GR Z	4.65	727639 00
DBP521 PL-T/2P18W 240V I GR Z	4.65	727646 00

Please contact your local Philips representative for additional configurations

Cernay, France

	DecoScene
Type	BBP521
Light source	12 x SMD LED-LP
Light colour	Mono-colour: white (WH), blue (BL), amber (AM), red (RD), green (GN) Tri-colour: red, green, blue (RGB)
Power consumption	Max 5 W
Power/data supply	Integrated
Driver	220-240 V AC / 50-60 Hz
Optical cover	Clear glass with internal diffuser (GC) Shallow glass bowl with internal diffuser (GB)
Cable gland	2 x M20 (mono-colour version) 2 x M20 and 2 x M12 (tri-colour version)
Controls	The RGB version is compatible with full line of Philips DMX controllers

Materials and finishing	Housing: die-cast aluminium Front glass: tempered glass, 15 mm Gasket: silicon Installation tube: PVC Screws: stainless steel
Colour	Philips dark grey 10714 (GR) Other RAL colours available on request
Installation	In recessing box (RMR) Operating temperature: - 20°C < T_a < 25°C
Lifetime	50,000 hours (70% maintenance at T_a = 25°C)
Accessories	Square tile (SV), stainless steel decorative ring (DR), anti-vandal screws (SVP), recessing box (RMB), radial shields (GS1, GS4)
Main applications	Guidance in private or urban areas, gardens, footpaths

IP 67 850°C IK 10

CE

DecoScene BBP521 ground recessed luminaire, white LED

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP521 LED-LP/WH I GC GR RMR	4.65	294903 00
BBP521 LED-LP/WH I GB GR RMR	4.65	294965 00

Please contact your local Philips representative for additional configurations

DecoScene BBP521 ground recessed luminaire, red LED

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP521 LED-LP/RD I GC GR RMR	4.65	294941 00
BBP521 LED-LP/RD I GB GR RMR	4.65	295009 00

Please contact your local Philips representative for additional configurations

DecoScene BBP521 ground recessed luminaire, green LED

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP521 LED-LP/GN I GC GR RMR	4.65	294910 00
BBP521 LED-LP/GN I GB GR RMR	4.65	294972 00

Please contact your local Philips representative for additional configurations

DecoScene BBP521 ground recessed luminaire, amber LED

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP521 LED-LP/AM I GC GR RMR	4.65	294934 00
BBP521 LED-LP/AM I GB GR RMR	4.65	294996 00

Please contact your local Philips representative for additional configurations

DecoScene BBP521 ground recessed luminaire, blue LED

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBP521 LED-LP/BL I GC GR RMR	4.65	294927 00
BBP521 LED-LP/BL I GB GR RMR	4.65	294989 00

Please contact your local Philips representative for additional configurations

DecoScene BBP521 ground recessed luminaire, RGB LED

Preferred selection

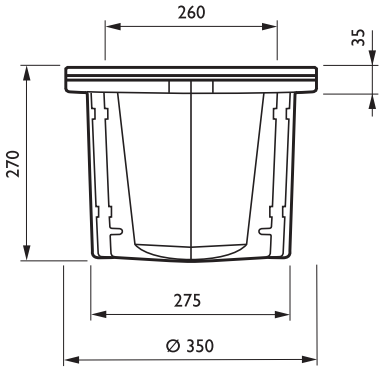
Product ID	Weight (kg)	European Order Code (EOC)
BBP521 LED-MD/RGB I GC GR RMR	4.65	294897 00
BBP521 LED-MD/RGB I GB GR RMR	4.65	294958 00

Please contact your local Philips representative for additional configurations

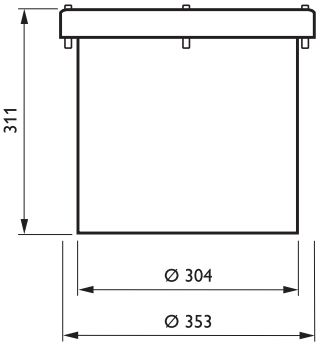
	DecoScene
Type	DBP522
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70 W 1 x MASTERColour CDM-TD / RX7s / 70 W
Lamp included	Yes (light colour 830 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Narrow (NB), medium (MB), wide (WB), symmetrical (S) and asymmetrical (A) beams
Options	Heat-resistant glass, cool glass (HPG)
Materials and finishing	Housing: die-cast aluminium Glass: tempered, 19 mm thick Gasket: silicon Optics: anodised aluminium Installation tube: metal Screws: stainless steel
Colour	Dark grey (GR), RAL 10714

Installation	In recessing box delivered with the luminaire One M20 cable gland Delivered with mains supply cable of 2 m Ambient temperature outdoor: 25°C (25°C indoor) Static load: 5000 kg
Maintenance	Lamp access by opening the front glass No internal cleaning required
Accessories	Frosted glass (GF), half-moon frosted glass (HMG-FR), honeycomb glass (BSO), fine ridged glass (LBSP), Sol Gel filters in various colours, antislip glass (GC-AS), round or horizontal louvres (HRL, RL, HL, MK), square tile (SV), stainless-steel decorative ring (DR), anti-vandal screws (SVP), recessing box (RMR)
Remarks	If accessories are included in the luminaire package, the letter Z is included in the product designation
Main applications	Architectural floodlighting, parks, squares, residential and shopping areas, indoor applications

IP67 IK10



DBP522



DBP522

Recessed mounting box (ZBP522 RMR), standard delivered with DecoScene DBP522

DecoScene DBP522 ground recessed luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DBP522 CDM-T35W/830 EB I NB GR	15.06	727769 00
DBP522 CDM-T35W/830 EB I MB GR	15.06	727776 00
DBP522 CDM-T35W/830 EB I WB GR	15.06	727783 00
DBP522 CDM-T35W/830 EB I S GR	15.06	727790 00
DBP522 CDM-T35W/830 EB I A GR	15.06	727806 00
DBP522 CDM-T70W/830 EB I NB GR	15.06	727875 00
DBP522 CDM-T70W/830 EB I MB GR	15.06	727882 00
DBP522 CDM-T70W/830 EB I WB GR	15.06	727899 00
DBP522 CDM-TD70W/830 EB I S GR	15.06	727974 00
DBP522 CDM-TD70W/830 EB I A GR	15.06	727981 00

Please contact your local Philips representative for additional configurations

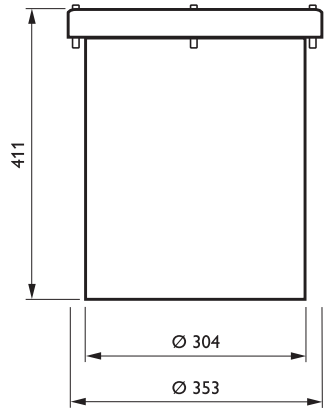
Abbey, Léhon, France

	DecoScene
Type	DBP523
Light source	HID: 1 x MASTERColour CDM-T / G12 / 35, 70, 150 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTER SDW-TG Mini / GX12-1 / 50, 100 W
Lamp included	Yes (K or light colour 830 or 942)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Narrow (NB), medium (MB), wide (WB), symmetrical (S) and asymmetrical (A) beams
Options	Heat-resistant glass, cool glass (HPG) Fuse (F) included
Materials and finishing	Housing: die-cast aluminium Glass: tempered, 19 mm thick Gasket: silicon Optics: anodised aluminium Installation tube: metal Screws: stainless steel

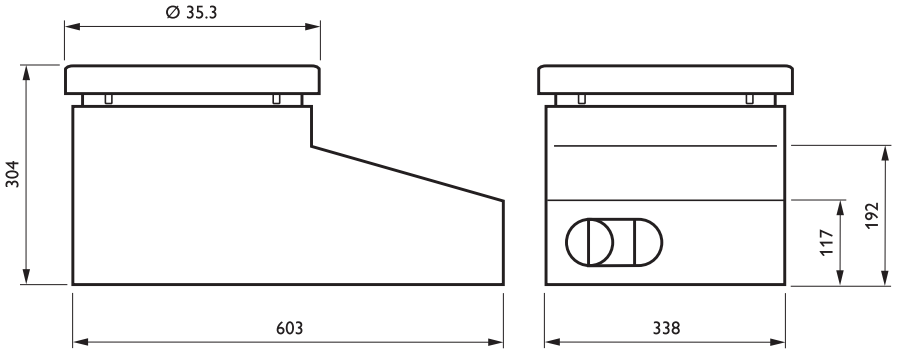
Colour	Dark grey (GR), RAL 10714
Installation	In recessing box delivered with the luminaire Two M20 cable glands for through-wiring facility Ambient temperature outdoor: 25°C (25°C indoor) Static load: 5000 kg
Maintenance	Lamp access by opening the front glass No internal cleaning required
Accessories	Frosted glass (GF), half-moon frosted glass (HMG-FR), honeycomb glass (BSO), fine ridged glass (LBSP), Sol Gel filters in various colours, antislip glass (GC-AS), round or horizontal louvres (HRL, RL, HL, MK), square tile (SV), stainless-steel decorative ring (DR), anti-vandal screws (SVP), recessing box (RMR), recessing box L-shape (RMLR)
Remarks	If accessories are included in the luminaire package, the letter Z is included in the product designation
Main applications	Architectural floodlighting, parks, squares, residential and shopping areas, indoor applications

IP 67 IK 10

CE



ZBP523 RMR

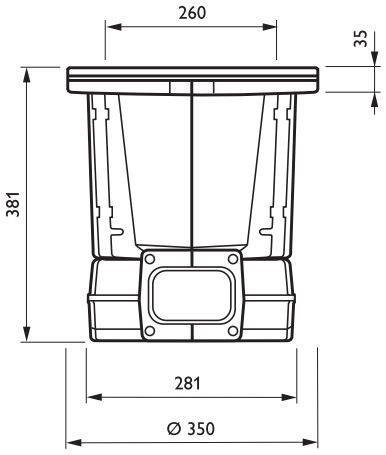


ZBP523 RMRL

Recessed mounting box (ZBP523 RMR), standard delivered with DecoScnene DBP523

Recessed mounting box, L-shaped (ZBP523 RMRL)

Decoscene DBP523 ground recessed luminaire



DBP523

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DBP523 CDM-T35W/830 EB I NB GR	18.11	728186 00
DBP523 CDM-T35W/830 EB I MB GR	18.11	728193 00
DBP523 CDM-T35W/830 EB I WB GR	18.11	728209 00
DBP523 CDM-T35W/830 EB I S GR	18.11	728216 00
DBP523 CDM-T35W/830 EB I A GR	18.11	728223 00
DBP523 CDM-T70W/830 EB I NB GR	18.16	728360 00
DBP523 CDM-T70W/830 EB I MB GR	18.16	728377 00
DBP523 CDM-T70W/830 EB I WB GR	18.16	728384 00
DBP523 CDM-TD70W/830 EB I A GR	18.16	728513 00
DBP523 CDM-TD70W/830 EB I A GR	18.16	728537 00
DBP523 CDM-TD70W/830 EB I S GR	18.16	728506 00
DBP523 CDM-T150W/830 EB I WB GR	18.66	728636 00
DBP523 CDM-T150W/830 EB I NB GR	18.66	728612 00
DBP523 CDM-T150W/830 EB I MB GR	18.66	728629 00
DBP523 CDM-TD150W/830 EB I S GR	18.66	728759 00
DBP523 CDM-TD150W/830 EB I A GR	18.66	728766 00
DBP523 SDW-TG50W K EB I NB GR	18.26	728834 00
DBP523 SDW-TG50W K EB I MB GR	18.26	728841 00
DBP523 SDW-TG50W K EB I WB GR	18.26	728858 00
DBP523 SDW-TG50W K EB I S GR	18.26	728865 00
DBP523 SDW-TG50W K EB I A GR	18.26	728872 00
DBP523 SDW-TG100W K EB I NB GR	18.26	728889 00
DBP523 SDW-TG100W K EB I MB GR	18.26	728896 00
DBP523 SDW-TG100W K EB I WB GR	18.26	728902 00
DBP523 SDW-TG100W K EB I S GR	18.26	728919 00
DBP523 SDW-TG100W K EB I A GR	18.26	728926 00

Please contact your local Philips representative for additional configurations

Accessories

Horizontal louvre (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 HL	727547 00
ZBP523 HL	729138 00

Glare mask (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 MK	727554 00
ZBP523 MK	729145 00

Half moon louvre (for DBP523)

Product ID	EOC
ZBP521 HRL	727523 00
ZBP523 HRL	729114 00

Full moon louvre (for DBP523)

Product ID	EOC
ZBP523 RL	729121 00
ZBP521 RL	727530 00

Anti-slip glass (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 GC-AS	727592 00
ZBP523 GC-AS	729060 00

Shallow glass (only available for DBP521)

Product ID	EOC
ZBP521 GB	727608 00

Frosted glass (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 GF	727578 00
ZBP523 GF	729046 00

Partly frosted glass (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 HMG	727585 00

Honeycomb glass (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 BSO	727363 00
ZBP523 BSO	729091 00

Fine ridged glass (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 LBSP	727370 00
ZBP523 LBSP	729107 00

Colour filters, and warm and cool filters (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 SGF-BL	727424 00
ZBP521 SGF-GN	727400 00
ZBP521 SGF-YE	727394 00
ZBP521 SGF-MG	727431 00
ZBP521 SGF-LBL	727417 00
ZBP523 SGF-MG	729190 00
ZBP521 WAF1	727479 00
ZBP521 WAF2	727486 00
ZBP521 WAF3	727493 00
ZBP521 COF2	727448 00
ZBP521 COF3	727455 00
ZBP521 COF4	727462 00
ZBP523 SGF-BL	729152 00
ZBP523 SGF-BL	729176 00
ZBP523 SGF-GN	729169 00
ZBP523 SGF-LBL	729183 00
ZBP523 WAF1	729213 00
ZBP523 WAF2	729220 00
ZBP523 WAF3	729237 00
ZBP523 COF2	729244 00
ZBP523 COF3	729251 00
ZBP523 COF4	729268 00

Radial shield with 1 opening (only available for DBP521)

Product ID	EOC
ZBP521 GS1 GR	727509 00

Radial shield with 4 openings (only available for DBP521)

Product ID	EOC
ZBP521 GS4 GR	727516 00

Decorative ring (ZBP521 for DBP521 and ZBP523 for DBP522/523)

Product ID	EOC
ZBP521 DR	727356 00
ZBP523 DR	729084 00

Amazon

Amazon – a touch of ambience

Amazon is a ground-recessed floodlight for outdoor uplighting effects, e.g. for guidance along a garden pathway or to create a dramatic outdoor ambience. It comes with three colour filters (forest green, marine blue and natural white) and a refractor for appealing effects. The vandal-resistant TouchSafe cover means the diffuser can be touched without fear of burning your fingers. Thanks to its shallow recess depth, Amazon is particularly easy to install.

At the heart of the Amazon LED range of marker lights are top-quality diodes that deliver outstanding brightness. Amazon LED offers a choice of five different colours – yellow, red, blue, green and white (colour temperature 5600-6500 K) – to add a touch of ambience to a variety of settings.

www.philips.co.uk/lighting

	Amazon
Type	DBC270/271
Light source	DBC270 Halogen: 1 x HalogenA PAR20 / E27 / 40 W Compact fluorescent: 1 x PL-E / E27 / max 15 W DBC271 Halogen: 1 x Twistline Dichroic / GZ10 / max 50 W
Lamp included	No
Materials	Housing: technopolymer (PBT) Diffuser: polycarbonate Deco ring: stainless steel

Installation	Ground recessed Adequate drainage must be available to prevent a build-up of water around the luminaire Ambient temperature outdoor: 25°C
Static load	1000 kg
Remarks	Vandal resistant 'TouchSafe' polycarbonate cover Luminaires delivered as standard with three colour filters and a refractor
Main applications	Office, retail, hospitality Residential areas, parks, gardens, squares, pathways

IP 67 IK 10

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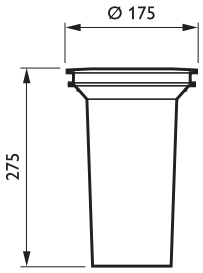


DBC270/271

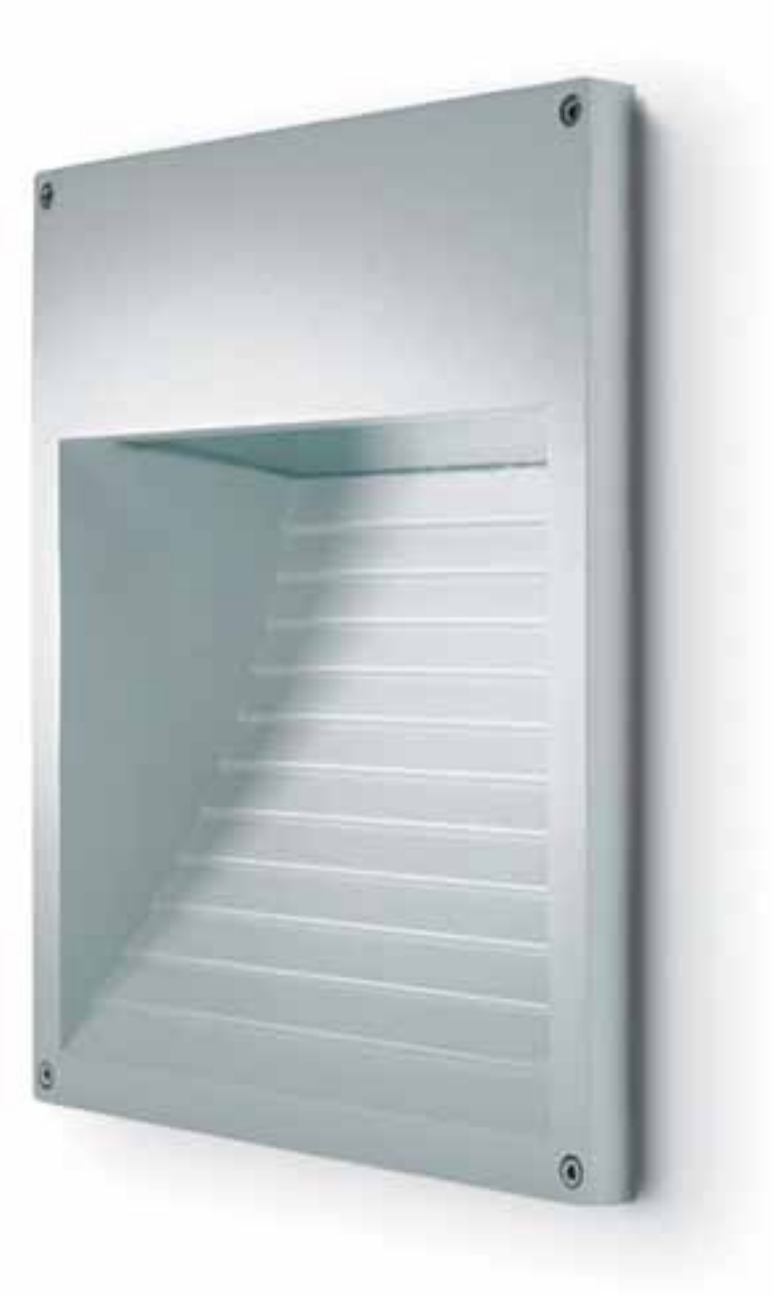
Amazon DBC270/DBC271 architectural flood lighting luminaire.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DBC270 MAX40W-E27	1.45	140339 00
DBC271 MAX50W-GZ10	1.45	140346 00

Please contact your local Philips representative for additional configurations

EFix



EFix decorative step lighting – enhancing the city

The new outdoor EFix decorative range is ideally suited to step lighting and marking. The family design means the luminaires can be combined to cover a wide variety of applications.

The EFix Step light is available with both fluorescent and HID light sources.

The EFix Step marker offers a variety of five different front finishes.

www.philips.co.uk/lighting

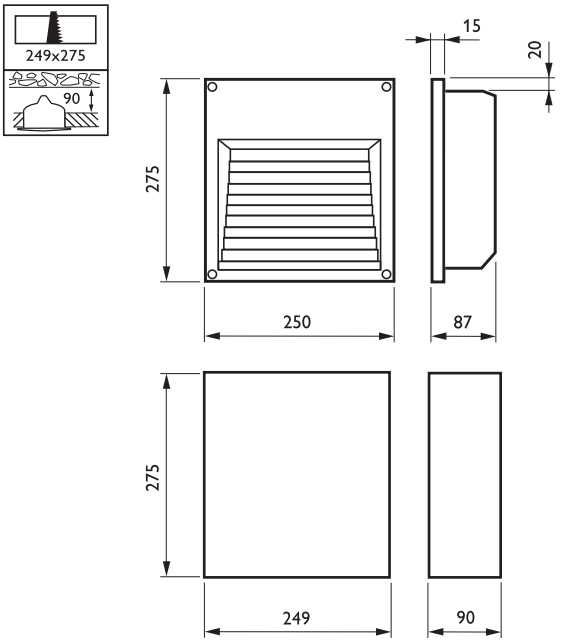
EFix Step light HWP200/201

EFix Step marker
HWP100/101/102/103/104

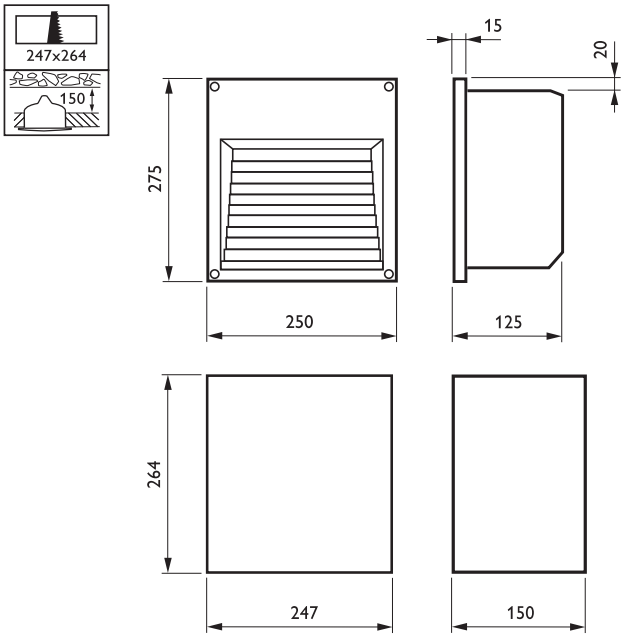
	EFix Step light
Type	HWP200 (HID-lamp version) HWP201 (compact fluorescent lamp version)
Light source	HWP200 HID: 1 x MASTERColour CDM-T / G12 / 70 W HWP201 Compact fluorescent: 1 x MASTER PL-C 2 Pin / G24d-3 / 26 W
Lamp included	No
Gear and compensation	Electro magnetic (low loss), 230 V / 50 Hz: Inductive (IN), with capacitor for HID version and without capacitor for fluorescent version

Materials and finishing	Housing: die-cast aluminium Recessing housing part: polyamide (fluorescent version) and steel (HID version) Diffuser: glass
Colour	Silver grey (GR), close to RAL 9006
Installation	Wall recessed
Maintenance	Lamp accessible by opening the front cover (four screws) No internal cleaning required
Main applications	Outdoor path/stairs guidings

IP 65 IK 07



HWP201



HWP200

EFix Step Light HWP200/201

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HWP200 CDM-T70W IN GR	3.30	807461 99
HWP201 PL-C/2P18W IN GR	3.50	807478 99

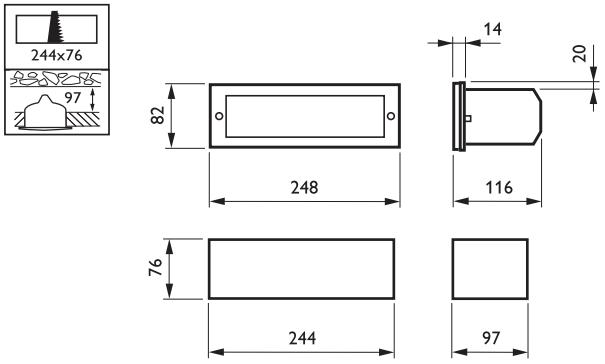
Please contact your local Philips representative for additional configurations

	EFix Step marker
Type	HWP100/101/102/103/104
Light source	Compact fluorescent: 1 x MASTER PL-C 2 Pin / G24d-3 / 18 W
Lamp included	No
Gear and compensation	Electro magnetic (low loss), 230 V / 50 Hz: Inductive (IN), without capacitor
Materials and finishing	Housing: die-cast aluminium Recessing housing part: polyamide

Colour	Silver grey (GR), close to RAL 9006
Installation	Wall recessed
Maintenance	Lamp accessible by opening the front cover (2 screws) No internal cleaning required
Main applications	Outdoor path/stairs guidings

IP 54 IK 07

CE



HWP100

EFix Step Marker HWP100

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HWP100 PL-C/2P18W IN GR	1.50	807485 99

Please contact your local Philips representative for additional configurations

EFix Step Marker HWP101

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HWP101 PL-C/2P18W IN GR	1.30	807492 99

Please contact your local Philips representative for additional configurations

EFix Step Marker HWP102

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HWP102 PL-C/2P18W IN GR	1.40	807508 99

Please contact your local Philips representative for additional configurations

EFix Step Marker HWP103

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HWP103 PL-C/2P18W IN GR	1.20	807515 99

Please contact your local Philips representative for additional configurations

EFix Step Marker HWP104

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
HWP104 PL-C/2P18W IN GR	1.30	807522 99

Please contact your local Philips representative for additional configurations

Wall marker, asymmetric LED

Wall Marker Asymmetric LED – a future-proof direction

The new Wall marker asymmetric LED is ideal for wall and step lighting, and illuminating paths and areas or access routes. Thanks to the LUXEON® K2 LEDs, it provides an efficient lighting solution with excellent luminance. Three choices of brightness levels are available. Rugged die-cast aluminium construction, with an enclosed light engine provides IP54 protection.

www.philips.co.uk/lighting

	Wall marker asymmetric LED
Type	BWG331
	BWG332
	BWG333
Light source	BWG331: 1 x LUXEON® K2
	BWG332: 2 x LUXEON® K2
	BWG333: 3 x LUXEON® K2
Light colour	Cool white
Power supply	220 - 240 V / 50 - 60 Hz
Power consumption	1 x LED-K2: max 3W
	2 x LED-K2: max 6W
	3 x LED-K2: max 9W
Optic / cover	Diffuse window
Operating temperature	-20°C > T_a > 35°C

Lifetime	50 000 hrs (70% lumen maintenance)
Option	Lighting controls: switch only, dimming
Material	Housing: aluminium
	Bracket: stainless steel
	Recessed box: plastic
Installation	Recessed, vertical via recessed box
Accessory	Recessing boxes
Main applications	Guidance lighting indoor and outdoor

IP 54 F

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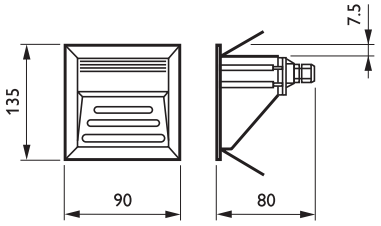
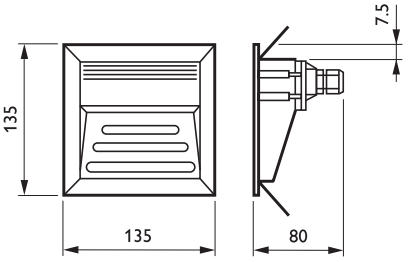
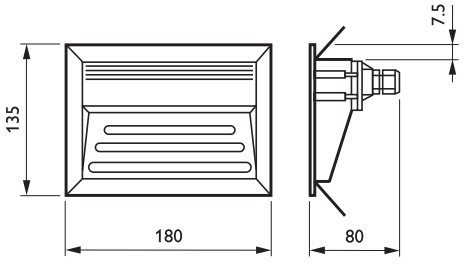


BWG331



BWG332



BWG333

Wall marker asymmetric LED

BWG331

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BWG331 1xLED-LXN/CW PSU 220-240V CLII	0.30	808499 99

Please contact your local Philips representative for additional configurations

Wall marker asymmetric LED

BWG332

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BWG332 2xLED-LXN/CW PSU 220-240V CLII	0.42	808505 99

Please contact your local Philips representative for additional configurations

Wall marker asymmetric LED

BWG333

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BWG333 3xLED-LXN/CW PSU 220-240V CLII	0.55	808512 99

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
ZWG331 RMB	Recessing box	808529 99
ZWG332 RMB	Recessing box	808536 99
ZWG333 RMB	Recessing box	808543 99

DWP

DWP – Architectural accents

The new outdoor DWP architectural accent range range is a family of asymmetrical wall lighting fixtures. It produces a powerful direct or bi-directional light distribution that will enhance the architecture of building facades. It is ideal for walkways atria's and shopping areas.

The compact aluminium housing and black or anthracite finish guarantee optium visual integration. The range comprises two sizes; a small version for direct down lighting and a large version for direct and/or indirect lighting.

The DWP range is available in a round and square design.

www.philips.co.uk/lighting

DWP 704 -
Small square version

DWP 700 -
Small round version

	DWP
Type	DWP700 (small round version) DWP701 (large round version) DWP704 (small square version) DWP705 (large square version)
Light source	Small versions: 1 x MASTERColour CDM-T / G12 / 35 or 70 W Large versions: 2 x MASTERColour CDM-T / G12 / 35 or 70 W
Lamp included	Yes
Gear and compensation	Electro magnetic, 220-240 V / 50 Hz: High Frequency integrated control gear
Controls	Philips full line DXM controllers, including Light System Manager, iPlayer3 or other DMX control sources

Optic	Clear glass 40 degree reflector Spot and narrow reflectors can be ordered seperately
Material and finishing	Housing: die-cast aluminium Cover: tempered glass, 10 mm thick
Colour	Anthracite (AN), Black (BK)
Installation	Wall mounting
Maintenance	Lamp accessible by opening the front glass No internal cleaning required
Main applications	Grazing effects on walls

IP 65 IK 07

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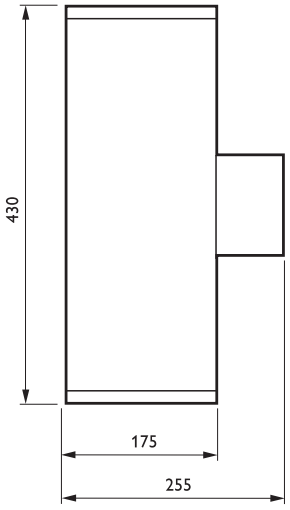
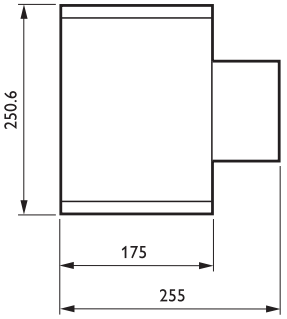
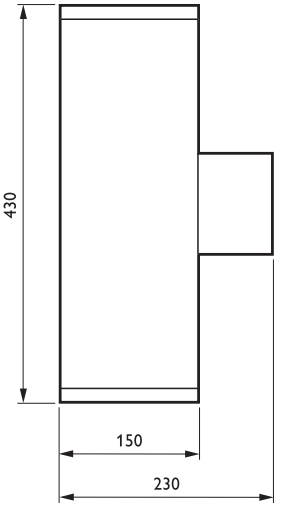


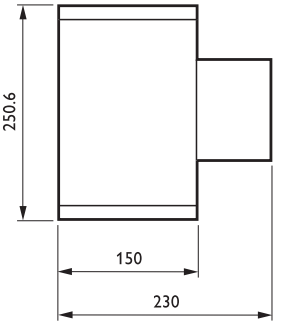
DWP 701



DWP 700



DWP 705



DWP 704

DWP 700 - Small round version for direct lighting.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP700 1XCDM-T35W/830 EB I MB BK	5.00	547538 00
DWP700 1XCDM-T35W/830 EB I MB GR	5.00	547545 00
DWP700 1XCDM-T70W/830 EB I MB BK	5.20	547552 00
DWP700 1XCDM-T70W/830 EB I MB GR	5.20	547569 00

Please contact your local Philips representative for additional configurations

DWP 701 - Large round version for direct and indirect lighting.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP701 2XCDM-T35W/830 EB I MB BK	9.00	547576 00
DWP701 2XCDM-T35W/830 EB I MB GR	9.00	547583 00
DWP701 2XCDM-T70W/830 EB I MB BK	9.30	547590 00
DWP701 2XCDM-T70W/830 EB I MB GR	9.30	547606 00

Please contact your local Philips representative for additional configurations

DWP 704 - Small square version for direct lighting.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP704 1XCDM-T35W/830 EB I MB BK	5.00	547613 00
DWP704 1XCDM-T35W/830 EB I MB GR	5.00	547620 00
DWP704 1XCDM-T70W/830 EB I MB BK	5.20	547637 00
DWP704 1XCDM-T70W/830 EB I MB GR	5.20	547644 00

Please contact your local Philips representative for additional configurations

DWP 705 - Large square version for direct and indirect lighting.

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DWP705 2XCDM-T35W/830 EB I MB BK	9.00	547651 00
DWP705 2XCDM-T35W/830 EB I MB GR	9.00	547668 00
DWP705 2XCDM-T70W/830 EB I MB BK	9.30	547675 00
DWP705 2XCDM-T70W/830 EB I MB GR	9.30	547682 00

Please contact your local Philips representative for additional configurations

RCP200 – a safe passage

RCP200/201 is a wall/ceiling-mounted luminaire for compact fluorescent lamps. Featuring a die-cast aluminium housing and an opal polycarbonate diffuser that is UV stabilised to prevent yellowing.

This waterproof luminaire is shock and vandal resistant and includes an integral emergency gear. This luminaire is ideal to suit exterior public areas; stairwells, corridors and emergency exit routes. RCP200 is available in black and silver.

www.philips.co.uk/lighting

RCP200 -
Black bulkhead version

RCP201 -
Black Eyelid version

	RCP200/201
Type	RCP200 (bulkhead version) RCP201 (eyelid version)
Light source	1 x PLQ 28 or 38 W
Lamp included	Yes
Gear	Electro magnetic, 220-240 V / 50 Hz: High Frequency Performer (HFP)
Optic	Opal diffuser

Material and finishing	Housing: die-cast aluminium Cover: polycarbonate
Colour	Black (BK) , Silver (SI)
Installation	Suface mounting
Maintenance	Lamp accessible by opening the front cover No internal cleaning required
Main applications	Walkway and entrance lighting

IP 65 IK 07

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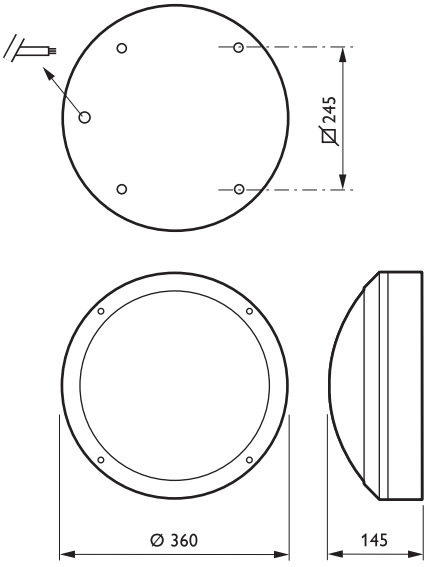
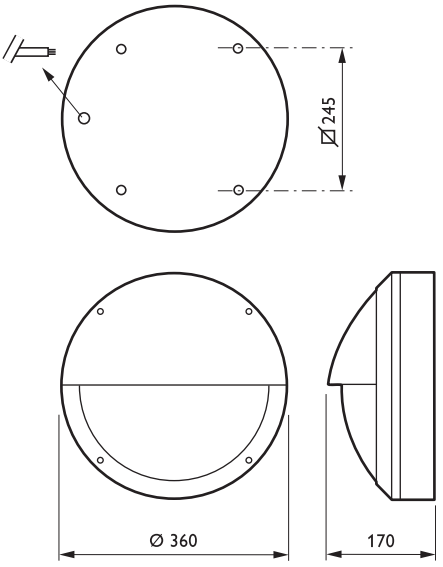


RCP200 - Bulkhead version



RCP201 - Eyelid version

RCP200 -
Bulkhead version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
RCP200 1XPL-Q/4P28W/840 HF BK	5.30	546517 00
RCP200 1XPL-Q/4P28W/840 HF BK EL3	5.50	546524 00
RCP200 1XPL-Q/4P28W/840 HF GR	5.30	546531 00
RCP200 1XPL-Q/4P28W/840 HF GR EL3	5.50	546548 00

Please contact your local Philips representative for additional configurations

RCP201 -
Eyelid version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
RCP200 1XPL-Q/4P38W/840 HF BK	5.80	546555 00
RCP200 1XPL-Q/4P38W/840 HF BK EL3	6.00	546609 00
RCP200 1XPL-Q/4P38W/840 HF GR	5.80	546616 00
RCP200 1XPL-Q/4P38W/840 HF GR EL3	6.00	546623 00

Please contact your local Philips representative for additional configurations

Amazon LED

Amazon LED – a touch of ambience

Create an attractive and appealing entrance or pathway with guiding lights. At the heart of the Amazon LED range of marker lights are top-quality diodes that deliver outstanding brightness. Amazon LED offers a choice of five different colours – yellow, red, blue, green and white (colour temperature 5600 - 6500 K) – to add a touch of ambience to a variety of settings.

Amazon LED Kit, available in white and blue, is a complete guiding light kit with remote control that can be applied indoor and outdoor.

www.philips.co.uk/lighting

Amazon LED BBC211

Amazon LED BBC206

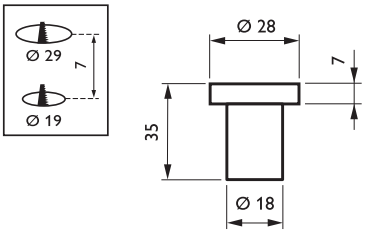
Amazon LED BBC212

	Amazon LED
Type	BBC211 (single pack, 10 SET version, 10 KIT version)
Light source	1 x SMD LED-HB
Light colour	Single pack, 10 pack: red (RD), green (GR), blue (BL), amber (AM), white (WH) 10 pack KIT: mono: blue (BL), white (WH)
Power supply	Single pack: 9 V DC 10 pack KIT: 220 - 240 V / 50 - 60 Hz
Power consumption	Single pack: 0.25 W 10 pack KIT: 3 W
Optic/cover	Frosted polycarbonate
Options	Remote control unit
Materials and finishing	Housing: die-cast aluminium Top cover: polycarbonate

Colour	Grey
Installation	Ceiling, wall and ground recessed Operating temperature -20°C < T_a < 35°C Driver IP55 rated
Liftetime	50,000 hours (70% lumen maintenance at T_a= 25°C)
Accessories	230 V / 9 V transformer + remote control - Must be ordered separately for Single and Set versions
Remarks	Configuration of kit version: 10 markers, transformer, remote control, battery, 20 m cable and 22 quick-fit connectors; for the set version: 10 markers
Main applications	Office, retail, hospitality

III IP65 850°C

CE CB



BBC211

Amazon LED BBC211 kit with single SMD LEDs, combipacked transformer and remote control. Also available in single units and sets of 10 pieces. Respective codes for new kit and set versions, and related accessories are available separately

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBC211 1xLED-HB/WH 9V	0.02	809175 99
BBC211 1xLED-HB/BL 9V	0.02	809182 99
BBC211 1xLED-HB/GN 9V	0.02	809199 99
BBC211 1xLED-HB/RD 9V	0.02	809205 99
BBC211 1xLED-HB/AM 9V	0.02	809212 99
BBC211 1xLED-HB/WH 9V SET10	0.21	809229 99
BBC211 1xLED-HB/BL 9V SET10	0.21	809236 99
BBC211 1xLED-HB/GN 9V SET10	0.21	809243 99
BBC211 1xLED-HB/RD 9V SET10	0.21	809250 99
BBC211 1xLED-HB/AM 9V SET10	0.21	809267 99
BBC211 1xLED-HB/WH 9V SET10 - Kit Version	0.90	800479 99
BBC211 1xLED-HB/BL 9V SET 10 - Kit Version	0.90	800486 99

Please contact your local Philips representative for additional configurations

Accessories

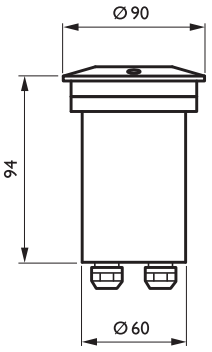
Product ID	EOC
EBC211 ETR-RC 230/9V - Electronic Driver for BBC211	809427 99

	Amazon LED
Type	BBC206 (single pack version)
Light source	6 x LED-HB (5 mm)
Light colour	Mono: red (RD), green (GN), blue (BL), amber (AM), white (WH)
Power supply	24 V DC
Power consumption	0.5 W
Optic/cover	Frosted glass
Materials and finishing	Housing: technopolymer (PBT) Top cover: tempered glass and polycarbonate (patented LED Guard® technology) Top ring: stainless steel

Colour	Grey
Installation	Ceiling, wall and ground recessed Operating temperature -20°C < T_a < 35°C
Liftetime	50,000 hours (70% lumen maintenance at T_a= 25°C)
Accessories	Need to have - 230 V / 24 V transformer, recessed tube, transformer covers Optional - Aluminium decorative ring, recessed tube, ceiling fixation clips
Main applications	Office, retail, hospitality

III IP67 850°C

CE CB



BBC206

Amazon LED BBC206 with 6 LED's

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBC206 6xLED-HB/BL 24V	0.41	143507 00
BBC206 6xLED-HB/WH 24V	0.41	143491 00
BBC206 6xLED-HB/GN 24V	0.41	143514 00
BBC206 6xLED-HB/RD 24V	0.41	143521 00
BBC206 6xLED-HB/YE 24V	0.41	143538 00

Please contact your local Philips representative for additional configurations

Accessories

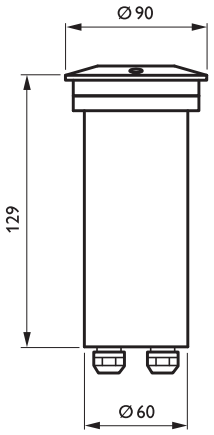
Product ID	EOC
EBC206 ETR 230/24V IP65 Electronic Driver suitable for BBC206 ranges	145808 00
ZBC206 Tube - Recessed Tube for ground installation suitable for BBC206 & BBC212 ranges	143651 00
ZBC206 DR ALU - Deco ring aluminium suitable for BBC206 & BBC212 ranges	143644 00
ZBC206 CFC - Ceiling fixation clips suitable for BBC206 & BBC212 ranges	145846 00
ZBC206 TRC ALU - Aluminium cover for Transformer	145853 00
ZBC206 TRC IX - Stainless Steel cover for Transformer	145860 00

	Amazon LED
Type	BBC212 (single pack version) Complete with Driver and Recessing Tube
Light source	12 x LED-HB (5 mm)
Light colour	Mono: red (RD), green (GN), blue (BL), amber (AM), white (WH)
Power supply	220 - 240 V / 50 - 60 Hz
Power consumption	0.8 W
Optic/cover	Frosted glass
Materials and finishing	Housing: technopolymer (PBT) Top cover: tempered glass and polycarbonate (patented LED Guard® technology) Top ring: stainless steel

Colour	Grey
Installation	Ceiling, wall and ground recessed Operating temperature -20°C < T_a < 35°C
Liftetime	50,000 hours (70% lumen maintenance at T_a = 25°C)
Accessories	Aluminium decorative ring,ceiling fixation clips
Main applications	Office, retail, hospitality

III IP67 850°C

CE CB



BBC212

Amazon LED BBC212 with 12 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBC212 12xLED-HB/BL 230V	0.50	145839 00
BBC212 12xLED-HB/WH 230V	0.50	145822 00
BBC212 12xLED-HB/RD 230V	0.50	143422 00
BBC212 12xLED-HB/GN 230V	0.50	143415 00
BBC212 12xLED-HB/YE 230V	0.50	143439 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZBC206 DR ALU - Deco ring aluminium suitable for BBC206 & BBC212 ranges	143644 00
ZBC206 CFC - Ceiling fixation clips suitable for BBC206 & BBC212 ranges	145846 00

Marker LED

Marker LED – eye catching

Featuring SMD LEDs in combination with a diffusing glass cover, this luminaire is a clearly visible marker with a uniform light output. The Marker LED RGB version enables dynamic colour changes, opening up a wide range of creative options and effects

The robustly designed Marker LED is available in round, rectangular and square versions and has an easy to install wall and ground recessed mounting box.

www.philips.co.uk/lighting

Marker LED BBG300 ground and wall recessed luminaire, round

Marker LED BBG310 ground and wall recessed luminaire, square

Marker LED BBG320 ground and wall recessed luminaire, rectangular

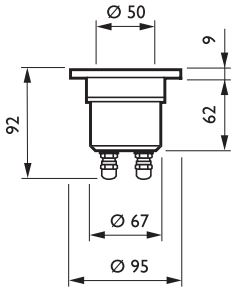
product design award

	Marker LED, round
Type	BBG300 (220 - 240v version)
Light source	Mono: 12 x SMD LED RGB: 10 x SMD LED
Light colour	Mono: red, green, blue, amber, cool white RGB
Power supply	BBG300: 220 - 240v / 50 - 60Hz - integrated
Power consumption	Max 4W (RGB 220 - 240v)
Optic/cover	Glass with internal diffuser
Lifetime	50,000 hrs (70% lumen maintenance)

Option (only in RGB version)	Lighting controls: ColourChaser DMX, ColourChaser Wheel
Material	Top cover: tempered glass Top ring: stainless steel Gearbox: polycarbonate
Installation	Wall and ground recessed
Accessory	Must be ordered separately, Recessed and pre-recessed boxes suitable for concrete ZBG300 RMB+RMBH and ZBG300 RMB+RMBH RGB
Main applications	Outdoor (urban), indoor (office, retail, hospitality)

BBG300 IP 67 IK 08

CE



BBG300

Marker LED BBG300 ground and wall recessed luminaire, round

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBG300 LED-HB/WH PSU 220-240V II	0.48	009926 99
BBG300 LED-HB/AM PSU 220-240V II	0.48	009933 99
BBG300 LED-HB/RD PSU 220-240V II	0.48	009940 99
BBG300 LED-HB/GN PSU 220-240V II	0.48	009957 99
BBG300 LED-HB/BL PSU 220-240V II	0.48	009964 99
BBG300 LED-HB/RGB PSU 220-240V II	0.40	802350 99

Please contact your local Philips representative for additional configurations

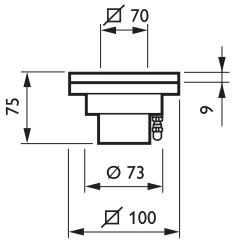
Accessories see page 4.169

	Marker LED, square
Type	BBG310 (220 - 240v version)
Light source	Mono: 16 x SMD LED RGB: 20 x SMD LED
Light colour	Mono: red, green, blue, amber, cool white RGB
Power supply	BBG310: 220 - 240v / 50 - 60Hz - integrated
Power consumption	Max 7W (RGB 220 - 240v)
Optic/cover	Glass with internal diffuser
Lifetime	50,000 hrs (70% lumen maintenance)

Option (only in RGB version)	Lighting controls: ColourChaser DMX, ColourChaser Wheel
Material	Top cover: tempered glass Top ring: stainless steel Gearbox: polycarbonate
Installation	Wall and ground recessed
Accessory	Must be ordered separately, Recessed and pre-recessed boxes suitable for concrete ZBG310 RMB+RMBH and ZBG310 RMB+RMBH RGB
Main applications	Outdoor (urban), indoor (office, retail, hospitality)

BBG310 IP 67 IK 08

CE



BBG310/311

Marker LED BBG310 ground and wall recessed luminaire, square

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBG310 LED-HB/WH PSU 220-240V II	0.54	797076 99
BBG310 LED-HB/AM PSU 220-240V II	0.54	797083 99
BBG310 LED-HB/RD PSU 220-240V II	0.54	797090 99
BBG310 LED-HB/GN PSU 220-240V II	0.54	797106 99
BBG310 LED-HB/BL PSU 220-240V II	0.54	797113 99
BBG310 LED-HB/RGB PSU 220-240V II	0.54	802374 99

Please contact your local Philips representative for additional configurations

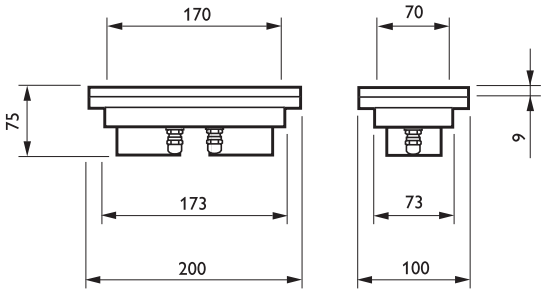
Accessories see page 4.169

	Marker LED, rectangular
Type	BBG320 (220 - 240v version)
Light source	Mono: 40 x SMD LED RBG: 40 x SMD LED
Light colour	Mono: red, green, blue, amber, cool white RGB
Power supply	BBG320: 220 - 240v / 50 - 60Hz
Power consumption	Max 13W (RGB 220 - 240v)
Optic/cover	Glass with internal diffuser
Lifetime	50,000 hrs (70% lumen maintenance)

Option (only in RGB version)	Lighting controls: ColourChaser DMX, ColourChaser Wheel
Material	Top cover: tempered glass Top ring: stainless steel Gearbox: polycarbonate
Installation	Wall and ground recessed
Accessory	Must be ordered separately, Recessed and pre-recessed boxes suitable for concrete ZBG320 RMB+RMBH and ZBG320 RMB+RMBH RGB
Main applications	Outdoor (urban), indoor (office, retail, hospitality)

BBG320 IP67 IK07

CE



BBG320

Marker LED BBG320 ground and wall recessed luminaire, rectangular

Preferred selection

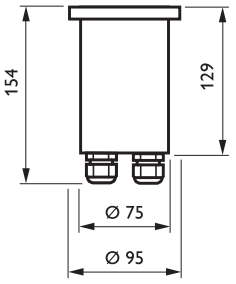
Product ID	Weight (kg)	European Order Code (EOC)
BBG320 LED-HB/WH PSU 220-240V II	1.06	797175 99
BBG320 LED-HB/AM PSU 220-240V II	1.08	797182 99
BBG320 LED-HB/RD PSU 220-240V II	0.89	797199 99
BBG320 LED-HB/GN PSU 220-240V II	1.08	797205 99
BBG320 LED-HB/BL PSU 220-240V II	1.08	797212 99
BBG320 LED-HB/RGB PSU 220-240V II	1.08	802398 99

Please contact your local Philips representative for additional configurations

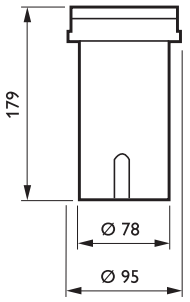
Accessories

Pre-recessed box for BBG300

Product ID	EOC
ZBG300 RMB RMBH	802008 99
ZBG300 RMB-RGB RMBH	802022 99



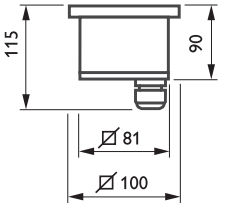
ZBG300 RMB



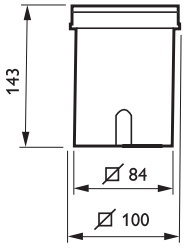
ZBG300 RMBH

Pre-recessed box for BBG310/311

Product ID	EOC
ZBG310 RMB RMBH	802251 99
ZBG310 RMB-RGB RMBH	802275 99



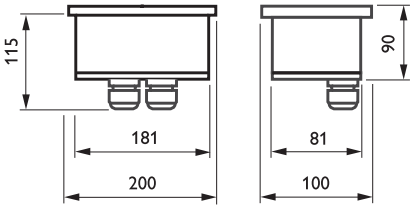
ZBG310 RMB



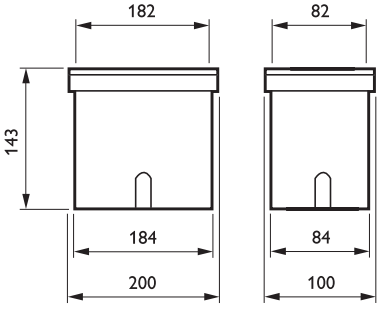
ZBG310 RMBH

Pre-recessed box for BBG310

Product ID	EOC
ZBG320 RMB RMBH	802312 99
ZBG320 RMB-RGB RMBH	802336 99



ZBG320 RMB



ZBG320 RMBH

Pre-recessed box for BBG320/321

Pre-recessed box for BBG310/311

Pre-recessed box for BBG300/301

Stainless steel top ring

Underwater LED BCB450/BCB451

Underwater LED K2 – illumination in water

Underwater LED is a compact, innovative spot and recessed solution designed to create amazing effects in wet or water environments, like fountains. Fully IP68 to a depth of 10m, it offers a choice of beams for precision illumination of, for example, fountains or ponds.

Underwater LED is available in blue, white and RGB versions; other colours are available upon request.

www.philips.co.uk/lighting

Underwater LED BCB450

Underwater LED BCB451

Underwater LED BBB450

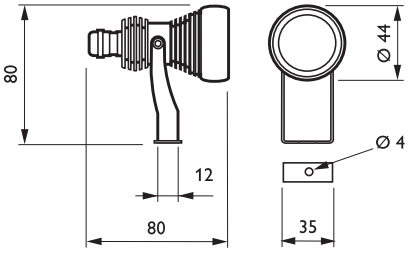
Underwater LED BBB451

	Underwater LED
Type	BCB450 (surface-mounted version)
Light source	3 x LUXEON® I
Light colour	Mono-colour version: cool white (CW), blue (BL) Tri-colour version: red, green, blue (RGB)
Power supply	Current driven, 350 mA
Power consumption	Max 4 W
Optic	Beam angles: Mono-colour: 12 and 30° Tri-colour: 12, 30 and 40°
Options	Lighting controls: for RGB version: Philips full line of DMX controllers, with slave interface

Materials and finishing	Housing: stainless steel and chrome Bracket: stainless steel Cover: tempered glass
Colour	Glossy silver
Installation	Surface mounted with separate available ECB450 range of drivers (and ECB450 DMX slave for tri-colour version) No preference in orientation Operating temperature: -20°C < T_a < 35°C
Lifetime	50,000 hours (70% lumen maintenance at T_a < 25°C)
Accessories	Range of drivers and DMX slave
Remarks	External driver required
Main applications	Underwater, outdoor and indoor

III IP 68 IK 05 850°C

CE CB



BCB450

Underwater LED BCB450 architectural flood-lighting luminaire, surface-mounted

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCB450 3xLED-LXN-12-/CW III	0.43	801346 99
BCB450 3xLED-LXN-12-/BL III	0.43	801353 99
BCB450 3xLED-LXN-12-/RGB III	0.43	801360 99
BCB450 3xLED-LXN-30-/CW III	0.43	801377 99
BCB450 3xLED-LXN-30-/BL III	0.43	801384 99
BCB450 3xLED-LXN-30-/RGB III	0.43	801391 99
BCB450 3xLED-LXN-40-/RGB III	0.43	801407 99

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	European Order Code (EOC)
ECB450 PSU220-240V-4W	Mono colour driver for Luxeon 1	801445 99
ECB450 PSU220-240V-15W	Mono colour driver for Luxeon 1	801469 99
ECB451 PSU220-240V-10W	Mono colour driver for Luxeon K2	808376 99
ECB451 PSU220-240V-36W	Mono colour driver for Luxeon K2	808383 99

The total power consumption of the LEDs determines how many and which driver you need. If unsure about the driver choice please contact your Philips representative.

Product ID	Description	European Order Code (EOC)
ECB450 DMX SLAVE	DMX slave for for Luxeon 1 to be used with RGB driver	801803 99
ECB451 DMX SLAVE	DMX slave for for Luxeon K2 to be used with RGB driver	808420 99
ECB450 PSU220-240V/24V-60W	RGB driver	801483 99
ECB450 PSU220-240V/24V-100W	RGB driver	801506 99
ECB450 PSU220-240V/24V-150W	RGB driver	80179799

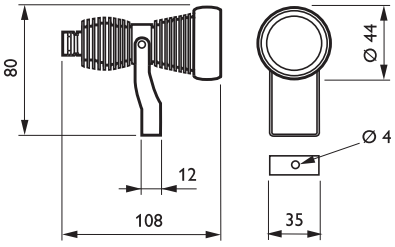
Multiple slaves can be connected to the drivers, as long as the total power consumption does not exceed driver specifications

	Underwater LED
Type	BCB451 (surface-mounted version)
Light source	3 x LUXEON® K2
Light colour	Mono-colour version: cool white (CW), warm white (WW), blue (BL) Tri-colour version: red, green, blue (RGB)
Power supply	Current driven, 350 mA, 700 mA
Power consumption	Max 8 W
Optic	Beam angles 10, 25 and 40°
Options	Lighting controls (for RGB version): for RGB version: Philips full line of DMX controllers, with slave interface

Materials and finishing	Housing: machined brass and anodized aluminium Bracket: stainless steel Cover: tempered glass
Colour	Glossy silver
Installation	Surface mounted with separate available ECB450/451 range of drivers (and ECB451 DMX slave for tri-colour version) No preference in orientation Operating temperature: -20°C < T_a < 35°C
Lifetime	50,000 hours (70% lumen maintenance)
Accessories	Range of drivers and DMX slave
Remarks	External driver required
Main applications	Underwater, outdoor and indoor

III IP 68 IK 08 850°C

CE CB



BCB451

Underwater LED BCB451 architectural flood-lighting luminaire, surface-mounted

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BCB451 3xLED-K2-10-/CW III	0.54	807874 99
BCB451 3xLED-K2-10-/WW III	0.54	815756 99
BCB451 3xLED-K2-10-/BL III	0.54	807881 99
BCB451 3xLED-K2-10-/RGB III	0.60	807898 99
BCB451 3xLED-K2-25-/CW III	0.54	807904 99
BCB451 3xLED-K2-25-WW III	0.54	815763 99
BCB451 3xLED-K2-25-/BL III	0.54	807911 99
BCB451 3xLED-K2-40-/RGB III	0.60	807928 99
BCB451 3xLED-K2-40-/CW III	0.54	807935 99
BCB451 3xLED-K2-40-/WW III	0.54	815770 99
BCB451 3xLED-K2-40-/BL III	0.54	807942 99
BCB451 3xLED-K2-40-/RGB III	0.60	807959 99

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	European Order Code (EOC)
ECB450 PSU220-240V-4W	Mono colour driver for Luxeon 1	801445 99
ECB450 PSU220-240V-15W	Mono colour driver for Luxeon 1	801469 99
ECB451 PSU220-240V-10W	Mono colour driver for Luxeon K2	808376 99
ECB451 PSU220-240V-36W	Mono colour driver for Luxeon K2	808383 99

The total power consumption of the LEDs determines how many and which driver you need. If unsure about the driver choice please contact your Philips representative.

Product ID	Description	European Order Code (EOC)
ECB450 DMX SLAVE	DMX slave for for Luxeon 1 to be used with RGB driver	801803 99
ECB451 DMX SLAVE	DMX slave for for Luxeon K2 to be used with RGB driver	808420 99
ECB450 PSU220-240V/24V-60W	RGB driver	801483 99
ECB450 PSU220-240V/24V-100W	RGB driver	801506 99
ECB450 PSU220-240V/24V-150W	RGB driver	80179799

Multiple slaves can be connected to the drivers, as long as the total power consumption does not exceed driver specifications

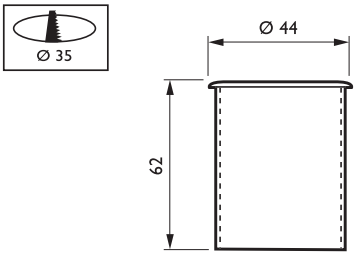
Hofvijver, The Hague, The Netherlands

	Underwater LED
Type	BBB451 (recessed version)
Light source	1 x or 3 x LUXEON® K2
Light colour	Mono-colour version: cool white (CW), warm white (WW), blue (BL) Tri-colour version: red, green, blue (RGB)
Power supply	Current driven, 350 mA, 700 mA
Power consumption	1 x LED version: max 3 W 3 x LED version: max 8 W
Optic	Beam angles 10, 25 and 40°
Option	Lighting controls (for RGB version): for RGB version: Philips full line of DMX controllers, with slave interface
Materials and finishing	Housing: machined brass and anodized aluminium Cover:tempered glass Recessed box: plastic

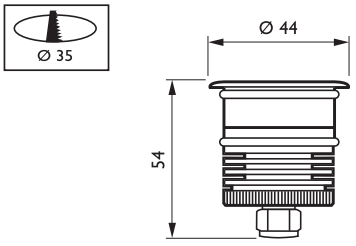
Colour	Glossy silver
Installation	In recessing box, with separate available ECB450/451 range of drivers (and ECB451 DMX slave for tri-colour version) No preference in orientation Operating temperature: -20°C < T_a < 35°C
Lifetime	50,000 hours (70% lumen maintenance)
Accessories	To be ordered separately, Recessed Mounting box, range of drivers and DMX slave
Remarks	External driver required
Main applications	Underwater, outdoor and indoor

III IP 68 IK 08 850°C

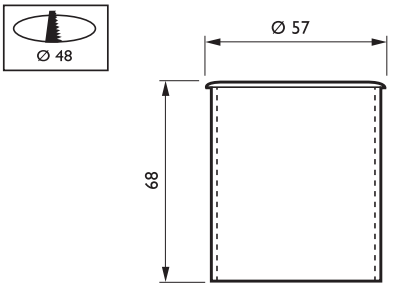
CE CB



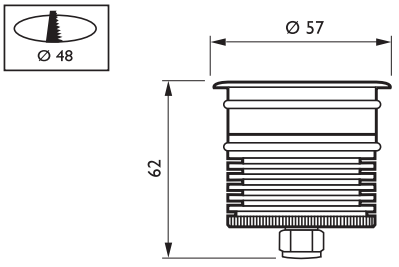
BBB451 1x + ZBB450 RMB-1



BBB451 1x



BBB451 3x + ZBB450 RMB-3



BBB451 3x

Underwater LED BBB451 architectural flood-lighting luminaire, recessed, with 1 LED

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBB451 1xLED-K2-10-/CW III	0.27	807720 99
BBB451 1xLED-K2-10-/WW III	0.27	815817 99
BBB451 1xLED-K2-10-/BL III	0.27	807737 99
BBB451 1xLED-K2-25-/CW III	0.27	807744 99
BBB451 1xLED-K2-25-/WW III	0.27	815824 99
BBB451 1xLED-K2-25-/BL III	0.27	807751 99
BBB451 1xLED-K2-40-/CW III	0.27	807768 99
BBB451 1xLED-K2-40-/WW III	0.27	815831 99
BBB451 1xLED-K2-40-/BL III	0.27	807775 99

Please contact your local Philips representative for additional configurations

Underwater LED BBB451 architectural flood-lighting luminaire, recessed, with 3 LEDs

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
BBB451 3xLED-K2-10-/CW III	0.35	807782 99
BBB451 3xLED-K2-10-/WW III	0.34	815787 99
BBB451 3xLED-K2-10-/BL III	0.35	807799 99
BBB451 3xLED-K2-10-/RGB III	0.41	807805 99
BBB451 3xLED-K2-25-/CW III	0.35	807812 99
BBB451 3xLED-K2-25-/WW III	0.34	815794 99
BBB451 3xLED-K2-25-/BL III	0.35	807829 99
BBB451 3xLED-K2-25-/RGB III	0.41	807836 99
BBB451 3xLED-K2-40-/CW III	0.35	807843 99
BBB451 3xLED-K2-40-/WW III	0.34	815800 99
BBB451 3xLED-K2-40-/BL III	0.35	807850 99
BBB451 3xLED-K2-40-/RGB III	0.41	807867 99

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
ZBB451 RMB-1	Recessed Box for 1 x LED	807966 99
ZBB451 RMB-3	Recessed Box for 3 x LED	807973 99

Product ID	Description	European Order Code (EOC)
ECB450 PSU220-240V-4W	Mono colour driver for Luxeon 1	801445 99
ECB450 PSU220-240V-15W	Mono colour driver for Luxeon 1	801469 99
ECB451 PSU220-240V-10W	Mono colour driver for Luxeon K2	808376 99
ECB451 PSU220-240V-36W	Mono colour driver for Luxeon K2	808383 99

The total power consumption of the LEDs determines how many and which driver you need. If unsure about the driver choice please contact your Philips representative.

Product ID	Description	European Order Code (EOC)
ECB450 DMX SLAVE	DMX slave for for Luxeon 1 to be used with RGB driver	801803 99
ECB451 DMX SLAVE	DMX slave for for Luxeon K2 to be used with RGB driver	808420 99
ECB450 PSU220-240V/24V-60W	RGB driver	801483 99
ECB450 PSU220-240V/24V-100W	RGB driver	801506 99
ECB450 PSU220-240V/24V-150W	RGB driver	80179799

Multiple slaves can be connected to the drivers, as long as the total power consumption does not exceed driver specifications

See drivers on page 4.172

Flex LED NG

Flex LED – bendable light, in vivid colours

The next-generation Flex LED is a linear luminaire that enables smooth contour lighting, even around corners. 79 LEDs per metre encapsulated in insulating PVC produce a high and uniform luminosity.

Its miniaturised, flexible structure and uniform luminance makes it ideal for integration in architectural elements as well as for cove and decorative lighting. Real flexibility is ensured via different standard lengths and interconnectivity of up to 100 metres, even between different colours.

The next-generation Flex LED can be custom configured on site with the help of tool-free IP44 connectors. Moreover, high impact resistance and very low consumption make it a great replacement for expensive neon lighting.

Each colour is available in 5 standard lengths – although the unit lengths may vary depending on the colour. Two different power supply units and special mounting accessories are also available.

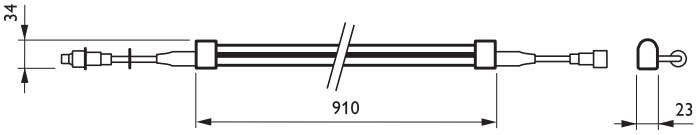
www.philips.co.uk/lighting

	Flex LED NG
Type	BCC200
Light source	79 x LED-LP per metre
Light colour	Mono-colour version: cool white (CW), red (RD), green (GN), blue (BL), amber (AM)
Power supply	220-240 V / 50-60 Hz
Power consumption	5.7 W per metre
Optic	PVC diffuser
Materials and finishing	Silicon modified PVC encapsulation
Installation	Surface mounting via provided clips, shielded from direct ingress Connection via built-in weatherproof connectors Operating temperature -20°C < T_a < 40°C Adjustment: as indicated in mounting instructions

Lifetime	10,000 hours (70% lumen maintenance at T_a = 25°C
Accessories	Drivers 1.6 Amp IP44 and 4 Apm IP44, mounting tracks, extension cable
Remarks	External driver required Available in different lengths: Red and amber versions: 1.52, 3.04, 10.64, 19.76 and 50.16 m Green, blue, cool white: 0.91, 1.82, 10.10, 20.20 and 50.50 m Product can not be cut to size
Main applications	Architectural contour lighting, signage, coves

IP44 connectors IP65 tubing 850°C

CE CB



BCC200 L910

Flex LED NG BCC200

Preferred selection

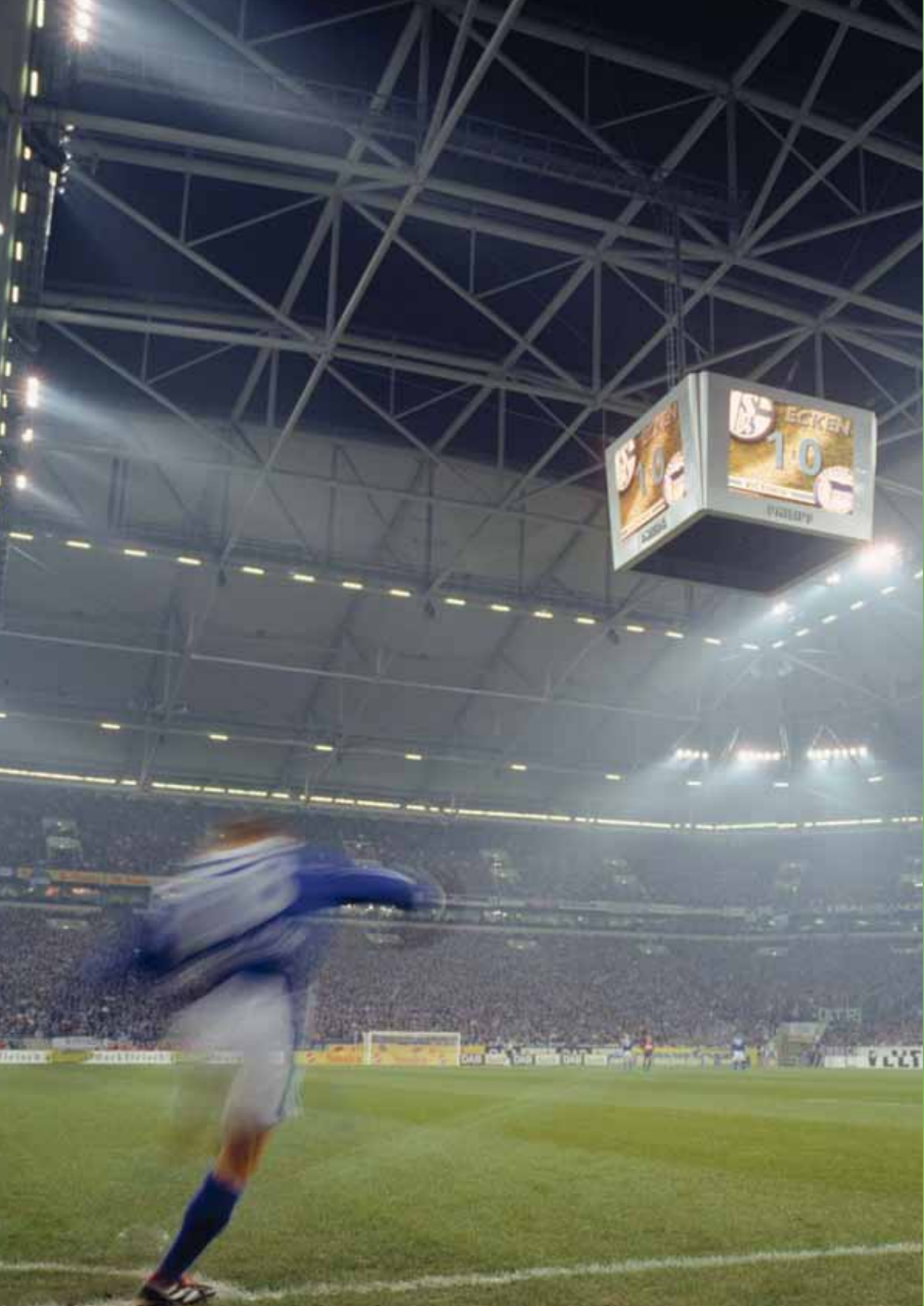
Product ID	Weight (kg)	European Order Code (EOC)
BCC200 1xLED-LP/CW 220-240V II L910	0.48	809649 99
BCC200 1xLED-LP/CW 220-240V II L1820	0.95	809694 99
BCC200 1xLED-LP/CW 220-240V II L10010	5.23	809748 99
BCC200 1xLED-LP/CW 220-240V II L20020	10.46	809984 00
BCC200 1xLED-LP/CW 220-240V II L50050	26.05	810034 00
BCC200 1xLED-LP/RD 220-240V II L1520	0.79	809601 99
BCC200 1xLED-LP/RD 220-240V II L3040	1.58	809656 99
BCC200 1xLED-LP/RD 220-240V II L10640	5.53	809700 99
BCC200 1xLED-LP/RD 220-240V II L19760	10.46	809946 00
BCC200 1xLED-LP/RD 220-240V II L50160	26.05	809991 00
BCC200 1xLED-LP/BL 220-240V II L910	0.48	809625 99
BCC200 1xLED-LP/BL 220-240V II L1820	0.95	809670 99
BCC200 1xLED-LP/BL 220-240V II L10010	5.23	809724 99
BCC200 1xLED-LP/BL 220-240V II L20020	10.46	809960 00
BCC200 1xLED-LP/BL 220-240V II L50050	26.05	810010 00
BCC200 1xLED-LP/GN 220-240V II L910	0.48	809618 99
BCC200 1xLED-LP/GN 220-240V II L1820	0.95	809663 99
BCC200 1xLED-LP/GN 220-240V II L10010	5.23	809717 99
BCC200 1xLED-LP/GN 220-240V II L20020	10.46	809953 00
BCC200 1xLED-LP/GN 220-240V II L50050	26.05	810003 00
BCC200 1xLED-LP/AM 220-240V II L1520	0.79	809632 99
BCC200 1xLED-LP/AM 220-240V II L3040	1.58	809687 99
BCC200 1xLED-LP/AM 220-240V II L10640	5.53	809731 99
BCC200 1xLED-LP/AM 220-240V II L19760	10.46	809977 00
BCC200 1xLED-LP/AM 220-240V II L50160	26.05	810027 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
ECC200 PSU 220-240V 1.6A CLII IP44	Power Supplies	812250 99
ECC200 PSU 220-240V 4A CLII IP44	Power Supplies	812267 99
ZCC200 CMC L50 ALU (5PCS)	Mounting Track	812274 99
ZCC200 CMC L1000 ALU	Mounting Track	812281 99
ZCC200 CMC L2000 ALU	Mounting Track	812298 99
ZCC200 C1000P-M-F	Extension Cable	812304 99

Milennium Dome, Greenwich, United Kingdom


ECKEN
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Sports and area lighting

Championship lighting for champion players

Today, sport is the world's biggest entertainment industry. Events such as the Olympics, soccer's World Cup and the NBA Championships capture the attention of almost everyone on the planet – thanks mainly to media coverage.

High-end sports

In fact, TV is largely responsible for sport's current status and it is the main driver of sports business development. At evening or night-time events, broadcasters require excellent lighting of the playing surface. Although the lighting should illuminate the players perfectly – and in some cases the live spectators too – it should never disturb them. Players and fans must experience optimal visual conditions – without glare – at all times. Philips has available in-house the lighting technology and sports broadcasting know-how required to design all the elements of an optimised sports lighting system – housing, lamp, optic and gear. In addition, many years of experience have enabled Philips to gain unrivalled competence in application development and sports lighting design. And thanks to the ArenaVision concept, Philips is present in all major sports, in the most prestigious stadia across all continents, and is recognised as the true world champion in sports lighting.

The answer to all your needs

Being a market leader in top-end sports lighting has given Philips the expertise to define the most efficient and appropriate lighting systems for recreational sports.

Recreational sports

Philips' leadership is also the result of its long-term technical co-operation with many international sports federations, such as for football, basketball, tennis and hockey, to name just a few. This technical partnership has helped these sports federations to define the lighting standards for their sports and has further strengthened Philips' competence in recreational sports lighting. Building upon this partnership, Philips has for many years now been developing innovative optical systems which help reduce light pollution thanks to sharp cut-off beam characteristics. On top of its unrivalled expertise, Philips is the only manufacturer that has all the necessary technologies in-house – lamps, controls and gear, optical systems and housings – and is therefore able to guarantee optimum system performance. So, whatever the sport, whatever the level of competition, whatever the venue, Philips' impressive range of sports lighting solutions will provide the answer to all your needs.

For safety and efficiency

The 24-hour economy has led to a massive increase in human activity around the clock. Whether at a production centre, airport, container terminal or industrial site, activity can be ongoing throughout the night.

The efficiency of such locations is greatly increased by lighting, which also contributes to the safety and security of those working on site. The two most relevant criteria when selecting area lighting are: the efficiency of the system (long burning hours) and the limitation of spill light (of key importance for the surrounding environment, which might be residential).

In area floodlighting, Philips' first objective is to understand and adapt to the specific customer needs. For each situation, Philips can define the right level of lighting, uniformity, comfort and colour quality. Also, we can optimise the cost of ownership, enabling the end user as well as society in general to benefit from the resulting energy savings. Moreover, in line with our policy of environmental care, Philips has developed innovative optical systems which help reduce light pollution thanks to sharp cut-off beam characteristics. These reflectors are integrated in an impressive range of floodlights.

Luminaire	Type	Page	Ingress protection IP value	Gear integrated (i) separate (s)	Insulation class	Ambient temperature outdoor (°C)	Drag factor (Cx)	Max. windage area (m^2)	Availability barndoors / louvres
ArenaVision									
	MVF404	5.14	65	s	I	35	0.93	0.20	•
	MVF403	5.18	65	s	I	35/45	0.93	0.20	•
PowerVision									
	MVF024	5.23	55	s	I	35	1.08	0.30	•
OptiVision									
	MVP507	5.28	65	s	I	35	0.45	0.12	-
Geartrays									
	ZVF320 LV	5.34	20	-	I	35	-	-	-
	ZVF320 WV	5.34	20	-	I	35	-	-	-
OptiFlood									
	MVP504	5.38	66	i	II	35	1.00	0.10	-
	MVP506	5.40	66	i	I/II	35	1.00	0.10	-
MINI 300 Stealth									
	DGP333	5.46	65	i	I	35	1.20	0.20	-
	DWP333	5.48	65	i	I	35	1.20	0.20	-
	DVP333	5.50	65	i	I	35	1.20	0.20	-
SNF100/300									
	SNF100	5.53	55	i	II	35	1.18	0.08	•
	SNF300	5.53	55	i/s	II	35	1.18	0.14	•
Tempo									
	Tempo 2 MWF/SWF230	5.57	65	i	I	35	-	0.117	•
	Tempo 3 MWF/SWF330	5.58	65	i	I	35	-	0.186	•
QVF415/416/417									
	QVF415	5.61	55	-	I	25	-	0.028	•
	QVF416	5.61	55	-	I	25	-	0.075	•
	QVF417	5.61	55	-	I	25	-	0.084	•

Luminaire	Type	Page	Cosmo-Polis	SON(-T) PLUS	SDW-T	Halogen	CDM-T	CDO-T	CDM-TD	MHN-TD	MHN-LA	MHN-SA	MHN-FC	MHN-SE	HPI-T
ArenaVision															
	MVF404	5.14	-	-	-	-	-	-	-	-	-	-	-	●	-
	MVF403	5.18	-	-	-	-	-	-	-	-	●	●	-	-	-
PowerVision															
	MVF024	5.23	-	●	-	-	-	-	-	-	●	-	●	-	●
OptiVision															
	MVP507	5.28	-	●	-	-	-	-	-	-	●	-	●	-	●
Geartrays															
	ZVF320 LV	5.34	-	●	-	-	-	-	-	-	●	●	●	●	●
	ZVF320 WV	5.34	-	●	-	-	-	-	-	-	●	●	●	●	●
OptiFlood															
	MVP504	5.38	●	●	-	-	●	●	●	-	-	-	-	-	-
	MVP506	5.40	●	●	-	-	●	●	●	-	-	-	-	-	●
MINI 300 Stealth															
	DGP333	5.46	●	-	-	-	●	-	●	-	-	-	-	-	-
	DWP333	5.48	●	-	-	-	●	-	●	-	-	-	-	-	-
	DVP333	5.50	●	-	-	-	●	-	●	-	-	-	-	-	-
SNF100/300															
	SNF100	5.53	-	●	●	-	-	-	-	●	-	-	-	-	-
	SNF300	5.53	-	●	-	-	-	-	-	-	-	-	-	-	●
Tempo															
	Tempo 2 MWF/SWF230	5.57	-	●	-	-	-	-	-	●	-	-	-	-	-
	Tempo 3 MWF/SWF330	5.58	-	●	-	-	-	-	-	-	-	-	-	-	●
QVF415/416/417															
	QVF415	5.61	-	-	-	●	-	-	-	-	-	-	-	-	-
	QVF416	5.61	-	-	-	●	-	-	-	-	-	-	-	-	-
	QVF417	5.61	-	-	-	●	-	-	-	-	-	-	-	-	-

ArenaVision

ArenaVision – now with even greater optical efficiency

Since it was first introduced in 1988, Philips ArenaVision has proven to be the best floodlighting system ever for sports lighting applications, most of which have to fulfil the highest specifications to enable television coverage of national and international events.

ArenaVision – a great partner

ArenaVision is an integrated system that is supplied by one manufacturer as part of a complete system. Philips is the only manufacturer to provide all relevant technologies from lamp to gear to floodlight, so that everything works in synergy. With ArenaVision, the key disciplines of lamp, optic and gear design were brought together with a single mission: to create the best possible floodlight that will operate effectively for many years.

Thanks to the innovative new Philips MHN-SE 2000 W compact single ended metal-halide lamp and high-tech single piece precision optics, the new 2 kW ArenaVision MVF404 offers much higher optical efficiency than ever before.

In addition to increased light output and optical efficiency, the upgraded 2 kW ArenaVision floodlight boasts many improvements, such as easy lamp fitting and replacement, a new safety knife connector system and a breakthrough electronic hot-restrike solution – while continuing to offer all the benefits of its predecessor as well.

The ArenaVision range includes two floodlights: The ArenaVision MVF404, dedicated to outdoor sports stadiums and large indoor arenas, is specially designed to increase dramatically the theatrical and emotional value of sports for TV audiences, spectators and players. The ArenaVision MVF403 is ideal for indoor sports halls as well as many outdoor sports and other illumination uses.
Both come with a variety of reflectors and lamps and offer a choice of optical systems and three levels of power output for every conceivable application.

www.philips.co.uk/lighting

MVF403

MVF404

asimpleswitch.com

Exclusive lamp technology only in ArenaVision

The innovative ArenaVision MVF404 floodlight is fitted with a new compact single-ended lamp, which has been developed specifically and exclusively for ArenaVision and brings out the best in the game.

This new Philips Short-Arc MASTER MHN-SE 2000 W / 956 lamp is a quartz metal-halide lamp designed to meet high demanding lighting and TV broadcasting requirements, e.g. excellent colour rendering (Ra >90), daylight appearance (Tc 5600K) and hot re-strike capabilities to ensure immediate re-ignition after a short power cut. Its single-ended GX22 lamp base enables it to be mounted in the lampholder in an axial position, without an outer envelope and is suitable only for a mains voltage of 380-415 V/50 Hz. Together with the special optics designed around the axial concept, this ensures maximum optical efficiency and enables accurate light distribution with a minimum of spill light.

Sports floodlighting

The new lamp has been developed for universal burning positions to allow the floodlights to be mounted in any standard positions needed.

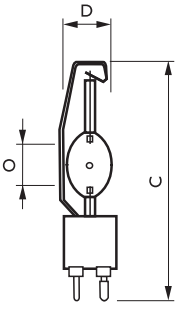
The hot-restrikeable MASTER MHN-SE 2000 W lamp operates in combination with a standard Philips gear unit.

Lamp specifications

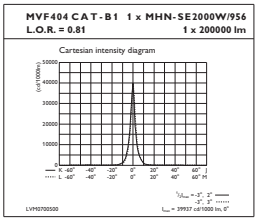
	Power (W)	Supply voltage (V)	Light output (Lm)	Luminous efficacy (Lm/W)	Cap/ base	Operating position	Average lifetime (h)	Lamp current (A nominal)	Lamp voltage (V nominal)
MHN-SE 2000W/956 400V	2000	400	202.000	101	GX22	Universal	5000	11.6	205

	Colour rendering (R_a)	Colour temperature (K)	Chromaticity coordinate X	Chromaticity coordinate Y
MHN-SE 2000W/956 400V	90	5600	0.320	0.355

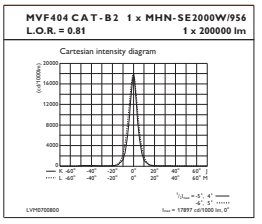
Lamp dimensions	C		D	O
	Nom.	Max.	Max.	Nom.
MHN-SE 2000W/956 400V	196	198	41	25



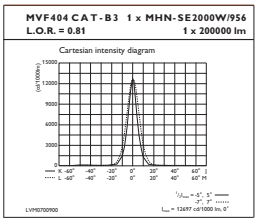
Cat B1 reflector (extra narrow beam)



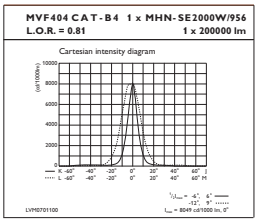
Cat B2 reflector (narrow beam)



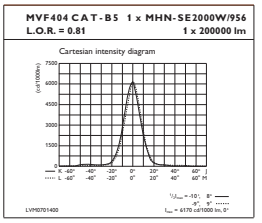
Cat B3 reflector (medium beam)



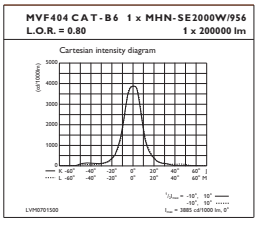
Cat B4 reflector (medium beam)



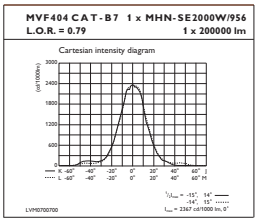
Cat B5 reflector (medium beam)



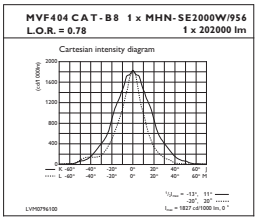
Cat B6 reflector (wide beam)



Cat B7 reflector (wide beam)



Cat B8 reflector (wide beam)



Increased optical efficiency
The ArenaVision MVF404 floodlights have been designed with the latest 2000 W axial lamp-optical concept providing more light, which is controlled by the world-class design optical system to give greater efficiency.

Consequently, even fewer luminaires are required for the application coverage, allowing substantial savings on capital, energy and maintenance.

Like the previous 2 kW version, the innovative ArenaVision MVF404 offers a choice of several distinct beam distributions, each with sharp cut-off characteristics. The new mono-block optics, which have been designed specifically for the new axial lamp-optic concept using the highest-purity aluminium, enable greater freedom in lighting design than ever before.

Lower installation and maintenance costs

Thanks to the new compact lamp and a simple spring-clip device, lamping and relamping have been made much easier, and can be done with one hand.
The lamp can easily be fitted into the lamp socket, while tight tolerances mean there is no room for error. On-site handling is more straightforward, quicker and therefore cheaper.

Safety knife connector system

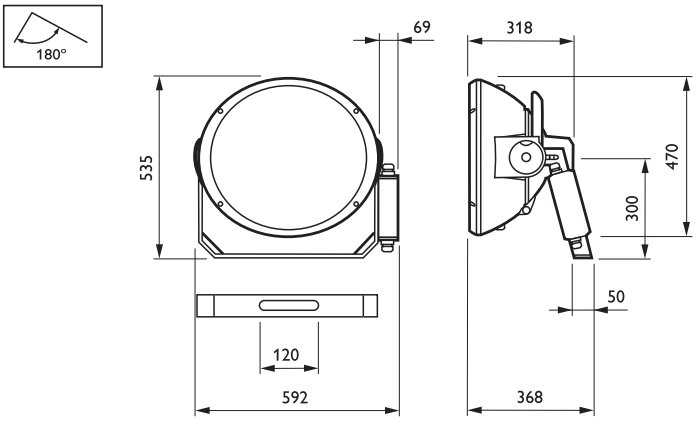
In the ArenaVision MVF404, safety is ensured by means of the built-in safety knife connector system, which automatically disconnects the mains power when the rear-access back cover is opened, without the need for an additional relay or contactor or any extra cabling.
This can also give rise to savings on capital and installation costs.

Breakthrough electronic hot-restrike option

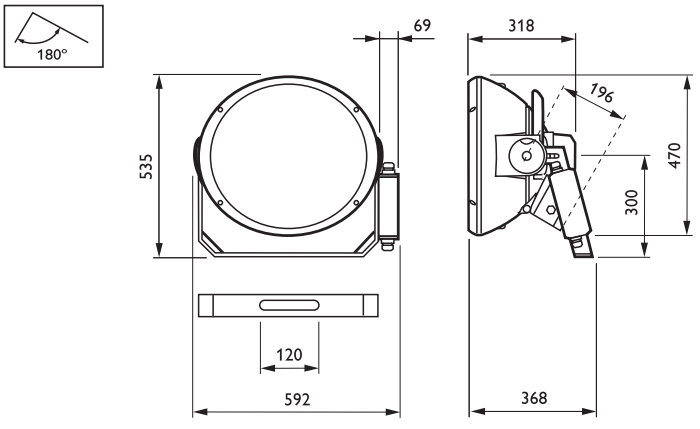
The (optional) hot-restrike version of the ArenaVision MVF404 is designed to ensure immediate re-ignition after a short power cut, so as to prevent long periods without light.
The floodlight comes equipped with a special electronic compact hot-restrike module, which is permanently fixed to the luminaire.
Thanks to innovations in technology, with the new electronic hot-restrike system everything is incorporated into a single module with integral timer to provide the most economical solution.

	ArenaVision
Type	MVF404
Light source	HID: 1 x MASTER MHN-SE / GX22-HR / 2000 W
Lamp included	Yes (light colour 956)
Optic	Beam category B1 (B1) Beam category B2 (B2) Beam category B3 (B3) Beam category B4 (B4) Beam category B5 (B5) Beam category B6 (B6) Beam category B7 (B7) Beam category B8 (B8)
Optical cover	Front-glass for downlighting (DOWN) and uplighting versions (UP)
Ignitor	Series (SI), integral Hot-restrike, electronic (HRE), integral
Options	Aiming memory (AM) to safeguard the original aiming position of the luminaire during servicing Hot re-strike versions enabling immediate restoration of lighting after power supply failure Uplighting versions available for architectural lighting Special cable sleeve version for tropical regions
Materials and finishing	Housing and rear cover: non-corrosive, high-pressure die-cast aluminium Glass: chemically toughened, 1.6 mm thick (for downlighting versions), ceramic 3 mm thick (for uplighting versions) Mounting bracket: hot-dipped galvanised, painted steel Clips: stainless steel (to secure the back cover) Reflector: anodised and brightened 99.99% aluminium Finishing in raw aluminium
Installation	On mast head frame, ceiling, wall and floor mounting The lamp is easily installed and lamping/relamping can be done with one hand only Precision aiming facilities at both top and bottom of the housing for use in conjunction with the ZVF403 PAD accessory Adjustment of mounting bracket: 360° Ambient temperature outdoor: 35°C (25°C indoor) Drag factor (Cx): 0.93 Projected area in 70° position: 0.20 m^2 Max adjustment from the horizontal: -90 / +90°
Maintenance	Lamp access by opening clips of rear cover (tool-less) Equipped with knife connector system, which automatically disconnects the mains power when the rear-access back cover is opened (no need for additional relay/contactor or any extra cabling) No internal cleaning required
Accessories	External louvre (ZVF403 GS), precision (ZVF403 PAD) aiming device
Remarks	Equipped with series ignitor (SI) and terminal block in aluminium connection box on the bracket Colour filters for architectural lighting are available on request Wire mesh to prevent large glass falling out Pre-wired 380 - 415 V / 50 Hz gear trays (ZVF320) are available, to be ordered separately
Main applications	Outdoor sport stadiums

IP65



MVF404 SI



MVF404 HRE

ArenaVision MVF404 sports flood-lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF404 MHN-SE2000W/956 380-415V B1 SI	15.00	502008 00
MVF404 MHN-SE2000W/956 380-415V B2 SI	15.00	502015 00
MVF404 MHN-SE2000W/956 380-415V B3 SI	15.00	502022 00
MVF404 MHN-SE2000W/956 380-415V B4 SI	15.00	502039 00
MVF404 MHN-SE2000W/956 380-415V B5 SI	15.00	502046 00
MVF404 MHN-SE2000W/956 380-415V B6 SI	15.00	502053 00
MVF404 MHN-SE2000W/956 380-415V B7 SI	15.00	502060 00
MVF404 MHN-SE2000W/956 380-415V B8 SI	15.00	604092 00
MVF404 MHN-SE2000W/956 380-415V B1 HRE	19.15	502077 00
MVF404 MHN-SE2000W/956 380-415V B2 HRE	19.15	502084 00
MVF404 MHN-SE2000W/956 380-415V B3 HRE	19.15	502091 00
MVF404 MHN-SE2000W/956 380-415V B4 HRE	19.15	502107 00
MVF404 MHN-SE2000W/956 380-415V B5 HRE	19.15	502114 00
MVF404 MHN-SE2000W/956 380-415V B6 HRE	19.15	502121 00
MVF404 MHN-SE2000W/956 380-415V B7 HRE	19.15	502138 00
MVF404 MHN-SE2000W/956 380-415V B8 HRE	19.15	604108 00

Please contact your local Philips representative for additional configurations

Accessories

Precision aiming device

Product ID	EOC
ZVF403 PAD	140438 00

External louvre

Product ID	EOC
ZVF403 GS	239996 00

ArenaVision MVF404 sports flood-lighting luminaire with precision aiming device (ZVF403 PAD)

Side view of ArenaVision MVF404 with connection box on the bracket

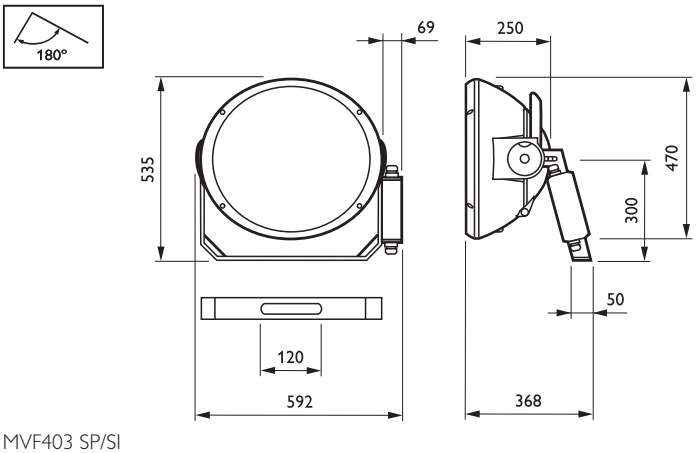
The AreaVision MVF404 floodlight is fitted with a Philips Short-Arc MASTER MHN-SE 2000W lamp.

Built-in safety knife connector system, which automatically disconnects the mains power when the rear-access back cover is opened.

Compact lamp with conventional hot-restrike ignitor (HRE)

	ArenaVision
Type	MVF403
Light source	HID: 1 x MASTER MHN-SA / XW / 1800 W 1 x MASTER MHN-LA / XWH / 1000 W
Lamp included	Yes (K or light colour 842 or 956)
Optic	Beam category A1 (A1) Beam category A2 (A2) Beam category A3 (A3) Beam category A4 (A4) Beam category A5 (A5) Beam category A6 (A6) Beam category A7 (A7) Beam category A8 (A8)
Optical cover	Front glass for downlighting (DOWN) and uplighting versions (UP)
Ignitor	Series (SI), 1000 W, integral Semi-parallel (SP), external on a seperate gear tray (ZVF320) Hot-restrike (HR), integral
Options	Aiming memory (AM) to safeguard the original aiming position of the luminaire during servicing Hot re-strike versions enabling immediate restoration of lighting after power supply failure Uplighting versions available for architectural lighting Special cable sleeve version for tropical regions
Materials and finishing	Housing and rear cover: non-corrosive, high-pressure die-cast aluminium Glass: chemically toughened, 1.6 mm thick (for downlighting versions), ceramic 3 mm thick (for uplighting versions) Mounting bracket: hot-dipped galvanised, painted steel Clips: stainless steel (to secure the back cover) Reflector: anodised and brightened 99.99% aluminium Finishing in raw aluminium

Installation	On mast headframe, ceiling, wall and floor mounting The lamp only needs to be installed mechanically; electrical connection achieved by closing the rear cover Precision aiming facilities at both top and bottom of the housing for use in conjunction with the ZVF403 PAD accessory Adjustment of mounting bracket: 360° Ambient temperature outdoor: MASTER MHN-SA 1800 W lamp version: 35°C (25°C indoor) MASTER MHN-LA 1000 W lamp version: 45°C (and indoor) Drag factor (Cx): 0.93 Projected area in 70° position: 0.20 m^2 Max adjustment from the horizontal: -90 / +90°
Maintenance	Lamp access by opening clips of rear cover (tool-less) Equipped with safety switch to cut off current when luminaire is opened (requires additional contactor - supplied by others) No internal cleaning required
Accessories	External louvre (ZVF403 GS), precision (ZVF403 PAD) and simple (ZVF403 SAD) aiming devices
Remarks	Equipped with aluminium connection box with series ignitor (SI) or semi-parallel ignitor (SP) installed on a separate gear tray (ZVF320) Colour filters for architectural lighting are available on request Wire mesh to prevent large glass falling out Pre-wired 220 - 240 V / 50 Hz gear trays (ZVF320) are available, to be ordered separately
Main applications	Outdoor sport stadiums, indoor sport halls, architectural floodlighting



MVF403 SP/SI

ArenaVision MVF403 sports flood-lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF403 MHN-LA1000W/956 A1 SI	14.50	502657 00
MVF403 MHN-LA1000W/956 A2 SI	14.50	502664 00
MVF403 MHN-LA1000W/956 A3 SI	14.50	502671 00
MVF403 MHN-LA1000W/956 A4 SI	14.50	502688 00
MVF403 MHN-LA1000W/956 A5 SI	14.50	502695 00
MVF403 MHN-LA1000W/956 A6 SI	14.50	502701 00
MVF403 MHN-LA1000W/956 A7 SI	14.50	502718 00
MVF403 MHN-LA1000W/956 A8 SI	14.50	502725 00
MVF403 MHN-LA1000W/956 A1 SP	14.15	502398 00
MVF403 MHN-LA1000W/956 A2 SP	14.15	502404 00
MVF403 MHN-LA1000W/956 A3 SP	14.15	502411 00
MVF403 MHN-LA1000W/956 A4 SP	14.15	502428 00
MVF403 MHN-LA1000W/956 A5 SP	14.15	502435 00
MVF403 MHN-LA1000W/956 A6 SP	14.15	502442 00
MVF403 MHN-LA1000W/956 A7 SP	14.15	502459 00
MVF403 MHN-LA1000W/956 A8 SP	14.15	502466 00

Please contact your local Philips representative for additional configurations

Accessories

Precision aiming device

Product ID	EOC
ZVF403 PAD	140438 00

External louvre

Product ID	EOC
ZVF403 GS	239996 00

Izmir Sirinyer Hippodrome, Izmir, Turkey
Photography: Kaan Verdioglu

PowerVision

PowerVision – high performance floodlighting

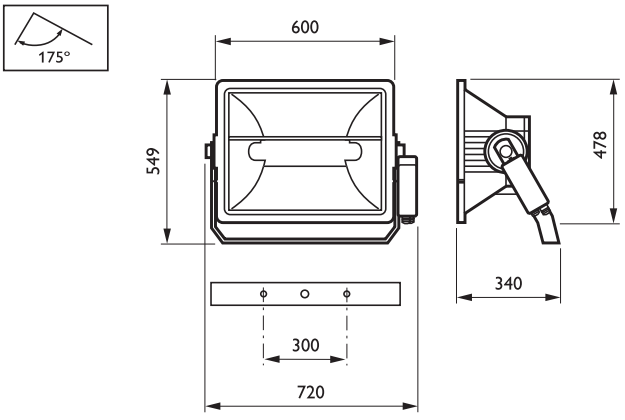
PowerVision is a high performance general purpose floodlight for sports lighting, general area lighting and facade illumination. This compact luminaire distributes a low-glare, wide, medium or narrow beam evenly, accurately and efficiently. With the MHN-LA 2000W/842 lamp, the natural colour rendering (Ra = 80) and comfortable atmosphere (Tc = 4200 K) are well suited to TV and filming. With the MHN-LA 2000W/956 lamp, the highest international CTV requirements (Ra = 90, Tc = 5600 K) are met. A built-in skirt in the reflector assembly minimises spill light and glare.

Integrated system of optics, gear and lamp in a single housing, ensuring high beam efficiency and a well controlled beam. Built-in skirt in reflector assembly minimises spill light and glare. The luminaire's rugged all-weather construction is designed for easy aiming, simple cleaning and speedy servicing.

www.philips.co.uk/lighting

	PowerVision
Type	MVF024
Light source	HID: 1 x MASTER MHN-FC / XW / 1000, 2000 W 1 x MASTER MHN-LA / XWH / 2000 W 1 x MASTER HPI-T Plus / E40 / 1000 W 1 x SON-T / E40 / 1000 W
Lamp included	Yes (K or light colour 740, 842 or 956)
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB)
Ignitor	Series (SI), integral Semi-parallel (SP), external on a separate gear tray (ZVF320) Parallel (PA), external on a separate gear tray (ZVF320)
Options	Connection box (H) with 1000 W lamp versions for higher ambient temperatures of indoor applications
Materials and finishing	Housing and rear cover: non-corrosive, high-pressure die-cast aluminium Glass: chemically toughened, 1.6 mm thick (for 2000 lamp versions), thermally hardened 3 mm thick (for 1000 W lamp versions) Mounting bracket: hot-dipped galvanised steel Reflector: anodised and brightened 99.99% aluminium Stainless steel clips Finishing in raw aluminium

Installation	On mast headframe, ceiling, wall and floor mounting For pre-aiming, protractor scale and simple aiming device integrated Ambient temperature outdoor: 35°C (40°C indoor for 1000 W lamp versions with external connection box) Drag factor (Cx): 1.08 Projected area in 65° position: 0.30 m^2 Max adjustment from the horizontal: -90 / +90° 360° adjustment of mounting bracket
Maintenance	Lamp access by opening clips of rear cover (tool-less) Safety switch to cut off current while opening the luminaire with 2000 lamp versions (requires additional contactor - supplied by others) No internal cleaning required
Accessories	External louvre (ZVF024)
Remarks	Equipped with aluminium connection box with ignitor, installed on a separate gear tray (ZVF320) Wire mesh to prevent large glass falling out (2000 lamp versions) in event of glass breakage Pre-wired 220 - 240 V / 50 Hz or 380 - 415 V / 50 Hz are available, to be ordered separately
Main applications	Sports, car parks, architectural floodlighting, industrial areas



MVF024

PowerVision MVF024 sports and area flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVF024 MHN-LA2000W/400V/842 WB	15.50	547848 00
MVF024 MHN-LA2000W/400V/842 MB	15.50	547831 00
MVF024 MHN-LA2000W/400V/842 NB	15.50	547824 00
MVF024 MHN-FC2000W/740 400V NB SI	15.50	291377 00
MVF024 MHN-FC2000W/740 400V MB SI	15.50	291384 00
MVF024 MHN-FC2000W/740 400V WB SI	15.50	291391 00
MVF024 MHN-FC1000W/740 230V NB SI	16.30	292527 00
MVF024 MHN-FC1000W/740 230V MB SI	16.30	292534 00
MVF024 MHN-FC1000W/740 230V WB SI	16.30	292541 00
MVF024 SON-T1000W K 230V NB	16.30	547763 00
MVF024 SON-T1000W K 230V MB	16.30	547787 00
MVF024 SON-T1000W K 230V WB	16.30	547800 00
MVF024 HPI-T1000W K 230V NB	16.30	547770 00
MVF024 HPI-T1000W K 230V MB	16.30	547794 00
MVF024 HPI-T1000W K 230V WB	16.30	547817 00

Please contact your local Philips representative for additional configurations

Accessories

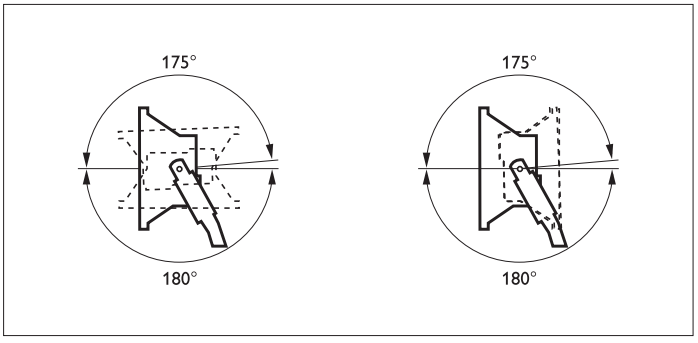
External anti-glare louvre (ZVF024 L)

Product ID	EOC
ZVF024 L	265759 00

Easy relamping without disturbing position

PowerVision MVF024 sports and area flood lighting luminaire with external anti-glare louvre (ZVF024 L)

Adjustment possibilities



Khalifa Olympic Stadium, Doha, Qatar.

Optivision

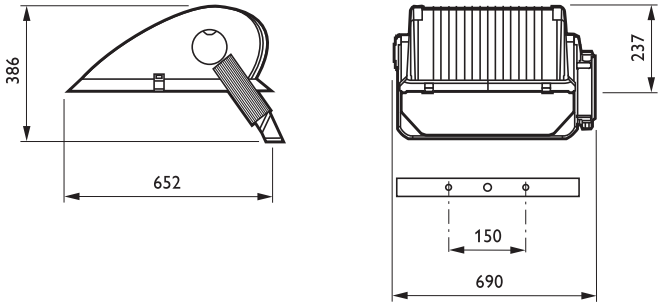
OptiVision – breakthrough downlight

OptiVision MVP507 is an asymmetric downlighting luminaire that combines compact dimensions with very high efficiency. Available with narrow, medium and wide beams for flexibility in application, it provides excellent control of spill light, glare and upward leakage of light. OptiVision MVP507 can accommodate metal halide lamps for good colour rendering or high pressure sodium lamps for economical operation.

www.philips.co.uk/lighting

	Optivision
Type	MVP507
Light source	HID: 1 x MASTER MHN-FC / XW / 1000, 2000 W 1 x MASTER MHN-LA / XWH / 1000, 2000 W 1 x MASTER HPI-T Plus / E40 / 1000 W 1 x MASTER SON-T PIA / E40 / 600 W 1 x SON-T / E40 / 600, 1000 W
Lamp included	Yes (K or light colour 643, 740, 842 or 956) No
Optic	Narrow beam (NB) Medium beam (MB) Wide beam (WB)
Ignitor	Series (SI), integral Semi-parallel (SP), external on a separate gear tray (ZVF320) Parallel (PA), external on a separate gear tray (ZVF320)
Materials and finishing	Housing: non-corrosive, high-pressure die-cast aluminium Glass: thermally hardened, 4 mm thick Mounting bracket: hot-dipped galvanised steel Clips and hinges: stainless steel Reflector: high-reflectivity and high-purity anodised aluminium Finishing in raw aluminium

Installation	On mast headframe, ceiling and wall mounting Protractor scale integrated for aiming Ambient temperature outdoor: 35°C Drag factor (Cx): 0.447 Projected area in horizontal position: 0.12 m^2 Max adjustment from the horizontal: -10 / +10°, downlighting only
Maintenance	Lamp access by opening the hinged front glass for in-position lamp replacement Built-in safety switch to cut off current while opening the luminaire, only in MHN-LA lamp versions No internal cleaning required
Accessories	Simple aiming device (ZVP507 SAD)
Remarks	Equipped with aluminium connection box with ignitor, installed on a separate gear tray (ZVF320) Bracket can be inverted to allow mounting above or below a cross arm Specially designed heat fins Pre-wired external 220 - 240 V / 50 Hz or 380 - 415 V / 50 Hz gear trays are available, to be ordered separately
Main applications	Sports, car parks, industrial areas



MVP507

OptiVision MVP507 sports and area flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVP507 MHN-LA2000W/842 400V NB	17.20	151984 00
MVP507 MHN-LA2000W/842 400V MB	17.20	151977 00
MVP507 MHN-LA2000W/842 400V WB	17.20	151960 00
MVP507 MHN-LA2000W/956 400V NB	17.20	152097 00
MVP507 MHN-LA2000W/956 400V MB	17.20	152080 00
MVP507 MHN-LA2000W/956 400V WB	17.20	152073 00
MVP507 MHN-FC2000W/740 400V NB SI	17.20	291346 00
MVP507 MHN-FC2000W/740 400V MB SI	17.20	291353 00
MVP507 MHN-FC2000W/740 400V WB SI	17.20	291360 00
MVP507 MHN-LA1000W/842 230V WB SI	17.50	546308 00
MVP507 MHN-FC1000W/740 230V NB SI	17.20	291490 00
MVP507 MHN-FC1000W/740 230V MB SI	17.20	291506 00
MVP507 MHN-FC1000W/740 230V WB SI	17.20	292510 00
MVP507 SON-T1000W K WB SI	17.20	546292 00
MVP507 SON-T600W K WB SI	17.20	546285 00

Please contact your local Philips representative for additional configurations

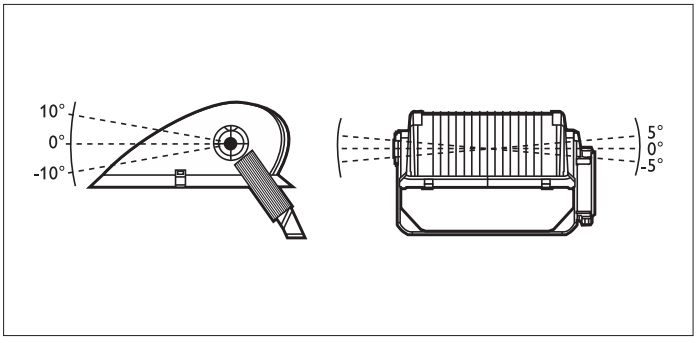
Accessories

Simple aiming device (ZVP507 SAD)

Product ID	EOC
ZVP507 SAD	154275 00

In addition, OptiVision can be mounted above or below a crossbar simply by inverting the bracket. This allows multiple lights to be fitted on each mast.

Adjustment possibilities



Marina Bay Street – Formula-1 Circuit, Singapore

The Marina Bay Circuit is fitted with nearly 1,500 lighting projectors, illuminating the 5,067 km track with light that is four times brighter than a football stadium at night. Because the track is a street circuit, the lighting system is temporary. The heights of the lights will vary to accommodate the trees lining the road. The lights are also set deliberately lower than the canopy, and will not interfere with underground public services such as water and gas pipes, and electricity cables. For this specific application, a special optical system has been developed in collaboration with Mr. Valerio Maioli, lihting consultant for the Formula 1 competitions.

Gear trays

ZVF320

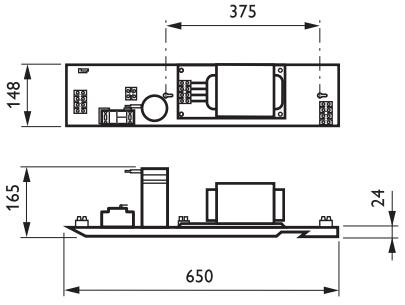
A range of prewired gear trays is available for higher wattage lamps. A gear tray consists of a metal tray on which electrical components (capacitors, ballast, ignitor), wiring and terminal blocks are mounted. These gear trays are normally used in combination with flood lights, which cannot integrate electrical components because of lack of space or because of high temperatures.

www.philips.co.uk/lighting

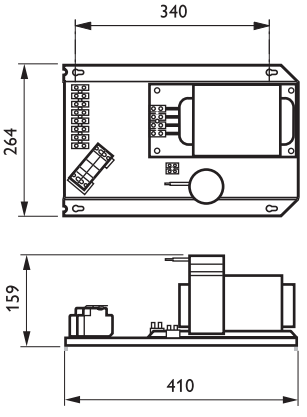
ZVF320 WV prewired gear tray in wide version

ZVF320 LV prewired gear tray in long version

	ZVF320
Type	ZVF320
Light source	HID 1 x MHN-SE / 2000 W 1 x MASTER MHN-SA / 1800 W 1 x MASTER MHN-LA / 1000, 2000 W 1 x MASTER MHN-FC / 1000, 2000 W 2 x MASTER HPI-T Plus / 400 W 1 x MASTER HPI-T Plus / 1000, 2000 W 2 x SON-T / 400, 600 W 1 x SON-T / 600, 1000 W
Supply voltage	240 V / 50 Hz and 380-415 V / 50 Hz Note: mains supply voltage may not fluctuate by more than -8 and +6% from the rated voltage of the ballast
Ignitor	Semi-parallel (SP) or parallel (PA) ignitors supplied on the gear tray provide high voltage pulses across the lamp Series (SI) ignitor versions of the gear trays are not supplied with the ignitor and the series ignitor is provided in the connection box attached on the bracket of the floodlight and enables long distance between floodlight and gear tray Versions for (non-electronic) hot re-strike (HR) are only available for MHN-SA 1800 W and MHN-LA 1000 W lamps in wide version only. The hot re-strike ignitor is located at the back of the luminaire and acts at the same time as a normal series ignitor. A timer fixed onto the gear tray controls the duration of the ignition
Capacitor	A set of parallel capacitors is used to obtain a power factor of the lamp/ballast circuit up to 0.90
Options	Available in two different sizes. A wide version (WV) for mounting in the individual gear box or in a custom made cabinet, which can house several gear trays, and a long version (LV) for mounting in poles or a cabinet Semi-parallel ignitors suitable for short distance (SD) or long distance (LD) depending on cable capacitance 360-400 V / 50 Hz version for MHN-LA 2000 W only Fuse (FU) (not for hot re-strike (HR) versions) Note: fuse option applies as 1-phase protection for 240 V versions and 2-phase protection for 380-415 V versions Through-wiring versions available only on request
Materials and finishing	Tray: pre-galvanised steel Wiring: solid copper conductors, 1.5 mm^2 insulated with PVC
Installation	Ready for mains connection. Only cabling needs to be installed between gear tray and luminaire Connectors made with screw terminals live, neutral, earth for mains supply Lamp connections clearly marked and to be used for cable cores up to 16 mm^2 Ambient temperature: 35°C
Accessories	Aluminium IP65 gear box, ZRP320 GRB-W (suitable for wide versions only) supplied with two PG13.5 cable glands accepting cable diameter between 6 and 12 mm^2.
Remarks	Gear tray provided with earth screw
Main applications	Poles, columns, cabinets, individual gear boxes



ZVF320 LV



ZWF320 WV

ZVF320 LV prewired gear tray in long version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
ZVF320 MHN-SE2000W 380-415V LV SI	18.08	503197 00
ZVF320 MHN-LA2000W 380-415V LV SI	16.28	503296 00
ZVF320 MHN-FC2000W 380-415V LV SI	16.28	605778 00
ZVF320 MHN-SA1800W 240V LV SP LD	19.79	503791 00
ZVF320 MHN-SA1800W 240V LV SP SD	19.79	503784 00
ZVF320 MHN-LA1000W 240V LV SI	11.63	503944 00
ZVF320 MHN-LA1000W 240V LV SP LD	11.71	503937 00
ZVF320 MHN-LA1000W 240V LV SP SD	11.71	503920 00
ZVF320 MHN-FC1000W 240V LV SI	11.63	606010 00
ZVF320 MHN-FC1000W 240V LV SP LD	11.71	605990 00
ZVF320 MHN-FC1000W 240V LV SP SD	11.71	605976 00
ZVF320 SON-T1000W 240V LV SI	11.67	504200 00
ZVF320 SON-T1000W 240V LV SP LD	11.67	504194 00
ZVF320 SON-T1000W 240V LV SP SD	11.67	504187 00
ZVF320 2xSON-T600W 240V LV SI	12.71	507133 00
ZVF320 SON-T600W 240V LV SI	7.08	507256 00
ZVF320 2xHPI-TP400W 240V LV PA	11.45	507027 00
ZVF320 2xSON-T400W 240V LV SI	11.35	507195 00

Please contact your local Philips representative for additional configurations

ZVF320 WV prewired gear tray in wide version

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
ZVF320 MHN-SE2000W 380-415V WV SI	18.08	503210 00
ZVF320 MHN-LA2000W 380-415V WV SI	16.28	503319 00
ZVF320 MHN-FC2000W 380-415V WV SI	16.28	605792 00
ZVF320 MHN-SA1800W 240V WV SP LD	19.79	503814 00
ZVF320 MHN-SA1800W 240V WV SP SD	19.79	503807 00
ZVF320 MHN-LA1000W 240V WV SI	11.63	503975 00
ZVF320 MHN-LA1000W 240V WV SP LD	11.71	503968 00
ZVF320 MHN-LA1000W 240V WV SP SD	11.71	503951 00
ZVF320 MHN-FC1000W 240V WV SI	11.63	606072 00
ZVF320 MHN-FC1000W 240V WV SP LD	11.71	606058 00
ZVF320 MHN-FC1000W 240V WV SP SD	11.71	606034 00
ZVF320 SON-T1000W 240V WV SI	11.63	504231 00
ZVF320 SON-T1000W 240V WV SP LD	11.67	504224 00
ZVF320 SON-T1000W 240V WV SP SD	11.67	504217 00
ZVF320 2xSON-T600W 240V WV SI	12.71	504316 00
ZVF320 SON-T600W 240V WV SI	7.08	504439 00
ZVF320 2xHPI-TP400W 240V WV PA	11.45	504118 00
ZVF320 2xSON-T400W 240V WV SI	11.35	504378 00

Please contact your local Philips representative for additional configurations

Accessories

Aluminium gearbox ZRP320 GRB-W for wide version gear bray

Product ID	EOC
ZRP320 GRB-W	141312 00

OptiFlood

OptiFlood – compact and complete

Good artificial lighting prevents uncontrolled stray light and light spillage beyond the boundaries of the area being illuminated, so that it does not affect people living close by or driving past.

Philips has a long tradition of excellence in environmentally friendly asymmetric floodlighting systems for general area lighting as well as security and industrial area lighting – e.g. with the successful launch of the OptiFlood MVP506 floodlight in 2004. Now the OptiFlood range is being extended with a new small version, MVP504, for low lamp wattages and application heights.

OptiFlood's extremely efficient best in class, optical system provides an accurately controlled light distribution – total light cut-off above the horizontal and a peak beam intensity at high angles – keeping obtrusive light to a minimum. Both the MVP504 and MVP506 versions are available with two types of reflector – asymmetric or road lighting POT optics – for flexibility in application and can accommodate CosmoPolis, metal halide lamps for good colour rendering or high pressure sodium lamps for economical operations.

With its compact shape and aesthetically pleasing design, OptiFlood can be used in applications where design and appearance are just important as technical performance. In the design, attention has been focused not only on the overall form, but also on the detailing as well. This has led to integrated 'hidden' hinges, angle adjustment designed as part of the body and a restyled mounting bracket, angled to allow more aesthetic integration onto columns. The OptiFlood range can be supplied as standard in two distinct finishes: in the 'raw' aluminium state or in ultra dark grey paint to match Philips' urban lighting ranges. Other RAL colours are available on request.

www.philips.co.uk/lighting

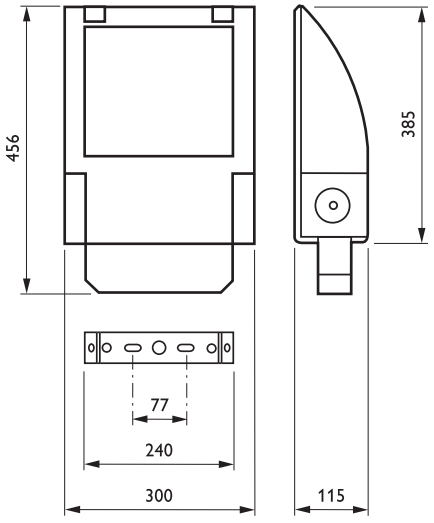
OptiFlood MVP504

OptiFlood MVP506

	OptiFlood
Type	MVP504
Light source	HID: 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTERColour CDM-T / G12 / 35, 70 W 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 45, 60, 90, 140 W 1 x MASTER CityWhite CDO-TT / E27 / 70 W 1 x MASTER SON-T PIA Plus / E27 / 50, 70 W
Lamp included	Yes (K or light colour 828 or 942)
Ballast (integrated)	Electro magnetic 240 V / 50 Hz Electronic, 220-240 V / 50-60 Hz: Electronic (EB)
Optic	CosmoPolis open optic R60 (OC) Faceted road lighting POT (OR) for 35 and 70 W CDM-T lamp versions Asymmetrical (A) for 45-140 W lamp versions, except CDM-T lamp version
Ignitor	Semi-parallel, self-stopping (ST)
Options	Safety class II

Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive Glass: thermally hardened, 4 mm thick Clips: stainless steel Reflector: purity, anodised aluminium, high reflective
Colour	'Raw' aluminium or ultra dark grey (GR) Other RAL colours available on request
Installation	On mast head frame, ceiling, wall and floor mounting Front cover hinges for easy access Aiming indicator ring is integrated on housing and bracket Ambient temperature outdoor: 35°C (25°C indoor) Recommended mounting height: 4 - 6 m Adjustable tilt angle: 15° CosmoPolis optic (OC): 6 positions Max windage area: 0.04 m^2 Max SCx value by side: 0.037 m^2 Max adjustment from the horizontal: - 180 to +180° Max vertical aiming: - 90 to +105° Uplighting for indoor only
Maintenance	Lamp and gear unit access by opening the hinged front glass for in position lamp replacement No internal cleaning required
Accessories	Wire guard Styled pole mounting brackets (single, double, triple and quadruple) available on request
Main applications	General area, car parks, architectural floodlighting

IP66



MVP504

Front cover fully open, providing excellent access to all components

When opened, front cover hinges back to provide full access to gear and lamp compartment

Front cover is held in place by two stainless steel clips, and can be released easily using a screwdriver

OptiFlood MVP504 area lighting luminaire, aluminium

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVP504 SON-TPP50W K 240V I A ST	7.25	292824 00
MVP504 SON-TPP70W K 240V I A ST	7.35	292855 00
MVP504 SON-TPP70W K EB I A	6.75	292831 00
MVP504 CDO-TT70W K 240V I A ST	7.35	292763 00
MVP504 CDO-TT70W K EB I A	6.75	292749 00
MVP504 CDM-TD70W/942 240V I A ST	7.30	292725 00
MVP504 CDM-TD70W/942 EB I A	6.90	292701 00
MVP504 CDM-TD150W/942 EB I A	6.70	292732 00
MVP504 CPO-TW45W K EB I A	6.75	292770 00
MVP504 CPO-TW60W K EB I A	6.75	292787 00
MVP504 CPO-TW90W K EB I A	6.75	292794 00
MVP504 CPO-TW140W K EB I A	6.75	292800 00
MVP504 CDM-T35W/942 EB ITP-S	6.90	293340 00
MVP504 CDM-T70W/942 240V ITP-S ST	7.30	293395 00
MVP504 CDM-T70W/942 EB ITP-S	6.90	293371 00
MVP504 CPO-TW45W K EB I	7.05	293401 00
MVP504 CPO-TW60W K EB I	7.05	293418 00
MVP504 CPO-TW90W K EB I	7.05	293425 00
MVP504 CPO-TW140W K EB I	7.05	293432 00

Please contact your local Philips representative for additional configurations

OptiFlood MVP504 sports and area lighting luminaire, ultra dark grey

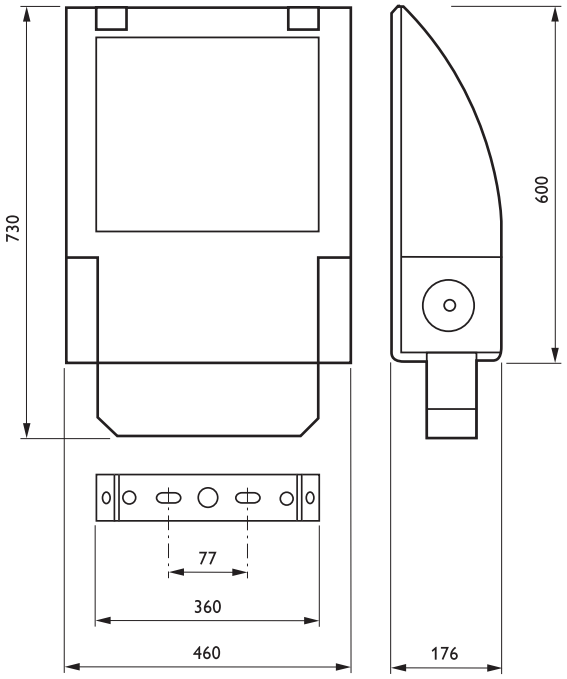
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVP504 SON-TPP50W K 240V I A GR ST	7.25	293142 00
MVP504 SON-TPP70W K 240V I A GR ST	7.35	293173 00
MVP504 SON-TPP70W K EB I A GR	6.75	293159 00
MVP504 CDO-TT70W K 240V I A GR ST	7.35	293081 00
MVP504 CDO-TT70W K EB I A GR	6.75	293067 00
MVP504 CDM-TD70W/942 240V I A GR ST	7.30	293043 00
MVP504 CDM-TD70W/942 EB I A GR	6.90	293029 00
MVP504 CDM-TD150W/942 EB I A GR	6.70	293050 00
MVP504 CPO-TW45W K EB I A GR	6.75	293098 00
MVP504 CPO-TW60W K EB I A GR	6.75	293104 00
MVP504 CPO-TW90W K EB I A GR	6.75	293111 00
MVP504 CPO-TW140W K EB I A GR	6.75	293128 00
MVP504 CDM-T35W/942 EB ITP-S GR	6.90	293548 00
MVP504 CDM-T70W/942 240V ITP-S GR ST	7.30	293593 00
MVP504 CDM-T70W/942 EB ITP-S GR	6.90	293579 00
MVP504 CPO-TW45W K EB I GR	7.05	293609 00
MVP504 CPO-TW60W K EB I GR	7.05	293616 00
MVP504 CPO-TW90W K EB I GR	7.05	293623 00
MVP504 CPO-TW140W K EB I GR	7.05	293630 00

Please contact your local Philips representative for additional configurations

	OptiFlood
Type	MVP506
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 140 W 1 x MASTERColour CDM-T / G12 / 150, 250 W 1 x MASTER CityWhite CDO-TT / E40 / 150, 250 W 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x MASTER SON-T PIA Plus / E40 / 150, 250, 400, 600 W
Lamp included	Yes (K or light colour 828 or 942)
Gear (integrated)	Electro magnetic 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, 150 and 250 W CDM-T, CDO-TT and SON-T lamp versions Asymmetrical (A) for 150 - 600 W lamp versions, except CDM-T lamp version
Ignitor	Semi-parallel, self-stopping (ST)
Options	Safety class II
Materials and finishing	Housing: high-pressure die-cast aluminium, non-corrosive Glass: thermally hardened, 4 mm thick Clips: stainless steel Reflector: purity, anodised aluminium, high reflective
Colour	'Raw' aluminium or ulbra dark grey (GR) Other RAL colours available on request

Installation	On mast head frame, ceiling, wall and floor mounting Front cover hinges for easy access Aiming indicator ring is integrated on housing and bracket Ambient temperature outdoor: 35°C (25°C indoor) Recommended mounting height: 8 - 14 m Adjustable tilt angle: 15° Max SCx value by side: 0.10 m^2 Max adjustment from the horizontal: - 180 to +180° Max vertical aiming: - 90 to +105° Uplighting for indoor only
Maintenance	Lamp and gear unit access by opening the hinged front glass for in position lamp replacement No internal cleaning required
Accessories	Wire guard, optical skirt Styted pole mounting brackets (single, double, triple and quadruple) available on request
Main applications	Sports, general area, car parks, architectural floodlighting



MVP506

OptiFlood MVP506 sports and area lighting luminaire, aluminium

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVP506 SON-TPP150W K 240V A ST	18.20	721859 00
MVP506 SON-TPP250W K 240V A ST	19.30	721866 00
MVP506 SON-TPP400W K 240V A ST	20.70	721873 00
MVP506 CDO-TT150W K 240V A ST	18.20	722047 00
MVP506 HPI-TP250W K 240V A ST	19.30	721880 00
MVP506 HPI-TP400W K 240V A ST	20.70	721897 00
MVP506 MAX600W-E40 A	16.40	720227 00
MVP506 SON-TPP150W K 240V OR ST	18.20	724515 00
MVP506 SON-TPP250W K 240V OR ST	18.20	724522 00
MVP506 CDO-TT150W K 240V OR ST	18.20	724492 00
MVP506 CDO-TT250W K 240V OR ST	18.20	724508 00
MVP506 CDM-T150W/942 K 240V OR ST	18.20	722054 00
MVP506 CDM-T250W/830 K 240V OR ST	18.20	723785 00

Please contact your local Philips representative for additional configurations

OptiFlood MVP506 sports and area lighting luminaire, ulbra dark grey (GR)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MVP506 SON-TPP150W K 240V A GR ST	18.20	722061 00
MVP506 SON-TPP250W K 240V A GR ST	19.30	722078 00
MVP506 SON-TPP400W K 240V A GR ST	20.70	722085 00
MVP506 SON-TPP600W K 240V A GR ST	21.60	724645 00
MVP506 CDO-TT150W K 240V A GR ST	18.20	722115 00
MVP506 HPI-TP250W K 240V A GR ST	19.30	722092 00
MVP506 HPI-TP400W K 240V A GR ST	20.70	722108 00
MVP506 MAX600W-E40 A GR	16.40	720302 00
MVP506 SON-TPP150W K 240V OR GR ST	18.20	724553 00
MVP506 SON-TPP250W K 240V OR GR ST	18.20	724560 00
MVP506 CDO-TT150W K 240V OR GR ST	18.20	724539 00
MVP506 CDO-TT250W K 240V OR GR ST	18.20	724546 00
MVP506 CDM-T150W/942 K 240V OR GR ST	18.20	722122 00
MVP506 CDM-T250W/830 K 240V OR GR ST	18.20	723792 00

Please contact your local Philips representative for additional configurations

Accessories

Skirt

Product ID	EOC
ZVP506 SK	723075 99

Ease of installation and maintenance

Access to the interior to be gained via the two stainless steel clips

The fully opening front face provides excellent access to all components

MINI 300 Stealth

MINI 300 Stealth – visual power

MINI 300 Stealth is a range of extremely efficient luminaires that can be used to illuminate large areas with direct and/or indirect light. Their high light output ratio is attributable to a patented white reflector coating, which offers up to 35% higher energy efficiency (W/m²) than traditional lighting systems. Optimal lighting results are achieved thanks to the good balance of horizontal and vertical light levels combined with the white light and good colour rendering of the lamp.

MINI 300 Stealth is supplied with an asymmetric medium-beam, wide or narrow-beam reflector. It is also available with the road lighting POT optic, making it suitable for site perimeter, parking and open area lighting. The light source is shielded by a patented louvre system, minimising glare.

MINI 300 Stealth is suitable for pole (DGP333), ceiling (DWP333), wall (DVP333) or surface mounting.
Within the MINI 300 product family there is also a dedicated under canopy version (MINI 300 Cube), e.g. petrol stations.

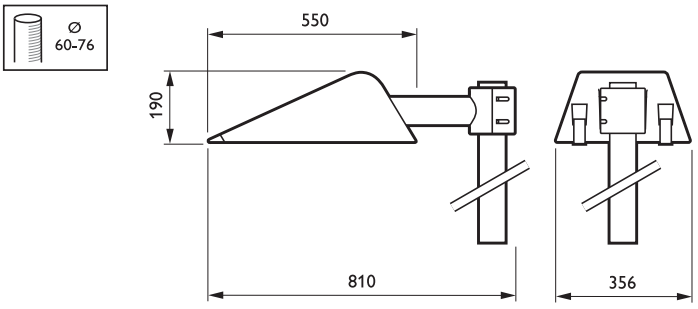
www.philips.co.uk/lighting

MINI 300 Stealth DGP333 post mounted luminaire

MINI 300 Stealth DVP333 flood lighting luminaire

MINI 300 Stealth DWP333 wall mounted flood lighting luminaire

	MINI 300 Stealth
Type	DGP333 (pole mounted version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W 1 x MASTERColour CDM-T / G12 / 70, 150, 250 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W
Lamp included	Yes (K or light colour 728, 830 or 942)
Gear (integrated)	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB)
Optical cover	Glass
Ignitor	Semi-parallel (SP)
Options	Auxiliary lamp (AUX) for instant switch-on Hot-restrike (HR), for CDM-TD 150 W lamp version only
Materials and finishing	Housing and front frame: high-pressure die-cast aluminium Glass: thermally toughened, 3 mm thick (held by the front frame) Mounting bracket: high-pressure die-cast and extruded aluminium Clips: stainless steel Reflector: aluminium, specially coated
Colour	Silver (SI), black (BK), white (WH) or grey (GR) Other RAL colours available on request
Installation	Pole mounting: axial entry Ø 60 / 76 mm Recommended mounting height: 4 - 8 m Mounting unit is supplied in two halves for ease of installation Cable entry via PG13.5 cable glands Ambient temperature outdoor: 35°C (25°C indoor) Drag factor (Cx): 1.20 Projected area in horizontal position: 0.20 m^2 Max adjustment from the horizontal: 0°
Maintenance	Hinged front glass with quick-release clips for in-position lamp replacement No internal cleaning required
Remarks	Humidity inside the luminaire is controlled via a 'gore' valve Suitable for 230 or 240 V operation by changing the tapping on the terminal block Delivered as standard with lamp, ballast and post top caps (76 and 60 mm)
Main applications	Urban and public areas, shopping malls, transportation hubs



DGP333

MINI 300 Stealth DGP333 post mounted luminaire

Preferred selection

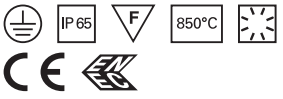
Product ID	Weight (kg)	European Order Code (EOC)
DGP333 CDM-TD150W/942 IC A-WB SI	10.50	249998 00
DGP333 CDM-TD150W/942 IC A-MB SI	10.50	250000 00
DGP333 CDM-TD150W/942 IC A-NB SI	10.50	378001 00
DGP333 CDM-T250W/830 IC A-NB SI	10.50	382459 00
DGP333 CDM-T250W/830 IC A-MB SI	10.50	382183 00
DGP333 CPO-TW60W K EB OR SI	10.50	385641 00
DGP333 CPO-TW140W K EB OR SI	10.50	385658 00

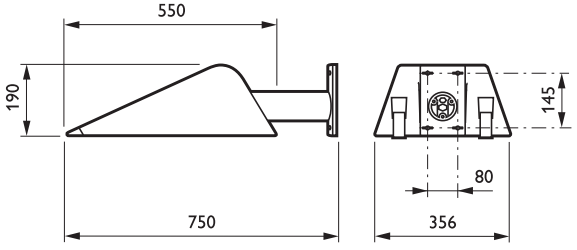
Please contact your local Philips representative for additional configurations

For twin 'back to back' luminaire installation

For installation and lamp replacement, easy access is possible by opening the front frame, which holds the tempered front glass

	MINI 300 Stealth
Type	DWP333 (wall mounted)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W 1 x MASTERColour CDM-T / G12 / 70, 150, 250 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W
Lamp included	Yes (K or light colour 728, 830 or 942)
Gear (integrated)	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB)
Optical cover	Glass
Ignitor	Semi-parallel (SP)
Options	Auxiliary lamp (AUX) for instant switch-on Hot-restrike (HR), for CDM-TD 150 W version only Special coating (SWP) to cope with chlorine environments (e.g. swimming pools) Frosted glass (dedicated for e.g. showrooms)
Materials and finishing	Housing and front frame: high-pressure die-cast aluminium Glass: thermally toughened, 3 mm thick (held by the front frame) Mounting bracket: high-pressure die-cast and extruded aluminium Clips: stainless steel Reflector: aluminium, specially coated
Colour	Silver (SI), black (BK), white (WH) or grey (GR) Other RAL colours available on request
Installation	Wall mounting Recommended mounting height: 4 - 8 m Suitable for direct and indirect lighting Cable entry via PG13.5 cable glands Ambient temperature outdoor: 35°C (25°C indoor) Drag factor (Cx): 1.20 Projected area in horizontal position: 0.20 m^2 Max. adjustment from the horizontal: 0°
Maintenance	Hinged front glass with quick-release clips for in-position lamp replacement No internal cleaning required
Accessories	Wall mounting bracket, ZWP333 MBW
Remarks	Humidity inside the luminaire is controlled via a 'gore' valve Suitable for 230 or 240 V operation by changing the tapping on the terminal block Delivered as standard with lamp, ballast and design bracket Dedicated versions available for pole mounting (DGP333) and flood lighting (DVP333)
Main applications	Urban and public areas, shopping malls, transportation hubs, various indoor applications





DWP333

MINI 300 Stealth DWP333 wall mounted area flood lighting luminaire

Preferred selection

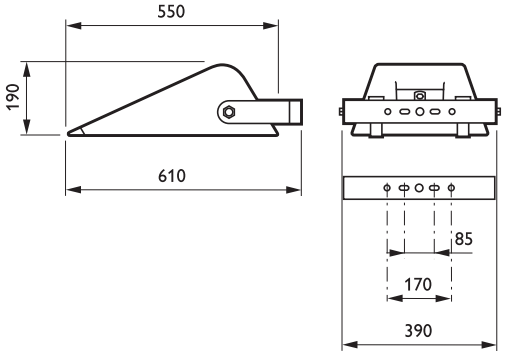
Product ID	Weight (kg)	European Order Code (EOC)
DWP333 CDM-TD150W/942 IC A-NB SI	10.00	378032 00
DWP333 CDM-TD150W/942 IC A-MB SI	10.00	378025 00
DWP333 CDM-TD150W/942 IC A-WB SI	10.00	378018 00
DWP333 CDM-T250W/830 IC A-NB SI	10.00	382466 00
DWP333 CDM-T250W/830 IC A-MB SI	10.00	382190 00
DWP333 CPO-TW60W K EB OR SI	10.50	385665 00
DWP333 CPO-TW140W K EB OR SI	10.50	385672 00

Please contact your local Philips representative for additional configurations

MINI 300 Stealth DWP333 wall mounted area floodlighting luminaire

For installation and lamp replacement, easy access is possible by opening the front frame, which holds the tempered front glass

	MINI 300 Stealth
Type	DVP333 (wall or surface mounted version)
Light source	HID: 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W 1 x MASTERColour CDM-T / G12 / 70, 150, 250 W 1 x MASTERColour CDM-TD / RX7s / 70, 150 W
Lamp included	Yes (K or light colour 728, 830 or 942)
Gear (integrated)	Electromagnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Open CT-POT (OR) optic for CosmoPolis, CDO and SON lamps Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB)
Optical cover	Glass
Ignitor	Semi-parallel (SP)
Options	Auxiliary lamp (AUX) for instant switch-on Hot-restrike (HR), for CDM-TD 150 W lamp version only
Materials and finishing	Housing and front frame: high-pressure die-cast aluminium Glass: thermally toughened, 3 mm thick (held by the front frame) Mounting bracket: bended aluminium, 10 mm thick Clips: stainless steel Reflector: aluminium, specially coated
Colour	Silver (SI), black (BK), white (WH) or grey (GR) Other RAL colours available on request
Installation	Ceiling, wall or floor mounting Suitable for direct and indirect lighting Cable entry via PG13.5 cable glands Ambient temperature outdoor: 35°C (25°C indoor) Drag factor (Cx): 1.20 Projected area in horizontal position: 0.20 m^2 Max. adjustment from the horizontal: -90 to +90°
Maintenance	Hinged front glass with quick-release clips for in-position lamp replacement No internal cleaning required
Remarks	Humidity inside the luminaire is controlled via a 'gore' valve Suitable for 230 or 240 V operation by changing the tapping on the terminal block
Main applications	Urban and public areas, shopping malls, transportation hubs, security



DVP333

MINI 300 Stealth DVP333 wall or surface mounted flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DVP333 CDM-TD150W/942 IC A-NB SI	10.50	378063 00
DVP333 CDM-TD150W/942 IC A-MB SI	10.50	378056 00
DVP333 CDM-TD150W/942 IC A-WB SI	10.50	378049 00
DVP333 CDM-T250W/830 IC A-NB SI	10.50	382473 00
DVP333 CDM-T250W/830 IC A-MB SI	10.50	382206 00
DVP333 CPO-TW60W K EB OR SI	10.50	385689 00
DVP333 CPO-TW140W K EB OR SI	10.50	385696 00

Please contact your local Philips representative for additional configurations

Eindhoven, The Netherlands

SNF100/300

SNF100/300 – general purpose floodlights

SNF100/300 are compact, sturdy, general purpose floodlights, which are particularly suited to small/medium scale area lighting. Their all-weather construction is designed for easy aiming, simple cleaning and speedy servicing.

High grade reflectors provide a highly efficient light beam. Wall, ceiling and surface mountings with wide ranges of adjustment offer directional versatility for both down and uplighting. Horizontal and vertical barndoor sets are available as accessories to shield the lamp from direct view, reduce glare and screen off spill light.

www.philips.co.uk/lighting

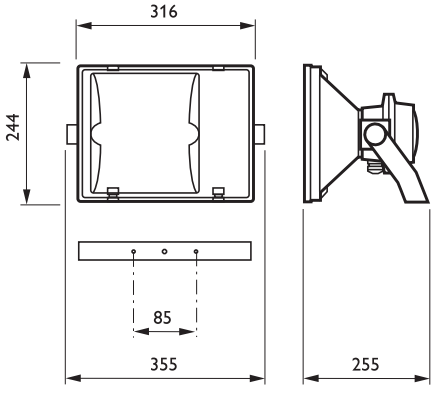
SNF100 sports and area flood lighting luminaire

SNF300 sports and area flood lighting luminaire

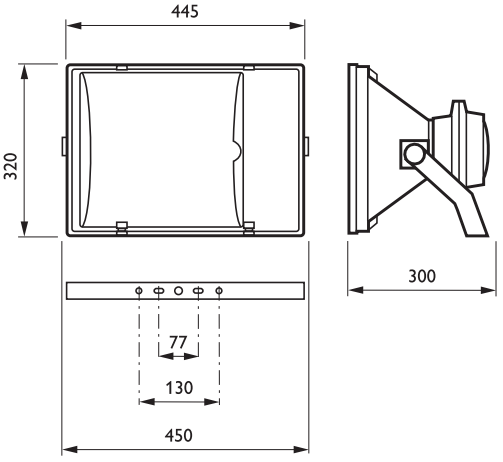
	SNF100/300
Type	SNF100 (small version) SNF300 (large version)
Light source	HID: SNF100 1 x MASTER SDW-T / PG12-1 / 100 W 1 x MHN/W-TD / RX7s / 70, 150 W 1 x SON-T / E27 / 70 W 1 x SON-T / E40 / 100, 150 W SNF300 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x SON-T / E40 / 250, 400 W 1 x SON H / E40 / 400 W
Lamp included	Yes (K) No
Mains voltage	240 V / 50 Hz
Ignitor	Semi-parallel (SP)
Materials and finishing	Housing: polycarbonate, injection-moulded, heat- and UV-stabilised Rear cover: ABS, non-corrosive, injection-moulded, heat- and UV-stabilised Gear box: glass-fibre-reinforced polyamide Glass: thermally hardened, 4 mm thick Mounting bracket: hot-dipped galvanised steel Hinge clips, protractor and fixings: stainless steel Reflector: 99.8% hammered aluminium, brightened and anodised

Colour	Black Mounting caps: red
Installation	Ceiling, wall or floor mounting Rear access for mains connection, cable entry via PG13.5 cable gland Ambient temperature outdoor: 35°C Drag factor (Cx): 1.18 Projected area in horizontal position: 0.08 m^2 (SNF100), 0.14 m^2 (SNF300) Max adjustment possibility from the horizonal: -90 to +70°
Maintenance	Hinged front glass with quick-release clips for in-position lamp replacement No internal cleaning required
Accessories	Horizontal and vertical barndoor sets, mounting brackets for mounting on 60 - 76 mm poles
Remarks	Protractor scale and daylight aiming sight for easy pre-alignment
Main applications	Architectural and industrial areas, parks, sculptures, security

IP 55



SNF100



SNF300

SNF100 sports and area flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SNF100 SON-T70W K 240V II SP	5.00	002699 00
SNF100 SON-T100W K 240V II SP	5.00	002682 00
SNF100 SON-T150W K 240V II SP	5.90	002828 00

Please contact your local Philips representative for additional configurations

SNF300 sports and area flood lighting luminaire

Preferred selection

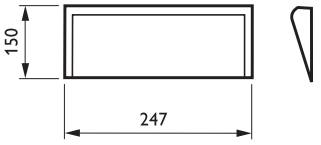
Product ID	Weight (kg)	European Order Code (EOC)
SNF300 SON-T250W K 240V II SP	9.00	003108 00
SNF300 SON-T400W K 240V II SP	10.10	003382 00
SNF300 MAX400W-E40 II	4.50	016115 00

Please contact your local Philips representative for additional configurations

Accessories

SNF100 sports and area flood lighting luminaire with set of two vertical silicon barndoors (ZNF100 BD-S)

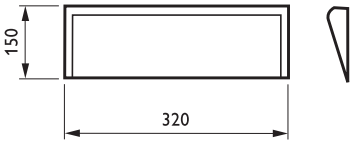
Product ID	Weight (kg)	European Order Code (EOC)
ZNF100 BD-S	0.60	267081 00



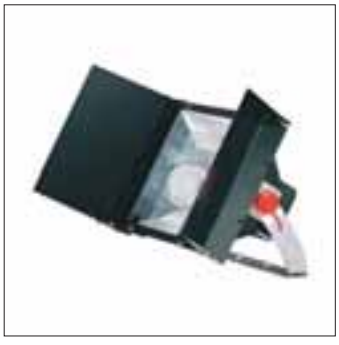
ZNF100 BD-S

SNF100 sports and area flood lighting luminaire with set of two horizontal silicon barndoors (ZNF100 BD-L)

Product ID	Weight (kg)	European Order Code (EOC)
ZNF100 BD-L	0.70	267067 00

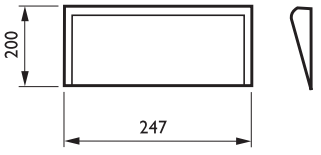


ZNF100 BD-L



SNF300 sports and area flood lighting luminaire with set of two vertical silicon barndoors (ZNF300 BD-S)

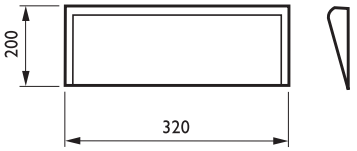
Product ID	Weight (kg)	European Order Code (EOC)
ZNF300 BD-S	0.80	267104 00



ZNF300 BD-S

SNF300 sports and area flood lighting luminaire with set of two horizontal silicon barndoors (ZNF300 BD-L)

Product ID	Weight (kg)	European Order Code (EOC)
ZNF300 BD-L	1.00	267098 00

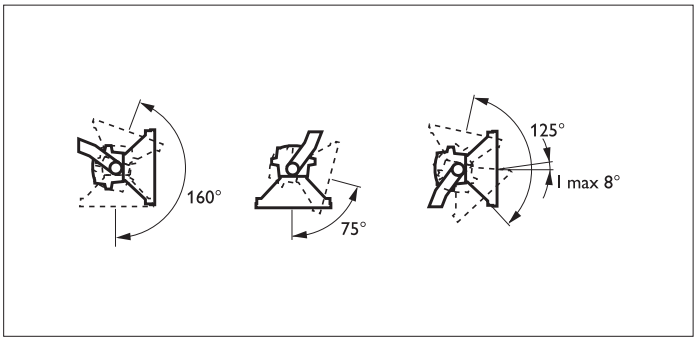


ZNF300 BD-L

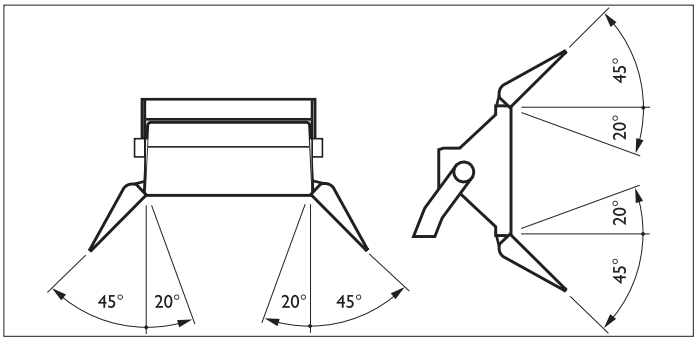
The Caryatides, Athens, Greece
Lighting design: Pierre Bideau

Product ID	Description	Weight (kg)	European Order Code (EOC)
ZNF300 MB	U-shaped pole mounting bracket	0.42	724775 99

Adjustment possiblities.



Adjustment possibilities



Tempo 2 / Tempo 3

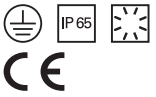
Tempo 2, Tempo 3 – versatile floodlights

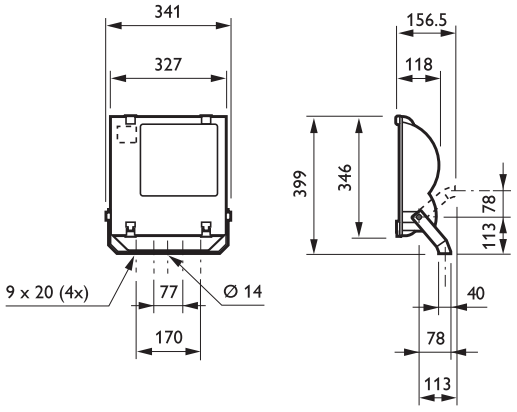
Tempo is a range of compact, sturdy, general purpose floodlights particularly suited to small to medium scale area or surface lighting. A high grade symmetrical or asymmetrical reflector projects a highly efficient light beam. A universal mounting bracket allows ceiling, wall or surface mounting with a wide range of adjustment for both down and uplighting. Tempo's all-weather construction is designed for simple cleaning and speedy servicing. Accessories include a bracket for mounting on 60-76 mm poles, a visor and a louvre.

www.philips.co.uk/lighting

	Tempo 2
Type	Tempo 2 MWF230
Light source	HID: 1 x MASTERColour CDM-TD / RX7s / 150 W 1 x MHN-TD / RX7s / 70, 150 W 1 x SON-T / E40 / 100, 150 W
Lamp included	YES (K or light colour 830)
Gear and compensation (integrated)	Conventional, 240 V / 50 Hz
Optic	Symmetrical (S) or asymmetrical (A)
Materials and finishing	Housing: non corrosive, high pressure die-cast aluminium Glass: thermally hardened, 4 mm thick Gasket: premium bonded silicone Mounting bracket: stainless steel Fixation clips: stainless steel Reflector: Pre-anodised, high purity aluminium

Colour	High grade black polyester
Installation	Ceiling, wall or floor mounting Cable entry via M20 cable gland Front glass with quick-release hinge clips for in-position lamp replacement. Maximum adjustment from horizontal: 175°
Maintenance	Housing dustproof and waterproof to IP65; no internal cleaning required.
Main applications	Area, facade, billboard, architectural lighting





Preferred selection

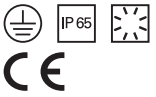
Product ID	Weight (kg)	European Order Code (EOC)
SWF230 SON-TP100W K 240V A	6.60	929286 00
SWF230 SON-TP100W K 240V S	6.60	929224 00
SWF230 SON-T150W K 240V A	6.90	929293 00
SWF230 SON-T150W K 240V S	6.90	929231 00
MWF230 MHN-TD150W K 240V A	6.90	929316 00
MWF230 MHN-TD150W K 240V S	6.90	929255 00
MWF230 CDM-TD150W/830 240V A	6.90	723099 00

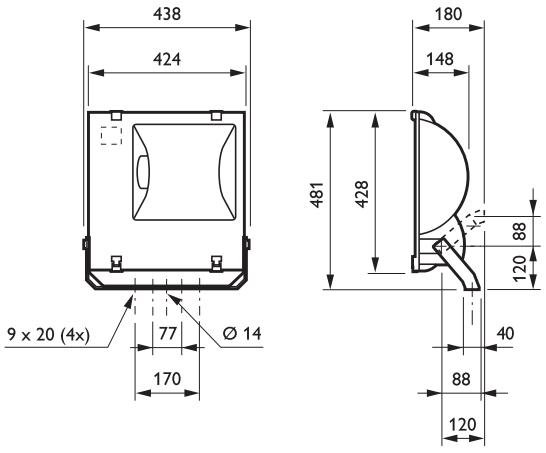
Please contact your local Philips representative for additional configurations

Accessories

Product ID	EOC
ZWF230 GS	932521 00
ZWF230 L	932538 00

	Tempo 3
Type	Tempo 3 MWF330
Light source	HID: 1 x MASTER HPI-T Plus / E40 / 250, 400 W 1 x SON-T / E40 / 250, 400 W
Lamp included	YES (K or light colour 830)
Gear and compensation (integrated)	Conventional, 240 V / 50 Hz
Optic	Symmetrical (S) or asymmetrical (A)
Materials and finishing	Housing: non corrosive, high pressure die-cast aluminium Glass: thermally hardened, 4 mm thick Gasket: premium bonded silicone Mounting bracket: stainless steel Fixation clips: stainless steel Reflector: Pre-anodised, high purity aluminium
Colour	High grade black polyester
Installation	Ceiling, wall or floor mounting Cable entry via M20 cable gland Front glass with quick-release hinge clips for in-position lamp replacement. Maximum adjustment from horizontal: 175°
Maintenance	Housing dustproof and waterproof to IP65; no internal cleaning required.
Main applications	Area, facade, billboard, architectural lighting





MWF330

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SWF330 SON-T250W K 240V A	10.00	929590 00
SWF330 SON-T250W K 240V S	10.00	929552 00
SWF330 SON-T400W K 240V A	11.70	929583 00
SWF330 SON-T400W K 240V S	11.70	929545 00
MWF330 HPI-TP250W K 240V A	9.20	929613 00
MWF330 HPI-TP250W K 240V S	9.20	929576 00
MWF330 HPI-TP400W K 240V A	10.10	929606 00
MWF330 HPI-TP400W K 240V S	10.10	929569 00

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	EOC
ZWF330 GS	Visor	932545 00
ZWF330 L	Louvre	932552 00

The Hague, The Netherlands

QVF415/416/417

QVF415/416/417 – compact, sturdy and economical

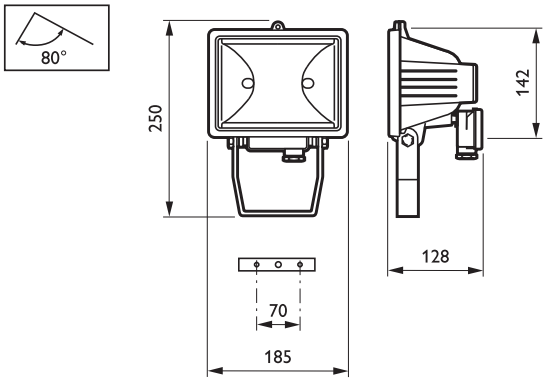
QVF415/416/417 is a range of compact, sturdy and economical general-purpose floodlights incorporating halogen lamps. Their all-weather construction is designed for simple cleaning and speedy servicing. High grade reflectors provide an efficient beam for either down or uplighting. The luminaire is adjustable over 80° up and down. Barndoor sets and vertical louvres are available as optional accessories to shield the lamp from direct view, reduce glare and screen off spill light. A universal mounting bracket allows wall or surface mounting.

www.philips.co.uk/lighting

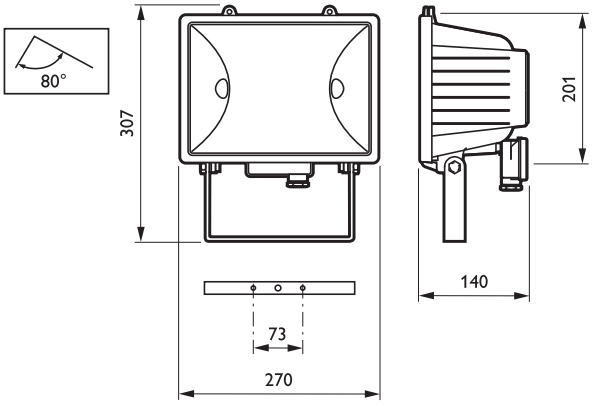
	QVF415/416/417
Type	QVF415 (small version) QVF416 (medium version) QVF417 (large version)
Light source	Halogen: QVF415 1 x Plusline Small / R7s / 300, 500 W QVF416 1 x Plusline Large / R7s / 750, 1000 W QVF417 1 x Plusline large / R7s / 1500 W
Lamp included	No
Mains voltage	240 V
Materials and finishing	Housing: die-cast aluminium, non-corrosive Glass: thermally hardened, 5 mm thick (held by die-cast aluminium frame) Mounting bracket: electrophoretic steel Screws: stainless steel, corrosion-resistant Reflector: aluminium, brightened and anodised Connection block: injection-moulded polyamide, heat-resistant
Colour	Black (BK)

Installation	Wall or surface mounting Rear access for mains connection, cable entry via PG11 cable gland Ambient temperature outdoor: 25°C Max adjustment from the horizonal: 80° QVF415: Projected area in horizontal position: 0.028 m^2 QVF416: Projected area in horizontal position: 0.075 m^2 QVF417: Projected area in horizontal position: 0.084 m^2
Maintenance	Hinged front glass for in-position lamp replacement
Accessories	Barndoor sets, vertical louvres
Remarks	Adjustable over 80° up and down Lamp holders outside the reflector compartment
Main applications	Architectural, shopping and industrial areas, parks, gardens, pathways, security

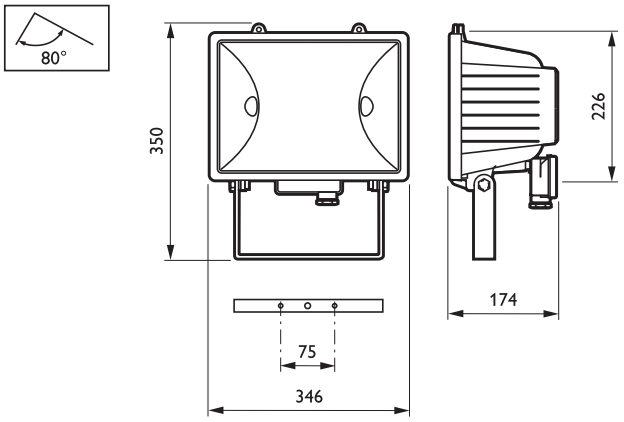
IP55 IK07



QVF415



QVF416



QVF417

QVF415 area flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
QVF415 HAL-TDS500W BK	0.97	243832 99

Please contact your local Philips representative for additional configurations

QVF416 area flood lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
QVF416 HAL-TDL1000W BK	1.66	276212 00

Please contact your local Philips representative for additional configurations

QVF417 area flood lighting luminaire

Preferred selection

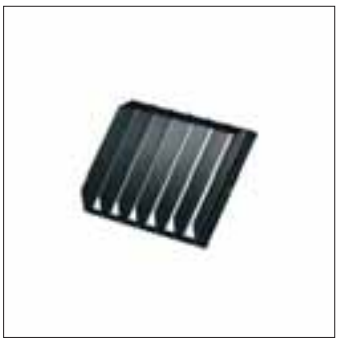
Product ID	Weight (kg)	European Order Code (EOC)
QVF417 HAL-TDL1500W BK	2.33	276915 00

Please contact your local Philips representative for additional configurations

Accessories

Barndoor

Product ID	EOC
ZVF415 BD BK	243788 99
ZVF416 BD BK	243818 99
ZVF417 BD BK	243849 99



Louvre

Product ID	EOC
ZVF416 L BK	243795 99
ZVF417 L BK	243825 99

QVF417 area flood lighting luminaire with barndoor sets (ZVF417 BD)

QVF417 area flood lighting luminaire with vertical louvre (ZVF417 L)

QVF416 area flood lighting luminaire with barndoor sets (ZVF416 BD)

QVF416 area flood lighting luminaire with vertical louvre (ZVF416 L)

QVF415 area flood lighting luminaire with barndoor sets (ZVF415 BD)

Amenity lighting

FGC/SGS/XGC113

FGC/SGS/XGC113 – all-night lighting

FGC/SGS/XGC113 are low energy security luminaires for all-night security and amenity lighting. The high optical performance of the mirror and refractor bowl produces excellent light distribution for low level lighting of walls, corridors and surroundings. FGC/SGS/XGC113 offer a choice of long life lamps for low maintenance costs.

www.philips.co.uk/lighting

	FGC/SGS/XGC113
Type	FGC/SGS/XGC113
Light source	FGC113 Compact fluorescent: 2 x MASTER PL-S 2 Pin / G23 / 11 W 1 x MASTER PL-C 2 Pin / G24d-2 / 18 W SGS113 HID: 1 x SON-T / E27 / 70 W 1 x SON PRO / E27 / 70 W 1 x SON / E27 / 70 W 1 x MASTER SDW-T / PG 12-1 / 50 W XGC113 HID: 1 x MASTER SOX-E / BY22d / 18 W
Lamp included	Yes (K or lamp colour 827)
Mains voltage	240 V

Gear (integrated)	Electro magnetic (low loss), 240 V / 50 Hz: Inductive, parallel compensated (IC)
Option	Photocell integrated (PH)
Materials	Housing: injection-moulded polycarbonate, non-corrosive Refractor bowl: polycarbonate, translucent Reflector: anodised aluminium
Colour	Housing: black
Installation	Wall or ceiling mounting Cable entries on all sides allow through-wiring
Remarks	Luminaires are ready-to-install versions; lamp and installation material included
Main applications	Car parks, underpasses, industrial areas, security

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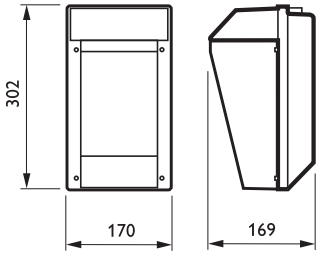
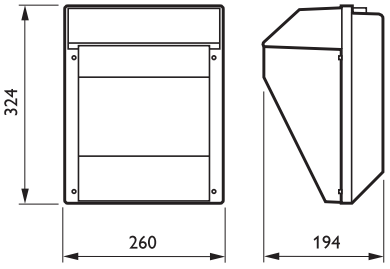


FGC/XGC113



SGS113

FGC113/XGC113 amenity lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FGC113 PL-C/2P18W/827 IC 240V	1.90	926711 00
FGC113 PL-C/2P18W/827 IC 240V PH	1.90	926728 00
FGC113 2xPL-S/2P11W/827 IC 240V	2.20	926407 00
FGC113 2xPL-S/2P11W/827 IC 240V PH	2.20	926599 00
XGC113 SOX-E18W K 240V	2.40	926414 00
XGC113 SOX-E18W K 240V PH	2.40	926605 00

Please contact your local Philips representative for additional configurations

SGS113 amenity lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
SGS113 SON-T70W K 240V	4.00	926421 00
SGS113 SON-T70W K 240V PH	4.00	926438 00
SGS113 SDW-T50W K 240V	4.00	926636 00

Please contact your local Philips representative for additional configurations

FWC110/120

FWC110/120 and FCC120 – for low level lighting

FWC110/120 (wall mounted) and FCC110/120 (ceiling mounted) are attractive, low energy luminaires for all-night security and amenity lighting. The high reflectance white plate and translucent bowl with prismatic control produce excellent light distribution for low level lighting of walls, corridors and surroundings.

www.philips.co.uk/lighting

FWC110 amenity lighting luminaire

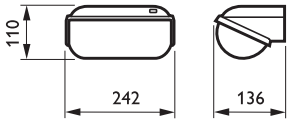
FWC120 amenity lighting luminaire

FCC120 amenity lighting luminaire

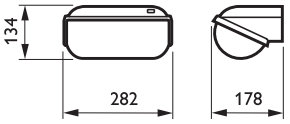
	FWC110/120
Type	FWC110 FWC120
Light source	FWC110 Compact fluorescent: 1 x MASTER PL-S 2 Pin / G23 / 9 W FWC120 Compact fluorescent: 1 x MASTER PL-C 2 Pin / G24d-2 / 18 W
Lamp included	Yes (K or light colour 827)
Mains voltage	240 V

Option	Photocell integrated (PH)
Materials	Housing: injection-moulded ASA, non-corrosive Bowl: polycarbonate, translucent Unit plate: polycarbonate
Colour	Housing: white or black (BK) Unit plate: white
Installation	Wall mounting Cable entries on all sides allow through-wiring
Remarks	Luminaires are ready-to-install versions; lamp and installation material included
Main applications	Residential areas, industry, security

IP 54



FWC110



FWC120

FWC110 amenity lighting luminaire with photocell (PH)

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FWC110 PL-S/2P9W/827 240V II PH	0.85	000565 99

Please contact your local Philips representative for additional configurations

FWC120 amenity lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FWC120 PL-C/2P18W/827 240V II	1.20	001685 99

Please contact your local Philips representative for additional configurations

FWC120 amenity lighting luminaire with photocell (PH)

Preferred selection

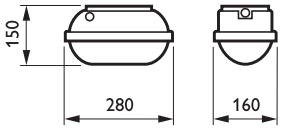
Product ID	Weight (kg)	European Order Code (EOC)
FWC120 PL-C/2P18W/827 240V II PH	1.20	001821 99

Please contact your local Philips representative for additional configurations

	FCC120
Type	FCC120
Light source	FCC120 Compact fluorescent: 1 x MASTER PL-C 2 Pin / G24d-2 / 18 W
Lamp included	Yes (K or lamp colour 827)
Mains voltage	240 V

Option	Photocell integrated (PH)
Materials	Housing: injection-moulded ASA, non-corrosive Bowl: polycarbonate, translucent Unit plate: polycarbonate
Colour	Housing and unit plate: white
Installation	Surface or ceiling mounting Cable entries on all sides allow through-wiring
Remarks	Luminaires are ready-to-install versions; lamp and installation material included
Main applications	Residential areas, industry, security

IP 54



FCC120

FCC120 amenity lighting luminaire

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
FCC120 PL-C/2P18W/827 240V II	1.20	001548 99

Please contact your local Philips representative for additional configurations

Petrol station lighting

Lighting for petrol stations

Making your brand sparkle

Safety first – guidance and accident prevention

With petrol stations often being in isolated locations and having money-handling areas in the open, travellers stopping there at night need to feel safe. Many people feel anxious at petrol stations at night, perceiving them to be dark, intimidating places. Because our lighting solutions deliver high vertical lighting levels, this increases customers' sense of safety and comfort, as other people and the surroundings are easily visible regardless of the time of day. And if customers feel safe at one of your petrol stations, they are much more likely to be loyal to your brand and will come back, again and again.

Lighting design – building with light

Working in conjunction with the oil companies, Philips has developed a wide set of lighting schemes that are tailored to the respective companies' individual brand image. In doing so, we have drawn upon our extensive experience of lighting design specifically for petrol stations. The result? Dedicated schemes that offer enhanced branding, safety, comfort and efficiency.

Energy reduction

With the extremely high light output of their patented white coated reflector (97% reflectivity), Philips' Mini 300 systems allow customers to create lighting solutions with a 150 W CDM lamp instead of a 250 W HPI, or a 250 W CDM lamp instead of a 400 W HPI. This boosts energy efficiency by up to 35%.

www.philips.co.uk/lighting

Efficiency and sustainability

Cost of ownership and environment

With operating margins under constant pressure in the highly competitive petrol station market, the exceptional efficiency and reliability offered by Philips' robust, low-maintenance lighting solutions make a significant contribution to keeping lifetime costs down.
Our products are easy to install, highly energy efficient and easy to clean and maintain, delivering the very best results with the minimum amount of energy consumption and spill light. And as you are entitled to expect from a dedicated partner, our service delivery extends beyond the initial installation, throughout the life of the system.
Philips leads the field in terms of investing in energy saving, CO_2 reducing technologies and limiting the use of hazardous substances in its products. All Philips products are compliant with existing and upcoming norms on hazardous substances and energy consumption.
Thanks to our smart products and the LightMaster custom software tool, for example, we are able to calculate exactly the optimum moment for group lamp replacement, so that your station's safety, visual comfort, presentation, etc. – i.e. your overall branding – is not compromised. This advanced planning capability also means much lower maintenance costs.

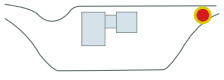
Besides general lighting, we can help your signmaker optimise your signage with high performance lamps or LEDs.

Let us be your lighting partner in creating tomorrow's state-of-the-art petrol station.

Client
Esso

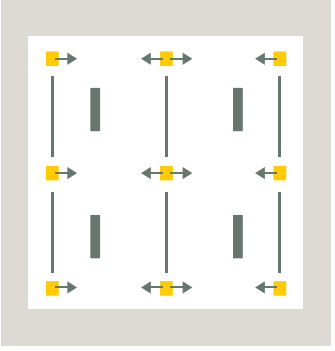
Location
Eemnes | The Netherlands

Focus area
Exit

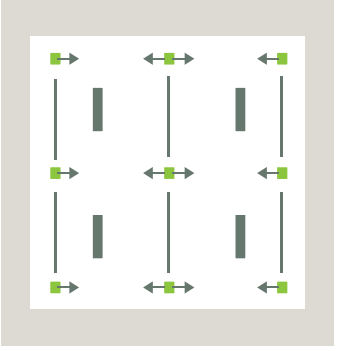


More than 35% savings

MPF with HPI-T 250W
9 X 250W = 2250W



Mini300 with CDM-TD 150W
9 X 150W = 1350W



Energy-saving luminaires from Philips
The extremely efficient Philips Mini300 makes it possible to use 150 W lamps instead of 250 W lamps.

Total cost of ownership
Energy costs account for most of the expense associated with a lighting system. Therefore they also represent the greatest opportunity to save money.

MINI 300 Cube

MINI 300 Cube – daylight impression

MINI 300 Cube is an extremely efficient low-glare luminaire specially designed for downlighting. The efficiency is achieved by a special optic coating, which reflects 97% of the light, and by the use of CDM-TD 4200 K lamps. The combination of this lamp and the white coated reflector creates an inviting atmosphere with colour rendering of 96. MINI 300 Cube delivers a uniform light distribution with an asymmetric or bi-directional beam creating outstanding illuminances in industrial and retail environments.

The range comprises versions for recessed (DBP300), surface mounted (DCP300) and post/wall mounted (DGP300). Within the MINI 300 product family there is also a dedicated floodlight version (MINI 300 Stealth).

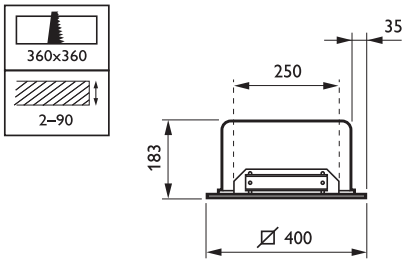
www.philips.co.uk/lighting

MINI 300 Cube DBP300 recessed luminaire

MINI 300 Cube DCP300 surface mounted luminaire

MINI 300 Cube DGP300 post and wall mounted luminaire

	MINI 300 Cube
Type	DBP300 (recessed mounted version)
Light source	HID: 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTERColour CDM-T / G12 / 250 W
Lamp included	Yes (K or light colour 830 or 942)
Gear (integrated)	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB), not for CDM-T lamp version
Optic	Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB), not for CDM-T 250 W lamp version Symmetrical, wide beam (S-WB) Symmetrical, wide beam, bi-directional (S-WB-BD)
Optical cover	Flat glass
Options	Hot restrike ignitor (HR), for CDM-TD 150 W lamp version only Optical cover: transparent bowl (TB) and frosted glass (GF), not for CDM-T 250 W lamp version Auxiliary lamp (AUX) providing immediate light during warm-up phase of the HID lamp Special coating (SWP) to cope with chlorine environments (e.g. swimming pools) Frosted glass (dedicated for e.g. showrooms), not for CDM-T lamp version
Materials and finishing	Housing: injection-moulded base plate with deep-drawn aluminium hood Glass: thermally hardened Gasket: silicone rubber, heat-resistant Mounting frame: galvanised steel, white-coated
Colour	Silver (SI), black (BK), white (WH) or grey (GR) Other RAL colours available on request
Installation	Recessed ceiling mounting Recessed mounting frame (cut-out dimension 360 mm square) is separately delivered with the luminaire Electrical connection by means of pre-wired cable and plug supplied with the luminaire
Maintenance	Lamp access by opening the front glass
Accessories	Transparent bowl (TB), mounting ring, infill plate
Remarks	Delivered in kombipack format; complete with lamp and all necessary mounting parts (K) Dedicated versions available for pole mounting (DGP300) and surface mounting (DCP300)
Main applications	Service stations, areas with overhead canopies, public areas, retail, industry



MINI 300 Cube DBP300 recessed luminaire

MINI 300 Cube DBP300 recessed luminaire

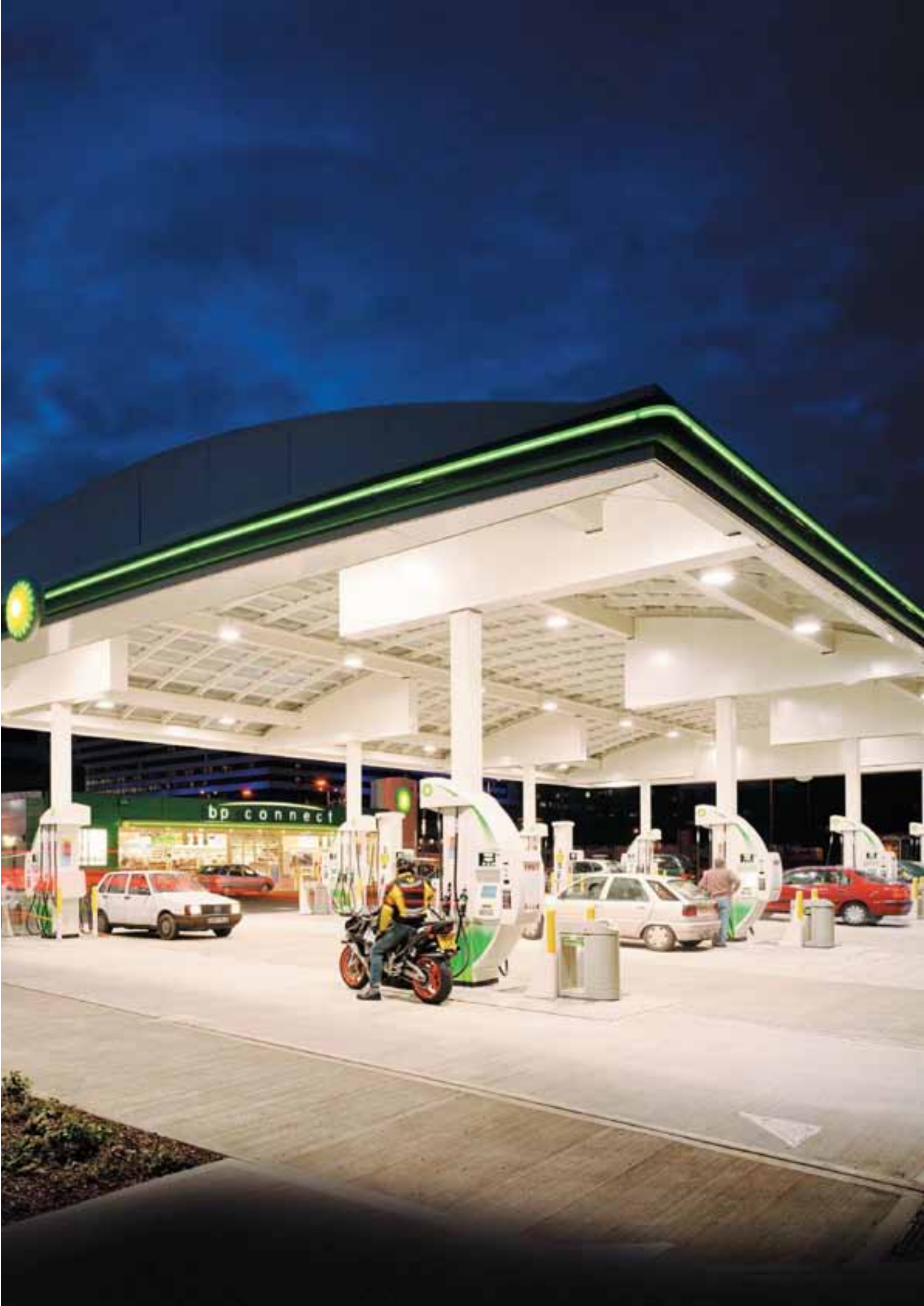
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DBP300 CDM-TD150W/942 IC 240V A-MB WH MR	8.50	186163 00
DBP300 CDM-TD150W/942 240V A-WB WH MR	8.50	180826 00
DBP300 CDM-TD150W/942 240V S-WB WH MR	8.50	180895 00
DBP300 CDM-TD150W/942 240V S-WB-BD WH MR	8.50	185531 00
DBP300 CDM-T250W/830 IC 240V A-NB WH MR	9.40	382329 00
DBP300 CDM-T250W/830 IC 240V A-MB WH MR	9.40	382053 00
DBP300 CDM-T250W/830 IC 240V S-WB WH MR	9.40	382091 00
DBP300 CDM-T250W/830 240V S-WB-BD WH MR	9.40	382367 00

Please contact your local Philips representative for additional configurations

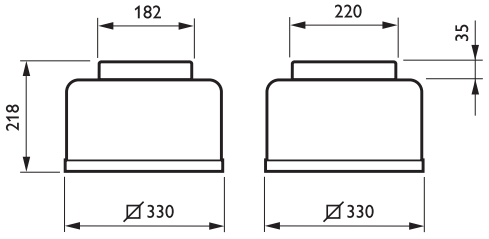
Accessories

Product ID	Description	EOC
ZBP300 IP WH	Infill plate	181298 00


bp connect

	MINI 300 Cube
Type	DCP300 (surface mounted version)
Light source	HID: 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTERColour CDM-T / G12 / 250 W
Lamp included	Yes (K or light colour 830 or 942)
Gear (integrated)	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB), not for CDM-T lamp version
Optic	Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB), not for CDM-T 250 W lamp version Symmetrical, wide beam (S-WB) Symmetrical, wide beam, bi-directional (S-WB-BD)
Optical cover	Flat glass
Options	Hot restrike ignitor (HR), for CDM-TD 150 W lamp version only Optical cover: transparent bowl (TB) and frosted glass (GF), not for CDM-T 250 W lamp version Auxiliary lamp (AUX) providing immediate light during warm-up phase od the HID lamp Special coating (SWP) to cope with chlorine environments (e.g. swimming pools) Frosted glass (dedicated for e.g. showrooms), not for CDM-T lamp versions

Materials and finishing	Housing: injection-moulded base plate with deep-drawn aluminium hood Glass: thermally hardened Gasket: silicone rubber, heat-resistant
Colour	Silver (SI), black (BK), white (WH) or grey (GR) Other RAL colours available on request
Installation	Ceiling mounted Surface mounting frame is delivered separately with luminaire Electrical connection by means of Wieland plug and socket, supplied with luminaire
Maintenance	Lamp access by opening the front glass
Accessories	Transparent bowl, suspension brackets
Remarks	Delivered in kombipack format, complete with lamp and all necessary mounting parts (K) Dedicated versions available for pole mounting (DGP300) and recessed mounting (DBP300)
Main applications	Service stations, areas with overhead canopies, public areas, retail



DCP300

MINI 300 Cube DCP300 surface mounted luminaire.

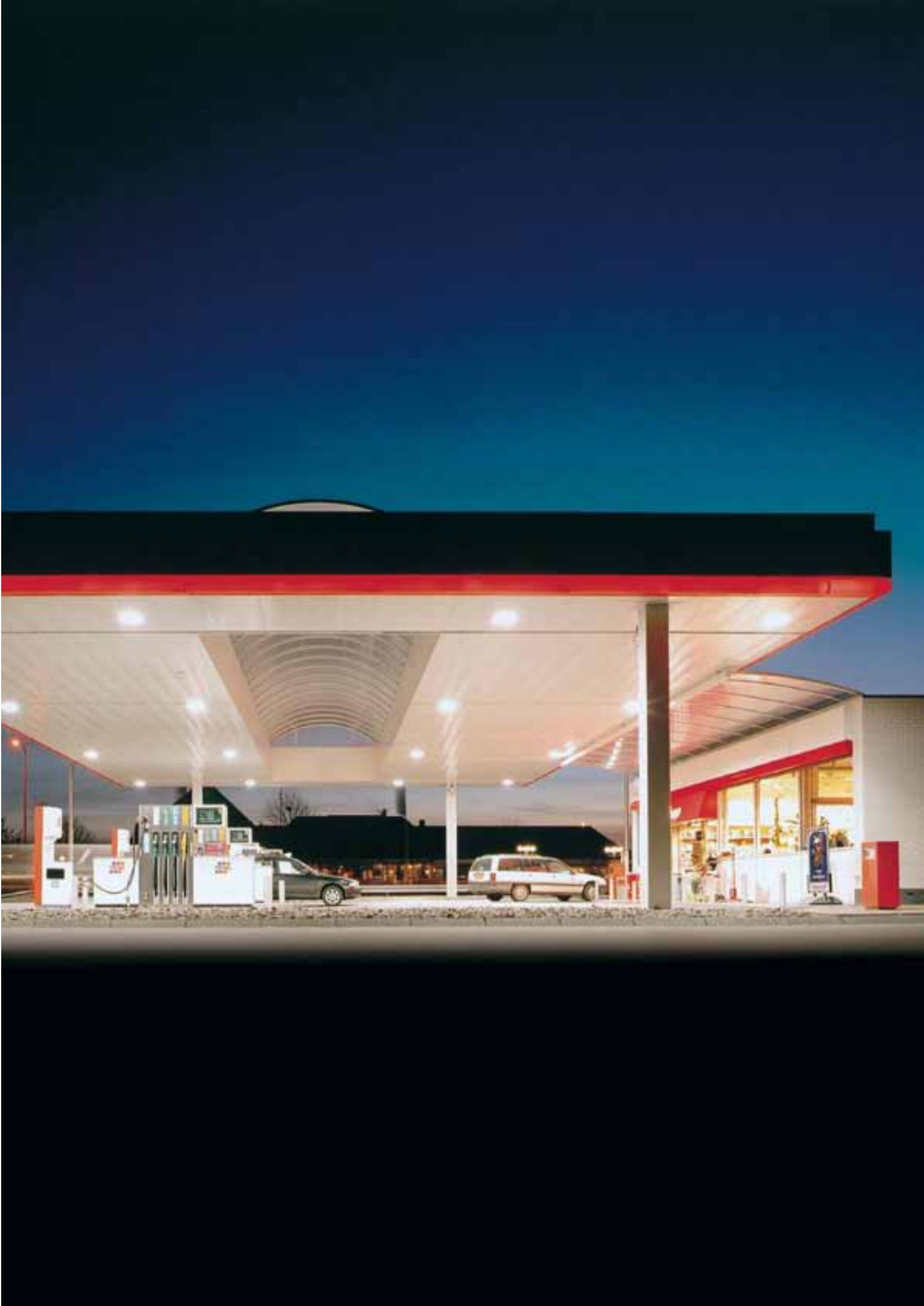
Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
DCP300 CDM-TD150W/942 IC 240V A-MB WH	8.10	186170 00
DCP300 CDM-TD150W/942 IC 240V A-WB WH	7.00	180963 00
DCP300 CDM-TD150W/942 IC 240V S-WB WH	7.00	180994 00
DCP300 CDM-TD150W/942 IC 240V S-WB-BD WH	8.10	186187 00
DCP300 CDM-T250W/830 IC 240V A-NB WH	9.00	382404 00
DCP300 CDM-T250W/830 IC 240V A-MB WH	9.00	382138 00
DCP300 CDM-T250W/830 IC 240V S-WB WH	9.00	382152 00
DCP300 CDM-T250W/830 IC 240V S-WB-BD WH	9.00	382428 00

Please contact your local Philips representative for additional configurations

Accessories

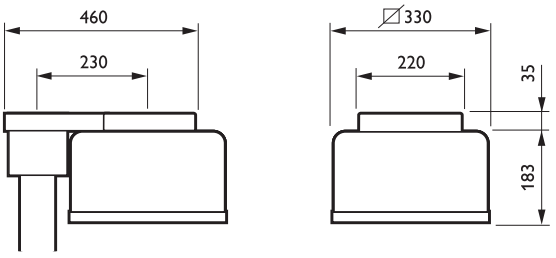
Product ID	Description	EOC
ZCP300 HS WH	Suspension brackets	381148 00



	MINI 300 Cube
Type	DGP300 (pole mounted version)
Light source	HID: 1 x MASTERColour CDM-TD / RX7s / 70, 150 W 1 x MASTERColour CDM-T / G12 / 250 W
Lamp included	Yes (K or light colour 830 or 942)
Gear (integrated)	Electro magnetic (low loss), 240 V / 50 Hz Electronic, 220 - 240 V / 50 - 60 Hz: Electronic (EB)
Optic	Asymmetrical, narrow beam (A-NB) Asymmetrical, medium beam (A-MB) Asymmetrical, wide beam (A-WB), not for CDM-T 250 W lamp version
Optical cover	Flat glass
Options	Auxiliary lamp (AUX) providing immediate light during warm-up phase of the HID lamp Hot restrike ignitor (HR), for CDM-TD 150 W lamp version only Optical cover: transparent bowl (TB) and frosted glass (GF), not for CDM-T 250 W lamp version

Materials and finishing	Housing: injection-moulded base plate with deep-drawn aluminium hood Glass: thermally hardened Gasket: silicone rubber, heat-resistant
Colour	Silver (SI), black (BK), white (WH) or grey (GR) Other RAL colours available on request
Installation	Post top (max Ø 60 mm) and wall mounting Integrated mounting device is standard delivered in vertical position for post top mounting. It can be mounted in horizontal position in combination with wall bracket or pole T-piece
Maintenance	Lamp access by opening the front glass
Accessories	Wall brackets, pole T-pieces both in two different sizes
Remarks	Luminaires are ready-to-install; lamp and installation material included
Main applications	Service stations, public areas, urban, car parks, security, shopping mall

IP65



DGP300

MINI 300 Cube DGP300 post and wall mounted luminaire mainly for petrol stations

Preferred selection

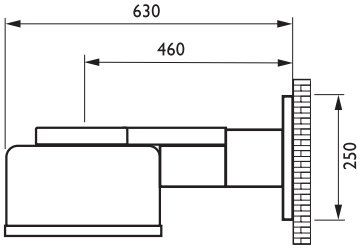
Product ID	Weight (kg)	European Order Code (EOC)
DGP300 CDM-TD150W/942 IC 240V A-NB SI	10.20	181106 00
DGP300 CDM-TD150W/942 IC 240V A-MB SI	10.20	181069 00
DGP300 CDM-TD150W/942 IC 240V A-WB SI	9.00	181021 00
DGP300 CDM-T250W/830 IC 240V A-NB SI	11.10	382442 00
DGP300 CDM-T250W/830 IC 240V A-MB SI	11.10	382176 00

Please contact your local Philips representative for additional configurations

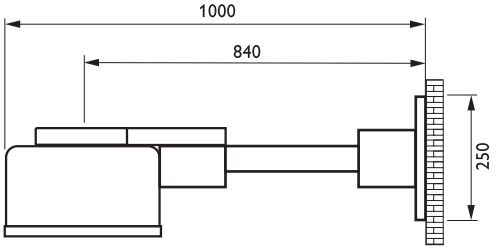
Accessories

Wall bracket (ZGP300 MBW)

Product ID	Weight (kg)	European Order Code (EOC)
ZGP300 MBW L210 SI	3.40	181328 00
ZGP300 MBW L600 SI	4.80	181335 00



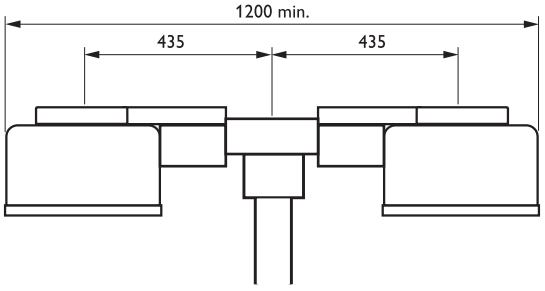
ZGP300 MBW L210



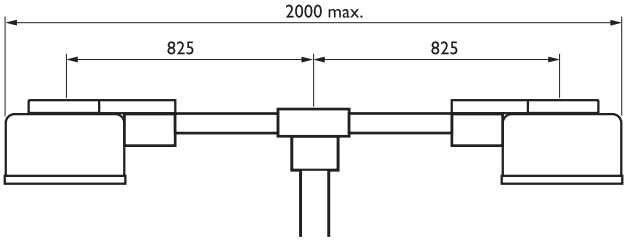
ZGP300 MBW L600

Pole mounting bracket, 2 arms, 180 degrees (ZCP300 MBP-T)

Product ID	Weight (kg)	European Order Code (EOC)
ZGP300 MBP-T L590 SI	4.20	181304 00
ZGP300 MBP-T L1195 SI	6.50	181311 00



ZGP300 MBP-T L590



ZGP300 MBP-T L1195

MPF111/112

MPF111/112 – welcoming light

MPF111/112 are high efficiency, low-glare, recessed luminaires specially designed for downlighting under filling station or other canopies. They accommodate a metal halide lamp to create a welcoming atmosphere.

Matt aluminium reflectors ensure uniform light distribution with an asymmetrical beam (MPF111) or a symmetrical beam (MPF112). The beam patterns create excellent vertical illuminance, as required on vertically oriented objects like the sides of pumps and cars. An internal louvre restricts glare to a minimum for drivers or others approaching the area. The specially designed mounting frame allows quick and easy installation by one person.

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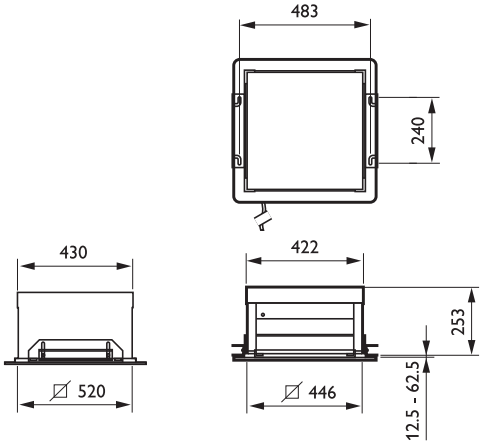
	MPF111/112
Type	MPF111 (asymmetrical beam version) MPF112 (symmetrical beam version)
Light source	HID: 1 x MASTER HPI-T Plus / E40 / 250, 400 W
Lamp included	Yes (K)
Gear (integrated)	Electro magnetic (low loss), 240 V / 50 Hz
Optic	Asymmetrical (A) Symmetrical (S)
Materials and finishing	Housing and louvre: galvanised steel Frame: pre-galvanised steel, white lacquered Glass: thermally hardened Gasket: silicone rubber Drop hinges: stainless-steel Mounting device: galvanised steel Reflector: high-grade anodised aluminium, matt

Colour	Frame: white, lacquered
Installation	Recessed ceiling mounting All versions equipped with mounting frame and mains supply cable of 210 cm
Maintenance	Front glass in hinged window with quick-release fasteners
Remarks	An internal louvre restricts glare to a minimum for drivers or others approaching the area The beam patterns create good vertical luminance
Main applications	Service stations, areas with overhead canopies

IP 21 inside canopy IP 54 below canopy



MPF111/112

MPF111/112 recessed luminaire for petrol stations

Preferred selection

Product ID	Weight (kg)	European Order Code (EOC)
MPF111 HPI-TP250W K IC 240V A	12.00	386358 00
MPF112 HPI-TP250W K IC 240V S	12.00	386310 00
MPF111 HPI-TP400W K IC 240V A	14.00	386372 00
MPF112 HPI-TP400W K IC 240V S	12.00	386334 00

Please contact your local Philips representative for additional configurations

Technical data

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8.6 Gear types
8.8 LED technology
8.10 Specification data lamps
8.12 Lamp survey
8.18 Glossary of lighting terminology
8.24 Index

Safety and protection of luminaires

Approvals and standards

Luminaires sold in the market are expected to comply with the appropriate safety requirements as laid down in the European series of standards EN 60598 prepared by CENELEC, the European Committee for Electrotechnical Standardisation, and which are almost fully harmonised with the worldwide series of standards IEC 60598. European standards are accepted as the national standards and published as such.
Since the issuing of the Low Voltage Directive the availability of the appropriate safety standards has improved the overall quality of our luminaires. The European testing institutes, in cooperation with the European Luminaire Industry, introduced the ENEC mark in January 1993.

All luminaires supplied by Philips comply with the ENEC criteria and many indeed carry the ENEC mark to show the involvement of objective third parties. The CE mark, which is a condition for the free circulation on the entire European market of products that are safe, for example, is the way our organisation demonstrates its compliance with the relevant European legislation.
For more information on the European platform of Testing agencies, please consult their website www.EEPCA.org

Electrical supply

An important step has been taken to harmonise the European mains supply voltage. From 2003 onwards the voltage delivered for use in buildings is 230 V/400 V with a tolerance of ± 10%.
Philips luminaires are designed for the future and will operate well on the supply of today and tomorrow. An example is the electronic ballast designed for a rated mains voltage of 220-240 V, with tolerance for safety of +/- 10% and tolerances for performance of –8% and +6%, covering the full range between 202 V and 254 V.

Electrical safety classes

Electrical equipment is classified according to the protection level against electrical shock. In normal operation as well as during service and maintenance, luminaires should be protected against electrical shock. The safety of a luminaire depends on electrical, mechanical and thermal aspects, both under normal and fault conditions. The electrical safety classification drawn up by the IEC embraces 3 luminaire classes: Class I, II and III. Low voltage luminaires designed to meet the Safety Extra-Low Voltage (SELV) limits can be categorised as Class III.
The table gives a brief description of each electrical safety class.
The official definitions are too long to be reproduced in full here, but can be summarised as printed below. If a protective earth connection is available, Class I luminaires are applied. However, if there is no earth connection or if eddy currents are present, Class II luminaires shall be applied. Class II water-protected luminaires are applied in wet and outdoor locations. Local electricity boards can provide the appropriate advice.

Class I - symbol

Luminaires in this class have basic insulation and are fitted with an earthing point (identified) for the connection of all those exposed metal parts that could conceivably become live in the presence of a fault.
Where the Class I luminaire is provided with a flexible power lead, it must include an earth wire.

Class II - symbol

Luminaires in this class are designed and constructed in such a way that exposed metal parts cannot become live. This can be achieved by means of either reinforced or double insulation, but without a provision for protective earthing.

Class III - symbol

The luminaires in this class are those in which protection against electric shock relies on supply at Safety Extra-Low Voltage (SELV), typically 12 V or 24 V, and in which voltages higher than those of SELV (50 V a.c. r.m.s.) are not generated. A Class III luminaire should not be fitted with a facility for protective earthing.

Ambient temperature

Philips luminaires are designed to meet the (environmental) conditions under which they are most likely to be used. The maximum ambient temperature Ta under which a luminaire can be operated safely, is indicated on the type label on the product; if no indication is given the product is intended for a maximum ambient temperature of 25°C. The ambient temperature always refers to the typical use of the luminaire: indoor or outdoor. Luminaires designed for industrial high-bay applications are designed for ambient temperatures as high as 40 to 45°C. The use of luminaires above their specified maximum ambient temperature may reduce safety margins and will mostly lead to a reduction of the lifetime of the various components. Electronic equipment, ballasts and lighting controls are particularly sensitive to overheating. Although (extremely) low temperatures do not normally affect the safety of luminaires, this may affect operation during the starting-up phase of the lamp. Fluorescent lamps should not be used below –5°C to –10°C. Upon request special solutions are often possible for higher or lower ambient temperatures. High-intensity discharge lamps function well below –20°C and are the most suitable lamps for outdoor use.

Protection against electrical shock		
Safety class	**Symbol**	**Protection**
I		Basic insulation plus protective earth connector
II		Double or reinforced insulation, no provision for protective earthing
III		Supply of safety extra-low voltage

Protection against ingress of solid objects, dust and moisture
The Ingress Protection system (IP) EN 60529, 1991 defines various degrees of protection against the ingress of foreign bodies, dust and moisture. The term 'foreign bodies' includes things like fingers and tools coming into contact with the electrical live parts of the product. Both safety aspects (contact with live parts) and harmful effects on the function of the luminaire are defined. The exact testing method for luminaires for each IP classification is described in the standard EN 60598, chapter 9. Some testing methods from EN 60529 were found to be inappropriate for luminaires and it must be noted that the specific conditions in an application may differ from the conditions during testing.

The designation to indicate the degree of protection consists of the characteristic letters IP followed by 2 digits indicating conformity with the conditions stated in the two tables. All Philips luminaires fulfil the minimum classification: IP20 (protected against finger contact with live parts), however a selection of luminaires, especially those for industrial and outdoor (road) applications, meet a higher IP classification. It is important to realise that the specification and safety of luminaires are only secured if the necessary maintenance is carried out according to the instructions of the manufacturer within the time schedules indicated.

Protection against ingress of dust, solid objects and moisture					
First number Degree of protection against accidential contact/contact with external elements			**Second number:** Degree of protection against ingress of moisture		
First number	Description	Explanation	**Second number**	Description	Explanation
0	Non-protected	Not protected	0	Non-protected	Not protected against moisture
1	Hand-protected	Protected against solid objects exceeding 50 mm in diameter	1	Drip-proof against vertical water drops	Water drips falling vertically shall have no harmful effect
2	Finger-protected	Protected against finger contact with live parts; and against solid objects exceeding 12 mm in diameter	2	Drip-proof when tilted at angles of up to 15°	Water drips shall have no harmful effect
3	Tool-protected	Protected against contact with live parts by tools, wire or similar objects over 2.5 mm thick; and protection against penetration of solid objects exceeding 2.5 mm in diameter	3	Rain-/spray-proof	Water falling at an angle of up to 60° shall have no harmful effect
4	Wire-protected	Protected against contact with live parts by tools, wire or similar objects over 1 mm thick; protection against penetration of solid objects exceeding 1 mm in diameter	4	Splash-proof	Splashing water from any direction shall have no harmful effect
5	Dust-accumulation-protected	Complete protection against contact with live parts and against harmful accumulation of dust; some dust may penetrate but not to the extent that operation is impaired	5	Jet-proof	Water projected by a nozzle from any direction shall have no harmful effect. (Nozzle diameter 6.3 mm, pressure 30 kPa)
6	Dust-penetration-protected	Complete protection against contact with live parts and against penetration of dust	6	Jet-proof	Water projected by a nozzle from any direction shall have no harmful effect. (Nozzle diameter 12.5 mm, pressure 100 kPa)
			7	Watertight	Watertight; temporary immersion in water under specified conditions of pressure and time possible without ingress of water in harmful quantities
			8	Pressure watertight	Pressure watertight; continuous submersion in water under specified conditions of pressure and time without ingress of water in harmful quantities

Protection against mechanical shock

The impact resistance of a luminaire defines the protection of the luminaire against mechanical shock. The European standard EN 50102 defines the degrees of protection against external mechanical impact (IK code) and the method of testing. The luminaire housing should withstand the defined energy of the mechanical shock without losing its electrical and mechanical safety, or the basic luminaire function. Translated into a more practical implementation, this means that after withstanding the shock, deformation of the mirror and housing is allowed, although broken lamps, an unsafe electrical situation and failure to meet the specified IP classifications are not permitted. The impact resistance is expressed as a group numeral, for instance IK06, which is related to the impact energy.

All types of Philips luminaires have a minimum impact resistance of 0.2 J. The table shows the ten IK classifications and the defined shock energy expressed in joules. Notice that fully vandal-proof luminaires are not available; vandal-protected (IK09) and vandal-resistant (IK10) are the best achievable classifications.

Protection against mechanical shock

IK code	Shock energy (joules)	Description	Example
IK00	-		
IK01	0.15		
IK02	0.2	Standard	Standard open luminaire, closed luminaire with acrylic cover
IK03	0.3		
IK04	0.5	Standard plus	Open luminaire with reinforced optical system
IK05	0.7		
IK06	1		
IK07	2	Reinforced	
IK08	5	Vandal-protected	Closed luminaire with polycarbonate or hardened glass cover
IK09	10		
IK10	20	Vandal-resistant	Closed luminaire

Flammability

From the point of view of flammability of mounting materials, luminaires can always be mounted on non-flammable building materials like concrete and stone. If luminaires are to be mounted on flammable materials special measures should be taken. Luminaires for discharge lamps with no warning sign to indicate that they are unsuitable for mounting on normally flammable surfaces, are suitable for mounting on building surfaces that do not ignite below 200°C.

Luminaire marking for flammability

Symbol	Application	Characteristics of ceiling material
	Suitable for direct mounting on non-conbustible surfaces	Stone, concrete
	Suitable for direct mounting on normally flammable surfaces	Ignition temperature materials > 200°C; some combustion time lag
	Suitable for direct mounting in/ on normally flammable surfaces where thermally insulating material may cover the luminaire	Ignition temperature materials > 200°C; some combustion time lag
	Suitable for direct mounting on easily flammable surfaces, where combustible dust is present	Ignition temperature materials < 200°C; no combustion time lag

Ball impact resistance

For indoor sports halls ball-impact-resistant luminaires are essential. As no European standards have been developed for this purpose, Philips has classified the relevant luminaires according to the German DIN 18032. After the impact test according to this standard (36 handballs targeted at a speed of 60 km/h) no damage of the luminaire should have occurred and no loose particles should drop down from the luminaire. The symbol for a ball-impact-resistant luminaire is the football. Luminaires protected by a wire guard with a grid width exceeding 60 mm are not to be used in tennis sports halls.

Safety distance

In the application of reflector lamps and luminaires with narrow beam distributions of a high intensity, a minimum distance between light source and illuminated surface has to be ensured. This is to prevent too high temperatures of the illuminated surface. Minimum values for safety distances are specified on the luminaire packing. The specified values must be considered as the shortest distances permitted between light source and illuminated object or surface to ensure long-lasting safe operation.

Gear types

Fluorescent and high-intensity discharge lamps require a device to limit the current due to the unfavourable current-voltage characteristics of the lamps. Traditionally this has been achieved using electromagnetic control gear in combination with either a glow-starter switch or an electronic starter. Almost the complete range of Philips fluorescent and high-intensity discharge lamp/luminaires are available with the electromagnetic type of ballast system. From the point of view of energy consumption the electromagnetic control gear system is less efficient because the losses in the system are relatively high, and significant improvements are possible by applying electronic control gear instead.

Electronic control gear offers a number of advantages in comparison with electromagnetic ballasts:

- The electronic ballast offers interesting cost savings, such as reduction in energy consumption of about 25%, extension of the lamp life up to 50% and, moreover, lower maintenance costs.
- Application of electronic ballasts adds to the comfort in numerous ways: no cathode flicker occurs; at the end of lamp life the lamp is automatically switched off; smooth and rapid starting is ensured without flickering; and no stroboscopic effects can arise due to the high frequency at which the lamps are operated.
- Extra safety is assured through over-voltage detection, protected control of the mains voltage input and a noticeably lower operating temperature.
- Flexibility is enhanced: installations with fluorescent lamps, for instance, are dimmable if a regulating ballast is selected, allowing for adjustment of lighting levels to personal preference and the opportunity for additional savings on energy, e.g. by daylight-linked lighting control.

  Following the trend towards greater efficiency and comfort, some of the newer fluorescent lamps like all TL5 and high-wattage PL-L types will operate only on electronic control gear.

Electronic transformers

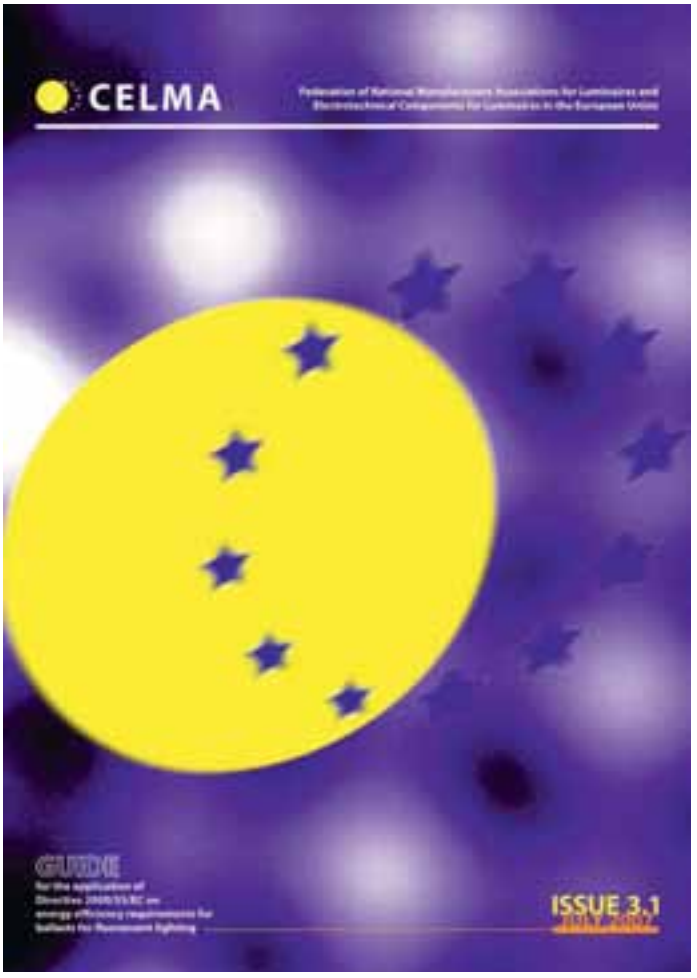
Philips offers high frequency electronic transformers for operation with 12 V halogen lamps up to and including 150 W. Electronic transformers are compact, lightweight and are also dimmable. They fully comply with the applicable safety and radiofrequency interference standards. Over conventional gear they offer self-resetting short-circuit protection, thermal-switch interruption for overload protection, temperature protection by output voltage reduction and inaudible operation. Electronic transformers produce a constant output voltage, ensuring long lamp life and a constant light level.

CELMA classification

The Federation of National Manufacturers' Associations for Luminaires and Electrotechnical Components for Luminaires in the European Union, CELMA, has created a guide for the application of Directive 2000/55/EC on energy efficiency requirements for ballasts for fluorescent lighting. The Directive aims to reduce the energy consumption of ballasts for fluorescent lighting by moving gradually away from the less efficient ballasts towards more efficient ones.
The degree of energy efficiency of fluorescent lighting circuits depends upon the combination of ballast and lamp. CELMA has developed a ballast classification system based on the ballast lamp system.
This classification system defines ballast classes as listed in the following table. For further details refer to their website http://www.celma.org.

Ballast classification

Class	Typical ballast type
A1	Dimmable electronic ballasts (best energy performance)
A2	Electronic ballasts with reduced losses
A3	Electronic ballasts
B1	Magnetic ballasts with very low losses
B2	Magnetic ballasts with low losses
C	Magnetic ballasts with moderate losses
D	Magnetic ballasts with very high losses (lowest energy performance)



Fluorescent ballast types
Philips offers five options when it comes to selecting high-frequency ballasts for fluorescent lamps: HF-MATCHBOX designed for compact luminaires; HF-PERFORMER for areas where the demands are greater; HF-REGULATOR for areas where frequent dimming is required; HF-REGULATOR Touch and Dim for easy operation; and HF-DALI ballast working in accordance with the DALI Protocol. DALI stands for Digital Addressable Lighting Interface (IEC 929).

HF-DALI (HFD)
Electronic regulating ballast for TL5, PL-L and TL-D lamps.
The high-frequency regulating ballasts permit light output regulation down to 3% via the DALI control input.

HF-MATCHBOX (HFM)
Compact electronic ballast for the smaller (compact) fluorescent lamps up to 25 W. These high-frequency ballasts offer more freedom of luminaire design.

HF-REGULATOR (HFR)
Electronic regulating ballast for TL5, PL-L and TL-D lamps.
These high-frequency regulating ballasts permit light output regulation down to 3% of the maximum light output by the 1-10 V control input. Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems like Luxsense.
All Philips HF-Regulator ballasts are fitted with a dedicated integrated circuit (alpha-control) to ensure that lamp life is unaffected by the dimming level, that lamp operation is stable in every dimming setting and that energy savings are maximised when the lamp is dimmed.

HF-REGULATOR II TOUCH AND DALI (HFD-T)
The new-style electronic regulating ballast for TL5, PL-L and TL-D lamps. Standard push buttons can be used to dim the light output down to 3%. The lamp can also be switched on or off using the push-button control.

HF-PERFORMER (HFP)
Electronic ballast for TL5, PL-L and TL-D lamps.
These high-frequency ballasts offer low energy consumption. A warm-start circuit that preheats the lamp electrodes enables the lamp to be switched on and off without reducing its useful life.

HID ballast types
Philips supplies electronic control gear for metal halide and low- and high-pressure sodium lamps up to and including 150 W. They offer improved start-up performance and colour stability, and prevent lamp flicker. Compact, one-piece PrimaVision ballasts are available for (mini) CDM, CDO, SDW and SON lamps. For light regulation applications DynaVision ballasts are available for CDM, CDO and SON lamps and are equipped with 1-10V or DALI control input. Larger conventional ballasts for SON lamps of 250/400 W can be controlled by means of the DynaVision Controller with 1-10V and DALI control input.

DynaVision (EBR)
The compact DynaVision ballasts allow for light regulation down to 20% light output for SON lamps or 50% for CDO lamps.
Low-frequency electronic dimming and stable flicker-free operation will increase lamp life by between 20 and 30%. Full protection against fault conditions and a self-stopping facility prevent cycling of old lamps.

PrimaVision (EB)
The compact PrimaVision ballasts provide constant power regulation over a lamp life that is up to 30% longer. They eliminate lamp flicker, offer full protection against fault conditions, and a self-stopping facility, which prevents cycling of old lamps.

Further details, specifications and availability of ballast types for all kinds of lamp types can be found at
htpp://www.lampsandgear.philips.com.

The principles of LED technology

The basis for light generation inside a Light Emitting Diode (LED), a solid-state semiconductor, is the conversion of electrical energy directly into light.

On its most basic level this can be seen as an electron that moves from one material into another while losing an amount of energy. Due to the law of conservation of energy, this loss of energy needs to be converted and, inside a LED, this energy is converted into radiation energy composed of light in the visible part of the spectrum, and a bit of infrared radiation dissipated as heat.

The LED is comprised of two semiconductor regions, a positive electrically charged or p-region and a negative electrically charged or n-region, see diagram 1. In the p-region there is a shortage of electrons and in the n-region a surplus of electrons. When voltage is applied across these two regions, current begins to flow and electrons move across the p-n junction, from the n-region into the p-region. The process of an electron moving through the p-n junction releases energy. The dispersion of this energy produces photons with visible wavelengths. The higher the energy released, the shorter the wavelength becomes. Low-energy photons will emit in the infrared part of the spectrum, and as the energy increases, the colour of the light will change from deep red, via yellow, green, cyan and blue to the ultra-violet part of the spectrum – in fact it follows the colours of the rainbow.

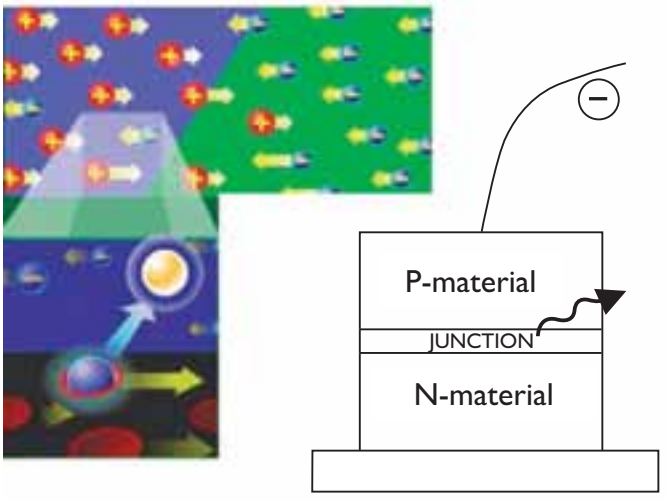


Diagram 1. LED composition with the electrically charged p- and n-regions and the p-n junction emitting light.

White light and RGB (red, green and blue)

A white LED consists of a blue LED chip and a yellow phosphor coating, see diagram 2. The blue photons generated in the semiconductor chip can either pass the phosphor layer unaffected, or be converted into yellow photons. These two colours – blue and yellow – combine to produce white light.

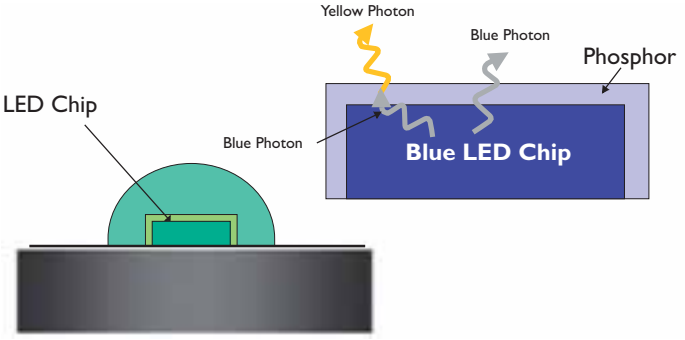
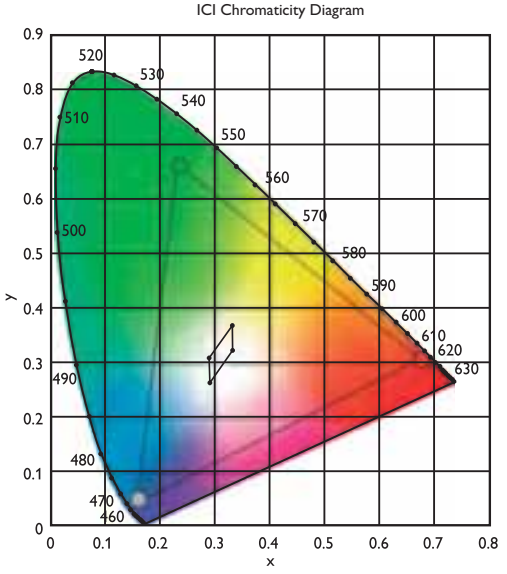


Diagram 2. White LED, the principle of white light generation.

It is also possible to generate white light with the aid of a red, green and blue LED. Such LED array systems are called RGB systems. Normally the RGB systems are used to make different colour effects. With a RGB system all colours of light within the colour triangle can be produced.



Graph. Colour triangle for a RGB system; all colours within the triangle can be reproduced.

Characteristics and benefits

On the next page you will find an overview of the characteristics and benefits of LEDs. In the various indoor and outdoor applications different advantages will be important. Architectural applications will use the vivid colours and dynamic colour control, whereas the traffic signal market is focused on maximising energy savings and reducing maintenance costs to practically zero.

In general:
- More energy-efficient than halogen lamps
- Much longer life, up to 50 000 hours at 70 per cent of lumen maintenance
- Reduced maintenance cost
- No unwanted IR or UV radiation in the beam of light, less risk of fading of colour pigments and textile
- Highly efficient low-cost plastic optics can be used

Architecture/design:
- Design flexibility, hidden compact light sources
- Vivid saturated colours without the use of additional filters
- Directed light for increased system efficacy
- Robust, vibration-proof, solid-state lighting
- Less light pollution due to precise optical control

Unique LED advantages:
- Dynamic colour control, white point adjustable
- Fully dimmable without colour variation
- Instant switch-on at full colour and full lighting level
- No transmission loss due to colour filters
- Instal and forget for a long time

Environment:
- No hazardous metals e.g. mercury in the light source

Safety and low temperature:
- Low voltage dc operation
- Highly efficient in cold environment
- Cold start capability down to -40°C
- Sealed for life waterproof luminaires

Value chain

The definition of levels of integration describes the road from LED chip to luminaire, with increasing complexity and value. Philips undertakes business activities at all levels of the value chain.

Level 0. LED chip

Semiconductor chips are the basis for every LED and these are grown in complex wafer production equipment. The wavelength of the LED is defined according to the manufacturing process, the parameters and the tolerance.

Level 1. LED component

Packaging is the next step. Here the thermal and optical properties are determined and the chip is connected to its package by means of bond wires for external connections.

Level 2. LED array

A miniature printed circuit board is used to connect one or more LEDs, possibly together with driver electronics, and acts as a thermal interface between LEDs and heat sink.

Level 3. LED module

A LED module combines heat sink, optics and separate driver in one module, ready to be installed in a luminaire.
A mono-colour traffic light source is an example of level 3. Three of these modules will be combined in a level-4 traffic signal head.

Level 4. LED luminaire

A LED luminaire can be connected directly to the outside, mechanically and electrically. It houses, supplies power to and protects the LED array(s) from the environment while maintaining optimal operating conditions.
Philips LEDline is an example of a level-4 product.

Level 0	Level 1	Level 2	Level 3	Level 4
LED-Chip	LED or lamp	LED's on PCB	LED module with optics and driver	Luminaire

Table. Survey of levels of integration and LED products.

LED lighting system

A LED lighting system comprises several components like a power supply, controller, control interface and luminaire/LED arrays/optics. In many cases one or more components are combined in one product for ease of installation. In other cases there might be a need for more flexibility in terms of system configuration and control. E.g. a power supply or control interface may be shared by a group of luminaires. Every single component is selected to fit the application demands.

Lighting controls

The revolution of LED technology for lighting creates new possibilities in the application of lighting. In many applications the dynamic character of LED enables a lighting solution to create a unique experience. By using RGB colours or variation in colour temperature, all sorts of effects are made possible and can be specified for a particular lighting design or application, both indoor and outdoor. To enable these dynamic lighting solutions there is a need for lighting control systems that create the right experience for the customer. Philips provides a range of smart scene-setting lighting controllers that offers a reliable solution for any project, from simple colour selection at the push of a button or the turn of a wheel to fully automated, pre-programmed light control and/or multimedia integration.

Colour characteristics of lamps
Lamps do not all emit light of the same colour. There is, for example, a striking difference between the pronounced amber light from standard sodium lamps and the white light from most other lamps. Even then, one white light is not the same as another. To select the right light source for the colour characteristics required, two separate parameters have to be considered, i.e. the colour temperature of the emitted light and its colour rendering.

Colour temperature
Given that the colour of the light has an important influence on the colour impression of the area, the colour temperature of the light source plays an essential role. To enable an objective comparison of the colour impressions from various sources, subjective terms such as the popular words 'cool' and 'warm' are inadequate. A precise scale is required and given by the term 'correlated colour temperature'; the colour gradation of the light is compared with the light emitted by an intensely heated iron bar of which the temperature is known. In this way, the light colour can be specified by a value in kelvin (K). A low colour temperature represents warm, yellow, orange or red light and a high colour temperature cool, blue or violet light.

Four categories, as a practical guideline, are:
2000 - 3000 K warm/cosy
The colour from (compact) fluorescent lamps in the colours 827 and 927 and the SDW-T White SON lamp. Generally used for intimate and cosy environments where the emphasis is on a peaceful relaxing ambience.

3000 - 4000 K warm/neutral
The colour from halogen lamps, colour 830 and 930 (compact) fluorescent lamps and MASTERColour 830 lamps. Used in places where people are active, requiring a welcoming comfortable ambience.

4000 - 5000 K neutral/cool
The light colour from 840 and 940 fluorescent lamps as well as MASTERColour 942 and MHN metal halide lamps. Usually applied in commercial areas and offices where a look of cool efficiency is desired.

5000 K and above daylight and cool daylight
The light colour that best matches natural daylight, such as fluorescent colours 850, 865, 950 and 965 and the new ActiViva colours 451 and 452.

Colour rendering
The perception of surface colours, the colour rendering of the light, depends on the colour content of the incident light. The light emitted by a light source is composed of a mixture of colours, all in different intensities. A change in the colour mixture and intensity yields a different colour rendering.
Cool daylight and incandescent lamps have fully natural colour rendering properties. The same is true for halogen lamps. The reason for this is the continuous spectrum of the sources, which is typical for filament lamps.
Most gas discharge sources, however, have an interrupted or line spectrum. This has an influence on the quality of their colour rendering properties, which vary from very poor, with SOX low-pressure sodium gas discharge lamps, to excellent, with the colour 90 De Luxe series fluorescent and MASTERColour 942 lamps.
When selecting a particular lamp type, a clear understanding of the colour rendering properties is essential. A fair indication is given by the colour rendering index (CRI), which is a standardised scale with 100 as the maximum value. Colours are best shown under a light source with the highest colour rendering index. Incidentally, it is only worthwhile to compare CRI values of lamps of similar colour temperature.

In practice, three colour rendering categories are normally found.
CRI between Ra 90 and 100.
Excellent colour rendering properties.
Applications are mainly those where correct colour appraisal is a critical task.

CRI between Ra 80 and 90.
Good colour rendering properties.
Applications in areas where critical colour appraisal is not the primary consideration but where good rendition of colours is essential.

CRI below Ra 80.
Moderate to poor colour rendering properties.
Applications in areas where the quality of colour rendering is of minor importance.

The choice in favour of a particular colour rendering class does, of course, depend on the demands that an application makes on a lamp. For example, a CRI of Ra 60 is inadequate for shop lighting, but is qualified as good for functional road lighting.

Colour impression		
Light colour	**Colour temperature in kelvin**	**Type of lamp or lamp colour ***
Cool daylight	17000	452
	8000	451
	6500	865, 965
Daylight	6000	
Cool white	5000	850, 950
	4500	HPI (-T) PLus
	4200	942, HPL-N, MHN
Neutral white	4000	840, 940
	3500	
	3400	HPL Comfort
"Crisp"	3000	Halogen 12V, 830, 930
warm white	2900	Halogen Plusline
	2800	Halogen PAR
	2700	827, 927
"Cosy" warm white	2500	SDW-T
	2150	SON Comfort
Very warm white	2000K	SON PIA Plus

*= For exact colour temperature figures refer to the lamp family data.

Colour rendering		
Indoor applications	**CRI**	**Type of lamp or lamp colour ***
Excellent	100	Halogen 12V, 230V
	92	927, 930, 940, 950, 965
	90	CDM 942
Good	83	SDW-T
	82	451, 452, 827, 830, 840, 850, 865
	80	CDM 830, SDW-T, MHN, QL
Moderate	75	54
	70	25
	69	HPI (-T) Plus
	65	SON Comfort
	60	33
Insufficient	55	35, HPL Comfort
	50	29
Poor	45	HPL-N
	40	SON Plus
	25	SON

*= For exact colour rendering index figures refer to the lamp family data.

Areas of application

Correct light impressions and correct rendering of colours assists us in recognising our surroundings. The colour climate of an artificially-lit space is determined by light colour temperature and colour rendering.
Room furnishings of wood and fabrics in warm colours require warm lighting in the colours 827 or 927. For pleasing light the colours 830 and 930 are most suitable for many applications. The more business-like the interiors are, the cooler the light can be. Furniture using chromium, glass and marble, or in black and white, is emphasised by the neutral light colours 840 and 940. Colours 865 and 965 are best used in environments where there is a high daylight content.
For (compact) fluorescent lamps it is most economical to choose the colours 830 and 840 as they produce the highest light output.
Colours 927, 930, 940 and 950, on the other hand, give the best colour rendering.

Lamp type	Philips Product-Identification Code (PRID)	Commercial product name	Colour temp.Tc	Colour rend. Ra (cd)	Luminous flux (lm)/intensity	Wattage incl. gear
Halogen MASTERline ES (50mm)						
	HAL-MR50-8-20W	MASTERline ES 20W GU5.3 12V 8D	3000K	100	6500 (cd)	20W
	HAL-MR50-36-20W	MASTERline ES 20W GU5.3 12V 36D	3000K	100	1000 (cd)	20W
	HAL-MR50-60-20W	MASTERline ES 20W GU5.3 12V 60D	3000K	100	-	20W
	HAL-MR50-8-30W	MASTERline ES 30W GU5.3 12V 8D	3000K	100	11000 (cd)	30W
	HAL-MR50-24-30W	MASTERline ES 30W GU5.3 12V 24D	3000K	100	3350 (cd)	30W
	HAL-MR50-36-30W	MASTERline ES 30W GU5.3 12V 36D	3000K	100	1600 (cd)	30W
	HAL-MR50-60-30W	MASTERline ES 30W GU5.3 12V 60D	3000K	100	150 (cd)	30W
	HAL-MR50-8-35W	MASTERline ES 35W GU5.3 12V 8D	3000K	100	1325 (cd)	35W
	HAL-MR50-24-35W	MASTERline ES 35W GU5.3 12V 24D	3000K	100	4200 (cd)	35W
	HAL-MR50-36-35W	MASTERline ES 35W GU5.3 12V 36D	3000K	100	2200 (cd)	35W
	HAL-MR50-60-35W	MASTERline ES 35W GU5.3 12V 60D	3000K	100	1050 (cd)	35W
	HAL-MR50-8-45W	MASTERline ES 45W GU5.3 12V 8D	3000K	100	16000 (cd)	45W
	HAL-MR50-24-45W	MASTERline ES 45W GU5.3 12V 24D	3000K	100	5450 (cd)	45W
	HAL-MR50-36-45W	MASTERline ES 45W GU5.3 12V 36D	3000K	100	2850 (cd)	45W
	HAL-MR50-60-45W	MASTERline ES 45W GU5.3 12V 60D	3000K	100	1300 (cd)	45W
Halogen Compact						
	HAL-TDC60W	Plusline Compact 60W R7s/18 230V IBB	2900K	100	825 (lm)	60W
	HAL-TDC100W	Plusline Compact 100W R7s/18 230V IBB	2900K	100	1600 (lm)	100W
	HAL-TDC150W	Plusline Compact 300W R7s/18 230V IBB	2900K	100	2400 (lm)	150W
	HAL-TDC200W	Plusline Compact 500W R7s/10 230V IBB	2900K	100	3400 (lm)	200W
Halogen Small						
	HAL-TDS750W	Plusline Small 150W R7s 230V IBB	2900K	100	2250(lm)	150W
	HAL-TDS100W	Plusline Small 200W R7s 230V IBB	2900K	100	3520(lm)	200W
	HAL-TDS1500W	Plusline Small 1500W R7s 230V IBB	2900K	100	5600(lm)	300W
	HAL-TDS2000W	Plusline Small 2000W R7s 230V IBB	2900K	100	9900(lm)	500W
Halogen Large						
	HAL-TDL750W	Plusline Large 750W R7s 230V ICT	2900K	100	16900(lm)	750W
	HAL-TDL100W	Plusline Large 1000W R7s 230V ICT	2900K	100	24200(lm)	1000W
	HAL-TDL1500W	Plusline Large 1500W R7s 230V ICT	2900K	100	36300(lm)	1500W
	HAL-TDL2000W	Plusline Large 2000W FA4 230V ICT	2900K	100	48400(lm)	2000W
HV Reflector						
	HAL-P20-10-50W	HalogenA PAR20 50W E27 230V 10D ICT	2800K	100	-	50W
	HAL-P20-25-50W	HalogenA PAR20 50W E27 230V 25D ICT	2800K	100	-	50W
	HAL-P30S-10-75W	HalogenA PAR30S 75W E27 230V 10D ICT	2800K	100	-	75W
	HAL-P30S-30-75W	HalogenA PAR30S 75W E27 230V 30D ICT	2800K	100	-	75W
	HAL-P30S-10-100W	HalogenA PAR30S 100W E27 230V 10D ICT	2800K	100	-	100W
	HAL-P30S-30-100W	HalogenA PAR30S 100W E27 230V 30D ICT	2800K	100	-	100W
	HAL-P38-10-75W	HalogenA PAR38S 75W E27 230V 10D ICT	2800K	100	-	75W
	HAL-P38-30-75W	HalogenA PAR38S 75W E27 230V 30D ICT	2800K	100	-	75W
	HAL-P38-10-100W	HalogenA PAR38S 100W E27 230V 10D ICT	2800K	100	-	100W
	HAL-P38-30-100W	HalogenA PAR38S 100W E27 230V 30D ICT	2800K	100	-	100W
Compact Fluorescent Integrated PL*E/C						
	PLE-C 5W	MASTER PL-E 5W/827 E27 230-240V ICT	2700K	82	800(lm)	5W
	PLE-C 8W	MASTER PL-E 8W/827 E27 230-240V ICT	2700K	82	600(lm)	8W
	PLE-C 11W	MASTER PL-E 11W/827 E27 230-240V ICT	2700K	82	900(lm)	11W

Lamp type	Philips Product-Identification Code (PRID)	Commercial product name	Colour temp.Tc	Colour rend. Ra (cd)	Luminous flux (lm)/intensity	Wattage incl. gear
PL*E/T						
	PLE-T 15W	MASTER PL-E 15W/827 E27 230-240V ICT/6	2700K	82	875(lm)	15W
	PLE-T 20W	MASTER PL-E 20W/827 E27 230-240V ICT/6	2700K	82	1200(lm)	20W
	PLE-T 23W	MASTER PL-E 23W/827 E27 230-240V ICT/6	2700K	82	1575(lm)	23W
	PLE-T 27W	MASTER PL-E 27W/827 E27 230-240V ICT/6	2700K	82	1800(lm)	27W
Compact Fluorescent Non-integrated PL-C/2P						
	PL-C/2P10W/830	MASTER PL-C 10W/830/2P	3000K	82	600(lm)	17W
	PL-C/2P13W/830	MASTER PL-C 13W/830/2P	3000K	82	900(lm)	17W
	PL-C/2P18W/830	MASTER PL-C 18W/830/2P	3000K	82	1200(lm)	25W
	PL-C/2P26W/830	MASTER PL-C 26W/830/2P	3000K	82	1800(lm)	33W
	PL-C/2P10W/840	MASTER PL-C 10W/840/2P	4000K	82	600(lm)	17W
	PL-C/2P13W/840	MASTER PL-C 13W/840/2P	4000K	82	900(lm)	17W
	PL-C/2P18W/840	MASTER PL-C 18W/840/2P	4000K	82	1200(lm)	25W
	PL-C/2P26W/840	MASTER PL-C 26W/840/2P	4000K	82	1800(lm)	33W
PL-C/4P						
	PL-C/4P10W/830	MASTER PL-C 10W/830/4P	3000K	82	600(lm)	12W
	PL-C/4P13W/830	MASTER PL-C 13W/830/4P	3000K	82	900(lm)	15W
	PL-C/4P18W/830	MASTER PL-C 18W/830/4P	3000K	82	1200(lm)	18W
	PL-C/4P26W/830	MASTER PL-C 26W/840/4P	3000K	82	1800(lm)	26W
	PL-C/4P10W/840	MASTER PL-C 10W/840/4P	4000K	82	600(lm)	12W
	PL-C/4P13W/840	MASTER PL-C 13W/840/4P	4000K	82	900(lm)	15W
	PL-C/4P18W/840	MASTER PL-C 18W/840/4P	4000K	82	1200(lm)	18W
	PL-C/4P26W/840	MASTER PL-C 26W/840/4P	4000K	82	1800(lm)	26W
PL-L/4P						
	PL-L/18W/830	MASTER PL-L 18W/830/4P	3000K	82	1200(lm)	27W
	PL-L/24W/830	MASTER PL-L 24W/830/4P	3000K	82	1800(lm)	32W
	PL-L/36W/830	MASTER PL-L 36W/830/4P	3000K	82	2900(lm)	44W
	PL-L/18W/840	MASTER PL-L 18W/840/4P	4000K	82	1200(lm)	27W
	PL-L/24W/840	MASTER PL-L 24W/840/4P	4000K	82	1800(lm)	32W
	PL-L/36W/840	MASTER PL-L 36W/840/4P	4000K	82	2900(lm)	44W
	PL-L/40W/840	MASTER PL-L 40W/840/4P	4000K	82	3500(lm)	44W
	PL-L/55W/840	MASTER PL-L 55W/840/4P	4000K	82	4800(lm)	58W
	PL-L/80W/841	MASTER PL-L 80W/840/4P	4000K	82	6000(lm)	88W
PL-S/2P						
	PL-S/2P5W/830	MASTER PL-S PRO 5W/830/2P	3000K	82	250(lm)	10W
	PL-S/2P7W/830	MASTER PL-S PRO 7W/830/2P	3000K	82	400(lm)	12W
	PL-S/2P9W/830	MASTER PL-S PRO 9W/830/2P	3000K	82	600(lm)	14W
	PL-S/2P11W/830	MASTER PL-S PRO 11W/830/2P	3000K	82	900(lm)	16W
	PL-S/2P5W/840	MASTER PL-S PRO 5W/840/2P	4000K	82	250(lm)	10W
	PL-S/2P7W/840	MASTER PL-S PRO 7W/840/2P	4000K	82	400(lm)	12W
	PL-S/2P9W/840	MASTER PL-S PRO 9W/840/2P	4000K	82	600(lm)	14W
	PL-S/2P11W/840	MASTER PL-S PRO 11W/840/2P	4000K	82	900(lm)	16W
PL-S./4P						
	PL-S/4P5W/830	MASTER PL-S 5W/830/4P	3000K	82	250(lm)	5W
	PL-S/4P7W/830	MASTER PL-S 7W/830/4P	3000K	82	400(lm)	8W
	PL-S/4P9W/830	MASTER PL-S 9W/830/4P	3000K	82	600(lm)	10W
	PL-S/4P11W/830	MASTER PL-S 11W/830/4P	3000K	82	900(lm)	13W

Lamp type	Philips Product-Identification Code (PRID)	Commercial product name	Colour temp. Tc	Colour rend. Ra (cd)	Luminous flux (lm)/intensity	Wattage incl. gear
	PL-S/4P5W/840	MASTER PL-S 5W/840/4P	4000K	82	250(lm)	5W
	PL-S/4P7W/840	MASTER PL-S 7W/840/4P	4000K	82	400(lm)	8W
	PL-S/4P9W/840	MASTER PL-S 9W/840/4P	4000K	82	600(lm)	10W
	PL-S/4P11W/840	MASTER PL-S 11W/840/4P	4000K	82	900(lm)	13W
Compact Fluorescent Non-integrated PL-T/2P						
	PL-T/2P13W/830	MASTER PL-T 13W/830/2P	3000K	82	900(lm)	17W
	PL-T/2P18W/830	MASTER PL-T 18W/830/2P	3000K	82	1200(lm)	26W
	PL-T/2P26W/830	MASTER PL-T 26W/830/2P	3000K	82	1800(lm)	33W
	PL-T/2P13W/840	MASTER PL-T 13W/840/2P	4000K	82	900(lm)	17W
	PL-T/2P18W/840	MASTER PL-T 18W/840/2P	4000K	82	1200(lm)	26W
	PL-T/2P26W/840	MASTER PL-T 26W/840/2P	4000K	82	1800(lm)	33W
PL-T/4P						
	PL-T/4P 13W/830	MASTER PL-T 13W/830/4P	3000K	82	900(lm)	15W
	PL-T/4P 18W/830	MASTER PL-T 18W/830/4P	3000K	82	1200(lm)	18W
	PL-T/4P 26W/830	MASTER PL-T 26W/830/4P	3000K	82	1800(lm)	26W
	PL-T/4P 32W/830	MASTER PL-T 32W/830/4P	3000K	82	2400(lm)	35W
	PL-T/4P 42W/830	MASTER PL-T 42W/830/4P	3000K	82	3200(lm)	46W
	PL-T/4P 57W/830	MASTER PL-T 57W/830/4P	3000K	82	4300(lm)	62W
	PL-T/4P 13W/840	MASTER PL-T 13W/840/4P	4000K	82	900(lm)	15W
	PL-T/4P 18W/840	MASTER PL-T 18W/840/4P	4000K	82	1200(lm)	18W
	PL-T/4P 26W/840	MASTER PL-T 26W/840/4P	4000K	82	1800(lm)	26W
	PL-T/4P 32W/840	MASTER PL-T 32W/840/4P	4000K	82	2400(lm)	35W
	PL-T/4P 42W/840	MASTER PL-T 42W/840/4P	4000K	82	3200(lm)	46W
	PL-T/4P 57W/840	MASTER PL-T 57W/840/4P	4000K	82	4300(lm)	62W
Induction QL						
	QL 55W/830	MASTER QL 55W/830	2900K	80	3650(lm)	55W
	QL 55W/840	MASTER QL 55W/840	3750K	80	3650(lm)	55W
	QL 85W/830	MASTER QL 85W/830	2900K	80	6200(lm)	85W
	QL 85W/840	MASTER QL 85W/840	3750K	80	6300(lm)	85W
	QL 165W/830	MASTER QL 165W/830	3000K	80	12000(lm)	165W
	QL 165W/840	MASTER QL 165W/840	3850K	80	12000(lm)	165W
	QL 55W/827	MASTER QL 55W/827	2600K	80	3550(lm)	55W
	QL 85W/827	MASTER QL 85W/827	2550K	80	6100(lm)	85W
	QL 165W/827	MASTER QL 165W/827	2600K	80	11000(lm)	165W
	QL 55W/850	MASTER QL 55W/850	5000K	80	3550(lm)	55W
	QL 85W/850	MASTER QL 85W/850	5000K	80	6100(lm)	85W
	QL 165W/850	MASTER QL 165W/850	5000K	80	11000(lm)	165W
H.I.D. Mercury HP						
	HPL-C 50W E27	HPL COMFORT 50W E27	3400K	58	1800(lm)	59W
	HPL-C 80W E27	HPL COMFORT 80W E27	3400K	57	3600(lm)	90W
	HPL-C 125W E27	HPL COMFORT 125W E27	3400K	55	6200(lm)	139W
	HPL-C 250W HG E40	HPL COMFORT 250W E40	3300K	51	14200(lm)	274W
	HPL-C 400W HG E40	HPL COMFORT 400W E40	3500K	47	24200(lm)	428W
	HPL-N50W	HPL-N 50W/542 E27 SG SLV/24	4200K	49	1800(lm)	59W
	HPL-N80W	HPL-N 80W/542 E27 SG SLV/24	4200K	48	3700(lm)	90W
	HPL-N125W	HPL-N 125W/542 E40 HG SLV/24	4100K	46	6200(lm)	139W
	HPL-N250W	HPL-N 250W/542 E40 HG CRP/12	4100K	45	12700(lm)	274W
	HPL-N400W	HPL-N 400W/542 E40 HG CRP/6	3900K	45	22000(lm)	426W

Lamp type	Philips Product-Identification Code (PRID)	Commercial product name	Colour temp. Tc	Colour rend. Ra (cd)	Luminous flux (lm)/intensity	Wattage incl. gear
MASTER Colour						
	CDM-R30-35W	MASTERC CDM-R 35W/830 PAR30L 10D ICT	3000K	81	2200(lm)	47W
	CDM-R30-35W	MASTERC CDM-R 35W/830 PAR30L 30D ICT	3000K	81	2200(lm)	47W
	CDM-R30-70W	MASTERC CDM-R 70W/830 PAR30L 10D ICT	3000K	83	4850(lm)	88W
	CDM-R30-70W	MASTERC CDM-R 70W/830 PAR30L 30D ICT	3000K	83	4850(lm)	88W
	CDM-T35W	MASTERC CDM-T 35W/830 G12 ICT/12	3000K	81	3300(lm)	47W
	CDM-T70W	MASTERC CDM-T 70W/830 G12 ICT/12	3000K	84	6600(lm)	86W
	CDM-T150W	MASTERC CDM-T 150W/830 G12 ICT/12	3000K	85	14000(lm)	165W
	CDM-T250W	MASTERC CDM-T 250W/830 G12 ICT/12	3000K	89	23000(lm)	271W
	CDM-TD70W	MASTERC CDM-TD 70W/830 RX7s ICT/12	3000K	82	6500(lm)	88W
	CDM-TD150W	MASTERC CDM-TD 150W/830 RX7s ICT/12	3000K	88	13250(lm)	165W
	CDO-TT70W	MASTERC CDO-TT 70W/828 E27 SLV/12	2800K	83	6300(lm)	86W
	CDO-TT100W	MASTERC CDO-TT 100W/828 E40 SLV/12	2800K	83	8800(lm)	115W
	CDO-TT150W	MASTERC CDO-TT 150W/828 E40 SLV/12	2800K	85	13500(lm)	168W
	CDO-TT250W	MASTERC CDO-TT 250W/828 E40 SLV	2800K	85	22500(lm)	271W
	CDM-TC35W	MASTERC CDM-TC 35W/830 G8.5 ICT/12	3000K	81	3300(lm)	47W
	CDM-TC70W	MASTERC CDM-TC 70W/830 G8.5 ICT/12	3000K	83	6500(lm)	79W
	CDO-ET70W	MASTER CityWh CDO-ET 70W/828 E27 SLV/24	2820K	78	5600(lm)	86W
	CDO-ET100W	MASTER CityWh CDO-ET 100W/828 E40 SLV/24	2800K	80	8300(lm)	115W
	CDO-ET 150W	MASTER CityWh CDO-ET 150W/828 E40 SLV/12	2800K	82	12500(lm)	168W
	CDM-Tm20W	MASTERC CDM-Tm Mini 20W/830 PGJ5 ICT/12	3000K	85	1650(lm)	
	CDM-Tm35W	MASTERC CDM-Tm Mini 35W/930 PGJ5 ICT/12	3000K	90	3000(lm)	
CosmoPolis						
	CPO-TW 60W	MASTER CosmoWhite CPO-TW 60W/728 PGZ12 ICT	2730K	66	6800(lm))	67W
	* Colour temperature and colour rendering are burning-position dependent.					
	CDO-TW140W	MASTER CosmoWhite CPO-TW 140W/728 PGZ12 ICT	2860K	66	10400(lm)	154W
	CPO-TW45W	MASTER CosmoWhite CPO-TW 45W/728 PGZ12 ICT	2720K	66	4300(lm)	52W
	CPO-TW90W	MASTER CosmoWhite CPO-TW 90W/728 PGZ12 ICT	2880K	66	16500(lm)	99W
Metal Halide Low Wattage						
	MHN-TD70W	MHN-TD 70W/842 RX7s ICT/12	4200K	80	5700(lm)	88W
	MHN-TD150W	MHN-TD 150W/842 RX7s ICT/12	4200K	85	12900(lm)	166W
	MHN-TD250W	MHN-TD 250W/842 FC2 ICT/12	4200K	85	20000(lm)	273W
	MHN-TD70W	MHN-TD 70W/730 RX7s ICT/12	3000K	75	6200(lm)	86W
	MHN-TD150W	MHN-TD 150W/730 RX7s ICT/12	3000K	75	13800(lm)	166W
Metal Halide High Wattage						
	HPI-T 250W Plus	MASTER HPI-T 250W/645 E40	4500K	65	20500(lm)	266W
	HPI-T 400W Plus	MASTER HPI-T 400W/645 E40	4500K	65	35000(lm)	406W
	HPI-T 1000W/220V	HPI-T 1000W/643 E40 220V CRP/4	4300K	65	85000l(lm)	1041W
	HPI-T 2000W/220V	HPI-T 2000W/646 E40 220V CRP/4	3800K	65	189000(lm)	2035W
	HPI-T 2000W/380V	HPI-T 2000W/642 E40 380V CRP/4	4200K	65	183000(lm)	2029W
Metal Halide High Wattage						
	MHN-SA 1800W/230/856	MASTER MHN-SA 1800W/856 230V XW UNP	5600K	85	170000(lm)	1885W
	MHN-SA 1800W230//956	MASTER MHN-SA 1800W/956 230V XW(P)SFC UNP	5600K	90	155000(lm)	1885W
	MHN-SA 2000W/956	MASTER MHN-SA 2000W/956 400V XW UNP	5600K	90	180000(lm)	2093W
	MHN-SE 2000/956	MASTER MHN-SE 2000W/400V/956	5600K	90	202000(lm)	2133W
	MHN-FC 1000W/230V/740	MASTER MHN-FC 1000W/740 230V XW UNP	4100K	65	93000(lm)	1100W
	MHN-FC 2000W/400V/740	MASTER MHN-FC 2000W/740 400V XW UNP	4200K	60	210000(lm)	2119W

Lamp type	Philips Product-Identification Code (PRID)	Commercial product name	Colour temp. Tc	Colour rend. Ra (cd)	Luminous flux (lm)/intensity	Wattage incl. gear
Metal Halide High Wattage						
	MHN-LA 2000W/400V/842	MASTER MHN-LA 2000W/842 400V XWH UNP	4200K	80	22000(lm)	1078W
	MHN-LA 2000W/400V/956	MASTER MHN-LA 2000W/956 400V XWH UNP	5600K	90	190000(lm)	1078W
	MHN-LA 1000W/230V/842	MASTER MHN-LA 1000W/842 230V XWH UNP	4200K	80	100000(lm)	2123W
	MHN-LA 1000W/230V/956	MASTER MHN-LA 1000W/956 230V XWH UNP	5600K	90	90000(lm)	2123W
Standard SON						
	SON 50W	SON 50W/220 E27 CRP	2000K	25	3500(lm)	60W
	SON 70W	SON 70W/220 E27 CRP	2000K	25	5600(lm)	83W
	SON-PP100W	MASTER SON-PIA Plus 100W/220 E40 SLV	2000K	25	10200(lm)	116W
	SON-PP150W	MASTER SON-PIA Plus 150W/220 E40 SLV	2000K	25	17000(lm)	169W
	SON-PP250W	MASTER SON-PIA Plus 250W/220 E40 SLV	2000K	25	31100(lm)	274W
	SON-PP400W	MASTER SON-PIA Plus 400W/220 E40 SLV	2000K	25	55500(lm)	431W
	SON-C150W	SON Comfort 150W/621 E40 SLV	2150K	65	12500(lm)	169W
	SON-C250W	SON Comfort 250W/621 E40 SLV	2150K	65	22000(lm)	274W
	SON-C400W	SON Comfort 400W/621 E40 SLV	2150K	65	37000(lm)	431W
Standard SON						
	SON-TPP50W	MASTER SON-T PIA Plus 50W/220 E27 SLV	2000K	25	4400(lm)	60W
	SON-TPP70W	MASTER SON-T PIA Plus 70W/220 E27 SLV	2000K	25	6600(lm)	83W
	SON-TPP100W	MASTER SON-T PIA Plus 100W/220 E40 SLV	2000K	25	10700(lm)	116W
	SON-TPP150W	MASTER SON-T PIA Plus 150W/220 E40 SLV	2000K	25	17500(lm)	169W
	SON-TPP250W	MASTER SON-T PIA Plus 250W/220 E40 SLV	2000K	25	33200(lm)	274W
	SON-TPP400W	MASTER SON-T PIA Plus 400W/220 E40 SLV	2000K	25	56500(lm)	431W
	SON-TPP600W	MASTER SON-T PIA Plus 600W/220 E40 SLV	2000K	20	90000(lm)	647W
	SON-T1000W	SON-T 1000W/220 E40 ISL	2000K	25	130000(lm)	1065W
	SON-TC150W	SON-T Comfort 150W/621 E40 SLV	2150K	65	13000(lm)	168W
	SON-TC250W	SON-T Comfort 250W/621 E40 SLV	2150K	65	23000(lm)	274W
	SON-TC400W	SON-T Comfort 400W/621 E40 SLV	2150K	65	38000(lm)	431W
White SON						
	SDW-T35W	MASTER SDW-T 35W/825 PG12-1 SLV	2500K	83	1300(lm)	43.8W
	SDW-T50W	MASTER SDW-T 50W/825 PG12-1 SLV	2500K	83	2300(lm)	67.8W
	SDW-T100W	MASTER SDW-T 100W/825 PG12-1 SLV	2550K	83	5000(lm)	116.3W
Sodium LP						
	SOX-E18W	MASTER SOX-E 18W BY22d ISL	1800K	-	1800(lm)	23.2W
	SOX-E26W	MASTER SOX-E 26W BY22d SLV	1800K	-	3600(lm)	31.6W
	SOX-E36W	MASTER SOX-E 36W BY22d SLV	1800K	-	6200(lm)	47.2W
	SOX-E66W	MASTER SOX-E 66W BY22d SLV	1800K	-	10500(lm)	83.5W
	SOX-E91W	MASTER SOX-E 91W BY22d SLV	1800K	-	17500(lm)	106.5W
	SOX-E131W	MASTER SOX-E 131W BY22d SLV	1800K	-	26200(lm)	148W
	SOX 35W	SOX 35W BY22d ISL	1800K	-	4550(lm)	43W
	SOX 55W	SOX 55W BY22d ISL	1800K	-	7800(lm)	65W
	SOX 90W	SOX 90W BY22d ISL	1800K	-	13700(lm)	101W
	SOX 135W	SOX 135W BY22d ISL	1800K	-	22600(lm)	155W
	SOX 180W	SOX 180W BY22d ISL	1800K	-	32000(lm)	196W

London, United Kingdom

Average illuminance
Illuminance averaged over a specified surface.
Unit: lux (lx) = lm/m²
Symbol: E_{av}

Ballast
Electrical device used with discharge lamps for stabilising the current in the discharge.

Beam spread
Angle in the plane through the beam axis over which the luminous intensity drops to a stated percentage (e.g. 50%) of its peak intensity.

Brightness
Attribute of visual sensation according to which an area appears to emit more or less light. Brightness according to the definition is also an attribute of colour. In British recommendations the term "brightness" is now reserved for descriptions of colour. Luminosity should be used in other instances.

Candela
The standard unit of light intensity, abbreviated to "cd", which is one lumen per steradian.

CDM
See MASTERColour CDM.

Colour appearance
General expression for the colour impression received when looking at a light source.

Colour change
The facility to change the colour temperature of a lighting installation makes it possible to create a more comfortable working environment or to introduce dynamic lighting effects.

Colour rendering
Ability of a light source to render colours naturally, without distorting the hues seen under a full spectrum radiator (like daylight lamps).
The colour rendering index (CRI) ranges from 0 to 100.
For further details see 'Specification data lamps'.

Colour rendering index CRI
See Colour rendering.
Symbol: R_a

Colour temperature
Temperature in kelvin of a full spectrum radiator most closely approximate to the colour appearance of a light source at the same brightness. For further details of Philips lamps see under 'Specification data lamps'.
Unit: kelvin, K
Symbol: Tc

Contrast C (between two parts of a visual field)
The relevant luminance difference between two parts in accordance with the formula:

$$C = \frac{L1 - L2}{L2}$$

Where the size of the two parts differs greatly and where:
L1 = luminance of the smallest part (object)
L2 = luminance of the largest part (background).

DALI
Digital Addressable Lighting Interface, a standardised communication interface to regulate lighting levels and to switch electronic HFD ballasts on and off.

Daylight linking
Using natural light saves energy and is beneficial to individual users. Daylight linking is a technique that regulates the light output of luminaires in accordance with daylight conditions, thus maintaining a constant level of indoor lighting and ensuring comfort at all times.

Diffuser
Optical element used to mix light rays to improve uniformity or reduce glare. An opal cover is an example of a diffuser.

Direct lighting
Lighting by means of luminaires with a light distribution such that 90 – 100% of the emitted luminous flux reaches the working plane directly, assuming that this plane is unbounded.

Disability glare
Glare that impairs vision.

Discharge lamp
Lamp in which the light is produced, directly or indirectly, by an electric discharge through a gas, a metal vapour, or a mixture of several gases and vapours.

Discomfort glare
Glare that causes discomfort without necessarily impairing vision.

Driver stopping distance
The total distance travelled while a vehicle is being brought to rest, measured from the position of the vehicle at the instant the driver has an opportunity to perceive that he should stop his vehicle.

Dust-proof luminaire
Luminaire constructed so that dust of a specified nature and fineness cannot enter when it is used in a dust-laden atmosphere.

Emergency lighting
Lighting provided for use when the supply to the normal lighting fails.

EOC
European Ordering Code.

Escape lighting
That part of emergency lighting provided to ensure that an escape route can be effectively identified and used in the case of failure of the normal lighting system.

Flashed area
Of a luminaire in a given direction. The area of the orthogonal projection of the luminous surface on a plane perpendicular to the specified direction.

Fresnel lens or reflector
A Fresnel lens or reflector is an optical element of reduced height. By means of discrete steps, the basic shape is flattened yet the optical characteristics are retained.

Glare
Condition of vision in which there is discomfort or a reduction in the ability to see significant objects, or both, due to an unsuitable distribution or range of luminance or to extreme contrast in space or time.

Halogen lamp
Lamp in which the inclusion of halogens in the gas filling and a high-temperature quartz envelope promote the tungsten halogen cycle, permitting a higher filament temperature. The result is a higher colour temperature and a significantly extended life.

Halogen HV
"High voltage" 230 V halogen lamp, which does not require a ballast or a transformer.

Halogen LV
"Low voltage" 6 V, 12 V or 24 V halogen lamp. An electronic or electromagnetic transformer is required to operate low-voltage halogen lamps and is often integrated into the luminaire.

HFD
Electronic regulating ballast which enables the light to be dimmed. Ballast functions according to the DALI protocol.

HFD-T
Electronic regulating DALI ballast for various fluorescent lamps. With this new-style electronic ballast standard push-buttons can be used to dim the light output down to 3%. The lamp can also be switched on or off using the push-button control.
Ballast functions according to the DALI protocol. HFM
Compactly built electronic ballast for various compact fluorescent lamp types. See also 'Specification data luminaires'.

HFP
Electronic ballast for various fluorescent lamp types with warm-start principle. See also 'Specification data luminaires'.

HFR
Electronic regulating ballast for various fluorescent lamp types by which light dimming is possible. The main ranges of HFR ballasts allow step-less dimming down to 3%. See also 'Specification data luminaires'.

Horizontal illuminance (E_{hor})
Illuminance incident on the horizontal surface.
Unit: lux (lx) = lm/m²
Symbol: E_{hor}

HPI Plus lamp
Metal-halide high-intensity discharge lamp combining high luminous efficacy with white light of moderate colour rendering. Main indoor applications are big industrial halls and lighting of discount stores, hyper-/supermarkets and DIY shops. HPI Plus lamps are usually applied in high-bay luminaires and floodlights.

Illuminance
The luminous flux density at the surface being lit. The illuminance in the full summer sun is approx. 100 000 lux. Recommended illuminances for work places range from 200 lux for rough work to 2000 lux for detailed or critical work.
Unit: lux (lx) = lm/m²
Symbol: E

Incandescent lamp
Lamp in which light is produced by means of an element heated to incandescence by the passage of an electric current.

Indirect lighting
Lighting by means of luminaires with a light distribution such that not more than 10 per cent of the emitted luminous flux reaches the working plane directly, assuming that this plane is unbounded.

Induction lighting QL
Electrode-less induction lighting system characterised by good light quality, high luminous efficacy and a phenomenal life (60 000 hours).

Infrared remote control
In offices and meeting rooms where the lighting requirement changes frequently, wireless infrared control offers the flexibility to set the lighting and change it at any time.

Isocandela curve (diagram)
Curve traced on an imaginary sphere with the source at its centre and joining all adjacent points corresponding to those directions in which the luminous intensity is the same, or a plane projection of this curve.

Isolux curve (diagram)
Locus of points on a surface where the illuminance has the same value.

Jet-proof luminaire
Luminaire constructed to withstand a direct jet of water from any direction.

LED
Light Emitting Diode used as a light source. Solid-state semiconductor device that converts electrical energy directly into light of a specific colour or white light.

Light output ratio (LOR)
Ratio of the total light emitted by a luminaire to the total light output of the lamp(s) it contains measured at standard operating conditions.

Low-pressure sodium lamp
Sodium vapour lamp in which the partial pressure of the vapour during operation does not exceed 5 Pa – for example: a SOX lamp.

Lumen depreciation
The decline in the light output of a light source during its lifetime.

Luminaire
Appliance that distributes, filters or transforms the light given by a light source (LED or lamp), and which contains all the necessary elements for fixing and protecting the light source(s) and facilitates their power supply and operating conditions.

Luminance
The light intensity per square metre of apparent area of the light source, luminaire or illuminated surface. Where surfaces are lit, the luminance depends upon both lighting level and reflection characteristics of the luminous surface.
Unit: cd/m²
Symbol: L

Luminous efficacy
The quantity of light that a light source emits per unit of electrical energy consumed. Notice that the luminous efficacy can be specified for a light source or for a lighting system (lamp and ballast).
The luminous efficacy of a system is lower than that of the light source.
Unit: lm/W

Luminous flux
The total light output emitted by a light source. Also the total light falling on a surface. The light output of a light source is measured in lumen.
Unit: lumen
Symbol: ϕ

Luminous intensity
The luminous flux in a given direction, e.g. from a floodlight or projector.
Unit: candela (cd) = one lumen per steradian
Symbol: I

Luminous intensity distribution diagram (table)
Luminous intensity shown in the form of a polar diagram, cartesian diagram or table, in terms of candelas per 1 000 lumens of lamp flux. The diagram (table) for non-symmetrical light distributions gives the light distribution of a luminaire in at least two planes:
1. In a vertical plane through the longitudinal axis of the luminaire,
2. In a plane at right angles to that axis.

Note: The luminous intensity diagram (table) can be used:
a. To provide a rough idea of the light distribution of the luminaire,
b. For the calculation of illuminance values at a point,
c. For the calculation of the luminance distribution of the luminaire.

Lux
The standard unit of illuminance of a surface being lit. One lux equals one lumen per square metre.

Maintained emergency lighting
Emergency lighting where the lamps are operated from the normal supply during standard conditions. In an emergency situation the emergency lamp (usually one lamp in luminaires of two or more lamps) remains in operation.

Maintained illuminance (luminance)
Value below which the average illuminance on the specified surface is not allowed to fall. The maintained illuminance is specified at the end of the maintenance cycle, taking into consideration the maintenance factor.
It is one of the main specification elements for the lighting designer. In the various standards the maintained illuminance is specified for various activities.
Unit: lux
Symbol: E_m, L_m

Maintenance factor
Correction factor used in lighting design to compensate for the rate of lumen depreciation, caused by lamp ageing (lumen depreciation and lamp failure) and dirt accumulation (luminaire and environment).
It determines the maintenance cycle needed to ensure that illuminance does not fall below the maintained value.

MASTERColour CDM lamp
Series of metal-halide discharge lamps with excellent colour rendering and a warm or neutral colour impression. MASTERColour lamps, also available as reflector lamps, are applied in projectors and downlights for shop and office applications.

Mercury lamp
High-intensity discharge lamp for use in industry and large public spaces. Higher quality light characteristics are obtained by applying metal-halide lamps.

Metal-halide lamp
Single- or double-ended discharge lamp for use in industry, public spaces and shops. Metal-halide lamps combine a natural white colour with a pleasant light and a high luminous intensity.

Movement detection
Sensing of occupancy by movement detection ensures lights are activated only when needed and enables the lighting in a specific area to be controlled.

Non-maintained emergency lighting
Emergency lighting where the emergency lighting lamps come into operation only when the power supply to normal lighting fails.

Obtrusive light
Spill light which because of quantitative, directional and spectral attributes in a given context, gives rise to annoyance, discomfort, distraction or a reduction in the ability to see essential information.

OLC
Omnidirectional Lighting Control, a Philips-patented series of optics for TL5 and TL-D lamps offering optimal lighting efficiency in combination with excellent glare and luminance control all around the luminaire.

Optic
A device that changes the direction of a beam of light, usually by reflection, diffusion or refraction by a lens. The optic may include louvres for reduction of glare.

PL lamp
Single-ended compact fluorescent lamp in which the discharge tube is folded into two, four or six limbs. PL lamps are characterised by unusually high light output for their length. They are applied in compact luminaires for professional and domestic use. Also available with integrated ballast.

Power factor
Ratio of the circuit power in watts over the product of the root-mean-square values of voltage and current. For sinusoidal waveforms, it is equal to the cosine of the angle of phase difference between voltage and current. For electronic ballasts the power factor is 0.95 so that no additional phase compensation is required.

QL lamp
See Induction lighting.Refractor
Optical element used to concentrate light rays to focus or improve the direction of light. A prismatic cover is an example of a refractor.

RGB
Red, green and blue, used to specify the colours of a light source.

SDW-T
White SON or SDW-T lamps offer a high luminous efficacy in combination with warm-white light. The colour rendering is excellent. SDW-T lamps are applied in shops and public spaces where the atmosphere should be warm and cosy.

Sky glow
The brightening of the night sky that results from the reflection of radiation (visible and non-visible), scattered from the constituents of the atmosphere (gas molecules, aerosols and particulate matter), in the direction of obervation. It comprises two separate components as follows:
a. Natural sky glow: That part of the sky glow which is attributable to radiation from celestial sources and luminescent processes in the earth's upper atmosphere.
b. Man-made sky glow: That part of the sky glow which is attributable to man-made sources of radiation (e.g. outdoor electric lighting), including radiation that is emitted directly upwards and radiation that is reflected from the surface of the earth.

Sodium lamp, SON lamp
High-pressure discharge lamp with a yellowish colour appearance and an extremely high efficiency. SON and SON Comfort lamps, with improved colour characteristics, are mainly applied in high-bay industrial applications.

Solid-state lighting
Description of a lighting device that does not contain moving parts or parts that can break, rupture, shatter, leak or contaminate the environment (such as a lamp).

Spill light (stray light)
Light emitted by a lighting installation which falls outside the boundaries of the site for which the lighting installation is designed.

Starter
Device for starting a discharge lamp, in particular a fluorescent lamp, that preheats the electrodes and/or causes a voltage surge in combination with the series ballast.

Switching and dimming control
As more and more light sources can be dimmed economically, lighting controls need to provide both switching and light regulating capabilities.

TL5
Linear double-ended fluorescent lamp with a diameter of 16 mm. In combination with OLC optics and high-frequency ballasts the TL5 system offers a superb performance, both in terms of lighting technology and energy consumption.

TL-D
Linear double-ended fluorescent lamp with a diameter of 26 mm. Available in a range of colours and colour rendering characteristics.

Threshold increment (TI)
The measure of disability glare expressed as the percentage increase in the contrast required between an object and its background for it to be seen equally well with a source of glare present.
Note: Higher values of TI correspond to greater disability glare.

Uniformity ratio
Ratio of the minimum over the average illuminance for a specified area (E_{min}/E_{ave}). When defined as such, the uniformity ratio is also the ratio of the minimum over the maximum illuminance for a specified surface area (E_{min}/E_{max}).

Utilisation factor
Utilisation factor (UF) of a lighting installation represents the percentage of the luminous flux of the lamp(s) that reaches the defined working plane. UF can be seen as the efficiency of the lighting installation. UF is used to calculate the number of luminaires required.

Vertical illuminance
Illuminance incident on the vertical surface.
Unit: lux (lx) = lm/m²
Symbol: E_{vert}

Visual guidance
The sum of the measures taken to give the user of a space an unambiguous and immediately recognisable picture of the course of the path ahead. Visual guidance is important in shops and other public buildings. The lighting designer takes the demands for visual guidance into consideration.

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Document order number: 3222 635 67261