



Lamps & Lighting Electronics Catalogue 2009

Includes WEEE fee indicator



PHILIPS

sense and simplicity

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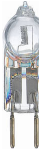
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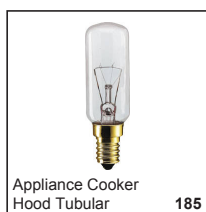
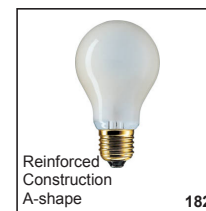
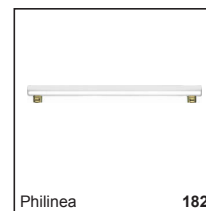
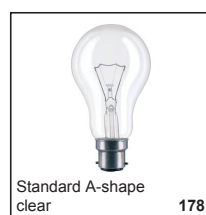
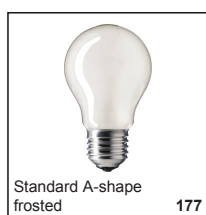
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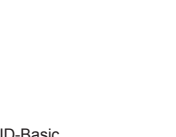
		
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Enhancing people's lives with lighting

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, moods 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, therefore, that will help us create a sustainable future.



For the latest details on our extensive range of innovative lighting solutions, please visit www.philips.com/catalog

**“Help your city save costs
and the environment.”**

(City of Lyon, France)



Make the switch now and go eco!

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www.asimpleswitch.com



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**“We take care that our solutions
are the best choice for your
business and the environment.”**

Robert Pfarrwaller, Country Lighting Chairman
Germany, Austria, Switzerland



Make the switch now and go eco!

Philips offers a full portfolio of energy saving lighting solutions. You can recognise these products by our Green Logo. Products with this logo are not only energy efficient, and so reduce the running cost of lighting, but also provide better-quality light. It's a simple switch!



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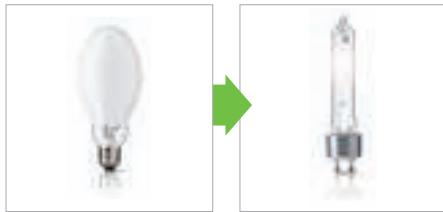


[asimpleswitch.com](http://www.asimpleswitch.com)

Some examples of our solutions to be greener and to save money:

Street lighting

HPL



CosmoPolis

Energy savings	57%
CO ₂ savings per lamp per year	132 kg CO ₂

Retail lighting

Halo

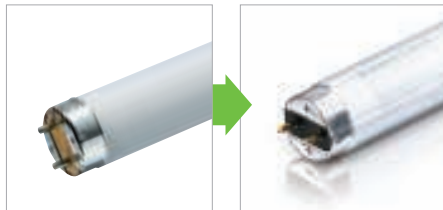


CDM

Energy savings	80%
CO ₂ savings per lamp per year	140 kg CO ₂

Office & industry lighting

T8



TL5

Energy savings	61%
CO ₂ savings per lamp per year	93 kg CO ₂

Home lighting

GLS



CFLi

Energy savings	81%
CO ₂ savings per lamp per year	41 kg CO ₂

LEDs

GLS



LEDs

Energy savings	81%
CO ₂ savings per lamp per year	41 kg CO ₂

LED Lighting Systems

LED String System

Affinium LED string low and medium power



Product Description

- Complete, easy-to-install system comprising a flexible line of wire-connected LEDs in combination with a Philips LED Power Driver
- Ideal for signlighting; channel letters and bandlighting

Product Features

- Broad light output angle of 130° for colored versions and 105° for the white version ensuring uniform light distribution.
- Flexible LED strings can be cut at any desired position, as long as the first LED installed after the driver is a LED Driver Device (LDD)

- Can be mounted directly on a sign backplate with clips or tape for quick, easy sign creation
 - Energy consumption only around 4 W/m (e.g. red LEDs) compared with 20 W/m for neon
 - Fully outdoor-proof (IP66)
 - Instant starting, even at temperatures as low as -20°C
 - Operating ambient temperature range -20 to +70°C
 - Mercury-free and lead-free (RoHS compliant)
 - The LED Power Drivers which operate the string have slim dimensions and copper-core insulated wires for easy connection
 - Available software tools to support customer presentation: LED String Layout Creator (design tool) and Cost Savings Calculator (shows savings based on actual customer data)
- #### Product Benefits
- Benefits for signmakers:
 - easy installation
 - outdoor-proof (IP66)
 - excellent light and color uniformity of signs
 - ideal for both large and small signs
 - Quality and cost savings for signmakers' customers:
 - reliable, high-quality brand presentation
 - energy consumption only around 4 W/m (e.g. red LEDs) compared with 20 W/m for neon, for substantial savings in operating costs
 - high reliability and long lifetime of LED strings offer savings in maintenance costs
 - both the LED strings and drivers are maintenance-free for up to 50,000 hours, while conventional systems often need replacing after just 20,000 hours
 - lumen maintenance 50% at 50,000 hours (T_{ambient} 70°C)
 - Guaranteed performance and service based on proven system reliability:
 - long lifetime of LEDs and all other components
 - exhaustive system testing
 - outdoor-proof to IP66 (both system and components)

- excellent heat management
- high customer satisfaction together with low service call rates for signmakers

Environment

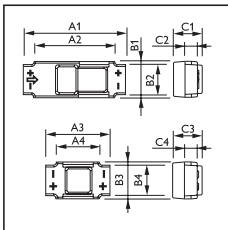
- Philips Green product
- High energy efficiency; up to 80% savings compared with fluorescent and neon lighting
- RoHS compliant – mercury and lead free
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/signage for the latest information

Application

- Sign lighting; channel letters and band lighting

System

- Available in both white and colored versions (red, amber, green, blue)
- Choice of LED Power Drivers of 20, 60 or 100W and various accessories for fast and reliable installation



A1	A2	A3	A4	B1	B2	B3	C1	C2	C3
nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.
42.6	34.6	26	18	15	12.5	15	12	5.2	10.9

Type	Wattage	Luminous Flux per meter	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece
	(W)	(°)	(lm/m)				(£)
Affinium LED string lp blue P10	0.233	130	32	UNP / 1	1	LS2-BLUE	763712 00 1, 275.75
Affinium LED string lp green P10	0.233	110	63	UNP / 1	1	LS2-GREEN	763736 00 1, 275.75
Affinium LED string lp red P10	0.221	130	70	UNP / 1	1		763675 00
Affinium LED string lp w6300 P10	0.114	105	64	UNP / 1	1		763750 00
Affinium LED string mp amber P10	0.228	120	85	UNP / 1	1	LS2 AMBER MP	766102 00 2, 840.01
Affinium LED string mp w3000 P10	0.228	105	140	UNP / 1	1		766041 00
Affinium LED string mp w6300 P10	0.228	105	170	UNP / 1	1		764481 00

Affinium LED string high power



Product Description

- Complete, easy-to-install system comprising a flexible line of wire-connected LEDs in combination with a Philips LED Power Driver
- Ideal for signlighting; large channel letters and bandlighting

Product Features

- Broad light output angle of 130°, ensuring uniform light distribution.
- Flexible LED strings can be cut at any desired position.

- Philips dedicated mounting clips must be used to attach Affinium LED String high power to the back plate.
- Energy consumption only around 5 W/m compared with 20 W/m for neon, enabling more brightness.
- Green Flagship product line, being at least 80% more efficient than traditional fluorescent lighting
- Fully outdoor-proof (IP66)
- Instant starting, even at temperatures as low as -20°C
- Operating ambient temperature range -20 to +60°C
- Packing volume is 10 meter
- Mercury-free and lead-free (RoHS compliant)
- The LED Power Drivers which operate the string have slim dimensions and copper-core insulated wires for easy connection

- Available software tools to support customer presentation: LED String Layout Creator (design tool) and Cost Savings Calculator (shows savings based on actual customer data)

Product Benefits

- Benefits for signmakers:
 - easy installation
 - outdoor-proof (IP66)
 - excellent light and color uniformity of signs
 - ideal for large signs
- Quality and cost savings for signmakers' customers:
 - reliable, high-quality brand presentation
 - energy consumption only around 5 W/m compared to 20 W/m for neon, for substantial savings in operating costs
 - high reliability and long lifetime of LED strings offer savings in maintenance costs
 - both the LED strings and drivers are maintenance-free for up to 50,000 hours, while conventional systems often need replacing after just 20,000 hours

- lumen maintenance 50% at 50,000 hours, at a temperature in the sign of 40°C. Based on calculations and extrapolated test data

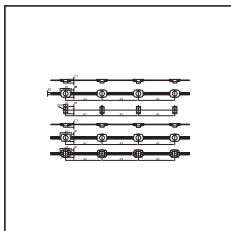
- Guaranteed performance and service based on proven system reliability:
 - long lifetime of LEDs and all other components
 - exhaustive system testing
 - outdoor-proof to IP66 (both system and components)
 - excellent heat management
 - high customer satisfaction together with low service call rates for signmakers

Application

- Sign lighting; large channel letters and band lighting

System

- Available in warm white, cool white green and blue)
- Choice of LED Power Drivers of 20, 60 or 100W and various accessories for fast and reliable installation



A1	A2	A3	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.
56	175	20	35	8.67	18	4.2

Type	Wattage	Luminous Flux per meter	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...
	(W)	(°)	(lm/m)			
Affinium LED string hp Green P17	0.72	130	134	UNP / 1	1	LS2-HP P17 GR 805857 00
Affinium LED string hp w6300 P17	0.8	130	300	UNP / 1	1	LS2-HP P17W6300 805864 00
Affinium LED string hp w3000 P17	0.72	130	184	UNP / 1	1	LS2-HP P17W3000 805871 00
Affinium LED string hp blue P17	0.8	130	62	UNP / 1	1	LS2-HP P17 BL 815559 00

Affinium LED string kit



Product Description

- All-in-one-box solution allowing quick, easy configuration and installation of flexible wire-connected LEDs for architectural and decorative lighting applications

Product Features

- Complete, easy-to-install system comprising a flexible line of wire-connected LEDs with Philips LED Power Driver, connectors, wiring, tape pads and Quick Installation Guide
- Available in both white and colored (red, green, blue, amber) versions offering excellent light and color uniformity of signs
- Available for string lengths of 2m and 6m
- Flexible LED strings can be cut at any desired position
- Uniform light distribution: broad light output angle of 130° (colored) and 105° (white)
- Can be mounted directly on a sign backplate with clips or tape for quick, easy sign creation

- Energy consumption only around 4 W/m (e.g. red LEDs) compared with 20 W/m for neon
- Robust and fully outdoor-proof (IP66)
- Instant starting, even at temperatures as low as -20°C
- Operating ambient temperature range -20 to +70°C
- Mercury-free and lead-free
- Slim LED Power Drivers have copper-core insulated wires for easy connection

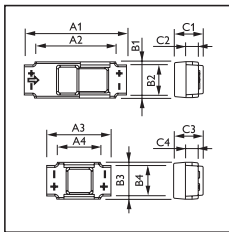
Product Benefits

- Easy configuration and installation
- Outdoor-proof (IP66)
- Excellent light and color uniformity in applications (e.g. coves)

- Energy consumption only around 4 W/m (e.g. red LEDs) for substantial savings in operating costs
- High reliability and long lifetime of LED strings offer savings in maintenance costs
- Both the LED strings and drivers are maintenance-free for up to 50,000 hours
- Lumen maintenance 50% at 50,000 hours ($T_{\text{ambient}} 70^{\circ}\text{C}$)

Application

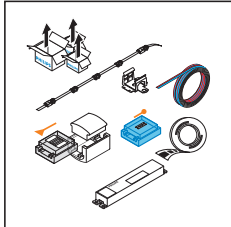
- Architectural and decorative lighting
 - Cove lighting, shelf lighting, stairs, etc.
- Sign lighting; channel letters and band lighting



A1	A2	A3	A4	B1	B2	B3	C1	C2	C3
nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.
42.6	34.6	26	18	15	12.5	15	12	5.2	10.9

Type	Wattage		Luminous Flux per meter	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (€)
	(W)	(°)	(lm/m)					
Affinium LED string kit 2m amber	0.221	130	45	UNP / 10	10	LEDSTKIT2A	764122 30	130.90
Affinium LED string kit 2m blue	0.233	130	28	UNP / 10	10	LEDSTKIT2B	764146 30	165.81
Affinium LED string kit 2m green	0.233	130	63	UNP / 10	10	LEDSTKIT2G	764160 30	165.81
Affinium LED string kit 2m red	0.221	130	70	UNP / 10	10		764108 30	
Affinium LED string kit 2m w3000	0.114	105	50	UNP / 10	10	LEDSTKIT2WW	764443 30	
Affinium LED string kit 2m w6300	0.114	105	58	UNP / 10	10	LEDSTKIT2W	764184 30	191.99
Affinium LED string kit 6m amber	0.221	130	45	UNP / 5	5	LEDSTKIT6A	764221 30	281.01
Affinium LED string kit 6m blue	0.233	130	28	UNP / 5	5	LEDSTKIT6B	764245 30	396.22
Affinium LED string kit 6m green	0.233	130	63	UNP / 5	5	LEDSTKIT6G	764269 30	396.22
Affinium LED string kit 6m red	0.221	130	70	UNP / 5	5	LEDSTKIT6R	764207 30	281.01
Affinium LED string kit 6m w3000	0.114	105	50	UNP / 5	5	LEDSTKIT6WW	764467 30	
Affinium LED string kit 6m w6300	0.114	105	58	UNP / 5	5	LEDSTKIT6W	764283 30	480.00

Accessories for Affinium LED string low and medium power



Product Description

- A range of installation accessories for Philips Affinium LED string low and medium power, such as connectors (with enclosed connector applicator), connector tool, extension cable, mounting clips and double-sided adhesive tape pads

Product Features

- The connector applicator is enclosed in the packing of the connector Xtend
- Double-sided adhesive tape pads have been tested for use on stainless steel, aluminium and PMMA

- If adhesive tape pads are to be used on non-tested materials or coatings, compatibility with adhesive tape should be ensured
- Dedicated mounting clips can be used when adhesive tape pads do not provide sufficient adhesion
- If there is any doubt about the adhesive strength of the adhesive tape pads to the mounting surface, the dedicated mounting clips should be used instead
- Both the connector types (Xtend and End Cap) ensure a reliable IP66 Rated connection of the LED String

Environment

- RoHS compliant
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/signage for the latest information

Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
connector xtend	UNP / 10	10		763972 30	
connector tool	UNP / 1	1		765686 00	
extension cable 4-wire	UNP / 1	1		763934 00	
Mounting Clip	UNP / 200	200		763910 30	
mounting tape 1680 pads	UNP / 1	1	LS2 TAPE 1700	764030 00	518.42
mounting tape 210 pads	UNP / 1	1		764016 00	

Accessories for Affinium LED string high power



Product Description

- Range of installation and mounting accessories for Affinium LED string products, including connectors, connector applicator, connector tool, extension cables, mounting clips and double-sided adhesive tape pads.

Product Features

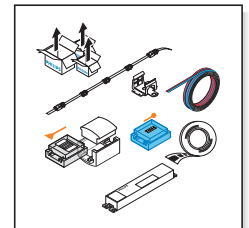
- Philips dedicated mounting clips must be used to attach Affinium LED string high power to the backplate.

Product Benefits

- Easy installation
- Solid, reliable connections

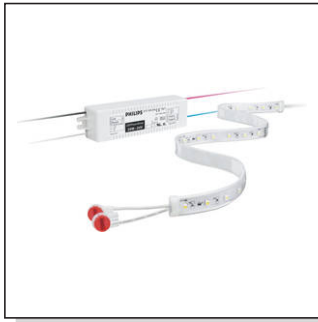
Application

- Channel letters



Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number
connector end cap	UNP / 10	10		8711559 763996 30
LS hp mounting clip	UNP	62	LS2-HP M CLIP	8727900 805895 00
LS hp cable 4xAWG24	UNP / 1	1	LS2HP CABLE	8727900 805901 00
LS hp connector end cap	UNP / 10	10	LS2-HP ENDCAP	8727900 805932 00

Affinium LED string slim bright



Product Description

- Energy-saving solution for creating attention-getting small and/or slim channel and box letters up to 50 cm high

Product Features

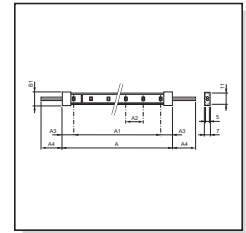
- Flexible, easy-to-install string of LEDs in a choice of four lengths: 10, 20, 50 and 100 cm
- Specially designed optics for side or edge-mounted applications
- High energy efficiency; up to 80% savings compared with fluorescent lighting
- Instant start across entire operating ambient temperature range -20 to +60°C
- Robust and fully outdoor-proof (IP66)
- Three-year performance guarantee

Product Benefits

- Optimal presentation of corporate identity with stunning bright light effect; excellent light and colour uniformity ensures a consistent image that stands out, even on busy streets
- High flexibility is ideal for small and/or slim channel and box letters up to 50 cm high and allows fast layout and installation
- Low energy consumption – less than 4 W/m compared with 20 W/m for neon

Application

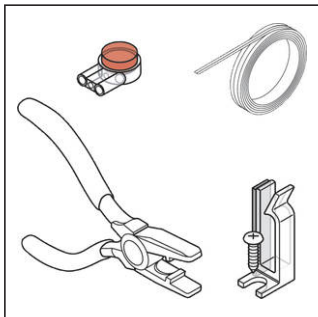
- Sign lighting; small and/or slim channel and box letters



Dim. no.	A nom.	A1 nom.	A3 nom.	A4 nom.	B1 nom.
1	106	83.5	12	200	13
2	206	183.7	12	200	13
3	507	484.3	12	200	13
4	1008	985.3	12	200	13

Type	Wattage (W)	 (°)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
Affinium LED string sb W6300 0.1	0.312	120	1	UNP / 10	10	LS-SB-CW 0.1M	852844 00	23.67
Affinium LED string sb W6300 0.2	0.624	120	2	UNP / 5	5	LS-SB-CW 0.2M	852851 00	43.58
Affinium LED string sb W6300 0.5	1.56	120	3	UNP / 2	2	LS-SB-CW 0.5M	852875 00	99.93
Affinium LED string sb W6300 1.0	3.12	120	4	UNP / 1	1	LS-SB-CW 1.0M	852882 00	181.52

Accessories for Affinium LED string slim bright



Product Description

- Range of installation and mounting accessories for Affinium LED string products, including connectors, connector applicator, connector tool, extension cables, mounting clips and double-sided adhesive tape pads

Product Features

- Philips dedicated mounting clips must be used to attach Affinium LED string products to the backplate

Product Benefits

- Easy installation

- Solid, reliable connections

Application

- Channel letters

Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
LS SB Connector	UNP / 10	10	LS-SB-CONNECTOR	854794 00	0.90
LS SB Connector Tool	UNP / 1	1	LS-SB-TOOL	854800 00	240.42
LS SB Mounting Clip	UNP / 100	100	LS-SB-CLIP	854985 00	
LS SB Extension Cable	UNP / 1	1	LS-SB-CABLE	855012 00	

LED Retrofit Lamps MASTER LEDbulb



Product description

MASTER LEDbulb A60 7W delivers a dimmable glow effect for a welcoming, warm atmosphere and its unique design radiates warm light in all directions, making it a true alternative to the incandescent lamp. MASTER LEDbulb A55 6W delivers a dimmable, soft, warm light. MASTERLEDbulbs are ideal for general lighting applications in the hospitality industry. They are particularly suited to public areas such as lobbies, corridors, stairwells, where the light is always on.

Compatible with existing fixtures with an E27 holder and designed for retrofit replacement of 25 and 40W incandescent bulbs, MASTER

LEDbulbs deliver huge energy savings and minimise maintenance cost without any compromise on light quality.

It can be used together with most leading-edge dimmers, enabling further efficiencies that will help hospitality owners recoup their investment within one year.

Product Features

- 7W to replace 40W incandescent bulb
- 6W to replace 25W incandescent bulb
- Lower maintenance cost
 - 45 times longer lifetime for the 6 W version
 - 25 times longer lifetime for the 7 W version

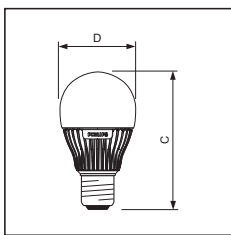
- Dimmable down to 10%
- Retrofit and compatible with existing fixtures with E27 holder for easy installation
- Free of mercury and hazardous materials

Product Benefits

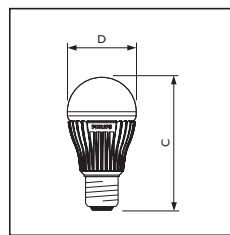
- Glow effect – warm light all around with the MASTER LEDbulb 7 W
- Soft, warm light and elegant image with the MASTER LEDbulb 6 W
- 80% energy saving

Applications

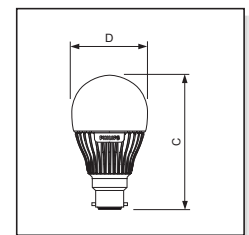
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells



Dim. no.	C nom.	D nom.
1	108.9	60



Dim. no.	C nom.	D nom.
2	106	55
3	106.5	55.5



Dim. no.	C nom.	D nom.
4	108.9	60

MASTER LEDbulb 230V

Wattage	Cap-Base	Bulb	Luminous Flux	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
(W)			(lm)	(h)						(£)
7	ES	A60	400	25000	1	1CT / 6	6	MLEDD7WA602700	853056 00	50.00
6	ES	A55	240	45000	2	1CT / 6	6	MLEDD6WA552700	853537 00	45.00
7	BC	A60	400	25000	4	1CT / 6	6		866513 00	
7	ES	A55	230	45000	3	1CT / 6	6	MLEDD7A554200	867381 00	
7	ES	A55	180	45000	3	1CT / 6	6		867404 00	
7	ES	A55	180	45000	3	1CT / 6	6	MLEDD7A552700	867503 00	88.60

MASTER LEDspot MV



Product Description

Delivering a warm, halogen-like accent beam, MASTER LEDspot GU10 is ideal for spot lighting (track, corridors, lift lobbies, display cases and cabinets) in the hospitality industry. It is particularly suited to public areas such as lobbies, corridors, stairwells, where the light is on 24/7. MASTER LED spot GU10 delivers huge energy savings and minimises maintenance cost without any compromise on brightness, enabling hospitality owners to achieve a return on their investment within one year. Compatible with most existing

fixtures with a GU10 holder and designed as a retrofit replacement alternative for 35 and 50 W halogen lamps.

Product Features

- 3 W to replace 35 W Halogen Essential Twistline GU10
- 7 W to replace 50 W Halogen Essential Twistline GU10
- 7 W to replace 50 W to 60W incandescent Spot
- Dimmable down to 10% on the 7 W version
- Lower maintenance cost - 11 times longer lifetime for the 3 W version

-22 times longer lifetime for the 7 W version

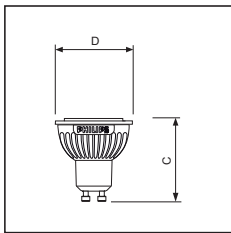
- Retrofit and compatible with most existing fixtures with GU10 or E27 holder for easy installation
- Free of mercury and hazardous materials

Product Benefits

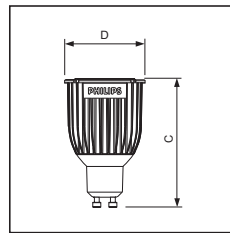
- 85% energy saving
- Return on investment within one year

Applications

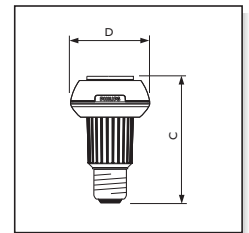
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells



Dim. no.	C nom.	D nom.
1	55.5	50



Dim. no.	C nom.	D nom.
2	80.5	50.2



Dim. no.	C nom.	D nom.
3	101	63.3

MASTER LEDspotMV

Wattage	Vol-tage	Cap-Base	Bulb	Luminous Flux	Luminous Intensity	Average Lifetime	Dim. no.	Packing type/ Packing configura-tion	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
(W)	(V)			(lm)	(cd)	(h)						
3	240	GU10	Reflector	105	550	22000	1	1CT / 10	10	MLED3WGU103025	852974 00	40.00
7	240	GU10	Reflector	250	1000	40000	2	1CT / 6	6		860337 00	
7	240	GU10	Reflector	250	400	40000	2	1CT / 6	6		860351 00	
7	240	GU10	Reflector	270	1150	40000	2	1CT / 6	6		860399 00	
7	240	GU10	Reflector	270	540	40000	2	1CT / 6	6		860412 00	
7	240	GU10	Reflector	270	1150	40000	2	1CT / 6	6		860436 00	
7	240	GU10	Reflector	270	540	40000	2	1CT / 6	6		860450 00	
7	230	ES	NR63	230	800	45000	3	1CT / 6	6	MLEDD7NR634225	867428 00	
7	230	ES	NR63	180	575	45000	3	1CT / 6	6	MLEDD7NR632725	867442 00	
7	230	ES	NR63	220	320	45000	3	1CT / 6	6	MLEDD7NR634240	867466 00	
7	230	ES	NR63	180	230	45000	3	1CT / 6	6	MLEDD7NR632740	867480 00	
7	230	GU10	Reflector	230	800	45000	2	1CT / 6	6	MLEDD7GU104225	867527 00	
7	230	GU10	Reflector	180	575	45000	2	1CT / 6	6	MLEDD7GU103025	867565 00	
7	230	GU10	Reflector	220	320	45000	2	1CT / 6	6	MLEDD7GU104240	867589 00	
7	230	GU10	Reflector	180	230	45000	2	1CT / 6	6	MLEDD7GU103040	867640 00	
7	230	GU10	Reflector	180	575	45000	2	1CT / 6	6	MLEDD7GU102725	867671 00	
7	230	GU10	Reflector	180	230	45000	2	1CT / 6	6	MLEDD7GU102740	867725 00	
7	230	ES	NR63	180	575	40000	3	1CT / 6	6	MLEDD7NR633025	867749 00	
7	230	ES	NR63	180	230	45000	3	1CT / 6	6	MLEDD7NR633040	867787 00	

MASTER LEDspot PAR



Product Description

With its robust design and warm-white beam of light, these new-generation PAR lamps are ideal for general lighting and spot lighting in the hospitality industry. They are especially suitable for public areas such as lobbies, corridors, stairwells, where the light is always on.

Compatible with existing fixtures with an E27 holder and designed for retrofit replacement of 75W halogen lamps, MASTER LEDspot PAR 38/

PAR 30 deliver huge energy savings and minimise maintenance cost without any reduction in brightness. The IP44-rated outdoor version of the PAR 38 lamp is one of the few energy-saving alternatives to incandescent PAR38 outdoor lamps available today.

Product Features

- 16W LED PAR38/11W PAR30 to replace 75W Halogen PAR38/ PAR30
- Lower maintenance cost due to 22 times longer lifetime

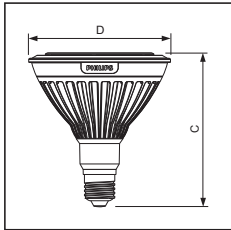
- Retrofit and compatible with existing fixtures with E27 holder for easy installation
- Free of mercury and hazardous materials

Product Benefits

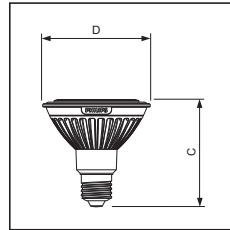
- Warm white light
- 80% energy saving

Applications

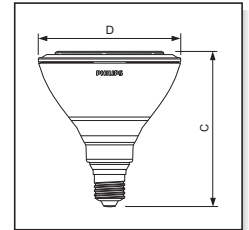
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells



Dim. no.	C nom.	D nom.
1	131	121.5



Dim. no.	C nom.	D nom.
2	90	92.1



Dim. no.	C nom.	D nom.
3	131	121.5

MASTER LEDspot 230V

Wattage	Cap-Base	Bulb	Luminous Flux	Luminous Intensity	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
(W)			(lm)	(cd)	(h)						(£)
16	ES	PAR38	600	2800	45000	1	1CT / 10	10	MLED16WPAR3827	852998 00	80.00
11	ES	PAR30S	430	1880	45000	2	1CT / 10	10	MLED11WPAR30S27	853018 00	80.00
16	ES	PAR38	600	2800	22000	3	1CT / 10	10	MLED16WPAR38OD	853032 00	100.00

Novallure Lamps



Product Description

Delivering incandescent-like sparkling light effects, Novallure LED candle and luster bulbs are ideal for general and decorative lighting in the hospitality industry, as well as in home environments. Mounted in full view in chandeliers, wall scones or modern luminaires, the clear or frosted glass bulbs fit all existing fixtures with an E14 socket. Drawing upon inputs from chandelier makers and designed to enhance the aesthetic appeal of the chandelier or luminaire, not only when lit but also when not, these

lamps come in a classical slender shape with a unique, eye-catching lens design. They produce a beautiful sparkling warm light that delivers huge energy savings and minimises maintenance cost.

Product Features

- Unique eye-catching lens design
- Inviting, sparkling light effect
- Lower maintenance cost due to 15 times longer lifetime
- Free of mercury and hazardous materials.
- available in clear and frosted

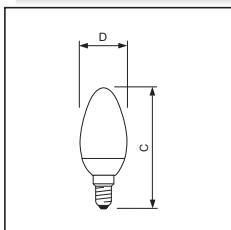
Product Benefits

- Sparkling warm light

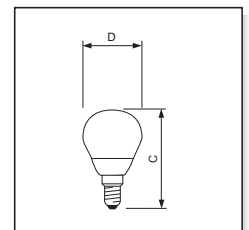
- 80% energy saving
- Classical slender shape and crystal-clear bulb, fitting all existing fixtures with E14 holders – enhances original design concept of chandelier

Application

- Hospitality applications and in the home
- Chandelier, wall scone or modern luminaire



Dim. no.	C nom.	D nom.
1	99	35.1



Dim. no.	C nom.	D nom.
2	77	45

Novallure 230-240V

Wattage	Cap-Base	Bulb	Luminous Flux	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	Ordering number 8727900...
(W)			(lm)	(h)				
2	SES	B35	50	15000	1	1CT / 10	10	852899 00
2	SES	P45	50	15000	2	1CT / 10	10	852912 00
2	SES	B35	50	15000	1	1CT / 10	10	852936 00
2	SES	P45	50	15000	2	1CT / 10	10	852950 00

AccentLED Lamps



Product Description

- High-power low-voltage (MR16 GU5.3) and mains-voltage (GU10 and ES) LED reflector lamps for retrofit replacement of conventional incandescent and halogen reflector lamps in indoor applications

Product Features

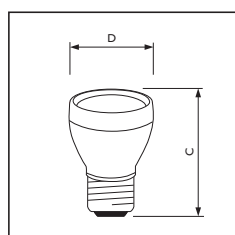
- Based on high-performance Lumiled Luxeon LEDs in halogen-type reflector
- Colored lamps available on request
- MR16 GU5.3 lamps are dimmable
- GU10 and ES lamps are non-dimmable, although safe if connected to dimmer
- MR16 GU5.3 lamps can be used with all types of magnetic transformers; some electronic transformers may be incompatible because of low lamp power (2 W)
- RoHS compliant
- Extremely long lifetime of 35,000 hours with 70% lumen maintenance
- High reliability through low (early) failure rate
- Color consistency ensured by controlled binning of LEDs
- High-intensity beam with clearly defined beam spread
- No UV and IR radiation; ideal for illuminating sensitive products and objects
- No danger of fire if GU10 and ES lamps (non-dimmable) are connected to dimmer
- User safety ensured by no risk of touching live (MV) components, e.g. when removing lamp from fitting

Product Benefits

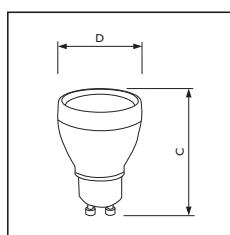
- Big energy savings of up to 80% compared with standard halogen or GLS reflector lamps

Application

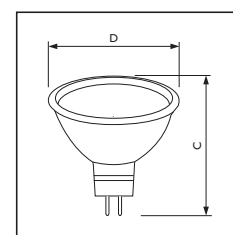
- Accent, decorative and task lighting
- Illumination of small objects within short distances (< 1 m) in shops, hotels, restaurants etc.
- Highlighting heat-sensitive objects, e.g. in culinary shops, art galleries, museums, libraries etc
- Especially suited for use in locations where minimum maintenance is required during lamp life



Dim. no.	C nom.	D nom.
1	73.0	44



Dim. no.	C nom.	D nom.
2	67.2	44

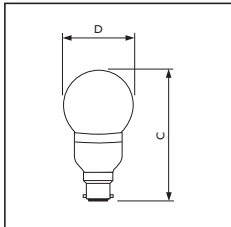


Dim. no.	C nom.	D nom.
3	45.8	50.5

AccentLED

Wattage	Voltage	Cap-Base	Bulb	Luminous Flux	Luminous Intensity	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
(W)	(V)			(lm)	(cd)	(h)						
2	230-240	ES		3		35000	1	1CT / 10	10	ACCENTLEDBLE27	535631 25	56.31
2	230-240	ES		13.5	284	35000	1	1CT / 10	10	ACCLEDE27CW	535037 25	56.31
2	230-240	ES		12			1	1CT / 10	10	ACCENTLEDGRE27	535624 25	56.31
2	230-240	ES		11		35000	1	1CT / 10	10	ACCENTLEDREE27	535617 25	56.31
2	230-240	ES		10	240	35000	1	1CT / 10	10	ACCLEDE27WW	535044 25	56.31
2	230-240	ES		4		35000	1	1CT / 10	10	ACCENTLEDYEE27	535648 25	56.31
2	230-240	GU10		3		35000	2	1CT / 10	10	ACCENTLEDBLGU10	535594 25	56.31
2	230-240	GU10		10	284	35000	2	1CT / 10	10	ACCLEDGU10CW	535013 25	56.31
2	230-240	GU10		12		35000	2	1CT / 10	10	ACCENTLEDGRGU10	535587 25	56.31
2	230-240	GU10		11		35000	2	1CT / 10	10	ACCENTLEDREGU10	535570 25	56.31
2	230-240	GU10		10	240	35000	2	1CT / 10	10	ACCLEDGU10WW	535020 25	56.31
2	230-240	GU10		4		35000	2	1CT / 10	10	ACCENTLEDYEGU10	535600 25	56.31
2	12	GU5.3	MR16	4		35000	3	1CT / 10	10	ACCENTLEDBLGU5	535556 25	56.31
2	12	GU5.3	MR16	13		35000	3	1CT / 10	10	ACCENTLEDGWGU5	535525 25	
2	12	GU5.3	MR16	16		35000	3	1CT / 10	10	ACCENTLEDGRGU5	535549 25	56.31
2	12	GU5.3	MR16	21		35000	3	1CT / 10	10	ACCENTLEDREGU5	535532 25	56.31
2	12	GU5.3	MR16	9	335	35000	3	1CT / 10	10	ACCLEDMR16WW	535006 25	
2	12	GU5.3	MR16	10		35000	3	1CT / 10	10	ACCENTLEDYEGU5	535563 25	56.31

DecoLED Outdoor Lamps



Dim. no.	C nom.	D nom.
1	100	50
2	115	60

Product Description

- Colored G50 LED lamps and color-changing G60 LED lamps with ES and BC base for direct retrofit replacement of standard low-wattage incandescent lamps in a wide range of decorative, party, signage and architectural lighting applications

Product Features

- ES and BC base lamps with bulb diameter 50 mm (mono colors) and 60 mm (color-changing)
- Bulb material UV-resistant polycarbonate
- Very low power consumption: 0.4 – 0.7 W (red and yellow lamps); 0.5 – 0.8 W (blue and green lamps); 0.5 – 1.0 W (white and cool white lamps); 0.8 – 1.5 W (color-changing lamps)

- Based on 5 mm LEDs with integrated optics
- White versions have 6 LEDs per lamp; all others have 12 LEDs per lamp
- Non-dimmable, although safe if connected to dimmer
- RoHS compliant; lead-free solder and components

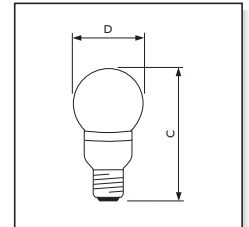
Product Benefits

- Big power savings of up to 80% compared with standard incandescent lamps
- Provide the equivalent of 12 – 15 W of incandescent light
- Extremely long lifetime of up to 20,000 hours with virtually zero maintenance requirements
- Safety through low voltage
- Low heat production

- No glass to break, no hot filament, no gas or candle flames and fumes
- No danger of fire if connected to dimmer
- Lamp bulb and cap are glued together to make a weatherproof joint

Application

- Decorative, party, signage and architectural lighting, both indoor and outdoor



Dim. no.	C nom.	D nom.
3	100	50
4	115	60

DecoLED Outdoor 230-240V

Wattage	Cap-Base	Bulb	Luminous Flux	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
(W)			(lm)	(h)						
1	BC	G50	4.5	20000	1	1CT / 10	10	LEDODB22BL	535143 25	44.95
1	BC	G50	6	20000	1	1CT / 10	10	LEDODB22CW	535174 25	44.95
1	BC	G50	15	20000	1	1CT / 10	10	LEDODB22GR	535136 25	44.95
1	BC	G50	2.5	20000	1	1CT / 10	10	LEDODB22RED	535129 25	44.95
1	BC	G50	5	20000	1	1CT / 10	10	LEDODB22WH	535181 25	44.95
1	BC	G50	2	20000	1	1CT / 10	10	LEDODB22YL	535150 25	44.95
1	ES	G50	6	20000	3	1CT / 10	10	LECODE27CW	535105 25	44.95
1	ES	G50	5	20000	3	1CT / 10	10	LECODE27WH	535112 25	44.95
1.5	BC	G60		20000	2	1CT / 10	10	LEDODB22CC	535167 25	49.22
1.5	ES	G60		20000	4	1CT / 10	10	LECODE27CC	535099 25	49.22

DecoLED Lamps



Product Description

- Twistline GU10 reflector and G50, G60, and B40 candle (ES) LED lamps in white and various color versions for a wide range of decorative and beautification applications

Product Features

- Lamps available in white, colors (green, red, blue and yellow/amber) and color-changing versions
- Very low power consumption: 0.5 – 1.0 W (red and yellow lamps); 0.7 – 1.5 W (blue and green lamps); 1.0 – 1.5 W (color-changing lamps)

- Twistline GU10 and B40 candle lamps available in white and all color versions
- G50 lamps available in white and colors; G60 lamps available in color-changing version
- Based on 5 mm low-power LEDs with integrated optics
- Color-changing versions have 12 LEDs per lamp; all others have 18 LEDs per lamp
- R, G, B LEDs with wide beam; R, G, B, A LEDs with 15° beam

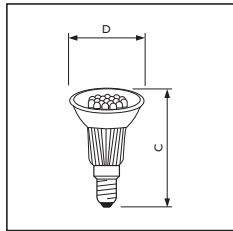
Product Benefits

- Very low power consumption

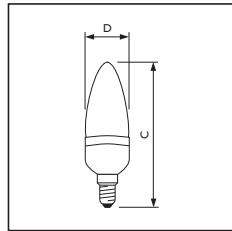
- Extremely long lifetime of 20,000 hours (colored lamps) and long lifetime of 6,000 hours (white lamps)
- Colored light creates attractive decorative effects

Application

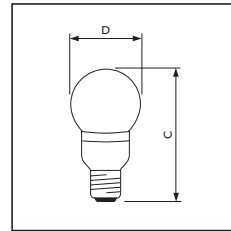
- Accent and decorative lighting (not for general lighting)
- Indoor use in halls, landings, kitchens etc. in recessed ceiling or floor luminaires
- Outdoor use in enclosed (IP44) luminaires



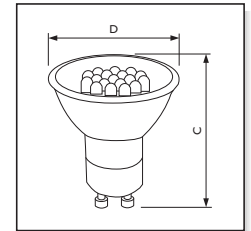
Dim. no.	C nom.	D nom.
1	76	50



Dim. no.	C nom.	D nom.
2	128	42



Dim. no.	C nom.	D nom.
3	100	50



Dim. no.	C nom.	D nom.
4	57	50

DecoLED 230-240V

Wattage	Cap-Base	Bulb	Luminous Flux	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
(W)			(lm)	(h)						(£)
1	SES	PAR16	4	20000	1	/ 10	10	LEDKANPARRED	536119 25	44.95
1	SES	PAR16	17	20000	1	/ 10	10	LEDKANPARGRE	536126 25	44.95
1	SES	PAR16	4	20000	1	/ 10	10	LEDKANPARBLU	536133 25	44.95
1	SES	PAR16	3	20000	1	/ 10	10	LEDKANPARYEL	536140 25	44.95
1	SES	PAR16	17	20000	1	/ 10	10	LEDKANPARCWH	536157 25	44.95
1	SES	PAR16	6	20000	1	/ 10	10	LEDKANPARWWH	536164 25	44.95
1	SES	B40	15	20000	2	/ 10	10	LEDKANGREEN	536928 25	
1	SES	B40	2.5	20000	2	/ 10	10	LEDKANRED	536935 25	
1	SES	B40	2	20000	2	/ 10	10	LEDKANYELLOW	536942 25	
1	SES	B40	5	20000	2	/ 10	10	LEDKANWHITE	536966 25	
1	ES	G50	6	20000	3	/ 10	10	LEDNRDCOWH	536355 25	
1	GU10	Reflector	4	20000	4	/ 10	10	LEDGU10BLUE	536041 25	

LED Freezer System

LED freezer modules 300



Product Description

- Affinium LED freezer modules for replacement of traditional tubular fluorescent lamps in full-height glass-door freezer cabinets. Mounting sets and the Philips 100W LED power driver to complete the lighting system are available separately

Product Features

- Available in 1500mm and 1700mm lengths, standard color temperatures Neutral White: 4100K and Cool White: 5600K
- Lighting level of 750 lux

- Each length and color is available in two versions:

- a center module
- a side module

- The side module can be placed on either side of the freezer, depending on whether the wire of the module is connected to the driver at the top or bottom of the freezer

- Low energy consumption: up to 70% less than traditional fluorescent lighting
- Excellent performance at very low temperatures: immediate illumination after switch-on at temperatures down to -30°C
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- Guaranteed performance and proven system reliability: three-year Philips system guarantee
- Module lifetime rated at 50,000 h (70% lumen maintenance)
- Aluminium module housing

- Operating temperature -30 to +10°C
- Safety temperature -30 to +30°C
- Storage temperature -30 to +60°C

Product Benefits

- Give retailers an excellent total cost of ownership with attractive payback times for freezer lighting:
 - up to 70% energy savings
 - 90% reduction in lamp replacements
- Greatly improved visual impression of both the merchandise on display and the entire freezer
- Unique optical system reduces glare by preventing direct visibility of LED light source
- Significantly improved sustainability thanks to lower energy consumption, reduced waste, and elimination of hazardous substances, such as mercury and lead
- Quick and easy to install: complete system with LED module, mounting set and 100W LED power driver

- Safety Extra Low Voltage (SELV) operation ensures safety even if wiring or units are damaged (provided an SELV-rated power supply is used)

Environment

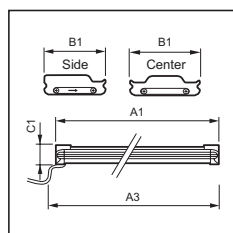
- Philips Green Flagship product
- High energy efficiency; up to 70% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free
- Covered by WEEE (Waste Electrical and Electronic Equipment)

Application

- Designed to replace traditional tubular fluorescent lamps in vertical full-height glass-door freezer cabinets

System

- Complete system includes Philips LFM 200 Affinium LED freezer modules, mounting sets and 100W LED power driver



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	1500	1510	49	24
2	1700	1710	56	24
3	1700	1710	49	24
4	1500	1510	56	24

Type	Wattage	Colour Rendering Index	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
	(W)	(Ra)	(h)				
Value-plus LFM300 1500mm(59") side NW	15	75	50000	1	UNP / 1	1	840230 00
Value-plus LFM300 1700mm(67") center NW	29	75	50000	2	UNP / 1	1	840247 00
Value-plus LFM300 1700mm(67") side NW	19	75	50000	3	UNP / 1	1	840254 00
Value-plus LFM300 1500mm(59") center CW	24	70	50000	4	UNP / 1	1	840261 00
Value-plus LFM300 1500mm(59") side CW	15	70	50000	1	UNP / 1	1	840278 00
Value-plus LFM300 1700mm(67") center CW	29	70	50000	2	UNP / 1	1	840308 00
Value-plus LFM300 1700mm(67") side CW	19	70	50000	3	UNP / 1	1	840315 00

LED freezer modules 310



Product Description

- Affinium LED freezer modules for replacement of traditional tubular fluorescent lamps in half-height glass-door freezer cabinets.
- Mounting sets and the Philips 100W LED power driver to complete the lighting system are available separately

Product Features

- Available in 940mm, 870mm, 745mm and 590mm lengths, standard color temperatures Neutral White: 4100K and Cool White: 5600K
- Lighting level of 750 lux

- Each length and color is available in two versions:
 - a center module
 - a side module
- The side module can be placed on either side of the freezer, depending on whether the wire of the module is connected to the driver at the top or bottom of the freezer
- Low energy consumption: up to 70% less than traditional fluorescent lighting
- Excellent performance at very low temperatures: immediate illumination after switch-on at temperatures down to -30°C
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- Guaranteed performance and proven system reliability: three-year Philips system guarantee
- Module lifetime rated at 50,000 h (70% lumen maintenance)
- Aluminium module housing

- Operating temperature -30 to +10°C
- Safety temperature -30 to +30°C
- Storage temperature -30 to +60°C

Product Benefits

- Give retailers an excellent total cost of ownership with attractive payback times for freezer lighting:
 - up to 70% energy savings
 - 90% reduction in lamp replacements
- Greatly improved visual impression of both the merchandise on display and the entire freezer
- Unique optical system reduces glare by preventing direct visibility of LED light source
- Significantly improved sustainability thanks to lower energy consumption, reduced waste, and elimination of hazardous substances, such as mercury and lead
- Quick and easy to install: complete system with LED module, mounting set and 100W LED power driver

- Safety Extra Low Voltage (SELV) operation ensures safety even if wiring or units are damaged (provided an SELV-rated power supply is used)

Environment

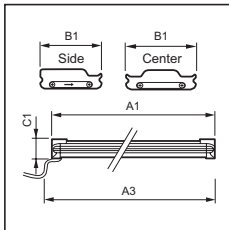
- Philips Green Flagship product
- High energy efficiency; up to 70% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free
- Covered by WEEE (Waste Electrical and Electronic Equipment)

Application

- Designed to replace traditional tubular fluorescent lamps in vertical half-height glass-door freezer cabinets

System

- Complete system includes Philips LFM 200 Affinium LED freezer modules, mounting sets and 100W LED power driver



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	745	755	56	24
2	745	755	49	24
3	940	950	56	24
4	940	950	49	24

Type	Wattage	Colour Rendering Index	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
	(W)	(Ra)	(h)				
Value-plus LFM310 745mm(29") center CW	10	70	50000	1	UNP / 1	1	840421 00
Value-plus LFM310 745mm(29") side CW	7	70	50000	2	UNP / 1	1	840438 00
Value-plus LFM310 745mm(29") center NW	10	75	50000	1	UNP / 1	1	840469 00
Value-plus LFM310 745mm(29") side NW	7	75	50000	2	UNP / 1	1	840476 00
Value-plus LFM310 940mm(37") center CW	16	70	50000	3	UNP / 1	1	840483 00
Value-plus LFM310 940mm(37") side NW	8	75	50000	4	UNP / 1	1	840599 00

LED freezer modules 324



Product Description

- Affinium LED freezer modules for replacement of traditional tubular fluorescent lamps to light frozen food in open-well freezer cases; can for example be placed under the cabinet of the half-height glass-door freezer or used as under-shelf lighting. Mounting sets, and Philips 100W LED power driver to complete the lighting system are available separately

Product Features

- Available in 1150mm and 900mm lengths, standard color temperatures Neutral White: 4100K and Cool White: 5600K
- Low energy consumption: up to 70% less than traditional fluorescent lighting
- Excellent performance at very low temperatures: immediate illumination after switch-on at temperatures down to -30°C
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- Guaranteed performance and proven system reliability: three-year Philips system guarantee
- Module lifetime rated at 50,000 h (70% lumen maintenance)
- Aluminum module housing

Product Benefits

- Allows retailers to create a coherent style in their freezer department
- Give retailers an Total Cost of Ownership with attractive payback times:
 - up to 70% energy savings
 - reduced lamp replacements
- Quick and easy to install: complete system with LED module, mounting sets, and 100W LED power driver
- Safety Extra Low Voltage (SELV) operation ensures safety even if wiring or units are damaged (provided an SELV-rated power supply is used)

Environment

- Philips Green Flagship product
- High energy efficiency; up to 70% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free

- Covered by WEEE (Waste Electrical and Electronic Equipment)
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/ledrefrigeration for the latest information

Application

- Designed to replace traditional tubular fluorescent lamps to light frozen food in open-well freezer cases; can for example be used under the cabinet of the half-height glass-door or as under-shelf lighting

System

- Complete system includes Philips LFM 324 Affinium LED freezer modules, 100W LED power driver and mounting set. A slide mounting set is available for under-shelf lighting, and a 20° and 40° mounting set is available for installation under cabinets

Type	Wattage	Colour Rendering Index	Average Lifetime	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...
	(W)	(Ra)	(h)				
Value-plus LFM324 1150mm(45") CW	12	70	50000	UNP / 1	1	LFM324 1150 CW	840605 00
Value-plus LFM324 1150mm(45") NW	12	75	50000	UNP / 1	1	LFM324 1150 NW	840629 00

Affinium LED freezer modules 200



Product Description

- Affinium LED freezer modules for replacement of traditional tubular fluorescent lamps in full-height glass-door freezer cabinets. Mounting sets and the Philips 100 W LED power driver to complete the lighting system are available separately

Product Features

- Available in 1500 mm and 1700 mm lengths with cool white or neutral white color temperatures
- Each length and lighting level is available in three versions:
 - a center module
 - a side 1 module
 - a side 2 module
- The side 1 or 2 modules can be placed on either side of the freezer, depending on whether the wire of the module is connected to the driver at the top or bottom of the freezer
- Low energy consumption: up to 70% less than traditional fluorescent lighting
- Excellent performance at very low temperatures: immediate illumination after switch-on at temperatures down to -25°C
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- Guaranteed performance and proven system reliability: three-year Philips system guarantee
- Module lifetime rated at 50,000 h (70% lumen maintenance)
- Black module housing
- Operating temperature -25 to +10°C
- Safety temperature -30 to +30°C
- Storage temperature -30 to +60°C

Product Benefits

- Give retailers an excellent total cost of ownership with attractive payback times for freezer lighting:
 - up to 70% energy savings
 - 90% reduction in lamp replacements
- Greatly improved visual impression of both the merchandise on display and the entire freezer
- Unique optical system reduces glare by preventing direct visibility of LED light source
- Significantly improved sustainability thanks to lower energy consumption, reduced waste, and elimination of hazardous substances, such as mercury and lead
- Quick and easy to install: complete system with LED module, mounting set and 100 W LED power driver
- Safety Extra Low Voltage (SELV) operation ensures safety even if wiring or units are damaged (provided an SELV-rated power supply is used)

Environment

- Philips Green Flagship product

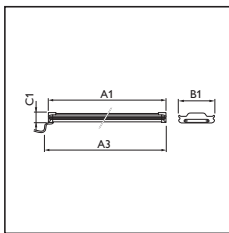
- High energy efficiency; up to 70% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free
- Covered by WEEE (Waste Electrical and Electronic Equipment)
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/ledrefrigeration for the latest information

Application

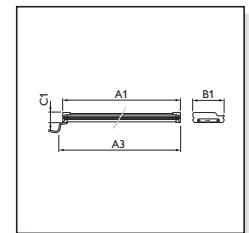
- Designed to replace traditional tubular fluorescent lamps in vertical full-height glass-door freezer cabinets

System

- Complete system includes Philips LFM 200 Affinium LED freezer modules, mounting sets and 100 W LED power driver



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	1500	1510	56	24
2	1700	1710	56	24



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
3	1500	1510	49	24
4	1700	1710	49	24

Type	Wattage	Colour Rendering Index	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
	(W)	(Ra)	(h)						
Affinium LFM200 1500mm center 20W CW	20	70	50000	1	UNP / 1	1	LFM2001500CEN	766263 00	729.72
Affinium LFM200 1500mm side 1 12W CW	12	70	50000	3	UNP / 1	1	LFM2001500SIDE1	766287 00	559.44
Affinium LFM200 1500mm side 2 12W CW	12	70	50000	3	UNP / 1	1	LFM2001500SIDE2	766300 00	559.44
Affinium LFM200 1700mm center 25W CW	25	70	50000	2	UNP / 1	1	LFM2001700CEN	766447 00	875.64
Affinium LFM200 1700mm side 1 15W CW	15	70	50000	4	UNP / 1	1	LFM2001700SIDE1	766461 00	656.76
Affinium LFM200 1700mm side 2 15W CW	15	70	50000	4	UNP / 1	1	LFM2001700SIDE2	766485 00	656.76

Affinium LED freezer modules 223



Product Description

- Affinium LED freezer modules for replacement of traditional tubular fluorescent lamps to light frozen food in open-well freezer cases; can for example be placed under the cabinet of the half-height glass-door freezer or used as under-shelf lighting. Mounting sets, 2m cable (optional) and Philips 100W LED power driver to complete the lighting system are available separately

Product Features

- Available in 1150mm and 900mm lengths, standard color temperatures and lighting levels
- Low energy consumption: up to 70% less than traditional fluorescent lighting
- Excellent performance at very low temperatures: immediate illumination after switch-on at temperatures down to -25°C
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- Guaranteed performance and proven system reliability: three-year Philips system guarantee
- Module lifetime rated at 50,000 h (70% lumen maintenance)
- Black module housing

Product Benefits

- Allows retailers to create a coherent style in their freezer department
- Give retailers an Total Cost of Ownership with attractive payback times:
 - up to 70% energy savings
 - reduced lamp replacements
- Quick and easy to install: complete system with LED module, mounting sets, 2m cable (optional) and 100W LED power driver
- Safety Extra Low Voltage (SELV) operation ensures safety even if wiring or units are damaged (provided an SELV-rated power supply is used)

Environment

- Philips Green Flagship product
- High energy efficiency; up to 70% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free

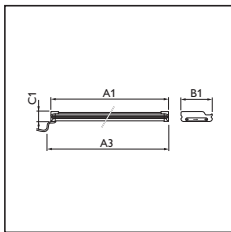
- Covered by WEEE (Waste Electrical and Electronic Equipment)
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/ledrefrigeration for the latest information

Application

- Designed to replace traditional tubular fluorescent lamps to light frozen food in open-well freezer cases; can for example be used under the cabinet of the half-height glass-door or as under-shelf lighting

System

- Complete system includes Philips LFM 220 Affinium LED freezer modules, 2m cable (optional), 100W LED power driver and mounting set. A slide mounting set is available for under-shelf lighting, and a 20° and 40° mounting set is available for installation under cabinets



A1	A3	B1	C1
nom.	nom.	nom.	nom.
1150	1180	49	24

Type	Wattage	Colour Rendering Index	Average Lifetime	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...
	(W)	(Ra)	(h)				
Affinium LFM223 1150mm 12W CW	12	70	50000	UNP / 1	1	LFM2231150CW12	767192 00

LED Cooler System

LED cooler modules 310

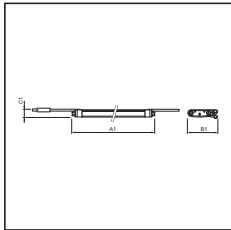


Product Description

- Affinium LED cooler modules for replacement of traditional tubular fluorescent lamps in cooler cabinets. Mounting sets and the Philips 100W LED power driver to complete the lighting system are available separately

Product Features

- Available in 900mm and 1200mm lengths with neutral white or warm white temperatures



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	1200	1200	52	13
2	900	900	52	13

- Low energy consumption: up to 67% less than traditional fluorescent lighting
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- Guaranteed performance and proven system reliability: three-year Philips system guarantee
- Module lifetime rated at 50,000 h (70% lumen maintenance)
- Operating temperature –30 to +30°C
- Safety temperature –30 to +30°C
- Storage temperature –30 to +60°C
- A much better visual impression of the merchandise on display by reducing dark spots
- Unique optical system reduces glare by preventing direct visibility of LED light source
- Significantly improved sustainability thanks to lower energy consumption, reduced waste, and elimination of hazardous substances, such as mercury and lead
- Quick and easy to install: complete system with LED module, mounting set and 100W LED power driver
- Safety Extra Low Voltage (SELV) operation ensures safety even if wiring or units are damaged (provided an SELV-rated power supply is used)

Product Benefits

- Give retailers an excellent total cost of ownership with attractive payback times for cooler lighting: -up to 70% energy savings

Environment

- Philips Green Flagship product

- High energy efficiency; up to 70% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free
- Covered by WEEE (Waste Electrical and Electronic Equipment)

Application

- Designed to replace traditional tubular fluorescent lamps in (semi) multideck cooler cabinets

System

- Complete system includes Philips Affinium LCM310 LED cooler modules, mounting sets and 100W LED power driver

Type	Wattage	Colour Rendering Index	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...
	(W)	(R _a)	(h)					
Value-plus LCM310 1200mm(47") NW	11	75	50000	1	UNP / 5	5	LCM310VA 1200NW	846263 00
Value-plus LCM310 1200mm(47") WW	18	85	50000	1	UNP / 5	5	LCM310VA 1200WW	846270 00
Value-plus LCM310 900mm(35") NW	8	75	50000	2	UNP / 5	5	LCM310VA 900NW	846287 00
Value-plus LCM310 900mm(35") WW	12	85	50000	2	UNP / 5	5	LCM310VA 900WW	846324 00
Vision-plus LCM310 1200mm(47") NW	30	75	50000	1	UNP / 5	5	LCM310VI 1200NW	846331 00
Vision-plus LCM310 1200mm(47") WW	30	85	50000	1	UNP / 5	5	LCM310VI 1200WW	846836 00
Vision-plus LCM310 900mm(35") NW	20	75	50000	2	UNP / 5	5	LCM310VI 900NW	846843 00
Vision-plus LCM310 900mm(35") WW	20	85	50000	2	UNP / 5	5	LCM310VI 900WW	846850 00
Affinium LCM310 mounting set shelf					UNP / 50	50	LCM310 M SET SH	848533 00

IMAGEO range IMAGEO LED Candle



Product Description

- Set of three LED candle lights powered by rechargeable batteries
- Available in frosted white and colors

Product Features

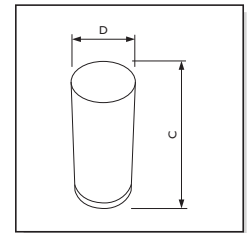
- Available in glass in white
- Available in plastic in six different colors
- Intuitive and innovative tumble switch for easy on and off switching just by shaking the glass
- Long-lasting glow (20 hours)
- Convenient recharging on the induction charger base.

Product Benefits

- Warm, gentle flicker of a normal wax candle gives a romantic ambiance
- Wireless operation for freedom of placement
- Safe to use – no risks of open flames and hot wax or inconvenient matches
- Cool to the touch

Application

- Suitable for both indoor and outdoor use (water-resistant)
- Wireless, portable candles can be placed where needed



C	D
nom.	nom.
125	55

Type	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
IMAGEO LED Candle 3set UK	1CT / 5	5	IMAGEOCANDLEKIT	799135 36	160.20
IMAGEO LED Candle single White	1CT / 15	15	IMAGEOHOSP1	799012 20	53.40

SpotOn



Product Description

- Battery-powered lamp that switches on automatically when it detects movement and switches off automatically after 20 seconds

Product Features

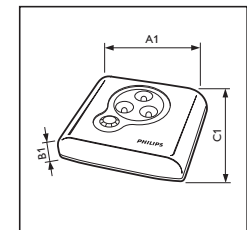
- Movement sensor switches lamp on when it detects movement
- Three ways to install – stick, screw or magnetic
- Easy to open for battery replacement

Product Benefits

- Lights your way; perfect for dark corners
- Gives bright white light
- Safe in use and cool to touch
- Long-lasting LED technology
- Wireless

Application

- Battery-powered
- Can be placed anywhere

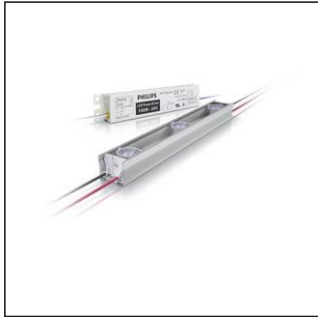


A1	B1	C1
nom.	nom.	nom.
78	19	68

Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
SpotOn White	1BL / 10	10	SPOTON1BL	817549 25	14.20

LED Posterbox System

Affinium LED posterbox modules



Product Description

- The Affinium LED posterbox module is a substitute for fluorescent lamps in all rectangular illuminated advertisements, signs or displays
- There are two ranges:
 - 1. Affinium LED posterbox module (standard): available in two 305 mm modules with two or three LEDs or two 570 mm modules with three or five LEDs
 - 2. Affinium LED posterbox module 200: the 200 Range gives twice as much light as the standard range, and is available in 305 mm length with three LEDs or 570 mm length with five LEDs
- The different dimensions simplify fitting the modules into box signs of various sizes

Product Features

- Provide ideal illumination for consistent high-quality images in box signs without the 'zebra' stripes often seen with traditional fluorescent lighting
- Cool white color temperature of around 6300 K
- Elliptical beam mixes the light, creating an indirect lighting effect

- Aluminium profiles wash light across the display using new Philips technology (patent pending) that makes optimal use of the light by recycling it in the box
 - Robust for safe, easy transport
 - Suitable for dry and damp locations, both outdoor and indoor (IP4x), moisture-protected in accordance with damp-heat (EN 60068-2-78) and salt-mist (EN 60068-2-11 Ka) tests
 - Easy to fit inside a box sign or display with screws or tape
 - Instant starting, even at temperatures as low as -20°C
 - Operating ambient temperature range -20 to +60°C
 - Less light spill through LED technology
 - LED Power Drivers have slim dimensions and copper-core insulated wires for easy connection
 - Module lifetime rated at 50,000 hrs (50% lumen maintenance)
- #### Product Benefits
- Quick and easy to install by using various combinations of modules with a Philips LED Power Driver
 - High efficiency of LED lighting so displays use much less energy or can be left switched on for longer
 - Robust for safe, easy transport
 - Benefits for signmakers:
 - Easy, trouble-free installation and maintenance
 - High reliability
 - No more flickering or partially illuminated displays
 - No more complex, custom-made fluorescent backlights
 - Uniform light with no more 'zebra' stripes across display boxes and facade signs
 - Long life for extremely low maintenance
 - Energy-efficient solution compared with traditional fluorescent lamps
 - Four variations are easy to fit in box signs of various sizes
 - Quality and cost savings for signmakers' customers:
 - Consistent branding across outlets
 - Creates perfect images – uniform and bright light with no 'zebra' effect
 - Clear messaging with optimal readability to attract attention
 - High reliability and long lifetime offer savings in maintenance costs
 - Lower energy consumption than conventional lamps for substantial savings
 - Both modules and drivers are maintenance-free for up to 50,000 hours (conventional systems often need replacing after just 20,000 hours)
 - Lumen maintenance 50% at 50,000 hours, at a temperature in the sign of 60°C. Based on calculations and extrapolated test data.
 - Guaranteed performance and service based on proven system reliability:
 - Philips Affinium LED posterbox module and driver have a three-year guarantee
 - Instant light thanks to LED technology
 - Suitable for dry and damp locations, both outdoor and indoor use
 - Excellent heat management

Environment

- Philips Green Flagship product

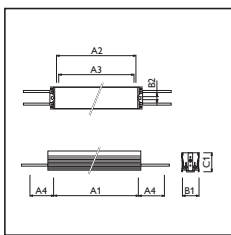
- High energy efficiency; in general 50% savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free
- Covered by WEEE (Waste Electrical and Electronic Equipment)
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/signage for the latest information

Application

- Philips Affinium LED posterbox module (LPM) can be directly substituted for fluorescent lamps in all rectangular illuminated advertisements, signs or displays, to give all signs in all outlets uniform, exceptional quality

System

- Philips Affinium LED posterbox module comes in two ranges:
 - 1. Affinium LED posterbox module (standard):
 - One 305 mm module with two LEDs
 - One 305 mm module with three LEDs
 - One 507 mm module with three LEDs
 - One 507 mm module with five LEDs
 - 2. Affinium LED posterbox module 200:
 - One 305 mm module with three LEDs
 - One 507 mm module with five LEDs
- The 200 Range gives twice as much light as the standard range
- Choice of 20 W, 60 W or 100 W LED power drivers and various accessories for fast, reliable installation

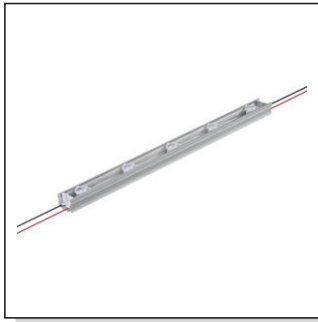


Dim. no.	A1	A2	A3	A4	B1	B2	C1
1	309	283	150	36	4.5	27	
2	572.5	547	150	36	4.5	27	

Affinium LED posterbox module

Wattage	Luminous Flux	Luminous Intensity	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
(W)	(lm)	(cd)	(h)						
6	100	250	50000	1	UNP / 10	10	LPM6W6300K305MM	765501 30	211.00
9	150	250	50000	1	UNP / 10	10	LPM9W6300K305MM	765488 30	246.10
9	150	250	50000	2	UNP / 10	10	LPM9W6300K570MM	765549 30	281.30
15	250	250	50000	2	UNP / 10	10	LPM15W6300K570M	765525 30	351.60

Accessories for LED posterbox modules



Product Description

- Range of installation accessories for Affinium LED posterbox modules, including connectors, a connector tool and mounting tape

Product Features

- LMP connectors and connector tool enable a solid, reliable connection between the posterbox modules and the driver

- Mounting tape tested on stainless steel, aluminium and PMMA (testing recommended before use on other materials or coatings; if in doubt, use of screws is recommended)
- 3M tissues and VHB™ cleaner recommended for cleaning the box sign, modules and driver if LPM mounting tape is used
- For USA and Canada, a special 3M 314 connector can be used to comply with UL and CSA approvals

Product Benefits

- Quick, easy installation
- Solid and reliable connections

Environment

- RoHS compliant
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/signage for the latest information

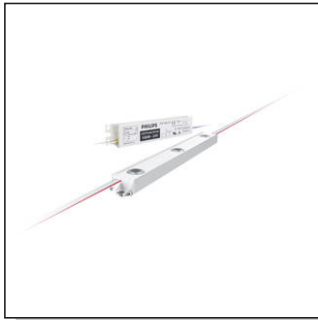
Application

- Box signs meeting IP23 or higher approvals

LPM

Name Extension	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
connector	UNP / 15	15	LPMCONNECTORS	765563 30	5.90
connector tool	UNP / 1	1	LPMT00L	765587 00	97.20
mounting tape 3m	UNP / 1	1	LPMTAPE	765600 00	291.70

Affinium LED posterbox modules 300



Product Description

- The Philips Affinium LED posterbox module 300 comes in two versions:
 - Affinium LPM 8W 6300K 325mm (12.8") 300 – a 325 mm module with three LEDs
 - Affinium LPM 13W 6300K 565mm (22.2") 300 – a 565 mm module with five LEDs
- The different dimensions simplify fitting the modules into box signs of various sizes.
- Quick and easy to install by using various combinations of modules with a Philips LED power driver
- Energy reduction of at least 60% compared to a traditional fluorescent lamp of 36W
- Ideal for slim, shallow box signs

Product Features

- Excellent white light intensity and uniformity, for box signs as shallow as 5 cm
- Module and driver, both fully outdoor-proof (IP66), maintenance-free for up to 50,000 hours

- New Philips technology (patent pending) makes optimal use of light by recycling it in the box
- Instant start across entire operating ambient temperature range -20 to +60°C
- Three-year performance guarantee

Product Benefits

- Optimal representation of corporate identity
- Up to 60% energy savings compared with fluorescent lighting
- Quick and easy installation and reduced maintenance costs

Environment

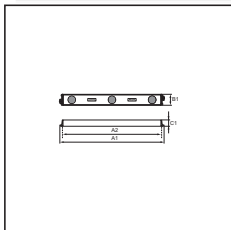
- Philips Green Flagship product
- High energy efficiency; in general 60% savings compared with fluorescent lighting
- RoHS-compliant – mercury and lead-free
- Covered by WEEE (Waste from Electrical and Electronic Equipment)

Application

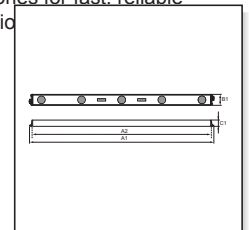
- Sign lighting: slim, shallow box signs and displays

System

- Philips Affinium LED posterbox module 300 comes in two versions:
 - Affinium LPM 8W 6300K 325mm (12.8") 300
 - Affinium LPM 13W 6300K 565mm (22.2") 300
- Choice of 20W, 60W or 100W LED power drivers and various accessories for fast, reliable installation



Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	323	33	19.5



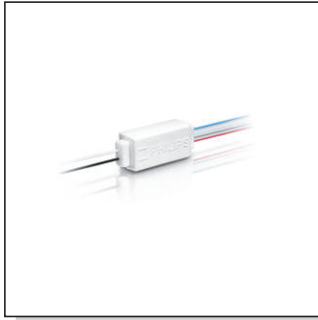
Dim. no.	A1 nom.	B1 nom.	C1 nom.
2	563	33	19.5

Affinium LPM

Wattage	Luminous Flux	Luminous Intensity	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...
(W)	(lm)	(cd)	(h)					
8	420	3000	50000	1	UNP / 10	10	LPM3008W6300K	858075 00
13	700	5000	50000	2	UNP / 10	10	LPM30013W6300K	858105 00

LED GreenPower

Accessories for GreenPower LED Modules



Product Description

- A range of installation accessories for Philips GreenPower LED module High Flux, such as connectors (with enclosed connector applicator), connector tool and mounting brackets

Product Features

- The connector applicator is enclosed in the packing of the connector Xtend

- Dedicated mounting brackets can be used if mounting on cooling pipes is needed
- Both the connector types (Xtend and End Cap) ensure a reliable IP66 Rated connection of the GreenPower LED module

Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...
LS hp cable 4xAWG24	UNP / 1	1	LS2HP CABLE	805901 00

Accessories for GreenPower LED String



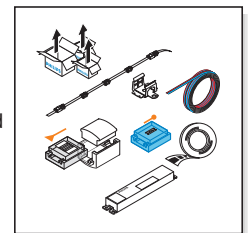
Product Description

- A range of installation accessories for Philips GreenPower LED string Low Flux, such as connectors (with enclosed connector applicator), connector tool, extension cable, mounting clips and double-sided adhesive tape pads

Product Features

- The connector applicator is enclosed in the packing of the connector Xtend
- Double-sided adhesive tape pads have been tested for use on stainless steel, aluminum and PMMA

- If adhesive tape pads are to be used on non-tested materials or coatings, compatibility with adhesive tape should be ensured
- Dedicated mounting clips can be used when adhesive tape pads do not provide sufficient adhesion
- If there is any doubt about the adhesive strength of the adhesive tape pads to the mounting surface, the dedicated mounting clips should be used instead
- Both the connector types (Xtend and End Cap) ensure a reliable IP66 Rated connection of the GreenPower LED String



Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
connector xtend	UNP / 10	10		763972 30	
connector end cap	UNP / 10	10		763996 30	
connector tool	UNP / 1	1		765686 00	
extension cable 4-wire	UNP / 1	1		763934 00	
Mounting Clip	UNP / 200	200		763910 30	
mounting tape 1680 pads	UNP / 1	1	LS2 TAPE 1700	764030 00	518.42
mounting tape 210 pads	UNP / 1	1		764016 00	

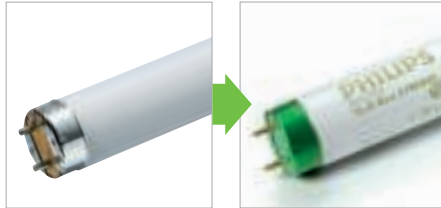
Fluorescent Lamps

Guide to uplamping for Fluorescent Lamps

Ever since the company was started in 1891, Philips Lighting has developed and launched many thousands of innovative and important products. With so many products to choose from, this handy and practical 'Guide to better lamps', makes it simpler to make the right choice.

Current product

Standard T8



Energy efficient alternative

MASTER TL-D Eco

Energy savings	10%
----------------	-----



For more uplamping possibilities, visit www.philips.com/catalog



asimpleswitch.com

TL-D MASTER TL-D Eco



Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

- The only T8 fluorescent lamp that saves more than 10% of energy in existing indoor luminaires

- Can be directly retrofitted into existing fluorescent fittings operating on conventional EM or HF gear in indoor applications
- Uses the latest highly efficient phosphors and special filling gas
- High-quality lighting with good color rendering (CRI>80)
- Light output comparable to other TL-D Super 80 colors
- Lumen maintenance and lifetime the same as other TL-D Super 80 colors
- Dimmable

Product Benefits

- Simple lamp-for-lamp replacement for more than 10% energy savings

- Makes lighting installations compliant with latest indoor lighting standards
- Relatively high efficacy, both initially and during lifetime, with high lumen maintenance

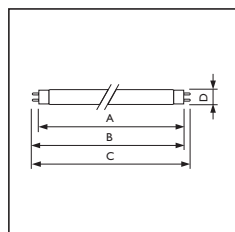
Environment

- Allows easy switching to more energy-conscious solutions
- Helps reduce CO₂ emissions and meet climate change targets
- Philips Green Flagship label due to extremely low mercury levels
- RoHS compliant
- Covered by WEEE

Application

- For use in indoor applications with room temperatures above 20 °C (which implies temperature around the lamp of over 25-35 °C)

- Primary focus on offices, schools and hospitals; secondary focus on retail, industry, supermarkets
- Not recommended under the following conditions:
 - with air flow around the lamps
 - in luminaires with active air handling (lamp temperature will not be the required 25-35 °C, but room temperature)
 - in open luminaires/battens very close to air conditioning outlets or cold air flows
 - in space above freezers (temperature may easily drop below 20 °C)
 - in combination with VRUs (voltage reduction units)

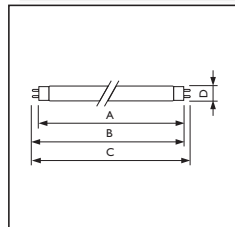
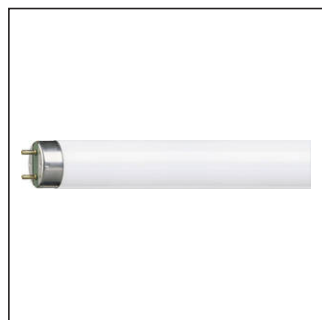


Dim. no.	A max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604.0
2	1199.4	1204.1	1206.5	1213.6
3	1500.0	1504.7	1507.1	1514.2
4	1763.8	1768.5	1770.9	1778.0

MASTER TL-D Eco G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Luminous Flux Lamp EM 30°C (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
16W/830	85	3000	A	1300	20000	1	1SL / 25	25	16830TLDECO	268570 40	23.79	yes
16W/840	85	4000	A	1300	20000	1	1SL / 25	25	16840TLDECO	268617 40	23.79	yes
16W/865	85	6500	A	1225	20000	1	1SL / 25	25	16865TLDECO	268716 40	23.79	yes
32W/830	85	3000	A	3000	20000	2	1SL / 25	25	32830TLDECO	264589 40	23.79	yes
32W/840	85	4000	A	3000	20000	2	1SL / 25	25	32840TLDECO	264626 40	23.79	yes
32W/865	85	6500	A	2850	20000	2	1SL / 25	25	32865TLDECO	264640 40	23.79	yes
51W/830	85	3000	A	4800	20000	3	1SL / 25	25	51830TLDECO	264664 40	25.92	yes
51W/840	85	4000	A	4800	20000	3	1SL / 25	25	51840TLDECO	264701 40	25.92	yes
51W/865	85	6500	A	4470	20000	3	1SL / 25	25	51865TLDECO	264725 40	25.92	yes
63W/830	85	3000	A	5600	20000	4	1SL / 25	25	63830TLDECO	268730 40	36.29	yes
63W/840	85	4000	A	5600	20000	4	1SL / 25	25	63840TLDECO	268754 40	36.29	yes

MASTER TL-D Super 80



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	437.4	442.1	444.5	451.6	28
2	589.8	594.5	596.9	604	28
3	970.0	974.7	977.1	984.2	28
4	894.6	899.3	901.7	908.8	28
5	1199.4	1204.1	1206.5	1213.6	28
6	1047.0	1051.7	1054.1	1061.2	28
7	1500.0	1504.7	1507.1	1514.2	28
8	1763.8	1768.5	1770.9	1778	28

Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- High initial light output
- Available in varying colour designations
- Low mercury dose

Product Benefits

- Special fluorescent coating gives good colour rendering

- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Create atmospheres from warm white to cool daylight

Environment

- Best environmental T8 choice because of TL-D /800 superior energy efficiency compared to TL-D Standard lamps. Lowest mercury content in the industry and 100% lead free
- Lowest amount of mercury in the market for colour 800 fluorescent tubes

- RoHS compliant
- This product range is covered by WEEE

Application

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps for 'human' applications such as schools, offices, shops, factory halls etc.

System

- Can be used with conventional or electronic gear
- Higher efficacy is achieved with electronic gear

MASTER TL-D Super 80 G13

Wattage/Colour Code/Version	Colour Rendering Index	Colour Temperature	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(h)							
15W/830	85	3000	B	1000	20000	1	1SL / 25	25	15830	702791 40	25.07	yes
15W/840	85	4000	B	1000	20000	1	1SL / 25	25	15840	702807 40	25.07	yes
18W/827	85	2700	A	1350	20000	2	1SL / 25	25	18827	631626 40	17.46	yes
18W/830	85	3000	A	1350	20000	2	1SL / 25	25	18830	631657 40	17.46	yes
18W/830	85	3000	A	1350	20000	2	UNP / 25	25	18830IP	610546 40	17.46	yes
18W/835	85	3500	A	1350	20000	2	1SL / 25	25	18835	631688 40	17.46	yes
18W/840	85	4000	A	1350	20000	2	1SL / 25	25	18840	631718 40	17.46	yes
18W/840	85	4000	A	1350	20000	2	UNP / 25	25	18840IP	610126 40	17.46	yes
18W/865	85	6500	A	1300	20000	2	1SL / 25	25	18865	631770 40	17.46	yes
23W/840	85	4000	A	2050	20000	3	1SL / 25	25	23840	558701 40	25.07	yes
30W/830	85	3000	A	2400	20000	4	1SL / 25	25	30830	631831 40	22.47	yes
30W/840	85	4000	A	2400	20000	4	1SL / 25	25	30840	631862 40	22.47	yes
36W/827	85	2700	A	3350	20000	5	1SL / 25	25	36827	631923 40	17.66	yes
36W/830	85	3000	A	3350	20000	5	1SL / 25	25	36830	631954 40	17.66	yes
36W/830	85	3000	A	3350	20000	5	UNP / 25	25	36830IP	610171 40	17.66	yes
36W/835	85	3500	A	3350	20000	5	1SL / 25	25	36835	631985 40	17.66	yes
36W/840	85	4000	A	3350	20000	5	1SL / 25	25	36840	632012 40	17.66	yes
36W/840	85	4000	A	3350	20000	5	UNP / 25	25	36840IP	610188 40	17.66	yes
36W/865	85	6500	A	3250	20000	5	1SL / 25	25	36865	632074 40	17.66	yes
36W/830 - 1m	85	3000	A	3100	20000	3	1SL / 25	25	M36830NG	558749 40	19.73	yes
36W/840 - 1m	85	4000	A	3100	20000	3	1SL / 25	25	M36840NG	558770 40	19.73	yes
38W/830	85	3000	A	3350	20000	6	1SL / 25	25	38830NG	558800 40	19.73	yes
38W/840	85	4000	A	3350	20000	6	1SL / 25	25	38840NG	558831 40	19.73	yes
58W/827	85	2700	A	5200	20000	7	1SL / 25	25	58827	632104 40	16.66	Yes
58W/830	85	3000	A	5200	20000	7	1SL / 25	25	58830	632135 40	19.24	yes
58W/830	85	3000	A	5200	20000	7	UNP / 25	25	58830IP	610195 40	19.24	yes
58W/835	85	3500	A	5200	20000	7	1SL / 25	25	58835	632166 40	19.24	yes
58W/840	85	4000	A	5200	20000	7	1SL / 25	25	58840	632197 40	19.24	yes
58W/840	85	4000	A	5200	20000	7	UNP / 25	25	58840IP	610294 40	19.24	yes
58W/865	85	6500	A	5000	20000	7	1SL / 25	25	58865	632258 40	19.24	yes
70W/830	85	3000	A	6200	20000	8	1SL / 25	25	70830	615985 40	29.74	yes
70W/835	85	3500	A	6200	20000	8	1SL / 25	25	70835	642738 40	29.74	yes
70W/840	85	4000	A	6200	20000	8	1SL / 25	25	70840	615923 40	29.74	yes

MASTER TL-D Secura



Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

- Protective coating around the entire lamp

- Blue ring around one end
- Direct retrofit for all Standard and Super /80 TL-D lamps operating on conventional or HF gear
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Available in various colour designations
- Low mercury dose
- Recyclable at end-of-life, including the protective lamp coating
- End-cap has green bottom plate to identify lamp as recyclable

Product Benefits

- Special protective coating in the lamp-, prevents products from contamination in case of accidental lamp breakage

- Easy identification in audit situations by blue ring at one end
- Special fluorescent coating gives good colour rendering
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Protects products from discolouring and loss of taste by 90% lower UV emission
- Compliant with HACCP regulations and supports HACCP certification

Environment

- Good environmental choice because of lowest mercury content and lead-free
- This product is RoHS compliant
- This product is covered by WEEE

Application

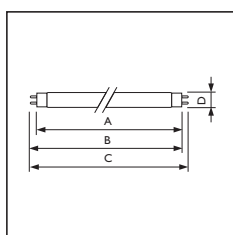
- For use where contamination resulting from lamp breakage must be prevented, e.g. in food preparation, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls
- Suitable for use in environments where UV emission should be reduced (museums, libraries, archives, food industry, fashion shops, etc.)

Luminaires

- Suitable for open luminaires only (as indicated by the two blue rings)

System

- Use of self-stopping lamp control systems is strongly recommended

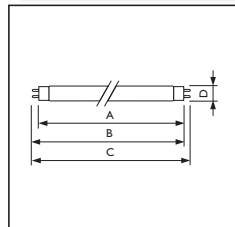
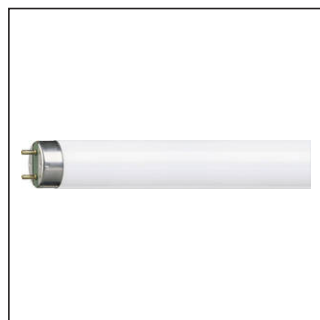


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

MASTER TL-D Secura G13

Wattage/ Colour Code	Colour Rendering Index (Ra)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/840	85	4000	A	1300	20000	1	1SL / 25	25	18840BSEC	640109 40	38.53	yes
36W/840	85	4000	A	3200	20000	2	1SL / 25	25	36840BSEC	640147 40	39.55	yes
58W/840	85	4000	A	5000	20000	3	1SL / 25	25	58840BSEC	640185 40	40.56	yes

MASTER TL-D Reflex



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

- Internal reflector directs the light via a 160° 'window'
- Reflector directs 85% of the light downwards avoiding wasted light
- Direct retrofit for existing fluorescent fittings operating on conventional or HF gear
- High-quality lighting with good color rendering (CRI>80)
- Light output comparable to other TL-D Super 80 colors

- Lumen maintenance and lifetime the same as other TL-D Super 80 colors
- Dimmable

Product Benefits

- Internal reflector directs the light where it is needed
- Energy savings of 30-50% in non-reflector luminaires without loss of light
- Internal reflector is not affected by dust accumulation (in contrast to normal TL-D lamps)
- Relatively high efficacy, both initially and during lifetime, with high lumen maintenance

Environment

- 30 – 50% energy savings make TL-D Reflex an excellent environmental choice
- RoHS compliant
- Covered by WEEE

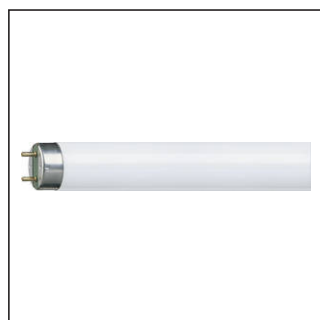
Application

- Luminaires without reflectors or with only simple reflectors, mainly found in industry and shops / supermarkets

MASTER TL-D Reflex G13

Wattage/ Colour Code	Colour Rendering Index (Ra)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/830	85	3000	A	1350	20000	1	1SL / 25	25	18830R	636447 40	23.32	yes
18W/840	85	4000	A	1350	20000	1	1SL / 25	25	18840R	636478 40	23.32	yes
18W/865	85	6500	A	1300	20000	1	1SL / 25	25	18865RFECO	260291 40	23.32	yes
36W/830	85	3000	A	3350	20000	2	1SL / 25	25	36830R	559494 40	26.37	yes
36W/840	85	4000	A	3350	20000	2	1SL / 25	25	36840R	559531 40	26.37	yes
58W/830	85	3000	A	5200	20000	3	1SL / 25	25	58830R	559579 40	31.54	yes
58W/840	85	4000	A	5200	20000	3	1SL / 25	25	58840R	559623 40	31.54	yes
58W/865	85	6500	A	5000	20000	3	1SL / 25	25	58865RFECO	260338 40	31.54	yes

MASTER TL-D HF Super 80



Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope and argon gas filling

Product Features

- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- High initial lumen output
- Available in varying colour designations
- Low mercury dose
- MASTER TL-D lamps are fully recyclable
- End-cap has green bottom plate to identify lamp as recyclable

Product Benefits

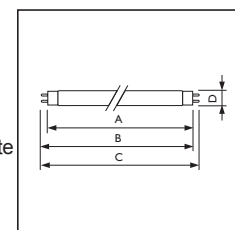
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Good colour rendering
- Creates atmospheres from warm white to cool daylight

Application

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps for 'human' applications such as schools, offices, shops, factory halls etc.

System

- Special electronic gear must be used

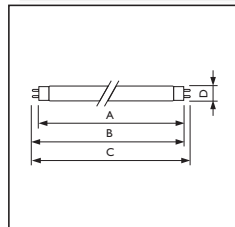


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

MASTER TL-D HF Super 80 G13

Wattage/ Colour Code	Colour Rendering Index (Ra)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
16W/830	85	3000	A	1400	20000	1	1SL / 25	25	16830	631442 40	18.89	yes
16W/840	85	4000	A	1400	20000	1	1SL / 25	25	16840	631473 40	18.89	yes
32W/830	85	3000	A	3200	20000	2	1SL / 25	25	32830	631503 40	18.89	yes
32W/840	85	4000	A	3200	20000	2	1SL / 25	25	32840	631534 40	18.89	yes
50W/830	85	3000	A	5000	20000	3	1SL / 25	25	50830	631565 40	20.02	yes
50W/840	85	4000	A	5000	20000	3	1SL / 25	25	50840	631596 40	20.02	yes

MASTER TL-D Xtra



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604.0	28
2	894.6	899.3	901.7	908.8	28
3	1199.4	1204.1	1206.5	1213.6	28
4	1500.0	1504.7	1507.1	1514.2	28
5	1763.8	1768.5	1770.9	1778.0	28

Product Description

- Low-pressure mercury discharge lamp with a tubular 26mm envelope

Product Features

- Significant reduction of early failures based upon a new technology (patent pending)
- Extra long and reliable lifetime
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps

Product Benefits

- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Less waste and disposal cost at end-of-life
- Special fluorescent coating gives good colour rendering

Environment

- Good environmental choice because of long reliable life (180% better than T8 standard), low waste (only 1 lamp compared to 2 T8 standard), lowest mercury content and lead-free
- This product is a Philips Green Flagship

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls, offices and public areas like car parks and railway stations

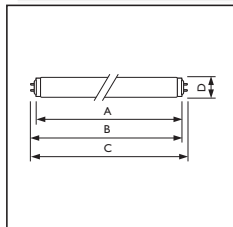
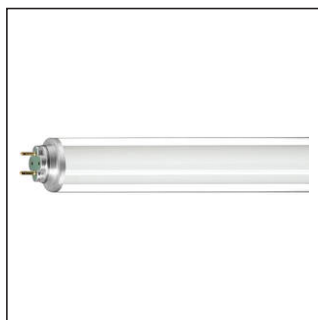
System

- Can be used with either conventional or HF electronic gear
- Higher efficacy and longer life is achieved with HF electronic gear

MASTER TL-D Xtra G13

Wattage/ Colour Code/ Version	Colour Rendering Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/830	85	3000	A	1350	55000	1	1SL / 25	25	18830XTRA	544988 40	25.23	yes
18W/840	85	4000	A	1350	55000	1	1SL / 25	25	18840XTRA	558626 40	25.23	yes
18W/865	85	6500	A	1250	55000	1	1SL / 25	25	18865XTRA	892812 40	25.23	yes
30W/830	85	3000	A	2400	55000	2	1SL / 25	25	30830XTRA	895325 40	32.77	yes
30W/840	85	4000	A	2400	55000	2	1SL / 25	25	30840XTRA	895363 40	32.77	yes
36W/830	85	3000	A	3350	55000	3	1SL / 25	25	36830XTRA	558718 40	25.23	yes
36W/840	85	4000	A	3350	55000	3	1SL / 25	25	36840XTRA	558763 40	25.23	yes
36W/865	85	6500	A	3200	55000	3	1SL / 25	25	36865XTRA	892836 40	25.23	yes
58W/830	85	3000	A	5200	55000	4	1SL / 25	25	58830XTRA	558886 40	27.49	yes
58W/840	85	4000	A	5200	55000	4	1SL / 25	25	58840XTRA	558909 40	27.49	yes
58W/865	85	6500	A	5000	55000	4	1SL / 25	25	58865XTRA	892850 40	27.49	yes
70W/830	85	3000	A	6150	55000	5	1SL / 25	25	70830XTRA	895486 40	42.45	yes
70W/840	85	4000	A	6150	55000	5	1SL / 25	25	70840XTRA	895523 40	42.45	yes

MASTER TL-D Xtra Polar



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604.0	40.5
2	1199.4	1204.1	1206.5	1213.6	40.5
3	1500.0	1504.7	1507.1	1514.2	40.5

Product Description

- Polar versions are regular MASTER TL-D Xtra lamps inside a clear T10 or T12 tube (T10=32 mm diameter, T12=38 mm diameter)

Product Features

- Improved light output in low ambient temperatures
- The same reliable, long lifetime performance as regular MASTER TL-D Xtra
- Robust lamp construction due to strong, temperature-resistant assembly kit
- 10 pcs. packaging

Product Benefits

- Substantial energy saving (up to 70%) due to higher efficacy at lower temperatures

- Strong reduction in maintenance costs due to high reliability and long lifetime
- Fully temperature-resistant in all conditions; no temperature-related relamping problems
- Supports end-user sustainability programs (low mercury level and low waste due to long lifetime)
- Miniaturisation: Polar T10 version (32 mm) is suited for situations where the diameter of the Polar T12 lamp (38 mm) is too large

Environment

- Good environmental choice because of highest energy efficiency in colder conditions (<10 °C), long reliable life (380% better than T8 standard), low waste (only 1 lamp compared to 4 T8 standard), lowest mercury content and lead-free

- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- All applications at lower ambient temperatures (below 10 °C)
- Indoor: cold stores and other refrigerated areas
- Outdoor: petrol stations, car parks, shipping docks, petrochemical plants, sign lighting, tunnels

MASTER TL-D Xtra Polar G13

Wattage/Colour Code/Version	Bulb	Colour Rendering Index	Colour Temperature	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)	(K)		(lm)	(h)							
18W/830 - Polar	T12	85	3000	A	1350	55000	1	1SL / 10	10	18830XTRAPOLAR	893031 25	55.53	yes
18W/840 - Polar	T12	85	4000	A	1350	55000	1	1SL / 10	10	18840XTRAPOLAR	893055 25	55.53	yes
36W/830 - Polar	T12	85	3000	A	3350	55000	2	1SL / 10	10	36830XTRAPOLAR	893154 25	55.53	yes
36W/840 - Polar	T12	85	4000	A	3350	55000	2	1SL / 10	10	36840XTRAPOLAR	893178 25	55.53	yes
58W/830 - Polar	T12	85	3000	A	5200	55000	3	1SL / 10	10	58830XTRAPOLAR	893277 25	60.49	yes
58W/840 - Polar	T12	85	4000	A	5200	55000	3	1SL / 10	10	58840XTRAPOLAR	893291 25	60.49	yes

MASTER TL-D Xtra Secura



Product Description

- Low-pressure mercury discharge lamp with a tubular 26 mm envelope and a clear protective coating

Product Features

- Significant reduction of early failures based on new X-technology

- Extra-long life and high reliability
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps
- Strong, temperature-resistant protective Secura coating based on FEP (Teflon)
- Coating lifetime is identical to the lifetime of the lamp
- Easy identification in audit situations by blue ring at one end
- Special fluorescent coating gives good colour rendering
- Extra-long lifetime and reduced early failures mean lower maintenance workload and costs, and facilitate change from spot to group replacement
- Reduced waste and disposal costs at end-of-life
- Compliant with HACCP regulations and supports HACCP certification

Product Benefits

- Protective Teflon coating keeps glass and lamp components together in case of accidental breakage; allows use in open luminaires in food & beverages industry

- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

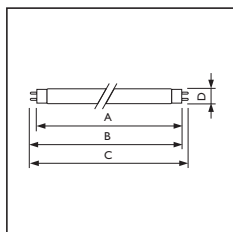
- Food & beverages and pharmaceuticals industry: factories, distribution centres, retail outlets; locations where maintenance costs are high (high ceilings, difficult access)

Luminaires

- Suitable for open and closed luminaires (as indicated by the blue ring), due to the temperature-resistant coating

System

- Can be used with either conventional or HF electronic gear
- Higher efficacy and longer life with HF electronic gear

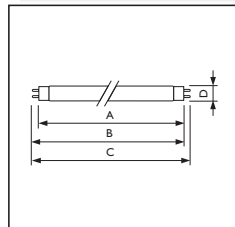


Dim. no.	A max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604.0
2	894.6	899.3	901.7	908.8
3	1199.4	1204.1	1206.5	1213.6
4	1500.0	1504.7	1507.1	1514.2

MASTER TL-D Xtra Secura G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(Ra)	(K)		(lm)	(h)						(£)	
18W/830	85	3000	A	1300	55000	1	1SL / 25	25	18830XTRASEC	889737 40	55.53	yes
18W/840	85	4000	A	1300	55000	1	1SL / 25	25	18840XTRASEC	889751 40	55.53	yes
30W/830	85	3000	A	2350	55000	2	1SL / 25	25	30830XTRASEC	951199 40	63.84	yes
30W/840	85	4000	A	2350	55000	2	1SL / 25	25	30840XTRASEC	951212 40	63.84	yes
36W/830	85	3000	A	3200	55000	3	1SL / 25	25	36830XTRASEC	889812 40	55.53	yes
36W/840	85	4000	A	3200	55000	3	1SL / 25	25	36840XTRASEC	889836 40	55.53	yes
58W/830	85	3000	A	5100	55000	4	1SL / 25	25	58830XTRASEC	889898 40	60.49	yes
58W/840	85	4000	A	5100	55000	4	1SL / 25	25	58840XTRASEC	889911 40	60.49	yes

MASTER TL-D Xtreme



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604.0	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28
4	1763.8	1768.5	1770.9	1778.0	28

Product Description

- Low-pressure mercury discharge lamp with a tubular 26mm envelope

Product Features

- Significant reduction of early failures based upon a new technology (patent pending)
- Extreme long and reliable lifetime
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish lamp from other fluorescent lamps

Product Benefits

- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Less waste and disposal cost at end-of-life
- Special fluorescent coating gives good colour rendering

Environment

- Good environmental choice because of long reliable life (380% better than T8 standard), low waste (only 1 lamp compared to 4 T8 standard), lowest mercury content and lead-free
- This product is a Philips Green Flagship

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Suitable for use in applications where maintenance costs (high ceilings, difficult to reach) and disruptive costs are high (stopping of production process, closure of tunnels), or where lamp failure is not acceptable for e.g. safety reasons: tunnels, process, food and petrochemical industries

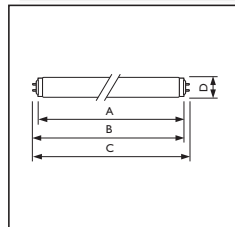
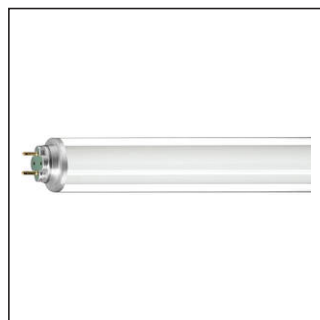
System

- Can be used with either conventional or electronic gear
- Higher efficacy and longer life is achieved with electronic gear

MASTER TL-D Xtreme G13

Wattage/Colour Code/ Version/Version	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(h)							
18W/830 - Xtreme	85	3000	A	1350	79000	1	1SL / 25	25	18830XTREME	544926 40	33.66	yes
18W/840 - Xtreme	85	4000	A	1350	79000	1	1SL / 25	25	18840XTREME	544964 40	33.66	yes
18W/865 - Xtreme	85	6500	A	1250	79000	1	1SL / 25	25	18865XTREME	892751 40	33.66	yes
36W/830 - Xtreme	85	3000	A	3250	79000	2	1SL / 25	25	36830XTREME	558664 40	33.66	yes
36W/840 - Xtreme	85	4000	A	3250	79000	2	1SL / 25	25	36840XTREME	558688 40	33.66	yes
36W/865 - Xtreme	85	6500	A	3150	79000	2	1SL / 25	25	36865XTREME	892775 40	33.66	yes
58W/830 - Xtreme	85	3000	A	5100	79000	3	1SL / 25	25	58830XTREME	558824 40	36.65	yes
58W/840 - Xtreme	85	4000	A	5100	79000	3	1SL / 25	25	58840XTREME	558862 40	36.65	yes
58W/865 - Xtreme	85	6500	A	5000	79000	3	1SL / 25	25	58865XTREME	892799 40	36.65	yes
70W/830 - Xtreme	85	3000	A	6100	79000	4	1SL / 25	25	70830XTREME	895509 40	56.82	yes
70W/840 - Xtreme	85	4000	A	6100	79000	4	1SL / 25	25	70840XTREME	895547 40	56.82	yes

MASTER TL-D Xtreme Polar



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604.0	40.5
2	1199.4	1204.1	1206.5	1213.6	40.5
3	1500.0	1504.7	1507.1	1514.2	40.5

Product Description

- Polar versions are regular MASTER TL-D Xtra and Xtreme lamps inside a clear T12 tube

Product Features

- Improved lumen output in low ambient temperatures
- The same reliable, long lifetime performance as regular MASTER TL-D Xtra and Xtreme
- Robust lamp construction due to strong, temperature-resistant assembly kit
- 10 pcs. packaging

Product Benefits

- High lighting level in low ambient temperature applications compared with other fluorescent tubes

- Strong reduction in maintenance costs due to high reliability and long lifetime
- Fully temperature-resistant in all conditions; no temperature-related relamping problems
- Supports end-user sustainability programs (low mercury level and low waste due to long lifetime)

Environment

- Good environmental choice because of highest energy efficiency in colder conditions (<10 °C), long reliable life (380% better than T8 standard), low waste (only 1 lamp compared with 4 T8 standard), lowest mercury content and lead-free

- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Indoor: cold stores and other refrigerated areas
- Outdoor: petrol stations, car parks, shipping docks, petrochemical plants, sign lighting, tunnels

MASTER TL-D Xtreme Polar G13

Wattage/Colour Code/Version	Colour Rendering Index	Colour Temperature	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/830 - Xtreme Polar	85	3000	A	1350	79000	1	1SL / 10	10	18830XTRMEPOLAR	892973 25	74.04	yes
18W/840 - Xtreme Polar	85	4000	A	1350	79000	1	1SL / 10	10	18840XTRMEPOLAR	892997 25	74.04	yes
36W/830 - Xtreme Polar	85	3000	A	3250	79000	2	1SL / 10	10	36830XTRMEPOLAR	893093 25	74.04	yes
36W/840 - Xtreme Polar	85	4000	A	3250	79000	2	1SL / 10	10	36840XTRMEPOLAR	893116 25	74.04	yes
58W/830 - Xtreme Polar	85	3000	A	5150	79000	3	1SL / 10	10	58830XTRMEPOLAR	893215 25	80.67	yes
58W/840 - Xtreme Polar	85	4000	A	5150	79000	3	1SL / 10	10	58840XTRMEPOLAR	893239 25	80.67	yes

MASTER TL-D Xtreme Secura



Product Description

- Low-pressure mercury discharge lamp with a tubular 26 mm envelope and a clear protective coating

Product Features

- Significant reduction of early failures based on new X-technology

- Extremely long life and high reliability
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps
- Strong, temperature-resistant protective Secura coating based on FEP (Teflon)
- Coating lifetime is identical to the lifetime of the lamp

Product Benefits

- Protective Teflon coating keeps glass and lamp components together in case of accidental breakage; allows use in open luminaires in food & beverages industry

- Easy identification in audit situations by blue ring at one end
- Special fluorescent coating gives good colour rendering
- Extremely long lifetime and reduced early failures mean lower maintenance workload and costs, and facilitate change from spot to group replacement
- Reduced waste and disposal costs at end-of-life
- Compliant with HACCP regulations and supports HACCP certification

Environment

- Good environmental choice because of long reliable life (380% better than T8 standard), low waste (only 1 lamp compared to 4 T8 standard), lowest mercury content and lead-free
- This product is a Philips Green Flagship

- This product is RoHS compliant
- This product is covered by WEEE

Application

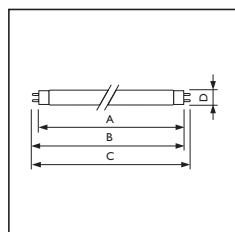
- Food & beverages and pharmaceuticals industry: factories, distribution centres, retail outlets; locations where maintenance and/or process disruption costs are high (high ceilings, difficult access)

Luminaires

- Suitable for open and closed luminaires (as indicated by the blue ring), due to the temperature-resistant coating

System

- Can be used with either conventional or HF electronic gear
- Higher efficacy and longer life with HF electronic gear

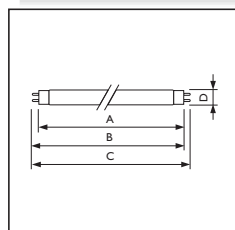


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604.0	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

MASTER TL-D Xtreme Secura G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(h)							
18W/830	85	3000	A	1300	79000	1	1SL / 25	25	18830XTREMESEC	889690 40	74.04	yes
18W/840	85	4000	A	1300	79000	1	1SL / 25	25	18840XTREMESEC	889713 40	74.04	yes
36W/830	85	3000	A	3250	79000	2	1SL / 25	25	36830XTREMESEC	889775 40	74.04	yes
36W/840	85	4000	A	3250	79000	2	1SL / 25	25	36840XTREMESEC	889799 40	74.04	yes
58W/830	85	3000	A	5000	79000	3	1SL / 25	25	58830XTREMESEC	889850 40	80.67	yes
58W/840	85	4000	A	5000	79000	3	1SL / 25	25	58840XTREMESEC	889874 40	80.67	yes

MASTER TL-D ActiViva



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

MASTER TL-D ActiViva G13

Wattage/Name Extension	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(h)							
18W/Active	82	17000	B	1150	20000	1	1SL / 25	25	18817ACTIVIVA	267306 40	19.70	yes
18W/Natural	82	8000	A	1300	20000	1	1SL / 25	25	18880ACTIVIVA	951830 40	19.70	yes
36W/Active	82	17000	B	2750	20000	2	1SL / 25	25	36817ACTIVIVA	267337 40	19.70	yes
36W/Natural	82	8000	A	3100	20000	2	1SL / 25	25	36880ACTIVIVA	951854 40	19.70	yes
58W/Active	82	17000	B	4500	20000	3	1SL / 25	25	58817ACTIVIVA	267351 40	19.70	yes
58W/Natural	82	8000	A	5000	20000	3	1SL / 25	25	58880ACTIVIVA	951878 40	19.70	yes

Product Description

- TL-D linear fluorescent lamps with a tubular 26 mm envelope and enhanced blue light content to promote well-being

Product Features

- Enhanced blue light content positively influences well-being
- Unique phosphor coating generates a light spectrum with an optimal balance between light for vision and blue light to promote well-being.
- Direct retrofit for existing fluorescent lamps operating on conventional or HF gear
- High-quality lighting (CRI>80) with efficiency comparable to other / 800 colors
- Dimmable

Product Benefits

- Tests show that ActiViva lighting makes people feel more alert, awake and energized, indicating an increase in their performance of 10% or more
- Contains 25% more blue light than daylight (can be combined well with other light sources in existing installations)
- ActiViva lamps can be used to expand the color range of Dynamic Lighting luminaires

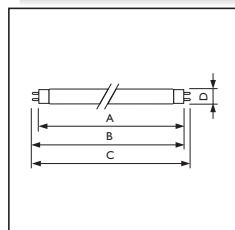
Environment

- Philips Green Flagship environmental label due to extremely low mercury levels
- Compliant with all RoHS and WEEE requirements

Application

- Indoor working areas (call centers, industry, schools, healthcare etc.), especially where an energizing environment needs to be created
- Can be combined well with other light sources in existing installations
- ActiViva Active is recommended for use in indirect lighting when total areas are equipped
- ActiViva can be used to enhance the circadian rhythm of people who work in night shifts

MASTER TL-D 90 De Luxe



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

- High-quality fluorescent coating
- Available in various colour designations

Product Benefits

- Very good colour rendering. Making colours appear rich, deep and enhanced as they do in daylight, making products appear more attractive

- 25% More light than competition
- Enabling customer to switch to 900-colours with (almost) no decrease of light level
- Enabling customers (in certain segments) to respect the new European standard for lighting of indoor workplaces (CEN 12464-1), without investing in new luminaires
- Attractive packaging configuration
- Direct retrofit for all Standard and Super 80 TL-D lamps operating on conventional or HF gear
- Possible to create atmospheres from warm white to cool daylight

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Used in applications where good colour rendering is crucial, such as shops (flower, fashion, department, etc.), hairdresser, museums, hospitals, etc

System

- Can be used with conventional or HF gear

MASTER TL-D 90 De Luxe G13

Wattage/Colour Code	Colour Rendering Index (Ra)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/930	92	3000	B	1150	20000	1	SLV / 10	10	18930DLP	888372 25	24.15	yes
18W/940	91	4000	B	1200	20000	1	SLV / 10	10	18940DLP	888396 25	24.15	yes
18W/950	93	5300	B	1200	20000	1	SLV / 10	10	18950DLP	888433 25	24.15	yes
18W/965	92	6500	B	1190	20000	1	SLV / 10	10	18965DLP	888464 25	24.15	yes
36W/930	92	3000	B	2800	20000	2	SLV / 10	10	36930DLP	888563 25	24.15	yes
36W/940	91	4000	B	2970	20000	2	SLV / 10	10	36940DLP	888587 25	24.15	yes
36W/950	93	5300	B	2800	20000	2	SLV / 10	10	36950DLP	888600 25	24.15	yes
36W/965	92	6500	B	2800	20000	2	SLV / 10	10	36965DLP	888624 25	24.15	yes
58W/930	92	3000	B	4350	20000	3	SLV / 10	10	58930DLP	888679 25	25.89	yes
58W/940	91	4000	B	4600	20000	3	SLV / 10	10	58940DLP	888693 25	25.89	yes
58W/950	93	5300	B	4550	20000	3	SLV / 10	10	58950DLP	888716 25	25.89	yes
58W/965	93	6500	B	4550	20000	3	SLV / 10	10	58965DLP	888730 25	25.89	yes

MASTER TL-D 90 Graphica



Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

- High-quality fluorescent coating
- Available in two colour designations

Product Benefits

- Excellent colour rendering. Making representation of colours extremely realistic
- Lamp developed to answer the needs of the demanding graphical industry (consistent with the strict standards for the graphical industry defined in EN-12464)
- Very accurate colour point
- Attractive packaging configuration

- Direct retrofit for all Standard and Super 80 TL-D lamps operating on conventional or electronic gear
- Choice of daylight and cool daylight colours

Environment

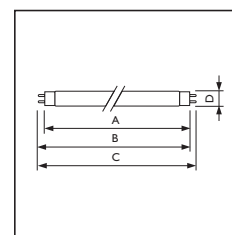
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Used in applications where excellent colour rendering is crucial, such as the graphical industry, printing industry, photo shops, hospitals, etc.

System

- Can be used with conventional or electronic gear



Dim. no.	A max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604
2	1199.4	1204.1	1206.5	1213.6
3	1500.0	1504.7	1507.1	1514.2

MASTER TL-D 90 Graphica G13

Wattage/Colour Code	Colour Rendering Index	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
18W/950	98	5300	B	950	20000	1	1SL / 10	10	18950GP	888501 25	31.39	yes
18W/965	98	6500	B	930	20000	1	1SL / 10	10	18965GP	888525 25	31.39	yes
36W/950	98	5300	B	2300	20000	2	1SL / 10	10	36950GP	888648 25	31.39	yes
36W/965	98	6500	B	2100	20000	2	1SL / 10	10	36965GP	888365 25	31.39	yes
58W/950	98	5300	B	3650	20000	3	1SL / 10	10	58950GP	888754 25	33.66	yes
58W/965	98	6500	B	3350	20000	3	1SL / 10	10	58965GP	888778 25	33.66	yes

TL-D Standard Colours



Product Description

- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

Product Features

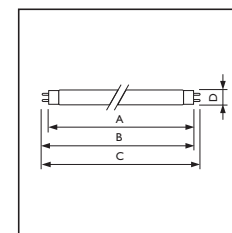
- Standard colours with moderate colour rendering
- Available in various colour designations

Product Benefits

- Create atmospheres from warm white to cool daylight

Application

- Suitable for use in a wide range of luminaires for TL-D fluorescent lamps, used in applications where colour rendering is not an important factor



Dim. no.	A max.	B min.	C max.	D max.
1	437.4	442.1	444.5	451.6
2	589.8	594.5	596.9	604
3	894.6	899.3	901.7	908.8
4	1199.4	1204.1	1206.5	1213.6
5	1500.0	1504.7	1507.1	1514.2
6	1763.8	1768.5	1770.9	1778

TL-D G13

Wattage/Colour Code/Version	Colour Rendering Index	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% failures EM,3 h (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
15W/33-640	63	4100	B	960	13000	1	1SL / 25	25	1533	702777 40	22.93	yes
15W/35-535	55	3500	B	960	13000	1	1SL / 25	25	1535	618634 40	22.93	yes
18W/33-640	63	4100	B	1200	13000	2	1SL / 25	25	1833	702661 40	16.14	yes
18W/35-535	55	3500	B	1150	13000	2	1SL / 25	25	1835MP	644923 40		yes
18W/35-535	55	3500	B	1150	13000	2	1SL / 25	25	1835	729002 40	16.14	yes
30W/33-640	63	4100	B	2100	13000	3	1SL / 25	25	3033	702821 40	35.11	yes
30W/35-535	55	3500	B	2300	13000	3	1SL / 25	25	3035	618603 40	35.11	yes
36W/33-640	63	4100	B	2850	13000	4	1SL / 25	25	3633	702708 40	16.14	yes
36W/35-535	55	3500	A	3000	13000	4	1SL / 25	25	3635MP	704405 40		yes
36W/35-535	55	3500	A	3000	13000	4	1SL / 25	25	3635	704580 40	16.14	yes
58W/33-640	63	4100	B	4600	13000	5	1SL / 25	25	5833	702746 40	17.60	yes
58W/35-535	55	3500	B	4600	13000	5	1SL / 25	25	5835	700704 40	17.60	yes
70W/33-640	63	4100	B	5250	13000	6	1SL / 25	25	7033	618375 40	27.19	yes
70W/35-535	55	3500	B	5400	13000	6	1SL / 25	25	7035	615862 40	27.19	yes

TL-D Blacklight Blue



Product Description

- Low-pressure mercury vapour fluorescent lamps with an inner envelope coated with a fluorescent powder emitting long wave UV radiation to excite luminescence

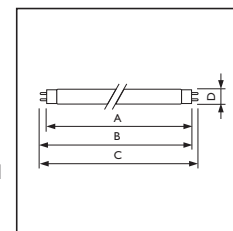
Product Features

- TL-D/08 Blacklight blue lamps have a straight outer envelope

Application

- Detection and analysis in the textile and chemical industries
- Archaeology

- Banking
- Forensic science
- Food industry
- Medicine
- Mineralogy
- Philately
- Special effects in night clubs, discos and theatres
- Sign lighting



Dim. no.	A max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604
2	1199.4	1204.1	1206.5	1213.6

System

- TL-D/08 lamps operate on AC mains supply via a ballast and a starter

TL-D G13

Wattage/Colour Code	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/108	1	SLV / 25	25	1808	951113 40	38.60	yes
36W/108	2	SLV / 25	25	3608	951151 40	57.82	yes
36W/08	2	SLV / 25	25		727428 40		

TL-D Aquarelle /89



Product Description

- Low-pressure mercury vapour fluorescent lamps

Product Features

- Light output closely matches the natural light wavelength which is required for successful photosynthesis and chlorophyll synthesis
- Particularly high energy in the blue region, providing a well balanced spectrum which stimulates oxygen production, promotes thriving aquarium plant and fish life and gives good colour rendering

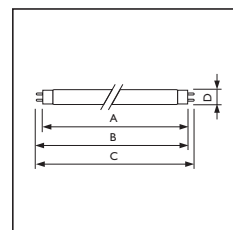
- Can be combined with Philips TL-D/80 New Generation or TL-D/90 de Luxe colours to create different visual impressions without impairing the biological qualities of the Aquarelle light output

Application

- Optimally tuned to reveal the true beauty of fish and plant life in fresh water aquaria

System

- Operated on AC mains on switch-start or HF control gear



Dim. no.	A max.	B min.	C max.	D max.
1	361.2	365.9	368.3	375.4
2	740	744.7	747.1	754.2
3	894.6	899.3	901.7	908.8
4	1047	1051.7	1054.1	1061.2

TL-D G13

Wattage/Colour Code	Colour Rendering Index (Ra)	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
14W/89	70	10000	600	1	SLV / 25	25	1489	642530 40	19.75	yes
25W/89	70	10000	1440	2	SLV / 25	25	2589	640321 40	21.54	yes
30W/89	70	10000	1820	3	SLV / 6	6	3089	620279 10		yes
38W/89	70	10000	2430	4	SLV / 25	25	3889	628718 40	24.29	yes

TL-D Aquacoral /03



Product Description

- Tubular low-pressure mercury vapour discharge lamps

Product Features

- Internally coated with a white fluorescent powder to convert the short-wave UV radiation into useful actinic radiation

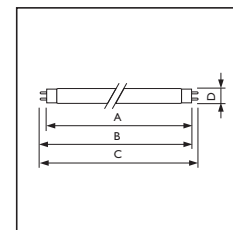
- Emit radiation in the range 380 - 480 nm with a maximum at 420 nm
- For maximum beauty of marine aquaria, these lamps can be used in combination with full-spectrum 'Natural Daylight' fluorescent lamps

Application

- Marine aquaria

System

- Operated on AC mains on switch-start or HF control gear



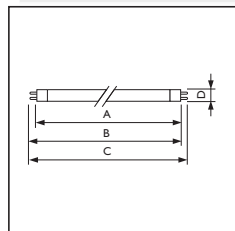
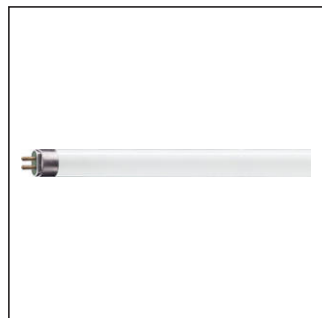
A max.	B min.	C max.	D max.
894.6	899.3	901.7	908.8

TL-D G13

Wattage/Colour Code	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
30W/03	SLV / 6	6	3003	625021 10	19.31	yes

TL5

MASTER TL5 High Efficiency



Dim. no.	A max.	B min.	C max.	D max.
1	549.0	553.7	556.1	563.2
2	849.0	853.7	856.1	863.2
3	1149.0	1153.7	1156.1	1163.2
4	1449.0	1453.7	1456.1	1463.2

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- 40% thinner than TL-D lamps
- High lamp efficacies up to 104 lm/W
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Product Benefits

- Allows system miniaturisation and maximum luminaire design freedom

- Lamp lengths enable easy fitting into ceiling module systems
- Offers higher efficiencies and energy savings compared with TL-D lamps
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable lightsource (40% less than a TL-D standard lamp, 26% less than TL-D 800). Products having the "Green Flagship" logo contain the lowest mercury content in the industry and are 100% lead free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)

- This product range is RoHS compliant
- This product range is covered by WEEE

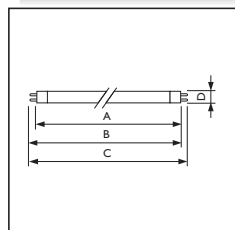
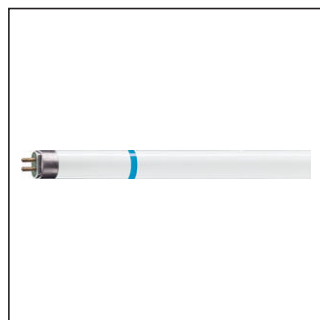
Application

- Ideally suited for recessed, surface-mounted and suspended luminaires in applications like offices, shops, schools, public buildings and industry, wherever high-quality, energy-effective lighting is required

MASTER TL5 HE G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(R _a)	(K)		(lm)	(lm/W)	(h)							
14W/830	85	3000	A	1200	99	24000	1	1SL / 40	40	14830	639387 55	17.34	yes
14W/830	85	3000	A	1200	99	24000	1	UNP / 40	40	14830/P	610638 55	17.34	yes
14W/835	85	3500	A	1200	99	24000	1	1SL / 40	40	14835	707659 55	17.34	yes
14W/835	85	3500	A	1200	99	24000	1	UNP / 40	40	14835/P	610645 55	17.34	yes
14W/840	85	4000	A	1200	99	24000	1	1SL / 40	40	14840	639400 55	17.34	yes
14W/840	85	4000	A	1200	99	24000	1	UNP / 40	40	14840/P	610669 55	17.34	yes
14W/865	85	6500	A	1100	91	24000	1	1SL / 40	40	14865	710093 55	17.34	yes
14W/865	85	6500	A	1100	91	24000	1	UNP / 40	40	14865/P	610683 55	17.34	yes
21W/830	85	3000	A	1900	101	24000	2	1SL / 40	40	21830	639424 55	17.53	yes
21W/830	85	3000	A	1900	101	24000	2	UNP / 40	40	21830/P	610706 55	17.53	yes
21W/835	85	3500	A	1900	101	24000	2	UNP / 40	40	21835/P	610713 55	17.53	yes
21W/840	85	4000	A	1900	101	24000	2	1SL / 40	40	21840	639448 55	17.53	yes
21W/840	85	4000	A	1900	101	24000	2	UNP / 40	40	21840/P	610720 55	17.53	yes
21W/865	85	6500	A	1750	94	24000	2	1SL / 40	40	21865	710116 55	17.53	yes
28W/830	85	3000	A	2600	104	24000	3	1SL / 40	40	28830	639462 55	17.93	yes
28W/830	85	3000	A	2600	104	24000	3	UNP / 40	40	28830/P	610812 55	17.93	yes
28W/835	85	3500	A	2600	104	24000	3	1SL / 40	40	28835	710048 55	17.93	yes
28W/835	85	3500	A	2600	104	24000	3	UNP / 40	40	28835/P	610874 55	17.93	yes
28W/840	85	4000	A	2600	104	24000	3	1SL / 40	40	28840	639486 55	17.93	yes
28W/840	85	4000	A	2600	104	24000	3	UNP / 40	40	28840/P	610904 55	17.93	yes
28W/865	85	6500	A	2400	97	24000	3	1SL / 40	40	28865	710154 55	17.93	yes
28W/865	85	6500	A	2400	97	24000	3	UNP / 40	40	28865/P	610928 55	17.93	yes
35W/830	85	3000	A	3300	105	24000	4	1SL / 40	40	35830	639509 55	17.93	yes
35W/830	85	3000	A	3300	105	24000	4	UNP / 40	40	35830/P	611031 55	17.93	yes
35W/835	85	3500	A	3300	105	24000	4	1SL / 40	40	35835	710062 55	17.93	yes
35W/835	85	3500	A	3300	105	24000	4	UNP / 40	40	35835/P	611048 55	17.93	yes
35W/840	85	4000	A	3300	105	24000	4	1SL / 40	40	35840	639523 55	17.93	yes
35W/840	85	4000	A	3300	105	24000	4	UNP / 40	40	35840/P	611055 55	17.93	yes
35W/865	85	6500	A	3100	98	24000	4	1SL / 40	40	35865	710185 55	17.93	yes

MASTER TL5 HE Secura



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	549.0	553.7	556.1	563.2	17
2	1149.0	1153.7	1156.1	1163.2	17
3	1449.0	1453.7	1456.1	1463.2	17

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope and protective coating around the lamp to prevent contamination resulting from breakage

Product Features

- All the advantages of TL5 HE lamps
- Protective coating around the lamp (may extend by maximally 0.5 mm at lamp ends)
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HE lamps

Product Benefits

- All the benefits of TL5 HE lamps
- Safety: special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage
- Superior coating material: high temperature-resistance (up to 200 °C) and no degradation under influence of temperature or UV
- Easy identification in audit situations by the blue ring at one end
- Compliant with relevant standards in the food industry, such as HACCP and ISO22000

Environment

- Best environmental choice because of highest energy efficiency, lowest mercury content and lead-free
- This product is RoHS compliant
- This product is covered by WEEE

Application

- For use where contamination resulting from lamp breakage must be prevented, e.g. in food industry, suppliers to the food industry, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

MASTER TL5 HE Secura G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(lm/W)	(h)							
14W/840	85	4000	A	1200	99	24000	1	UNP / 40	40	14840TL5SEC	954763 55	40.46	yes
28W/840	85	4000	A	2600	104	24000	2	UNP / 40	40	28840TL5SEC	952158 55	40.46	yes
35W/840	85	4000	A	3250	105	24000	3	UNP / 40	40	35840TL5SEC	952196 55	40.46	yes

MASTER TL5 High Output



Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation

- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Product Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Optimised for installations which need high luminous flux

- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

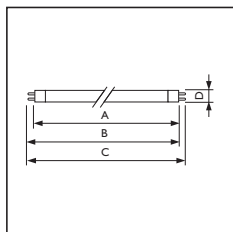
Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable lightsource (40% less than a TL-D standard lamp, 26% less than TL-D 800). Products having the "Green Flagship" logo contain the lowest mercury content in the industry and are 100% lead free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)

- This product range is RoHS compliant
- This product range is covered by WEEE

Application

- The combination of a compact lamp and high lumen package of the MASTER TL5 HO offers exciting opportunities for architectural lighting and customised solutions
- Offers economic solutions with high-ceiling lighting in shops, industry and department stores
- The high luminous flux gives optimal results in aesthetic pendants and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

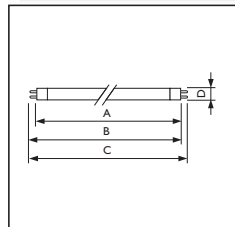
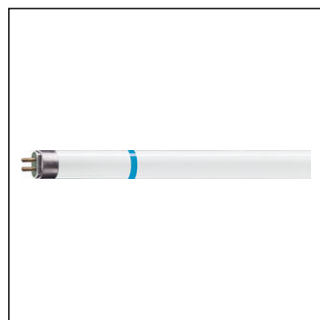


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	549.0	553.7	556.1	563.2	17
2	849.0	853.7	856.1	863.2	17
3	1449.0	1453.7	1456.1	1463.2	17
4	1149.0	1153.7	1156.1	1163.2	17

MASTER TL5 HO G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
(R _a)	(K)	(lm)	(lm/W)	(h)									
24W/827	85	2700	A	1750	89	24000	1	1SL / 40	40	24827	643087 55	17.34	yes
24W/830	85	3000	A	1750	89	24000	1	1SL / 40	40	24830	639585 55	17.34	yes
24W/830	85	3000	A	1750	89	24000	1	UNP / 40	40	24830IP	636980 55	17.34	yes
24W/840	85	4000	A	1750	89	24000	1	1SL / 40	40	24840	639608 55	17.34	yes
24W/840	85	4000	A	1750	89	24000	1	UNP / 40	40	24840IP	637048 55	17.34	yes
24W/865	85	6500	A	1650	84	24000	1	1SL / 40	40	24865	643933 55	17.34	yes
39W/827	85	2700	A	3100	92	24000	2	1SL / 40	40	39827	643100 55	17.53	yes
39W/830	85	3000	A	3100	92	24000	2	1SL / 40	40	39830	639622 55	17.53	yes
39W/830	85	3000	A	3100	92	24000	2	UNP / 40	40	39830IP	637161 55	17.53	yes
39W/840	85	4000	A	3100	92	24000	2	1SL / 40	40	39840	639646 55	17.53	yes
39W/840	85	4000	A	3100	92	24000	2	UNP / 40	40	39840IP	637222 55	17.53	yes
39W/865	85	6500	A	2900	87	24000	2	1SL / 40	40	39865	643872 55	17.53	yes
49W/827	85	2700	A	4300	99	24000	3	1SL / 40	40	49827	643124 55	17.93	yes
49W/830	85	3000	A	4300	99	24000	3	1SL / 40	40	49830	639547 55	17.93	yes
49W/830	85	3000	A	4300	99	24000	3	UNP / 40	40	49830IP	637529 55	17.93	yes
49W/835	85	3500	A	4300	99	24000	3	UNP / 40	40	49835	891105 55	17.93	yes
49W/840	85	4000	A	4300	99	24000	3	1SL / 40	40	49840	639561 55	17.93	yes
49W/840	85	4000	A	4300	99	24000	3	UNP / 40	40	49840IP	637581 55	17.93	yes
49W/865	85	6500	A	4100	94	24000	3	1SL / 40	40	49865	643896 55	17.73	yes
54W/827	85	2700	A	4450	93	24000	4	1SL / 40	40	54827	643148 55	17.93	yes
54W/830	85	3000	A	4450	93	24000	4	1SL / 40	40	54830	643162 55	17.93	yes
54W/830	85	3000	A	4450	93	24000	4	UNP / 40	40	54830IP	637345 55	17.93	yes
54W/840	85	4000	A	4400	93	24000	4	1SL / 40	40	54840	643186 55	17.93	yes
54W/840	85	4000	A	4400	93	24000	4	UNP / 40	40	54840IP	637406 55	17.93	yes
54W/865	85	6500	A	4150	88	24000	4	1SL / 40	40	54865	643919 55	17.93	yes
80W/827	85	3000	A	6150	88	24000	3	UNP / 40	40	80827IP	263292 55	18.80	yes
80W/830	85	3000	A	6150	88	24000	3	1SL / 40	40	80830	710406 55	18.80	yes
80W/840	85	4000	A	6150	88	24000	3	1SL / 40	40	80840	710451 55	18.80	yes
80W/840	85	4000	A	6150	88	24000	3	UNP / 40	40	80840IP	644381 55	18.80	yes
80W/865	85	6500	B	5850	83	24000	3	1SL / 40	40	80865	710475 55	18.80	yes

MASTER TL5 High Output Secura



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	549.0	553.7	556.1	563.2	17
2	1449.0	1453.7	1456.1	1463.2	17
3	1149.0	1153.7	1156.1	1163.2	17

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope and protective coating around the lamp to prevent contamination resulting from breakage

Product Features

- All the advantages of TL5 HO lamps
- Protective coating around the lamp (may extend by maximally 0.5 mm at lamp ends)
- Single blue ring around one end for identification
- Direct retrofit for all TL5 HO lamps

Product Benefits

- All the benefits of TL5 HO lamps
- Safety: special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage.
- Superior coating material: high temperature-resistance (up to 200°C) and no degradation under influence of temperature or UV
- Easy identification in audit situations by the blue ring at one end
- Compliant with relevant standards in the food industry, such as HACCP and ISO22000.

Environment

- Best environmental choice because of highest energy efficiency, lowest mercury content and lead-free
- This product is RoHS compliant
- This product is covered by WEEE

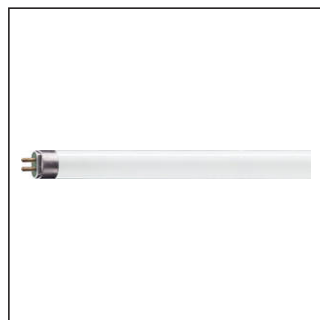
Application

- For use where contamination resulting from lamp breakage must be prevented, e.g. in food industry, suppliers to the food industry, health care, pharmaceuticals, cleanrooms etc.
- Suitable for use in environments with increased risk of breakage, e.g. sports halls

MASTER TL5 HO Secura G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(lm/W)	(h)							
24W/840	85	4000	A	1750	89	24000	1	UNP / 40	40	24840TL5SEC	954800 55	40.46	yes
49W/840	85	4000	A	4250	99	24000	2	UNP / 40	40	49840TL5SEC	952271 55	40.46	yes
54W/840	85	4000	A	4400	93	24000	3	UNP / 40	40	54840TL5SEC	952318 55	40.46	yes
80W/840	85	4000	A	6100	88	24000	2	UNP / 40	40	80840TL5SEC	952356 55	48.54	yes

MASTER TL5 High Output Xtra



Product Description

- Low-pressure high-output mercury discharge lamps with a tubular 16 mm envelope

Product Features

- Significant reduction of early failures through advanced long life technology
- Extra long lifetime and high reliability

- Designed for high lumen output and system miniaturization (40% thinner than TL-D lamps)
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Maximum lumen output reached at approx. 35 °C in free-burning position
- Can be ignited from -15 ° to +50 °C
- Low mercury dose
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps

Product Benefits

- Compact lamp with high lumen package
- Longer lifetime and fewer early failures mean lower maintenance costs and facilitate change from spot to group replacement
- Less waste and disposal cost at end-of-life

- Allow system miniaturization with maximum luminaire design freedom
- Optimized for installations which need high luminous flux
- Excellent lumen maintenance
- Good color rendering

Environment

- Best environmental choice because of highest energy efficiency for fluorescent lighting and long reliable life. This leads to lower CO₂ emissions than any other comparable light source (40% less than TL-D standard lamp, 26% less than TL-D 800) and less waste. Products with the 'Green Flagship' logo have the industry's lowest mercury content and are 100% lead-free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less than TL-D lamps)

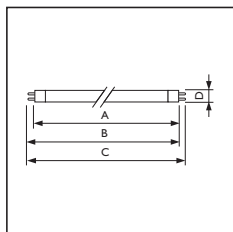
- This product range is RoHS compliant
- This product range is covered by WEEE

Applications

- Where maintenance costs are high, e.g. high ceilings or other hard-to-reach locations
- Department stores, supermarkets, warehouses, production halls and public areas like car parks and railway stations

System

- Can be used with TL5 electronic gear
- Longest lifetime is achieved with Philips HF Xtreme gear

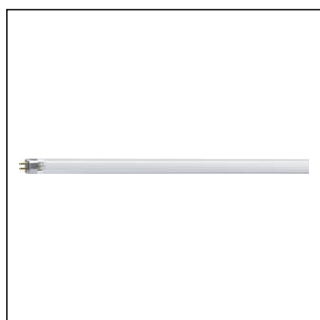


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	1449.0	1453.7	1456.1	1463.2	17
2	1149.0	1153.7	1156.1	1163.2	17

MASTER TL5 HO Xtra G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(lm/W)	(h)							
49W/830	85	3000	A	4300	99	45000	1	1SL / 20	20	49830XTRATL5	262516 05	26.36	yes
49W/840	85	4000	A	4300	99	45000	1	1SL / 20	20	49840XTRATL5	262530 05	26.36	yes
54W/830	85	3000	A	4450	93	45000	2	1SL / 20	20	54830XTRATL5	263230 05	26.36	yes
54W/840	85	4000	A	4450	93	45000	2	1SL / 20	20	54840XTRATL5	263520 05	26.36	yes
80W/830	85	3000	A	6150	88	45000	1	1SL / 20	20	80830XTRATL5	262615 05	32.95	yes
80W/840	85	4000	A	6150	88	45000	1	1SL / 20	20	80840XTRATL5	263032 05	32.95	yes

MASTER TL5 High Output TOP



Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope with amalgam controlled operation

Product Features

- 40% thinner than TL-D lamps
- Designed for high lumen output and system miniaturization

- Lumen output higher than 90% of maximum value at ambient lamp temperatures from 20 to 75°C due to amalgam-controlled operation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Allows dimming-down to 30% light output
- Hot restrike and good run-up behavior compared to high intensity discharge lamps due to auxiliary amalgams at both lamp ends
- Can be ignited at temperatures from -15 to +75°C
- Not recommended for emergency lighting due to slower run-up behavior than non-amalgam TL5 lamps

Product Benefits

- Allows system miniaturisation with maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Retrofit to current TL5 HO non-amalgam lamps
- Optimised for installations which need high luminous flux, especially in cold (0-15 °C) and hot (above 40 °C) conditions
- Constant lumen level over a wide temperature range with excellent lumen maintenance
- Good color rendering

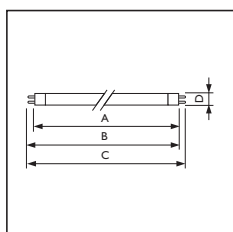
Environment

- Highest energy efficiency in fluorescent lighting
- Product with the industry's lowest mercury content and 100% lead-free

- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less than TL-D)
- RoHS compliant
- Covered by WEEE

Application

- Architectural lighting and customised solutions thanks to compact lamp size and high lumen package, especially in cold (0 to 15 °C) and hot (above 40 °C) conditions
- Economic solutions with high-ceiling lighting in retail and industrial application areas
- Especially uplighting applications in offices where higher lumen packages are needed
- Esthetic pendants, closed and furniture-mounted luminaires in offices, workshops, restaurants and reception areas

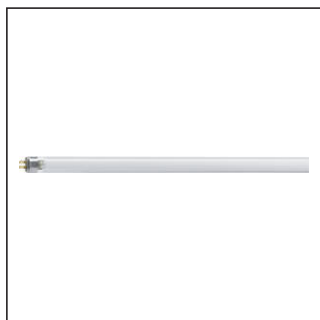


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	1449.0	1453.7	1456.1	1463.2	17
2	1149.0	1153.7	1156.1	1163.2	17

MASTER TL5 HO TOP G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(lm/W)	(h)							
49W/830	85	3000	A	4650	99	24000	1	1SL / 20	20	49830TOP	266835 05	23.50	yes
49W/840	85	4000	A	4650	99	24000	1	1SL / 20	20	49840TOP	266873 05	23.50	yes
54W/830	85	3000	A	4750	93	24000	2	1SL / 20	20	54830TOP	266934 05	23.75	yes
54W/840	85	4000	A	4750	93	24000	2	1SL / 20	20	54840TOP	266958 05	23.75	yes
80W/830	85	3000	B	6650	88	24000	1	1SL / 20	20	80830TOP	266897 05	27.07	yes
80W/840	85	4000	B	6650	88	24000	1	1SL / 20	20	80840TOP	266910 05	27.07	yes

MASTER TL5 Very High Output TOP



Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope with amalgam controlled operation

Product Features

- The first fluorescent solution which is really suited for high-bay applications such as industry halls, (unconditioned) warehouses and 'big box' retail outlets

- 40% thinner than TL-D lamps
- Designed for very high lumen output and system miniaturization
- Lumen output higher than 90% of maximum value at ambient lamp temperatures from 20 to 75°C due to amalgam-controlled operation
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear
- Allows dimming down to 30% light output
- Hot restrike and good run-up behavior compared to high intensity discharge lamps due to auxiliary amalgams at both lamp ends

- Can be ignited at temperatures from -15 to +75°C
- Not recommended for emergency lighting due to slower run-up behavior than non-amalgam TL5 lamps

Product Benefits

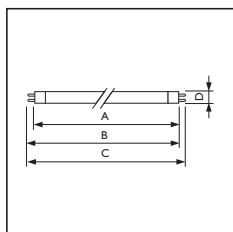
- Allow system miniaturization with maximum luminaire design freedom
- Lower initial investments than any other fluorescent lighting solution, because fewer luminaires are needed
- Optimized for installations which need very high luminous flux
- Good light distribution, beam control, long lifetime and low maintenance costs
- Constant lumen level over a wide temperature range with excellent lumen maintenance
- Good color rendering

Environment

- Product with the industry's lowest mercury content and 100% lead-free
- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less than TL-D)
- RoHS compliant
- Covered by WEEE

Application

- Best solution for high ceilings in industrial and retail environments
- Customized solutions in high-bay applications thanks to compact lamp size and very high lumen package

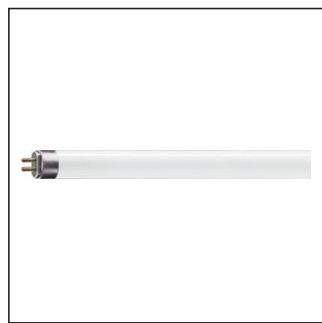


Dim. no.	A max.	B min.	C max.	D max.
1	1149.0	1153.7	1156.1	1163.2
2	1449.0	1453.7	1456.1	1463.2

MASTER TL5 VHO TOP GX5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(lm/W)	(h)							
95W/830	85	3000	B	6850	76	24000	1	1SL / 20	20	95830VHO	266972 05	32.46	yes
95W/830	85	3000	B	6850	76	24000	1	UNP / 40	40	95840VHOIP	267177 55	32.46	yes
95W/840	85	4000	B	6850	76	24000	1	1SL / 20	20	95840VHO	266996 05	32.46	yes
95W/840	85	4000	B	6850	76	24000	1	UNP / 40	40	95830VHOIP	267221 55	32.46	yes
120W/830	85	3000	B	8850	78	24000	2	1SL / 20	20	120830VHO	267016 05	32.46	yes
120W/830	85	3000	B	8850	78	24000	2	UNP / 40	40	120830VHOIP	267245 55	32.46	yes
120W/840	85	4000	B	8850	78	24000	2	1SL / 20	20	120840VHO	267030 05	32.46	yes
120W/840	85	4000	B	8850	78	24000	2	UNP / 40	40	120840VHOIP	267269 55	32.46	yes

MASTER TL5 High Output 90 De Luxe

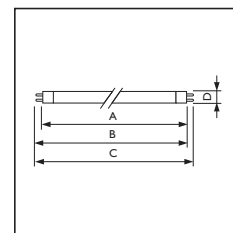


Product Features

- 40% thinner than existing TL-D lamps
- Highly efficient multi-band fluorescent coating in combination with precoating and high lamp load
- Specifically designed for operation with electronic gear and well suited for dimming
- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Product Benefits

- Allows system miniaturisation and maximum luminaire design freedom, with lamp lengths defined for easy fitting into ceiling module systems
- Virtually constant lumen level with good lumen maintenance
- Excellent colour rendering



Application

- Where a high colour recognition is needed: first aid and treatment rooms in hospitals, printing rooms, jewellery manufacturing, dentists, hairdressers, museums and shops

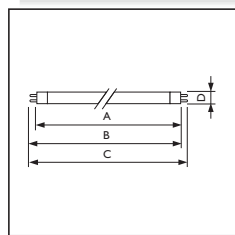
Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

MASTER TL5 HO 90 De Luxe G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)	(K)		(lm)	(lm/W)	(h)							
24W/940	91	4000	B	1400	71	24000	1	1SL / 15	15	24940	868954 20	22.76	yes
24W/950	93	5200	B	1400	71	24000	1	1SL / 15	15		890641 20		
24W/965	93	6800	B	1400	71	24000	1	1SL / 15	15	24965	261304 20	22.76	yes
49W/940	91	4000	A	3700	85	24000	2	1SL / 15	15	49940	868978 20	23.28	yes
49W/950	93	5200	A	3700	85	24000	2	1SL / 15	15		890627 20		
49W/965	93	6800	A	3700	85	24000	2	1SL / 15	15	49965	869722 20	23.28	yes
54W/940	91	4000	B	3800	80	24000	3	1SL / 15	15	54940	869050 20	23.53	yes
54W/950	93	5200	B	3800	80	24000	3	1SL / 15	15		890665 20		
54W/965	93	6800	B	3800	80	24000	3	1SL / 15	15	54965	869838 20	23.53	yes

MASTER TL5 ActiViva



Product Description

- TL5 linear fluorescent lamps with a 16 mm tubular envelope and enhanced blue light content to promote well-being

Product Features

- Enhanced blue light content positively influences well-being
- Unique phosphor coating generates a light spectrum with an optimal balance between light for vision and blue light to promote well-being.
- Direct retrofit for existing fluorescent lamps operating on conventional or HF gear
- High-quality lighting (CRI>80) with efficiency comparable to other / 800 colors
- Dimmable

Product Benefits

- Tests show that ActiViva lighting makes people feel more alert, awake and energized, indicating an increase in their performance of 10% or more
- ActiViva Active contains 85% more blue light than daylight for real 'blue sky' effect (for best results total areas should be equipped on retrofitting)
- ActiViva Natural contains 25% more blue light than daylight (can be combined well with other light sources in existing installations)
- ActiViva lamps can be used to expand the color range of Dynamic Lighting luminaires

Environment

- Philips Green Flagship environmental label due to extremely low mercury levels
- Compliant with all RoHS and WEEE requirements

Application

- Indoor working areas (call centers, industry, schools, healthcare etc.), especially where an energizing environment needs to be created
- ActiViva Active is recommended for use in indirect lighting when total areas are equipped
- ActiViva Natural can be combined well with other light sources in existing installations

Dim. no.	A max.	B min.	C max.	D max.
1	549.0	553.7	556.1	563.2
2	849.0	853.7	856.1	863.2
3	1149.0	1153.7	1156.1	1163.2
4	1449.0	1453.7	1456.1	1463.2

G5

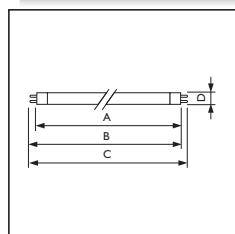
Type	Wattage/ Name Extension	Colour Rende- ring Index	Colour Tem- pera- ture	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configu- ration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)	(K)		(lm)	(lm/W)	(h)							
MASTER TL5 HE ActiViva	14W/Active	82	17000	B	850	71	24000	1	1SL / 40	40	14817ACTIVIVA	267429 55	17.72	yes
MASTER TL5 HE ActiViva	14W/Natural	82	8000	B	950	78	24000	1	1SL / 40	40	14880ACTIVIVA	267405 55	17.72	yes
MASTER TL5 HE ActiViva	21W/Active	82	17000	B	1400	76	24000	2	1SL / 40	40	21817ACTIVIVA	267467 55	17.72	yes
MASTER TL5 HE ActiViva	21W/Natural	82	8000	B	1500	83	24000	2	1SL / 40	40	21880ACTIVIVA	267443 55	17.72	yes
MASTER TL5 HO ActiViva	24W/Active	82	17000	A	1550	84	24000	1	1SL / 40	40	24817ACTIVIVA	951755 55	20.50	yes
MASTER TL5 HO ActiViva	24W/Natural	82	8000	A	1650	84	24000	1	1SL / 40	40	24880ACTIVIVA	951694 55	15.75	yes

More data see next page

G5 (continued)

Type	Wattage/ Name Extension	Colour Rende- ring Index	Colour Tem- pera- ture	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux 25°C EL	Luminous Efficacy EL Top, 35°C	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing confi- guration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)	(K)		(lm)	(lm/W)	(h)							
MASTER TL5 HE ActiViva	28W/Active	82	17000	B	2000	82	24000	3	1SL / 40	40	28817ACTIVIVA	267597 55	17.72	yes
MASTER TL5 HE ActiViva	28W/Natural	82	8000	B	2200	89	24000	3	1SL / 40	40	28880ACTIVIVA	267566 55	17.72	yes
MASTER TL5 HE ActiViva	35W/Active	82	17000	B	2450	80	24000	4	1SL / 40	40	35817ACTIVIVA	267658 55	17.72	yes
MASTER TL5 HE ActiViva	35W/Natural	82	8000	B	2600	85	24000	4	1SL / 40	40	35880ACTIVIVA	267610 55	17.72	yes
MASTER TL5 HO ActiViva	49W/Active	82	17000	B	3700	94	24000	4	1SL / 40	40	49817ACTIVIVA	951816 55	21.18	yes
MASTER TL5 HO ActiViva	49W/Natural	82	8000	B	4100	94	24000	4	1SL / 40	40	49880ACTIVIVA	951793 55	16.10	yes
MASTER TL5 HO ActiViva	54W/Active	82	17000	B	3800	89	24000	3	1SL / 40	40	54817ACTIVIVA	951779 55	21.98	yes
MASTER TL5 HO ActiViva	54W/Natural	82	8000	A	4250	89	24000	3	1SL / 40	40	54880ACTIVIVA	951717 55	16.29	yes

MASTER TL5 Coloured



Dim. no.	A max.	B min.	C max.	D max.
1	549.0	553.7	556.1	563.2
2	1149.0	1153.7	1156.1	1163.2

Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- Highly efficient one-band fluorescent coating in combination with pre-coating and high lamp load
- 40% thinner than existing TL-D lamps
- Low mercury dose
- Specifically designed for operation with electronic gear and well suited for dimming

- Maximum light output reached at approx. 35 °C in free-burning position if an electronic ballast without additional electrode heating is used
- Can be ignited from -15 to +50 °C

Product Benefits

- Allows creating special colour effects with one-band colours
- Allows colour mixing to white light ranging from 2700 K to 6500 K
- Allows system miniaturisation and maximum luminaire design freedom

Application

- Creation of special colour effects and/or ambiance, e.g. in theaters, shops, disco's, theme parks, shop windows, displays and signs
- Creation of different ambiances with white light by changing the colour temperature, e.g. in shops, treatment rooms, theatres, high-end offices, conference rooms and colour matching purposes

MASTER TL5 HO Colored

Wattage/ Colour Code	Cap- Base	Colour Designation	Lamp Luminous Flux 25°C EL	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
			(lm)	(h)							
24W/150	G5	Red	1400	24000	1	1SL / 15	15	24TL5RED	611826 20	29.48	yes
24W/170	G5	Green	2750	24000	1	1SL / 15	15	24TL5GREEN	611840 20	29.48	yes
24W/180	G5	Blue	550	24000	1	1SL / 15	15	24TL5BLUE	611864 20	29.48	yes
54W/150	G5	Red	3450	24000	2	1SL / 15	15	54TL5RED	611901 20	36.00	yes
54W/170	G5	Green	6900	24000	2	1SL / 15	15	54TL5GREEN	611925 20	36.00	yes
54W/180	G5	Blue	1500	24000	2	1SL / 15	15	54TL5BLUE	611949 20	36.00	yes

MASTER TL5 Circular



Product Features

- Perfect circular shape
- Highly efficient 3-band fluorescent coating
- Specifically designed for operation with electronic gear
- Can be ignited from -15 to +50 °C
- Amalgam technology

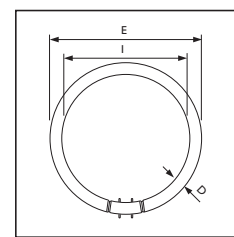
Product Benefits

- Slim 16 mm tube allows creation of extremely flat luminaires
- Allows appealing circular designs
- High lamp efficacy
- Good colour rendering

- Temperature independent light output
- Higher average system efficiency

Application

- Brings the benefits of TL5 lighting to an even wider range of attractive applications
- Suitable for a wide range of professional and semi-professional applications
- Ideal for use in shops, offices and public areas with non-traditional lay-outs
- Amalgam lamps are limited suitable for dimming applications



Dim. no.	D min.	D max.	E min.	E max.	I min.	I max.
1	14	18	220	230	187	197
2	14	18	293	305	260	272
3	14	18	367	379	334	346

Product Description

- 16 mm tube diameter circular fluorescent lamps with a choice of various diameters

MASTER TL5 Circular 2GX13

Wattage/Colour Code	Colour Rendering Index	Colour Temperature	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
	(Ra)	(K)		(lm)	(h)							
22W/830	85	3000	A	1800	12000	1	1CT / 10	10	22TL5C830	640956 25	49.87	yes
22W/840	85	4000	A	1800	12000	1	1CT / 10	10	22TL5C840	642219 25	49.87	yes
40W/830	85	3000	A	3300	12000	2	1CT / 10	10	40TL5C830	640970 25	49.87	yes
40W/840	85	4000	A	3300	12000	2	1CT / 10	10	40TL5C840	642233 25	49.87	yes
55W/830	85	3000	B	4200	12000	2	1CT / 10	10	55TL5C830	642790 25	59.84	yes
55W/840	85	4000	B	4200	12000	2	1CT / 10	10	55TL5C840	642516 25	59.84	yes
60W/830	85	3000	B	5000	12000	3	1CT / 10	10	60TL5C830	642592 25	64.03	yes
60W/840	85	4000	B	5000	12000	3	1CT / 10	10	60TL5C840	642615 25	64.03	yes

TL TL-X XL



Product Description

- Single-pin low-pressure mercury discharge lamps with a tubular 38 mm envelope

Product Features

- 40W and 65W lamps with internal ignition strip for instant start, non-preheat, starterless operation

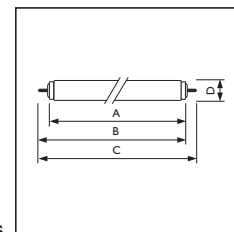
Product Benefits

- In combination with a special lampholder all possible sparking effects during ignition are eliminated

- Extended lifetime compared with standard TL lamps

Application

- Used in flameproof and increased-safety luminaires for both indoor and outdoor applications
- Used in applications like petro-chemical industry, offshore, mines and any locations where traces of explosive gases may be found



Dim. no.	A max.	B min.	C max.	D max.
1	574	589	592.5	611
2	1183.5	1198.5	1202	1220.5
3	1484.1	1499.1	1502.6	1521.1

Luminaires

- Special Fa6 lamp cap has a long thick pin, requires a special lampholder

TL-X - Long Life Fa6

Wattage/Colour Code	Colour Rendering Index	Colour Temperature	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Life to 50% failures EM,3 h	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
	(Ra)	(K)		(lm)	(h)							
20W/33-640	63	4100	B	940	26000	1	1SL / 25	25	TLX2033XL	261359 40	53.47	yes
40W/33-640	63	4100	B	2300	26000	2	1SL / 25	25	TLX4033XL	261373 40	59.42	yes
65W/33-640	63	4100	B	4400	26000	3	1SL / 25	25	TLX6533XL	261397 40	93.08	yes

TL Miniature MASTER TL Mini Super 80



Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- 16 mm diameter tubes with highly efficient 3-band fluorescent coating

Product Benefits

- Good colour rendering
- High efficacy, both initially and during lamp lifetime, with high lumen maintenance compared with standard lamps
- Small lamp dimensions enables system miniaturisation

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable lightsource. 100% lead free

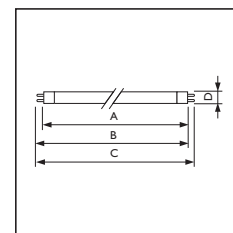
- This product range is RoHS compliant per 1-1-2006
- This product range is covered by WEEE

Application

- Ideal for applications where space is limited but requiring better colour rendering and efficacy than standard colours:
 - hall and staircase lighting in apartment buildings
 - built into furniture, mirror and cupboard lighting
 - emergency lighting

System

- Possibility for operation on low-voltage DC supply

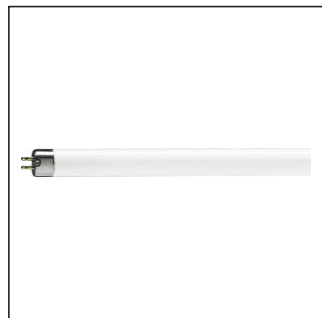


Dim. no.	A max.	B min.	C max.	D max.
1	288.3	293.0	295.4	302.5
2	516.9	521.6	524.0	531.1

MASTER TL Mini Super 80 G5

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% fail Preheat EL, 3h (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
8W/840	85	4000	B	470	10000	1	1FM / 10X25CC	250	884	716422 27	21.03	yes
13W/840	85	4000	A	1000	8000	2	1FM / 10X25CC	250	1384	716859 27	22.45	yes

TL Mini Standard Colours



Product Description

- Low-pressure mercury discharge lamps with a tubular 16 mm envelope

Product Features

- 16 mm diameter tubes with moderate colour rendering

Product Benefits

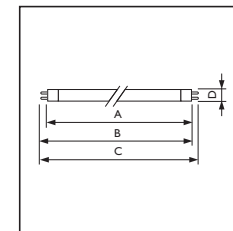
- Creates atmospheres from warm white to cool daylight

Application

- Ideal for applications where space is limited and colour rendering is not important
- Orientation lighting
- Emergency lighting

System

- Possibility for operation on low-voltage DC supply

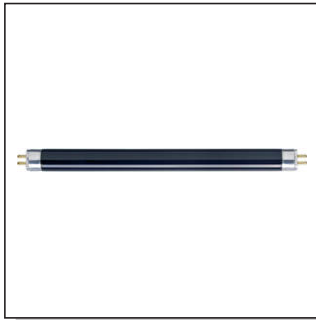


Dim. no.	A max.	B min.	C max.	D max.
1	135.9	140.6	143.0	150.1
2	212.1	216.8	219.2	226.3
3	288.3	293.0	295.4	302.5
4	516.9	521.6	524.0	531.1

TL Mini G5

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% fail Preheat EL, 3h (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
4W/33-640	60	4100	B	140	10000	1	1FM / 10X25CC	250	433	615688 27	12.69	yes
6W/33-640	60	4100	B	260	10000	2	1FM / 10X25CC	250	633	715838 27	12.69	yes
6W/35-535	55	3500	B	265	10000	2	1FM / 10X25CC	250	635	715937 27	12.69	yes
8W/29-530	50	2900	B	410	10000	3	1FM / 10X25CC	250		716071 27		
8W/33-640	60	4100	B	410	10000	3	1FM / 10X25CC	250	833	704733 27	12.69	yes
13W/33-640	60	4100	A	930	8000	4	1FM / 10X25CC	250	1333	704757 27	17.06	yes
13W/35-535	55	3500	B	855	8000	4	1FM / 10X25CC	250	1335	716675 27	17.06	yes

TL Mini Blacklight Blue



Product Description

- Low-pressure mercury vapour fluorescent lamps with an inner envelope coated with a fluorescent powder emitting long wave UV radiation to excite luminescence

Product Features

- Blacklight blue lamps have a straight outer envelope

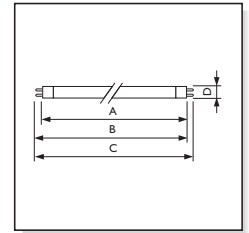
Application

- Detection and analysis in the textile and chemical industries
- Archaeology

- Banking
- Forensic science
- Medicine
- Mineralogy
- Philately
- Special effects in night clubs, discos and theatres
- Sign lighting

System

- The lamps operate on AC mains supply via a ballast and a starter



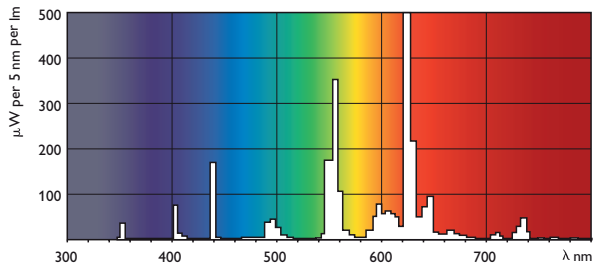
Dim.	A		B		C	D
no.	max.	min.	max.	max.	max.	max.
1	135.9	140.6	143	150.1	16	
2	212.1	216.8	219.2	226.3	16	

TL G5

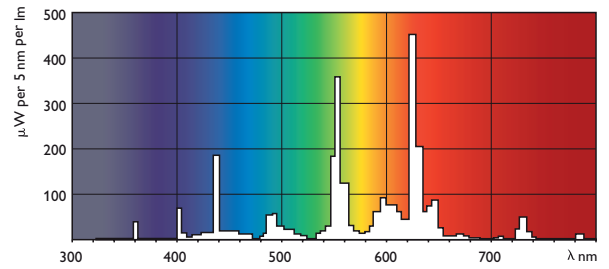
Wattage/Colour Code	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
4W/08	1	FAM / 10X25BOX	250		704399 27		Yes
4W/108	1	FAM / 10X25BOX	250	408	951014 27	17.59	yes
6W/108	2	FAM / 10X25BOX	250	608	950987 27	18.49	yes

Spectral Distribution

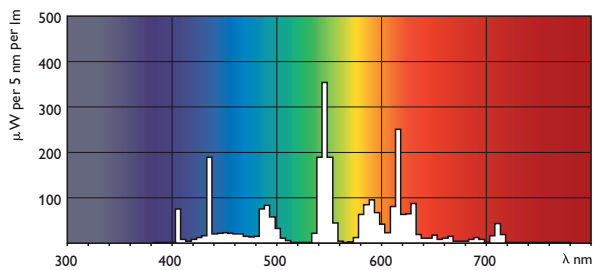
Lightcolour /827



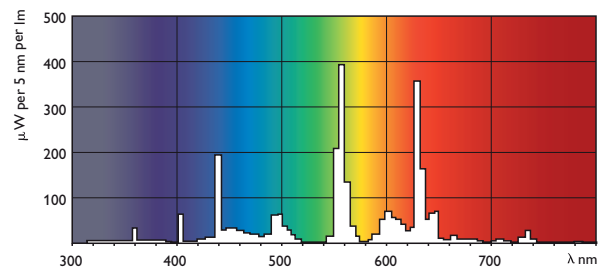
Lightcolour /830



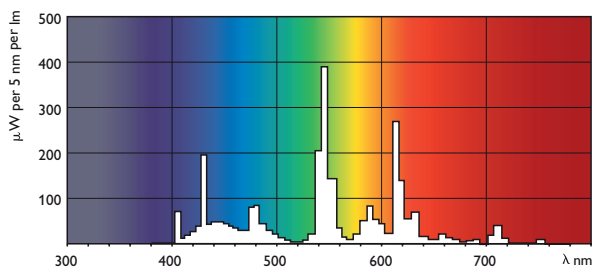
Lightcolour /835



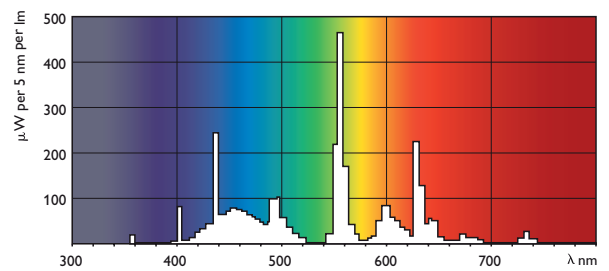
Lightcolour /840



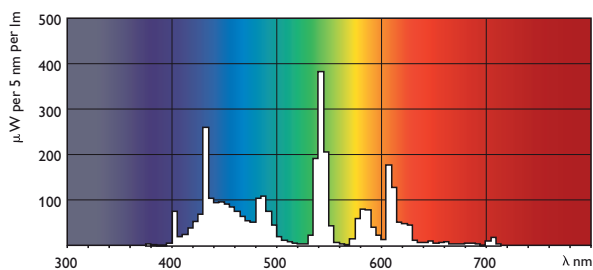
Lightcolour /850



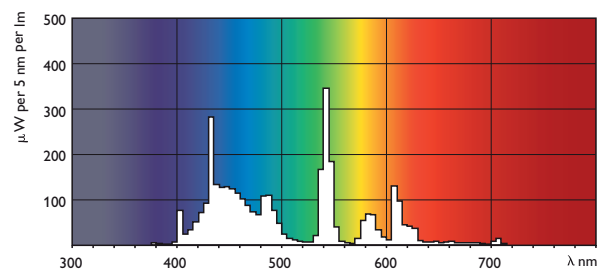
Lightcolour /865



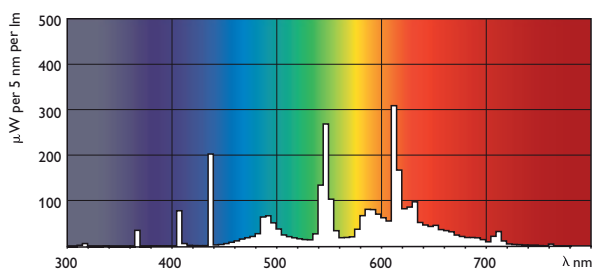
ActiViva Natural (8000K)



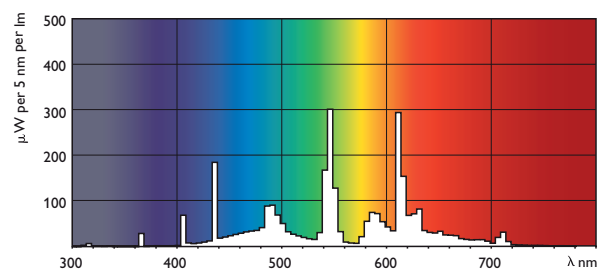
ActiViva Active (17000K)



TL-D Lightcolour /930

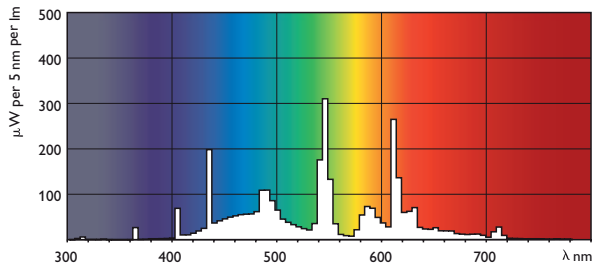


TL-D Lightcolour /940

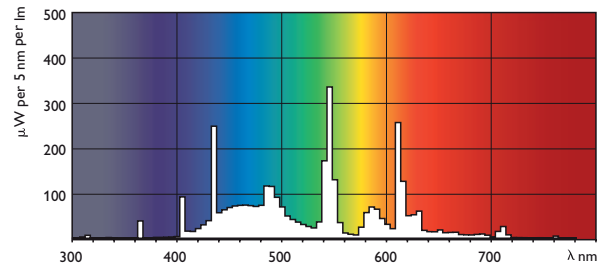


Fluorescent Lamps

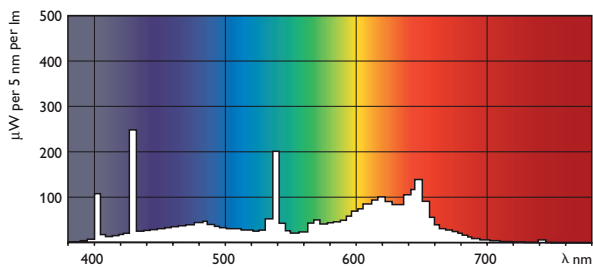
TL-D Lightcolour /950



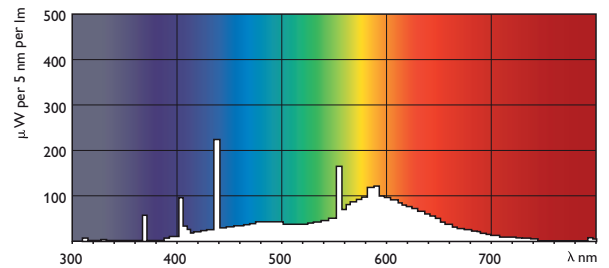
TL-D Lightcolour /965



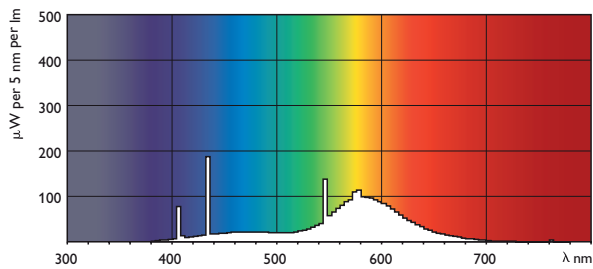
TL-D Lightcolour /79



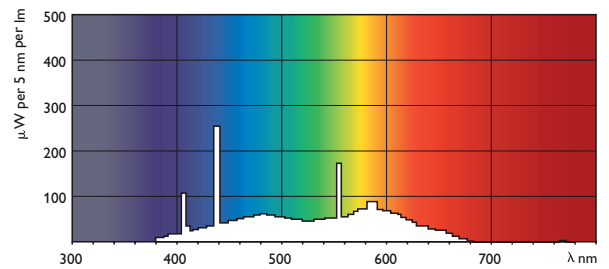
Lightcolour /33-640



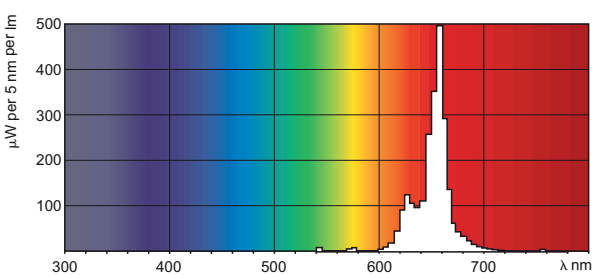
Lightcolour /35-535



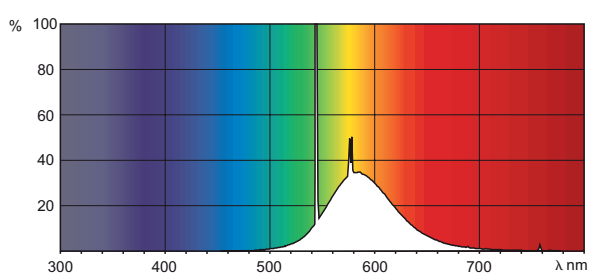
Lightcolour /54-765



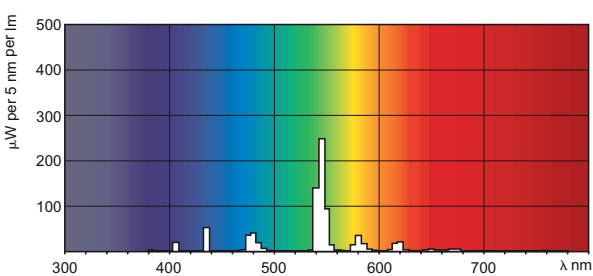
TL-D Lightcolour /15



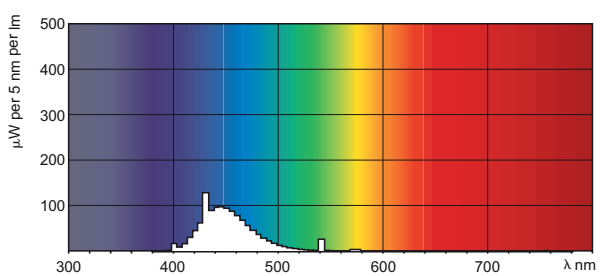
TL-D Lightcolour /16



TL-D Lightcolour /17

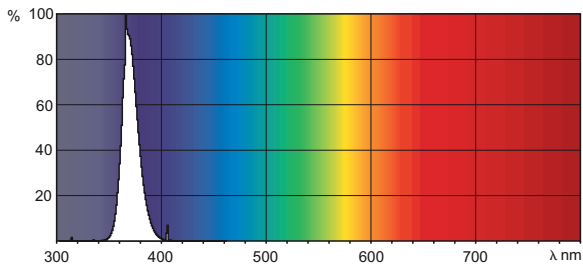


TL-D Lightcolour /18

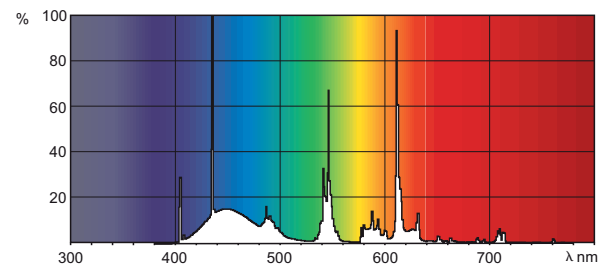


Fluorescent Lamps

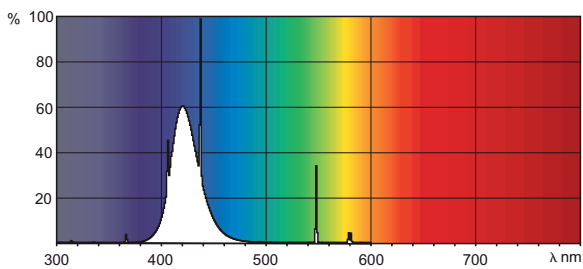
Lightcolour /08



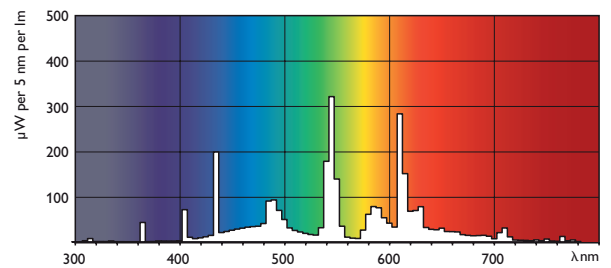
Lightcolour /89



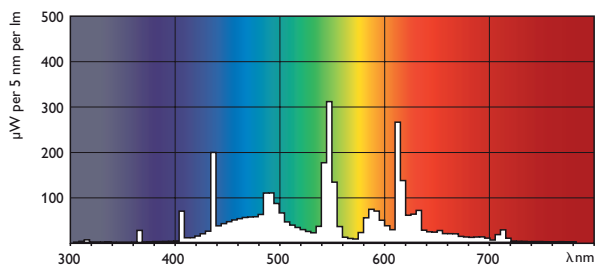
Lightcolour /03



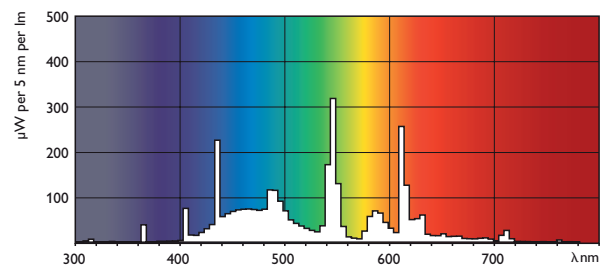
TL5 Lightcolour /940



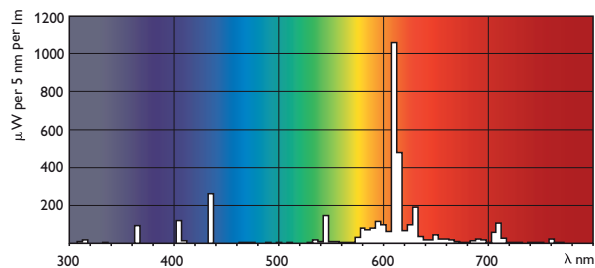
TL5 Lightcolour /950



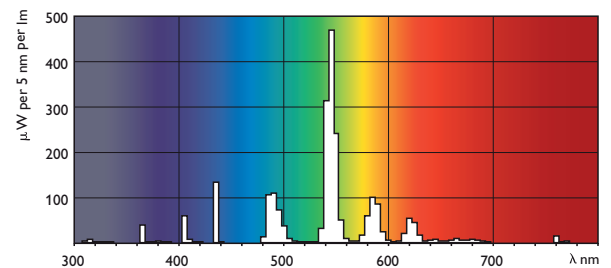
TL5 Lightcolour /965



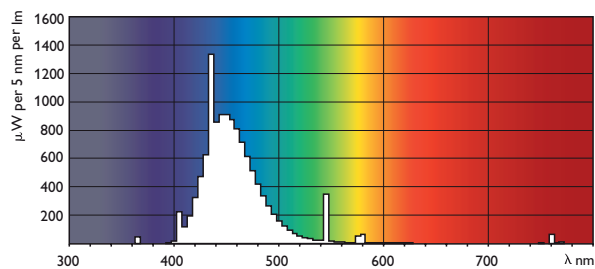
TL5 Lightcolour Red (150)



TL5 Lightcolour Green (170)



TL5 Lightcolour Blue (180)



Compact Fluorescent Integrated

Energy Saver Stick shape MASTER PL-Electronic



Product Description

- Non-covered energy-saving MASTER lamps for professional use

Product Features

- Lightweight, superior long-life alternative to incandescent lamps

- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- European energy efficiency labelling class A for the complete range
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology (Mercury)
- Very low mercury content (≤ 2 mg)

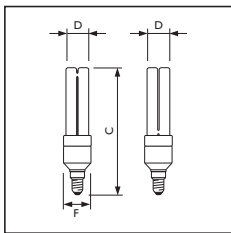
Product Benefits

- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output

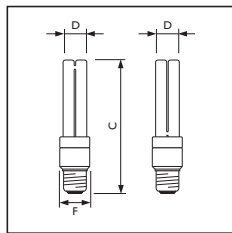
- Smallest dimensions ensuring optimal physical fit
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial light output and better thermal performance
- Green Flagship product as best environmental choice in the CFL portfolio
- Lifetime independent of switching on-off
- Lowest total cost of ownership

Applications:

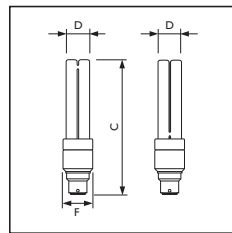
- Designed to replace incandescent lamps in most professional and semi- professional applications
- Mainly indoor (e.g. hotels, restaurants, offices)
- For outdoor applications 3 types (15, 20, 23W) will remain available also in Amalgam with the benefit of virtually constant light output (>90%) over the recommended temperature
- Enclosed fixtures are required for outdoor applications
- Suitable for emergency lighting with DC supply
- Not suitable for dimming and electronic devices



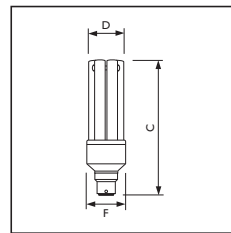
Dim. no.	C max.	D max.	F max.
1	117.2	28.0	40.3
2	122.2	28.0	40.3
3	144.2	28.0	40.3



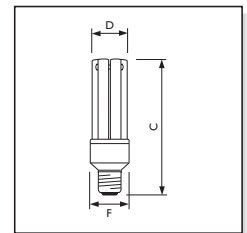
Dim. no.	C max.	D max.	F max.
4	114.2	28.0	40.3
5	119.2	28.0	40.3
6	141.2	28.0	40.3



Dim. no.	C max.	D max.	F max.
7	117.4	28.0	40.3



Dim. no.	C max.	D max.	F max.
8	124.7	39.6	48.0
9	135.7	39.6	48.0
10	150.7	39.6	48.0

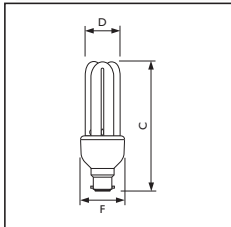


Dim. no.	C max.	D max.	F max.
11	126.2	39.6	48.0
12	137.2	39.6	48.0
13	152.2	39.6	48.0
14	174.2	39.6	48.0
15	196.2	39.6	48.0

MASTER PL-Electronic 230-240V Warm white

Wattage/ Colour Code	Cap-Base	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(K)		(lm)	(h)							
5W/827	SES	2700	A	230	15000	1	1CT / 10BOX	10	5SESPLE	263568 25	34.96	yes
5W/827	ES	2700	A	230	15000	4	1CT / 10BOX	10	5ESPLE	263537 25	34.96	yes
8W/827	BC	2700	A	400	15000	7	1CT / 10BOX	10	8BCPLE	263636 25	34.96	yes
8W/827	SES	2700	A	400	15000	2	1CT / 10BOX	10	8SESPLE	263667 25	34.96	yes
8W/827	ES	2700	A	400	15000	5	1CT / 10BOX	10	8ESPLE	263582 25	34.96	yes
11W/827	SES	2700	A	600	15000	3	1CT / 10BOX	10	11SESPLE	263773 25	34.96	yes
11W/827	ES	2700	A	600	15000	6	1CT / 10BOX	10	11ESPLE	263681 25	34.96	yes
15W/827	BC	2700	A	875	20000	8	1CT / 6	6	15BCPLE	752055 10	34.96	yes
15W/827	ES	2700	A	875	20000	11	1CT / 6	6	15ESPLE	751423 10	34.96	yes
20W/827	BC	2700	A	1200	20000	9	1CT / 6	6	20BCPLE	752062 10	34.96	yes
20W/827	ES	2700	A	1200	20000	12	1CT / 6	6	20ESPLE	751430 10	34.96	yes
23W/827	BC	2700	A	1500	20000	10	1CT / 6	6	23BCPLE	752079 10	34.96	yes
23W/827	ES	2700	A	1500	20000	13	1CT / 6	6	23ESPLE	751447 10	34.96	yes
27W/827	ES	2700	A	1800	20000	14	1CT / 6	6	27ESPLE	543851 10	34.96	yes
33W/827	ES	2700	A	2250	20000	15	1CT / 6	6	33ESPLE	659996 10	34.96	yes

PL-Electronic



Dim. no.	C max.	D max.	F max.
1	117.2	38.7	48.1
2	124.9	38.7	48.1

Product Description

- Non-covered energy saving lamps for professional use

Product Features

- Professional long-life alternative to incandescent lamps
- European energy efficiency labelling class A for the complete range
- Almost constant light output (>80%) over recommended temperature range thanks to amalgam technology

Product Benefits

- High energy efficiency; one-fifth of the energy consumption of an incandescent lamp for the same light output
- Much lower maintenance costs through very long average lifetime
- High reliability over life; important where lighting is used for longer periods and/or where lamp replacement is difficult
- Compact, professional design and excellent light quality thanks to triple burner technology

Applications:

- Replacement of incandescent lamps in most professional and semi-professional applications
- Especially suitable for restaurants, hotels, shops, offices
- Ambient temperature range -10 to +50°C (base-up); +10 to +50°C (base-down)
- Enclosed fixtures required when used outdoors to protect electrical parts against moisture
- Not suitable for dimming and electronic devices

PL-Electronic 230-240V Warm white BC

Wattage/ Colour Code	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(K)		(lm)	(h)							
8W/827	2700	A	420	10000	1	1CT / 15	15	8BCPLEUPRO	662392 20	31.74	yes
16W/827	2700	A	930	10000	2	1CT / 15	15	16BCPLEUPRO	543400 20	31.74	yes

Genie ESaver



Product Description

- Standard Non-covered energy saving lamp

Product Features

- Long-life alternative to incandescent lamps
- Almost instant, flicker-free start (<1 s)
- Light output after 1 minute 85%

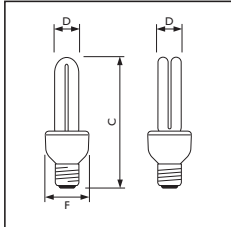
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

Product Benefits

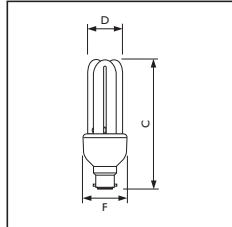
- High energy efficiency (European energy efficiency labelling class A)

Applications:

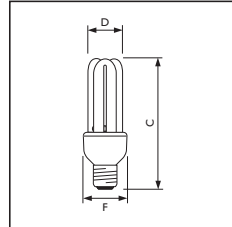
- Designed for incandescent lamp replacement in consumer applications where the lamp is not directly visible
- Especially suitable for (indoor) applications in functional areas
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



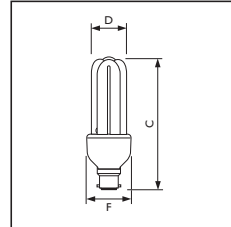
Dim. no.	C max.	D max.	F max.
1	107.0	23.0	37.4



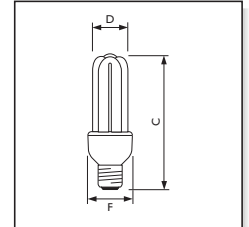
Dim. no.	C max.	D max.	F max.
2	105.5	35.0	44.4
3	115.5	35.0	44.4
4	130.5	35.0	44.4



Dim. no.	C max.	D max.	F max.
5	107.0	35.0	44.4
6	117.0	35.0	44.4



Dim. no.	C max.	D max.	F max.
7	133.5	41.0	48.4

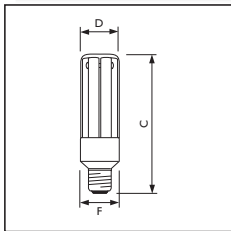


Dim. no.	C max.	D max.	F max.
8	135.0	41.0	48.4

Genie ESaver 220-240V Warm white

Wattage/ Colour Code	Cap- Base	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(K)		(lm)	(h)							
5W/827	ES	2700	A	250	8000	1	1PH / 6	6	5ESGENIE8Y	801173 10	28.00	yes
8W/827	BC	2700	A	420	8000	2	1CT / 40	40	8BCGENIE8Y40W	801401 55	32.34	yes
8W/827	ES	2700	A	420	8000	5	1PH / 6	6	8ESGENIE8Y	801180 10	28.00	yes
11W/827	BC	2700	A	600	8000	3	1CT / 40	40	11BCGENIE8Y40W	801418 55	32.34	yes
11W/827	ES	2700	A	600	8000	6	1CT / 40	40	11ESGENIE8Y40W	801371 55	32.34	yes
11W/827	ES	2700	A	600	8000	6	1PH / 6	6	11ESGENIE8Y	801197 10	28.00	yes
14W/827	BC	2700	A	810	8000	4	1CT / 40	40	14BCGENIE8Y40W	801425 55	32.34	yes
18W/827	BC	2700	A	1100	8000	7	1CT / 40	40	18BCGENIE8Y40W	801432 55	32.34	yes
18W/827	BC	2700	A	1100	8000	7	1PH / 6	6	18BCGENIE8Y	801258 10	28.00	yes
18W/827	ES	2700	A	1100	8000	8	1CT / 40	40	18ESGENIE8Y40W	801395 55	32.34	yes
18W/827	ES	2700	A	1100	8000	8	1PH / 6	6	18ESGENIE8Y	801210 10	28.00	yes

Energy Saver Bulb shape MASTER PL-Electronic Polar



Dim. no.	C max.	D max.	F max.
1	132.0	50.8	48.0
2	143.0	50.8	48.0
3	158.0	50.8	48.0

Product Description

- Covered energy-saving MASTER lamps for professional use in outdoor applications

Product Features

- Long-life alternative to incandescent lamps
- Amalgam technology enabling excellent, virtually constant lumen performance in a wide range of ambient temperatures
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- Very good lumen maintenance throughout the lifetime of the lamp
- Complete range equipped with the unique Philips bridged burner technology

- Very low mercury content (≤ 2 mg)
- European energy efficiency label A for the complete range

Product Benefits

- Very good performance in the lower ambient temperature range (the lamp gives no less than 90% of nominal lumen in temperatures between $-20 \div +40$ °C), rendering the lamp especially suitable for outdoor applications
- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult

- Lifetime independent of switching on-off
- Green Flagship product as best environmental choice in the CFL portfolio
- Lowest total cost of ownership

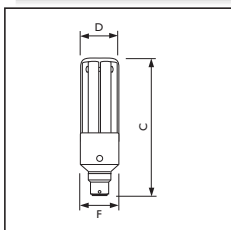
Applications

- Designed to replace incandescent lamps in most professional and semi- professional applications
- Outdoor (e.g. outdoor hotel lighting, parking lots, restaurant/ café gardens, patios, garden/lawn lighting)
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

MASTER PL-Electronic Polar 230-240V Warm white ES

Wattage/ Colour Code	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(K)		(lm)	(h)						(£)	
15W/827	2700	A	875	15000	1	1CT / 6	6	MPLE15ESPOL	660459 10	39.48	yes
20W/827	2700	A	1200	15000	2	1CT / 6	6	MPLE20ESPOL	660039 10	39.48	yes
23W/827	2700	A	1485	15000	3	1CT / 6	6	MPLE23ESPOL	660053 10	39.48	yes

MASTER PL-Electronic Automatic



Dim. no.	C max.	D max.	F max.
1	139.5	50.8	48.0

Product Description

- Non-covered energy-saving MASTER lamp for (semi-) professional use with built-in light sensor, switches on when it is dark, switches off in daylight

Product Features

- Long-life alternative to incandescent lamps, once connected to mains electricity it automatically switches on when it is dark and switches off in daylight
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- European energy efficiency labeling class A
- Very good lumen maintenance throughout the lifetime of the lamp

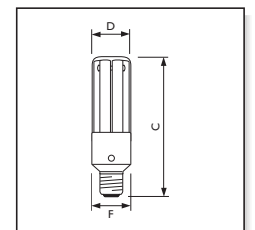
- Virtually constant light output ($>90\%$) over recommended temperature range
- Very low mercury content (≤ 2 mg)

Product Benefits

- Simplicity of use; once installed it switches on/off automatically at certain daylight level
- Highest energy efficiency resulting in one-fifth the energy consumption of an incandescent lamp for the same light output
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult
- Lifetime independent of switching on-off
- Green Flagship product as best environmental choice in the CFL portfolio
- Lowest total cost of ownership

Applications

- Designed to replace incandescent lamps in most professional and semi- professional applications
- Mainly outdoor (e.g. outdoor hotel lighting, parking lots, restaurant/ café gardens, patios, garden/lawn lighting)
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	F max.
2	141.0	50.8	48.0

MASTER PL-Electronic Automatic 230-240V Warm white

Wattage/ Colour Code	Cap- Base	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece	
		(K)		(lm)	(h)						(£)	
15W/827	BC	2700	A	900	15000	1	1CT / 6	6	MPLE15BCAUTO	260618 10		yes
15W/827	ES	2700	A	900	15000	2	1CT / 6	6	MPLE15ESAUTO	260601 10	50.41	yes

Softone ESaver T-shape



Product Description

- Extremely compact covered energy-saving lamp that produces soft white light

Product Features

- Long-life and energy saving alternative to incandescent lamps
- Fast run-up: Light output after 1 minute 80%
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

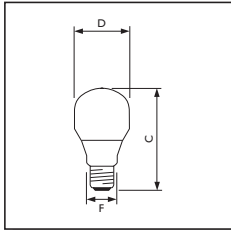
Product Benefits

- Pleasant "Softone" light effect
- Shape and size similar to Softone incandescent bulb
- Up to 80% energy saving compared to standard incandescent lamps (European energy efficiency labeling class A)

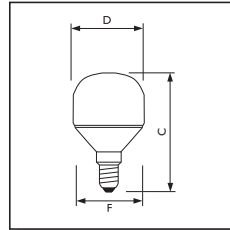
Applications:

- Ideal for use in most consumer and semi-professional applications where you want to create an intimate and cosy atmosphere

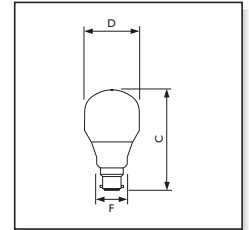
- Ideal replacement for incandescent lamps in places where lights burn for longer periods and where good light effect is important
- Especially suitable for applications where lamp replacement is difficult
- Closed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	F max.
1	114.0	60.8	46.5
2	129.0	65.8	46.5



Dim. no.	C max.	D max.	F max.
3	85.0	45.0	44.1



Dim. no.	C max.	D max.	F max.
4	112.5	60.8	46.5
5	127.5	65.8	46.5

Softone ESaver 230-240V Warm white

Wattage/ Colour Code	Cap- Base	Bulb	Colour Tem- perature	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)	
			(K)		(lm)	(h)							
5W/827	ES	T60	2700	A	200	8000	1	1PH / 6	6	5ESSOFT8Y	8711500 662552 10	32.71	yes
7W/827	SES	T45	2700	A	290	8000	3	1PP / 10	10	8SESLUSTRE	8727900 211863 25	32.71	yes
8W/827	BC	T60	2700	A	380	8000	4	1PH / 6	6	8BCSOFT8Y	8711500 662606 10	32.71	yes
8W/827	ES	T60	2700	A	380	8000	1	1PH / 6	6	8ESSOFT8Y	8711500 662569 10	32.71	yes
12W/827	BC	T60	2700	A	610	8000	4	1PH / 6	6	12BCSOFT8Y	8711500 662613 10	32.71	yes
12W/827	ES	T60	2700	A	610	8000	1	1PH / 6	6	12ESSOFT8Y	8711500 662576 10	32.71	yes
16W/827	BC	T60	2700	A	870	8000	4	1PH / 6	6	16BCSOFT8Y	8711500 662620 10	32.71	yes
16W/827	ES	T60	2700	A	870	8000	1	1PH / 40	40	16ESSOFT8Y40W	8711500 830326 55	32.71	yes
16W/827	ES	T60	2700	A	870	8000	1	1PH / 6	6	16ESSOFT8Y	8711500 662583 10	32.71	yes
20W/827	BC	T65	2700	A	1160	8000	5	1PH / 40	40	20BCSOFT8Y40W	8711500 830357 55	32.71	yes
20W/827	BC	T65	2700	A	1160	8000	5	1PH / 6	6	20BCSOFT8Y	8711500 662637 10	32.71	yes
20W/827	ES	T65	2700	A	1160	8000	2	1PH / 6	6	20ESSOFT8Y	8711500 662590 10	32.71	yes

Softone ESaver Candle



Product Description

- Standard energy-saving lamps in the shape of an incandescent candle lamp

Product Features

- Long average lifetime compared to a standard incandescent lamp
- Almost instant, flicker-free start (<1 s)
- Light output after 1 minute 95%

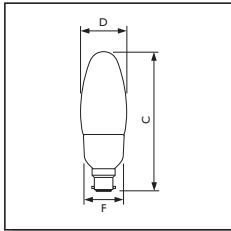
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

Product Benefits

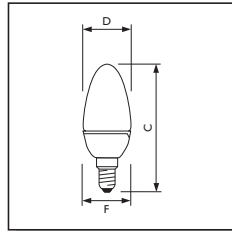
- Light quality and distribution similar to the opalised incandescent lamps
- Gives a soft, diffuse light with a high comfort level

Applications:

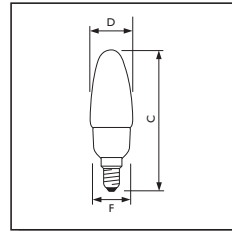
- Designed for replacement of incandescent candle lamps in consumer applications
- Especially for applications where lamps is visible
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



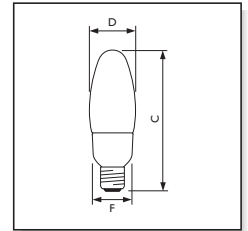
Dim. no.	C max.	D max.	F max.
1	125.2	45.8	44.1
2	119.0	45.0	45.4
3	132.2	46.8	44.1



Dim. no.	C max.	D max.	F max.
4	99.0	38.0	38.4



Dim. no.	C max.	D max.	F max.
5	128.2	45.8	44.1



Dim. no.	C max.	D max.	F max.
6	126.7	45.8	44.1
7	120.0	45.0	45.4

Softone ESaver 230-240V Warm white

Wattage/ Colour Code	Cap- Base	Colour Tempera- ture	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)	
		(K)		(lm)	(h)							
5W/827	BC	2700	A	180	8000	1	1CT / 6	6	6BCCANDLE8Y	8711500 662965 10	32.71	yes
5W/827	SES	2700	A	180	8000	4	1PH / 10	10	5SESCANDLEMINI	8727900 211900 25	32.71	yes
8W/827	SES	2700	A	345	10000		1PF / 10	10		8727900 260854 25		
8W/827	BC	2700	A	345	8000	1	1PP / 6	6	8BCCANDLE8Y	8711500 662972 10	32.71	yes
8W/827	SES	2700	A	345	8000	5	1PP / 6	6	8SESCANDLE8Y	8711500 662866 10	32.71	yes
8W/827	ES	2700	A	345	8000	6	1PP / 6	6	8ESCANDLE8Y	8711500 662941 10	32.71	yes
12W/827	SES	2700	A	610	10000		1PF / 10	10	12SESCANDLEB45	8727900 260946 25		yes
12W/827	ES	2700	A	610	10000	7	1PF / 10	10		8727900 260953 25		
12W/827	BC	2700	A	610	10000	2	1PF / 10	10		8727900 260960 25		
12W/827	BC	2700	A	510	8000	3	1PP / 6	6	12BCCANDLE8Y	8711500 662989 10	32.71	yes

Nightlight ESaver A-shape



Product Description

- Energy-saving lamp combining general lighting mode and night light security/safety mode in a shape similar to normal incandescent lamps

Product Features

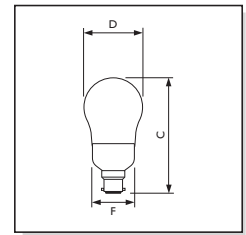
- 2-in-1 night light for energy-saving general lighting comparable to 40W incandescent lamp plus long-lasting LED orientation light
- Switch to main light source by toggling the light switch
- Not suitable for dimming and use with electronic devices

Product Benefits

- Energy-saving general lighting comparable to 40W incandescent lamp
- Night light for safety, comfort and security at very low energy consumption (1W)

Application

- 2-in-1 lighting: energy-saving general lighting plus night light for orientation in hallways, children's bedrooms etc.



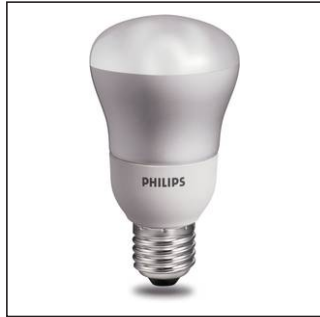
C	D	F
max.	max.	max.
135.4	65.8	48.2

Nightlight ESaver 230-240V Warm white BC

Wattage/Colour Code	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)	
9W/827	2700	A	400	8000	1PH / 6	6	9BCNL1P	543325 10	37.38	yes

Energy Saver Reflectors

Downlighter ESaver



Product Description

- Energy-saving lamps in shapes approximating R50, R60 and R63 incandescent/halogen reflectors

Product Features

- Gives directional light

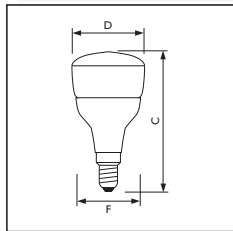
- Longer-life alternative to incandescent lamps (average lifetime up to 6 times longer)
- Not suitable for dimming and electronic devices

Product Benefits

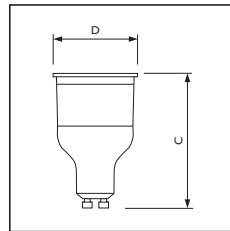
- Saving on energy bills
- Replacements less frequent
- Lower cost of ownership than incandescent / halogen reflectors

Applications:

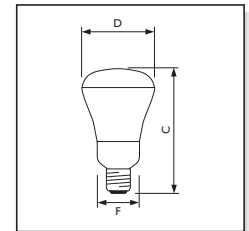
- Primarily indoor, as replacement for incandescent reflectors in downlighters or ES/GU10-based luminaires
- Professional applications – shops, restaurants, cafes
- Consumer applications – desk spotlight lamps, some GU10-based luminaires



Dim. no.	C max.	D max.	F max.
1	97.0	50.8	48.1



Dim. no.	C max.	D max.	F max.
2	82.0	50.0	21.9



Dim. no.	C max.	D max.	F max.
3	116	62	44.4
4	126	65	44.4

Downlighter ESaver Warm white

Wattage/Colour Code	Voltage (V)	Cap-Base	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)	
7W/827	230-240	SES	2700	B	160	10000	1	1CT / 10	10	7SESR50MINI	8727900 212006 25	33.01	yes
7W/827	230-240	GU10	2700	B	160	10000	2	1CT / 10	10	7GU10MINI	8727900 212013 25	33.01	yes
8W/827	220-240	ES	2700	A	280	6000	3	1CT / 6	6	8ESR60REFL1P	8711500 797988 10	34.72	yes
11W/827	220-240	ES	2700	A	385	6000	4	1CT / 6	6	11ESR63REFL1P	8711500 798008 10	34.72	yes

PAR38 Downlighter ESaver



Product Description

- Energy-saving lamp for directional lighting in the shape of a PAR38 incandescent / halogen reflector lamp

Product Features

- Fluorescent, directional light source
- Longer-life alternative to conventional incandescent or halogen lamps
- Average lifetime up to four times longer than a halogen lamp

Product Benefits

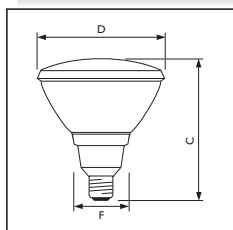
- Lower energy costs due to lower energy consumption

- Increased comfort due to lower heat emission than incandescent or halogen lamps
- Less frequent replacement means lower maintenance costs
- Lower total cost of ownership than PAR38 incandescent / halogen reflector lamps

Application

- Replacement of incandescent or halogen PAR38 reflector lamps in professional applications (hotels, restaurants, shops, museums, exhibitions)

- Interior: accent lighting (corridors, lobbies), window displays, downlighting
- Exterior: decorative outdoor lighting (e.g. gardens, statues), floodlighting, facade lighting
- Not suitable for use under water unless a waterproof luminaire is used
- Not suitable for dimming and for use with electronic devices (photocells, timer switches)



C max.	D max.	F max.
137	122	43.5

PAR38 Downlighter ESaver 220-240V Warm white ES

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux (lm)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)	
20W/827	2700	850	850	8000	1CT / 6	6	20PAR38CFL	216713 10	58.83	yes
23W/827	2700	1250	1250	8000	1CT / 6	6	23PAR38CFL	216720 10	58.83	yes

Compact Fluorescent Non Integrated

Guide to uplamping for Compact Fluorescent Non-integrated

Ever since the company was started in 1891, Philips Lighting has developed and launched many thousands of innovative and important products. With so many products to choose from, this handy and practical 'Guide to better lamps', makes it simpler to make the right choice.

Current product

PL-C



Energy efficient alternative

MASTER PL-R Eco

Energy savings	50%
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For more uplamping possibilities, visit www.philips.com/catalog



asimpleswitch.com

PL-R

MASTER PL-R Eco 4 Pin



Product Description

- Energy-saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of six parallel narrow fluorescent tubes

Product Features

- New innovative compact twist and lock 4-pin lamp base GR14q-1 without starter and capacitor
- Lamp characteristics are influenced by operating conditions and electronic driver used
- Maximum light output reached at approximately 35-40 °C in free-burning base-up position
- Dimming is possible
- Service lifetime of 19000 hours

Product Benefits

- Up to 50% less energy consumption in application versus 18 and 26W PL-C/T on electromagnetic ballasts for comparable lighting levels
- Up to 25% less energy consumption in application versus 18 and 26W PL-C/T on electronic drivers for comparable lighting levels

- Easy lamp (re-)placement and stable fixation due to new twist and lock lampbase / holder
- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement

Environment

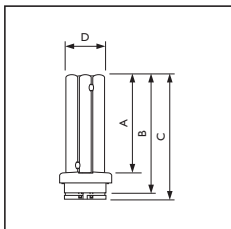
- Most sustainable compact fluorescent solution for comparable lighting solutions
- Up to 50% reduction of CO₂ emissions in application and lower light output depreciation
- Longer service life and lowest mercury content leads to less environmental waste
- Compliant with all RoHS and WEEE requirements: very low content of mercury, lead free and no use of radioactive materials and hazardous flame retardants

Application

- Designed for general down-lighting in (semi-)professional indoor applications: offices, retail, hospitals, governmental and public buildings
- Ideal for use in recessed or surface mounted downlighters, wall units
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

System

- Only for use with electronic driver enabling high independence of mains supply variations
- Indicated savings only possible with optimized electronic driver and optics



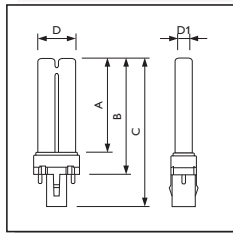
Dim. no.	A max.	B max.	C max.	D max.
1	99.7	120.0	126.6	41.0
2	121.7	142.0	148.6	41.0

MASTER PL-R Eco GR14q-1

Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
(R _a)				(h)							
14W/830	82	A	yes	24000	1	1CT / 5X10CC	50	14PLR830ECO	265951 70	35.54	yes
14W/840	82	A	yes	24000	1	1CT / 5X10CC	50		265982 70		
17W/830	82	A	yes	24000	2	1CT / 5X10CC	50		266019 70		
17W/840	82	A	yes	24000	2	1CT / 5X10CC	50		266040 70		

PL-S

MASTER PL-S 2 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	67	83	105	28	13
2	97	113	135	28	13
3	129	145	167	28	13
4	198	214	235.8	28	13

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 2 parallel narrow fluorescent tubes

Product Features

- 2-pin base with a housing incorporating the special instant starter and capacitor
- Lamp characteristics are influenced by operating conditions and control gear used

- The lamps contain only 3 mg of mercury
- Dimming is not possible

Product Benefits

- Optimal light performance for short or long operation per switch on
- Long life and sustainable light output

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content

- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of hazardous flame retardants

Application

- Designed for use in hotels, restaurants, theatres and homes
- Suitable for use in signs, corridors, security and orientation lighting

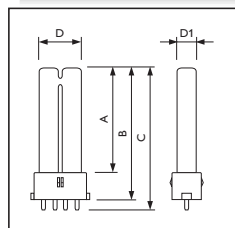
System

- For use on conventional copper iron ballasts
- Radio interference suppression capacitor is installed

MASTER PL-S /2P G23

Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM	Dimmable	Life to 50% failures EM,3 h	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)		(lm)		(h)							
5W/827	82	B	250	no	10000	1	1CT / 5X10CC	50	5PLS8272PINB	260451 70	10.77	yes
7W/827	82	B	400	no	10000	2	1CT / 5X10CC	50	7PLS8272PINB	260574 70	10.77	yes
7W/840	82	B	400	no	10000	2	1CT / 5X10CC	50	7PLS8402PINB	260659 70	10.77	yes
9W/827	82	A	600	no	10000	3	1CT / 5X10CC	50	9PLS8272PINB	260796 70	10.77	yes
9W/830	82	A	600	no	10000	3	1CT / 5X10CC	50	9PLS8302PINB	260840 70	10.77	yes
9W/840	82	A	600	no	10000	3	1CT / 5X10CC	50	9PLS8402PINB	260871 70	10.77	yes
11W/827	82	A	900	no	10000	4	1CT / 5X10CC	50	11PLS8272PINB	261014 70	10.77	yes
11W/840	82	A	900	no	10000	4	1CT / 5X10CC	50	11PLS8402PINB	261090 70	10.77	yes

MASTER PL-S 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	66	83	89.1	28	13
2	96	113	119.1	28	13
3	128	145	151.1	28	13
4	196	214	219.9	28	13

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 2 parallel narrow fluorescent tubes

Product Features

- 4-pin base without starter and capacitor
- Lamp characteristics are influenced by operating conditions and control gear used
- The lamps contain only 3 mg of mercury

Product Benefits

- Optimal light performance for short or long operation per switch on
- Long life and sustainable light output

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content

- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for use in hotels, restaurants, theatres and homes
- Suitable for use in signs, corridors, security and orientation lighting

System

- Suitable for use with electronic gear, enabling dimmable light output, HF operation

MASTER PL-S /4P 2G7

Wattage/ Colour Code	Colour Rend- ering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)		(lm)		(h)							
5W/827	82	B	250	yes	13000	1	1CT / 5X10CC	50	5PLS8274PINB	260512 70	13.42	yes
5W/840	82	B	250	yes	13000	1	1CT / 5X10CC	50	5PLS8404PINB	260543 70	13.42	yes
7W/827	82	B	400	yes	13000	2	1CT / 5X10CC	50	7PLS8274PINB	260703 70	13.42	yes
7W/840	82	B	400	yes	13000	2	1CT / 5X10CC	50	7PLS8404PINB	260765 70	13.42	yes
9W/827	82	A	600	yes	13000	3	1CT / 5X10CC	50	9PLS8274PINB	260901 70	13.42	yes
9W/840	82	A	600	yes	13000	3	1CT / 5X10CC	50	9PLS8404PINB	260963 70	13.42	yes
11W/827	82	A	900	yes	13000	4	1CT / 5X10CC	50	11PLS8274PINB	261144 70	13.42	yes
11W/840	82	A	900	yes	13000	4	1CT / 5X10CC	50	11PLS8404PINB	261229 70	13.42	yes

PL-S Blacklight Blue



Product Description

- Low-pressure mercury vapour fluorescent lamps with an inner envelope coated with a fluorescent powder emitting long wave UV radiation to excite luminescence

Product Features

- PL-S lamps consist of two single-ended fluorescent tubes fused together

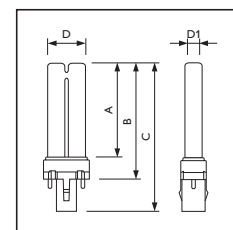
Application

- Detection and analysis in the textile and chemical industries
- Archaeology

- Banking
- Forensic science
- Medicine
- Mineralogy
- Philately
- Special effects in night clubs, discos and theatres
- Sign lighting

System

- PL-S lamp base contains a specially adapted starter providing instant starting characteristics



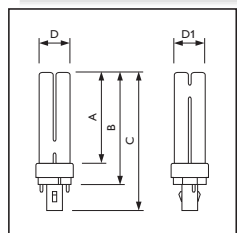
A max.	B max.	C max.	D max.	D1 max.
129	145	167.5	28	13

PL-S 2 Pins G23

Wattage/Colour Code	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
9W/108	1CT / 6X10CC	60	PLS908	950901 80	29.50	yes

PL-C

MASTER PL-C 2 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	75.7	94.0	116.4	27.1	27.1
2	97.7	116.0	138.4	27.1	27.1
3	109.7	128.0	150.4	27.1	27.1
4	130.7	149.0	171.4	27.1	27.1

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 4 parallel narrow fluorescent tubes

Product Features

- 2-pin base with a housing incorporating the special instant starter and capacitor
- Lamp characteristics are influenced by operating conditions and control gear used
- Dimming is not possible

Product Benefits

- Optimal light performance for short or long operation per switch on
- Long life and sustainable light output

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for general or supplementary lighting in professional or home environments
- Recessed or surface-mounted downlighters, wall units, table lamps and pendant lamps

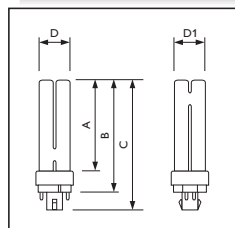
System

- For use on conventional copper iron ballasts
- Radio interference suppression capacitor is installed

MASTER PL-C /2P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index (R _a)	Energy Efficiency Label (EEL)	Lamp Lumi- nous Flux EM (lm)	Dimmable	Life to 50% failures EM,3 h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
10W/827	G24d-1	82	B	600	no	10000	1	1CT / 5X10CC	50	10PLC8272PIN	706812 70	17.95	yes
10W/830	G24d-1	82	B	600	no	10000	1	1CT / 5X10CC	50	10PLC8302PIN	707246 70	17.95	yes
10W/840	G24d-1	82	B	600	no	10000	1	1CT / 5X10CC	50	10PLC8402PIN	704986 70	17.95	yes
13W/827	G24d-1	82	A	900	no	10000	2	1CT / 5X10CC	50	13PLC8272PIN	620811 70	20.55	yes
13W/830	G24d-1	82	A	900	no	10000	2	1CT / 5X10CC	50	13PLC8302PIN	620842 70	20.55	yes
13W/840	G24d-1	82	A	900	no	10000	2	1CT / 5X10CC	50	13PLC8402PIN	620866 70	20.55	yes
18W/840	G24d-2	82	B	1200	no	10000	3	1CT / 5X10CC	50	18PLC8402PIN	620934 70	22.22	yes
18W/827	G24d-2	82	B	1200	no	10000	3	1CT / 5X10CC	50	18PLC8272PIN	620880 70	22.22	yes
18W/830	G24d-2	82	B	1200	no	10000	3	1CT / 5X10CC	50	18PLC8302PIN	620910 70	22.22	yes
18W/835	G24d-2	82	B	1200	no	10000	3	1CT / 5X10CC	50	18PLC8352PIN	866462 70	22.22	yes
26W/827	G24d-3	82	B	1800	no	10000	4	1CT / 5X10CC	50	26PLC8272PIN	620958 70	24.21	yes
26W/830	G24d-3	82	B	1800	no	10000	4	1CT / 5X10CC	50	26PLC8302PIN	620989 70	24.21	yes
26W/835	G24d-3	82	B	1800	no	10000	4	1CT / 5X10CC	50	26PLC8352PIN	866509 70	24.21	yes
26W/840	G24d-3	82	B	1800	no	10000	4	1CT / 5X10CC	50	26PLC8402PIN	621009 70	24.21	yes
26W/865	G24d-3	80	B	1800	no	10000	4	1CT / 5X10CC	50	26PLC8652PIN	635310 70	24.21	yes

MASTER PL-C 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	75.7	94.0	108.9	27.1	27.1
2	97.7	116.0	130.9	27.1	27.1
3	109.7	128.0	142.9	27.1	27.1
4	130.7	149.0	163.9	27.1	27.1

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 4 parallel narrow fluorescent tubes

Product Features

- 4-pin base without starter and capacitor
- Lamp characteristics are influenced by operating conditions and control gear used
- Dimming is possible

Product Benefits

- Optimal light performance for short or long operation per switch on
- Long life and sustainable light output

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for general or supplementary lighting in professional or home environments
- Recessed or surface-mounted downlighters, wall units, table lamps and pendant lamps

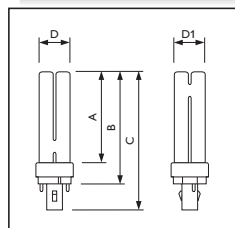
System

- Suitable for use with electronic gear, enabling controllable light output, HF operation and independence from the supply system

MASTER PL-C /4P

Wattage/ Colour Code	Cap- Base	Colour Rende- ring Index (R _a)	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
10W/827	G24q-1	82	B	600	yes	13000	1	1CT / 5X10CC	50	10PLC8274PIN	623256 70	21.40	yes
10W/830	G24q-1	82	B	600	yes	13000	1	1CT / 5X10CC	50	10PLC8304PIN	623294 70	21.40	yes
10W/840	G24q-1	82	B	600	yes	13000	1	1CT / 5X10CC	50	10PLC8404PIN	623300 70	21.40	yes
13W/827	G24q-1	82	A	900	yes	13000	2	1CT / 5X10CC	50	13PLC8274PIN	623263 70	22.33	yes
13W/830	G24q-1	82	A	900	yes	13000	2	1CT / 5X10CC	50	13PLC8304PIN	623317 70	22.33	yes
13W/840	G24q-1	82	A	900	yes	13000	2	1CT / 5X10CC	50	13PLC8404PIN	623324 70	22.33	yes
18W/827	G24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLC8274PIN	623270 70	24.45	yes
18W/830	G24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLC8304PIN	623331 70	24.45	yes
18W/840	G24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLC8404PIN	623348 70	24.45	yes
26W/827	G24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLC8274PIN	623287 70	26.49	yes
26W/830	G24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLC8304PIN	623355 70	26.49	yes
26W/835	G24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLC8354PIN	866530 70	26.49	yes
26W/840	G24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLC8404PIN	623362 70	26.49	yes

MASTER PL-C Xtra 2 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	109.7	128.0	150.4	27.1	27.1
2	130.7	149.0	171.4	27.1	27.1

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 4 parallel narrow fluorescent tubes

Product Features

- 2-pin base with a housing incorporating the special instant starter and capacitor
- Significant reduction of early failures
- Extra long and reliable lifetime

Product Benefits

- Extra long life

- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Optimal light performance for long operation per switch on

Environment

- Good environmental choice because of long reliable life, high-energy efficiency and lowest mercury content
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for general or supplementary lighting in professional environments
- Recessed or surface-mounted downlighters, wall units, table lamps and pendant lamps
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

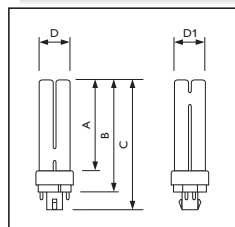
System

- For use on conventional copper iron ballasts
- Radio interference suppression capacitor is installed
- Dimming is not possible

MASTER PL-C Xtra /2P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimmable	Life to 50% failures EM,3 h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)				(h)							
18W/830	G24d-2	82	B	1200	no	16000	1	1CT / 5X10CC	50	18PLC8302PXTRA	898951 70	48.65	yes
18W/840	G24d-2	82	B	1200	no	16000	1	1CT / 5X10CC	50	18PLC8402PXTRA	950307 70	48.65	yes
26W/830	G24d-3	82	B	1800	no	16000	2	1CT / 5X10CC	50	26PLC8302PXTRA	898838 70	52.93	yes
26W/840	G24d-3	82	B	1800	no	16000	2	1CT / 5X10CC	50	26PLC8402PXTRA	898869 70	52.93	yes

MASTER PL-C Xtra 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	109.7	128.0	142.9	27.1	27.1
2	130.7	149.0	163.9	27.1	27.1

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 4 parallel narrow fluorescent tubes

Product Features

- 4-pin base without starter and capacitor
- Significant reduction of early failures
- Extra long and reliable lifetime

Product Benefits

- Extra long life

- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Optimal light performance for long operation per switch on

Environment

- Good environmental choice because of long reliable life, high-energy efficiency and lowest mercury content
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for general or supplementary lighting in professional environments

- Recessed or surface-mounted downlighters, wall units, table lamps and pendant lamps
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

System

- Lamp characteristics are influenced by operating conditions and control gear used
- Suitable for use with HF electronic gear enabling independence of mains supply variations
- Optimized performance for electronic gear with preheat function

MASTER PL-C Xtra /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)				(h)							
18W/830	G24q-2	82	B	1200	yes	33000	1	1CT / 5X10CC	50	18PLC8304PXTRA	950338 70	48.65	yes
18W/840	G24q-2	82	B	1200	yes	33000	1	1CT / 5X10CC	50	18PLC8404PXTRA	950369 70	48.65	yes

More data see next page

Compact Fluorescent Non Integrated

MASTER PL-C Xtra /4P (continued)

Wattage/ Colour Code	Cap- Base	Colour Rende- ring Index (R _a)	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
26W/830	G24q-3	82	B	1800	yes	33000	2	1CT / 5X10CC	50	26PLC8304PXTRA	898890 70	52.93	yes
26W/840	G24q-3	82	B	1800	yes	33000	2	1CT / 5X10CC	50	26PLC8404PXTRA	898920 70	52.93	yes

PL-T MASTER PL-T 2 Pin



Product Description

- Energy saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 6 parallel narrow fluorescent tubes

Product Features

- 2-pin base with a housing incorporating the lamp glow switch starter
- Fast light run up
- Philips invented bridge technology applied
- Dimming is not possible

Product Benefits

- Optimal light performance for short or long operation per switch on

- Substantial more light (about 15% more) per light point than common
- Long life and sustainable light output

Environment

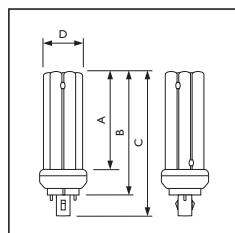
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

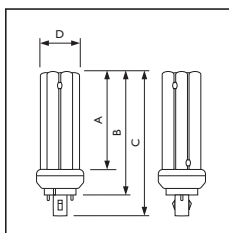
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units

System

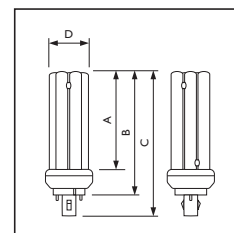
- For use with conventional electromagnetic ballast
- Radio interference suppression capacitor installed



Dim. no.	A max.	B max.	C max.	D max.
1	66.7	91.0	114.2	41



Dim. no.	A max.	B max.	C max.	D max.
2	71.8	96.0	119.2	41



Dim. no.	A max.	B max.	C max.	D max.
3	86.7	111.0	134.2	41

MASTER PL-T /2P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index (R _a)	Energy Effi- ciency Label (EEL)	Lamp Lumi- nous Flux EM (lm)	Dimmable	Life to 50% fail- ures EM,3 h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
13W/827	GX24d-1	82	A	900	no	10000	1	1CT / 5X10CC	50	13PLT8272PINCS	559265 70	27.67	yes
13W/830	GX24d-1	82	A	900	no	10000	1	1CT / 5X10CC	50	13PLT8302PINCS	272119 70	27.67	yes
13W/840	GX24d-1	82	A	900	no	10000	1	1CT / 5X10CC	50	13PLT8402PINCS	559739 70	27.67	yes
18W/827	GX24d-2	82	B	1200	no	10000	2	1CT / 5X10CC	50	18PLT8272PINCS	559791 70	27.67	yes
18W/830	GX24d-2	82	B	1200	no	10000	2	1CT / 5X10CC	50	18PLT8302PINCS	610508 70	27.67	yes
18W/840	GX24d-2	82	B	1200	no	10000	2	1CT / 5X10CC	50	18PLT8402PINCS	610614 70	27.67	yes
26W/827	GX24d-3	82	B	1800	no	10000	3	1CT / 5X10CC	50	26PLT8272PINCS	559883 70	30.20	yes
26W/830	GX24d-3	82	B	1800	no	10000	3	1CT / 5X10CC	50	26PLT8302PINCS	611024 70	30.20	yes
26W/840	GX24d-3	82	B	1800	no	10000	3	1CT / 5X10CC	50	26PLT8402PINCS	611130 70	30.20	yes

MASTER PL-T 4 Pin



Product Description

- Energy saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 6 parallel narrow fluorescent tubes

Product Features

- 4-pin base without glow switch starter and capacitor
- Fast light run up under all circumstances
- Philips invented bridge technology applied
- Dimming is possible

Product Benefits

- Optimal light performance for short or long operation per switch on

- More light (about 15% more) per light point than common
- Long life and sustainable light output

Environment

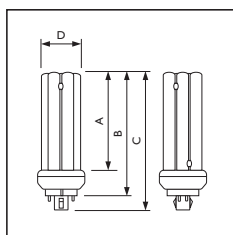
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

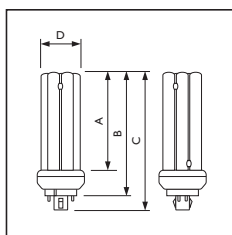
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units, outdoor lighting
- First choice for short switching cycles, emergency lighting and deep dimming

System

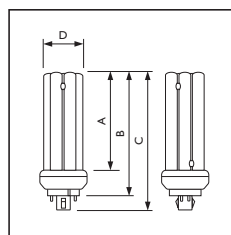
- For use with HF electronic gear enabling controllable light output and high independence of mains supply variations



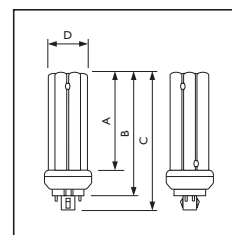
Dim. no.	A max.	B max.	C max.	D max.
1	66.7	91.0	106.7	41.0
2	157.7	182.0	197.7	41.0



Dim. no.	A max.	B max.	C max.	D max.
3	71.7	96.0	111.7	41.0



Dim. no.	A max.	B max.	C max.	D max.
4	86.7	111.0	126.7	41.0
5	98.7	123.0	138.7	41.0



Dim. no.	A max.	B max.	C max.	D max.
6	120.7	145.0	160.7	41.0

MASTER PL-T /4P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index (R _a)	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
13W/827	GX24q-1	82	A	900	yes	13000	1	1CT / 5X10CC	50	13PLT8274PINCS	559760 70	30.50	yes
13W/830	GX24q-1	82	A	900	yes	13000	1	1CT / 5X10CC	50	13PLT8304PINCS	610447 70	30.50	yes
13W/840	GX24q-1	82	A	900	yes	13000	1	1CT / 5X10CC	50	13PLT8404PINCS	610478 70	30.50	yes
18W/827	GX24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLT8274PINCS	559821 70	32.03	yes
18W/830	GX24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLT8304PINCS	610768 70	32.03	yes
18W/840	GX24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLT8404PINCS	610997 70	32.03	yes
26W/827	GX24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLT8274PINCS	559937 70	34.69	yes
26W/830	GX24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLT8304PINCS	611208 70	34.69	yes
26W/840	GX24q-3	82	B	1800	yes	13000	4	1CT / 5X10CC	50	26PLT8404PINCS	611253 70	34.69	yes
32W/827	GX24q-3	82	B	2400	yes	13000	5	1CT / 5X10CC	50	32PLT8274PINCS	559968 70	37.87	yes
32W/830	GX24q-3	82	B	2400	yes	13000	5	1CT / 5X10CC	50	32PLT8304PINCS	611284 70	37.87	yes
32W/840	GX24q-3	82	B	2400	yes	13000	5	1CT / 5X10CC	50	32PLT8404PINCS	611314 70	37.87	yes
42W/827	GX24q-4	82	B	3200	yes	13000	6	1CT / 5X10CC	50	42PLT8274PINCS	560025 70	41.06	yes
42W/830	GX24q-4	82	B	3200	yes	13000	6	1CT / 5X10CC	50	42PLT8304PINCS	611345 70	41.06	yes
42W/840	GX24q-4	82	B	3200	yes	13000	6	1CT / 5X10CC	50	42PLT8404PINCS	611376 70	41.06	yes
57W/827	GX24q-5	82	B	4300	yes	13000	2	1CT / 5X10CC	50	57PLT8274PINCS	560056 70	49.24	yes
57W/830	GX24q-5	82	B	4300	yes	13000	2	1CT / 5X10CC	50	57PLT8304PINCS	611406 70	49.24	yes
57W/840	GX24q-5	82	B	4300	yes	13000	2	1CT / 5X10CC	50	57PLT8404PINCS	611451 70	49.24	yes

MASTER PL-T TOP 4 Pin



Product Description

- Energy saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp

- Envelope consists of 6 parallel narrow fluorescent tubes
- Amalgam controlled operation

Product Features

- 4-pin base without glow switch starter and capacitor
- Hot restrike - moderate light run up after cooling down at low temperatures
- Optimized lighting performance over a broad temperature range due to Philips amalgam technology
- Dimming is possible

Product Benefits

- Optimal lighting performance for long periods of continuous operation

- Substantially higher light output (+30%) per light point than conventional solutions
- High temperature independency at higher application temperatures
- Long life and sustainable light output

Environment

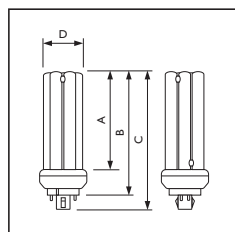
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

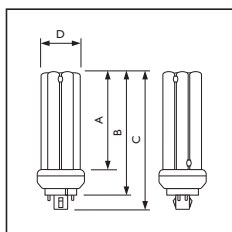
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units
- First choice for long switching cycles and highest light output

System

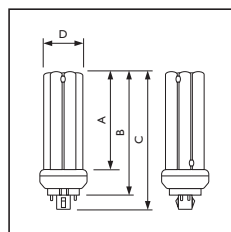
- For use with HF electronic gear enabling controllable light output and high independence of mains supply variations



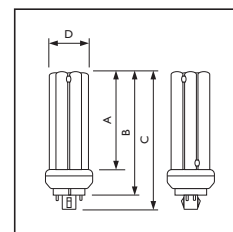
Dim. no.	A	B	C	D
	max.	max.	max.	max.
1	71.7	96.0	111.7	41



Dim. no.	A	B	C	D
	max.	max.	max.	max.
2	86.7	111.0	126.7	41
3	98.7	123.0	138.7	41



Dim. no.	A	B	C	D
	max.	max.	max.	max.
4	120.7	145.0	160.7	41



Dim. no.	A	B	C	D
	max.	max.	max.	max.
5	157.7	182.0	197.7	41

MASTER PL-T TOP /4P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)		(lm)		(h)							
18W/830	GX24q-2	82	B	1200	yes	13000	1	1CT / 5X10CC	50	18PLT8304PINTOP	889089 70	35.24	yes
18W/840	GX24q-2	82	B	1200	yes	13000	1	1CT / 5X10CC	50	18PLT8404PINTOP	889416 70	35.24	yes
26W/830	GX24q-3	82	B	1800	yes	13000	2	1CT / 5X10CC	50	26PLT8304PINTOP	889447 70	38.15	yes
26W/840	GX24q-3	82	B	1800	yes	13000	2	1CT / 5X10CC	50	26PLT8404PINTOP	889478 70	38.15	yes
32W/827	GX24q-3	82	B	2400	yes	13000	3	1CT / 5X10CC	50	32PLT8274PINTOP	611581 70	41.64	yes
32W/830	GX24q-3	82	B	2400	yes	13000	3	1CT / 5X10CC	50	32PLT8304PINTOP	560230 70	41.64	yes
32W/840	GX24q-3	82	B	2400	yes	13000	3	1CT / 5X10CC	50	32PLT8404PINTOP	560261 70	41.64	yes
42W/827	GX24q-4	82	B	3200	yes	13000	4	1CT / 5X10CC	50	42PLT8274PINTOP	272089 70	45.08	yes
42W/830	GX24q-4	82	B	3200	yes	13000	4	1CT / 5X10CC	50	42PLT8304PINTOP	610041 70	45.08	yes
42W/840	GX24q-4	82	B	3200	yes	13000	4	1CT / 5X10CC	50	42PLT8404PINTOP	610089 70	45.08	yes
57W/827	GX24q-5	82	B	4300	yes	13000	5	1CT / 5X10CC	50	57PLT8274PINTOP	560186 70	54.10	yes
57W/830	GX24q-5	82	B	4300	yes	13000	5	1CT / 5X10CC	50	57PLT8304PINTOP	610225 70	54.10	yes
57W/840	GX24q-5	82	B	4300	yes	13000	5	1CT / 5X10CC	50	57PLT8404PINTOP	610348 70	54.10	yes

MASTER PL-T Xtra 4 Pin



Product Description

- Energy saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 6 parallel narrow fluorescent tubes

Product Features

- 4-pin base without glow switch starter and capacitor
- Fast light run up under all circumstances
- Philips invented bridge technology applied
- Significant reduction of early failures
- Extra long and reliable lifetime

Product Benefits

- Extra long life
- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement

- Optimal light performance for long operation per switch on
- More light (about 15% more) per light point than common

Environment

- Good environmental choice because of long reliable life, high-energy efficiency and lowest mercury content
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

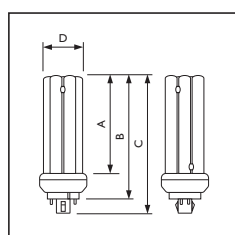
Application

- Designed for general or supplementary lighting in professional and semi-professional environments

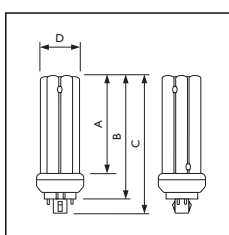
- Ideal for use in recessed or surface mounted downlighters, wall units, outdoor lighting
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

System

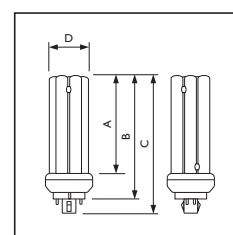
- For use with HF electronic gear enabling high independence of mains supply variations
- Optimized performance for electronic gear with preheat function



Dim. no.	A max.	B max.	C max.	D max.
1	98.7	123.0	138.7	41.0



Dim. no.	A max.	B max.	C max.	D max.
2	120.7	145.0	160.7	41.0



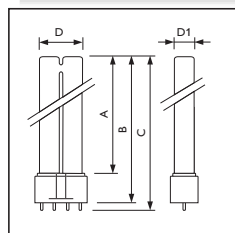
Dim. no.	A max.	B max.	C max.	D max.
3	157.7	182.0	197.7	41.0

MASTER PL-T Xtra /4P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index	Energy Effi- ciency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
		(Ra)		(lm)		(h)							
32W/830	GX24q-3	82	B	2400	yes	33000	1	1CT / 5X10CC	50	32PLT8304PXTRA	897404 70	82.85	yes
32W/840	GX24q-3	82	B	2400	yes	33000	1	1CT / 5X10CC	50	32PLT8404PXTRA	897435 70	82.85	yes
42W/830	GX24q-4	82	B	3200	yes	33000	2	1CT / 5X10CC	50	42PLT8304PXTRA	897466 70	89.84	yes
42W/840	GX24q-4	82	B	3200	yes	33000	2	1CT / 5X10CC	50	42PLT8404PXTRA	897497 70	89.84	yes
57W/830	GX24q-5	82	B	4300	yes	33000	3	1CT / 5X10CC	50	57PLT8304PXTRA	897527 70	107.70	yes
57W/840	GX24q-5	82	B	4300	yes	33000	3	1CT / 5X10CC	50	57PLT8404PXTRA	897558 70	107.70	yes

PL-L

MASTER PL-L 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	194.2	220	226.6	37.7	18
2	289.2	315	321.6	37.7	18
3	384.2	410	416.6	37.7	18
4	509.2	535	541.6	37.7	18
5	539.2	565	571.6	37.7	18

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 2 parallel fluorescent tubes

Product Features

- 4-pin base without starter and capacitor
- Lamp characteristics are influenced by operating conditions and control gear used
- Lamp performance is governed by temperature of the coolest spot
- Dimming is possible

Product Benefits

- Optimal light performance for short or long operation per switch on
- Long life and sustainable light output

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for general lighting in shops, offices, hotels and specific task lighting, as well as outdoors in residential areas and parks

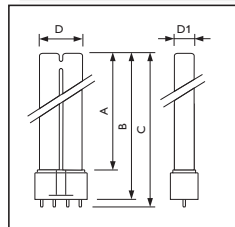
System

- Separate radio-suppression capacitor required
- Universal application in conventional high-voltage switch-start circuits, low-voltage sequence-start circuits and advanced electronic circuits

MASTER PL-L /4P 2G11

Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)		(lm)		(h)							
18W/830	82	B	1200	yes	20000	1	1CT / 25	25	18PLL830	706683 40	22.18	yes
18W/835	82	B	1200	yes	20000	1	1CT / 25	25	18PLL835	643285 40	22.18	yes
18W/840	82	B	1200	yes	20000	1	1CT / 25	25	18PLL840	706690 40	22.18	yes
18W/865	80	B	1200	yes	20000	1	1CT / 25	25	18PLL865	635143 40	22.18	yes
24W/830	82	B	1800	yes	20000	2	1CT / 25	25	24PLL830	706713 40	22.56	yes
24W/835	82	B	1800	yes	20000	2	1CT / 25	25	24PLL835	643308 40	22.56	yes
24W/840	82	B	1800	yes	20000	2	1CT / 25	25	24PLL840	706720 40	22.56	yes
24W/865	80	B	1800	yes	20000	2	1CT / 25	25	24PLL865	635174 40	22.56	yes
36W/830	82	A	2900	yes	20000	3	1CT / 25	25	36PLL830	706744 40	24.17	yes
36W/840	82	A	2900	yes	20000	3	1CT / 25	25	36PLL840	706751 40	24.17	yes
36W/865	80	A	2900	yes	20000	3	1CT / 25	25	36PLL865	635204 40	24.17	yes
40W/830	82	A	3500	yes	20000	4	1CT / 25	25	40PLL830	610942 40	26.28	yes
40W/835	82	A	3500	yes	20000	4	1CT / 25	25	40PLL835	638656 40	26.28	yes
40W/840	82	A	3500	yes	20000	4	1CT / 25	25	40PLL840	610973 40	26.28	yes
55W/830	82	A	4800	yes	20000	4	1CT / 25	25	55PLL830	615411 40	26.41	yes
55W/835	82	A	4800	yes	20000	4	1CT / 25	25	55PLL835	636652 40	26.41	yes
55W/840	82	A	4800	yes	20000	4	1CT / 25	25	55PLL840	615428 40	26.41	yes
55W/865	80	A	4500	yes	20000	4	1CT / 25	25	55PLL865	261700 40	26.41	yes
80W/830	82	B	6000	yes	20000	5	1CT / 25	25	80PLL830	867087 40	33.01	yes
80W/835	82	B	6000	yes	20000	5	1CT / 25	25	80PLL835	867100 40	33.01	yes
80W/840	82	B	6000	yes	20000	5	1CT / 25	25	80PLL840	867124 40	33.01	yes

MASTER PL-L Polar 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	290	315	321.6	37.7	18
2	385	410	416.6	37.7	18
3	510	535	541.6	37.7	18

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 2 parallel fluorescent tubes linked by a bridge
- 4-pin base without gear

Product Features

- Bridge between tubes adapted to maximise light output at low ambient temperatures
- Optimum light output achieved in outdoor and cold storage applications
- Lumen maintenance of 90% and long service lifetime
- Lamp characteristics are influenced by operating conditions and control gear used

Product Benefits

- Road and social safety are safeguarded even at freezing outdoor temperatures
- Lowest cost of ownership thanks to a service lifetime of over 16000 hours
- Environmental impact minimised by long lifetime and low hazardous materials content
- Dimming is possible

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Residential areas
- Parks and squares
- Under canopies in storage and transport areas
- Cold indoor areas (e.g. warehouses, food cold stores)

Luminaires

- Light output at low temperatures can be increased even further by applying a transparent heat cap around the top of the lamp

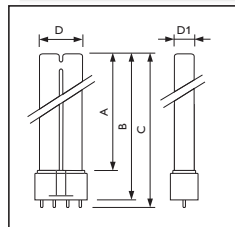
System

- Lamp characteristics are influenced by operating conditions and control gear used: HF electronic gear with warm start is recommended

MASTER PL-L Polar /4P 2G11

Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)		(lm)		(h)							
24W/830	82	B	1800	yes	20000	1	1CT / 25	25	24PLL830POLAR	261540 40	24.84	yes
24W/840	82	B	1800	yes	20000	1	1CT / 25	25	24PLL840POLAR	261564 40	24.84	yes
36W/830	82	A	2900	yes	20000	2	1CT / 25	25	36PLL830POLAR	261588 40	26.59	yes
36W/840	82	A	2900	yes	20000	2	1CT / 25	25	36PLL840POLAR	261601 40	26.59	yes
55W/830	82	A	4800	yes	20000	3	1CT / 25	25	55PLL830POLAR	261625 40	29.08	yes
55W/840	82	A	4800	yes	20000	3	1CT / 25	25	55PLL840POLAR	261649 40	29.08	yes

MASTER PL-L Xtra 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	290	315	321.6	37.7	18
2	384.2	410	416.6	37.7	18
3	509.2	535	541.6	37.7	18

Product Description

- Energy-saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 2 parallel fluorescent tubes

Product Features

- 4-pin base without starter and capacitor
- Lamp characteristics are influenced by operating conditions and control gear used
- Lamp performance is governed by temperature of the coolest spot
- Significant reduction of early failures
- Extra long and reliable lifetime

Product Benefits

- Extra long life

- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Optimal light performance for long operation per switch on

Environment

- Good environmental choice because of long reliable life, high-energy efficiency and lowest mercury content
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Designed for general lighting in shops, offices, hotels and specific task lighting, as well as outdoors in residential areas and parks

- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls, tunnels and public areas

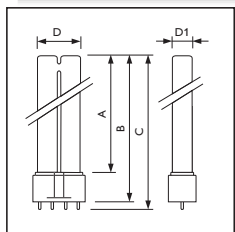
System

- Separate radio-suppression capacitor required with conventional control gear circuits (36W)
- Universal application 36W in conventional high-voltage switch-start circuits, low-voltage sequence-start circuits and 36-55 W in advanced electronic circuits
- Lamp characteristics are influenced by operating conditions and control gear used
- Optimized performance for electronic gear with preheat function

MASTER PL-L Xtra /4P 2G11

Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)		(lm)		(h)							
24W/830	82	B	1800	yes	36000	1	1CT / 25	25	24PLL830XTRA	267672 40	52.86	yes
24W/840	82	B	1800	yes	36000	1	1CT / 25	25	24PLL840XTRA	267702 40	52.86	yes
36W/830	82	A	2900	yes	36000	2	1CT / 25	25	36PLL830XTRA	897589 40	52.86	yes
36W/840	82	A	2900	yes	36000	2	1CT / 25	25	36PLL840XTRA	897602 40	52.86	yes
40W/830	82	A	3500	yes	36000	3	1CT / 25	25	40PLL830XTRA	267801 40	52.86	yes
40W/840	82	A	3500	yes	36000	3	1CT / 25	25	40PLL840XTRA	267825 40	52.86	yes
55W/830	82	A	4800	yes	36000	3	1CT / 25	25	55PLL830XTRA	897626 40	57.81	yes
55W/840	82	A	4800	yes	36000	3	1CT / 25	25	55PLL840XTRA	897640 40	57.81	yes

MASTER PL-L Xtra Polar 4 Pin



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	290	315	321.6	37.7	18
2	384.2	410	416.6	37.7	18
3	509.2	535	541.6	37.7	18

Product Description

- Energy saving compact fluorescent lamps
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of two parallel fluorescent tubes linked by a bridge

Product Features

- Bridge between tubes adapted to maximize light output at low ambient temperatures
- Optimum light output achieved in outdoor and cold storage applications
- Significant reduction of early failures
- Extra long and reliable lifetime

Product Benefits

- Road and social safety are safeguarded even at freezing outdoor temperatures

- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Optimal light performance for long operation per switch-on
- Environmental impact minimized by long lifetime and low hazardous materials content
- Dimming is possible

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Residential areas

- Parks and squares
- Under canopies in storage and transport areas
- Cold indoor areas (e.g. warehouses, food cold stores)

Luminaires

- Light output at low temperatures can be increased even further by applying a transparent heat cap around the top of the lamp

System

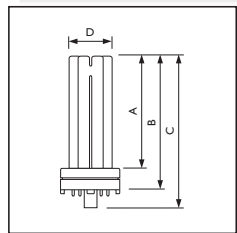
- Separate radio-suppression capacitor required with conventional control gear circuits (24 / 36 W)
- Universal application 24 / 36 W in conventional high-voltage switch-start circuits, low-voltage sequence-start circuits and 24-55 W in advanced electronic circuits
- Lamp characteristics are influenced by operating conditions and control gear used

MASTER PL-L Xtra Polar /4P 2G11

Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(Ra)		(lm)		(h)							
24W/830	82	B	1800	yes	36000	1	1CT / 25	25	24PLL830XTRAPOL	267726 40	63.44	yes
24W/840	82	B	1800	yes	36000	1	1CT / 25	25	24PLL840XTRAPOL	267740 40	63.44	yes
36W/830	82	A	2900	yes	36000	2	1CT / 25	25	36PLL830XTRAPOL	267764 40	63.44	yes
36W/840	82	A	2900	yes	36000	2	1CT / 25	25	36PLL840XTRAPOL	267788 40	63.44	yes
55W/830	82	A	4800	yes	36000	3	1CT / 25	25	55PLL830XTRAPOL	267849 40	69.37	yes
55W/840	82	A	4800	yes	36000	3	1CT / 25	25	55PLL840XTRAPOL	267863 40	69.37	yes

PL-H

MASTER PL-H 4 Pin



Dim. no.	A max.	B max.	C max.	D max.
1	141	167	182	59
2	182	208	223	59
3	259	285	300	59

Product Description

- A single ended MASTER compact fluorescent lamp, which requires a ballast to operate
- The lamp consists of 6 parallel narrow fluorescent tubes bridged together with a unique construction

Product Features

- A MASTER product which offers a very high light output and high efficiency
- Single ended 4-pin base for operation with high-frequency electronic ballast
- Philips amalgam technology for higher sustained light output over a wide temperature range
- Universal lamp base with integrated retention system for all wattages (also one ballast for all wattages)
- Dimming is possible with appropriate ballast

Product Benefits

- Very high light output
- PL-L technology for reliable long life and low lumen depreciation
- High energy efficiency
- Good colour rendering and choice of light colours
- Fast, secure installation thanks to push-and-turn 2G8 lamp base/holder
- Instant white light and hot restrike

Environment

- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content

- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

- Indoor and outdoor general and decorative lighting in professional medium- and high-bay environments such as:
 - public buildings
 - shops and shopping centers
 - airport departure and arrival areas
 - railway and bus stations
 - residential areas and city centres

MASTER PL-H /4P 2G8-1

Wattage/Colour Code	Colour Rendering Index (R _a)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
60W/830	82	B	4000	yes	20000	1	1CT / 10	10	60PLH830	264077 25	39.16	yes
60W/840	82	B	4000	yes	20000	1	1CT / 10	10	60PLH840	264091 25	39.16	yes
85W/830	82	B	6000	yes	20000	2	1CT / 10	10	85PLH830	264114 25	43.88	yes
85W/840	82	B	6000	yes	20000	2	1CT / 10	10	85PLH840	264237 25	43.88	yes
120W/830	82	B	9000	yes	20000	3	1CT / 10	10	120PLH830	264039 25	55.92	yes
120W/840	82	B	9000	yes	20000	3	1CT / 10	10	120PLH840	264053 25	55.92	yes

PL-Q

PL-Q 2 Pin



Product Description

- Compact fluorescent lamps with a quadrant-like shape

Product Features

- Retrofit in already installed 2D luminaires
- Assembled with the same high-quality components as all other Philips CFL-NI lamps

Product Benefits

- High light quality and optimum lumen output provide increased value for money
- Energy-saving light with good colour rendering

- Long service lifetime
- The Philips Lighting stamp of quality

Application

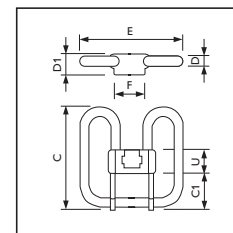
- Ideal for applications such as
 - corridors
 - toilets
 - stairwells
 - reception areas

Luminaires

- Fit both square and round bulkhead luminaires

System

- Operate on separate control gear



C	C1	D	D1	E	F	U
max.	max.	max.	max.	max.	max.	max.
141	51	15	27.5	138	41	40

PL-Q /2P GR8

Wattage/Colour Code	Colour Rendering Index (R _a)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimmable	Life to 50% failures EM,3 h (h)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
16W/827	82	B	1050	no	10000	1CT / 10	10	16PLQ8272PIN	269652 25	11.64	yes
16W/830	82	B	1050	no	10000	1CT / 10	10	16PLQ8302PIN	269874 25	11.64	yes
16W/835	82	B	1050	no	10000	1CT / 10	10	16PLQ8352PIN	269669 25	11.64	yes

PL-Q 4 Pin



Product Description

- Compact fluorescent lamps with a quadrant-like shape

Product Features

- Retrofit in already installed 2D luminaires
- Assembled with the same high-quality components as all other Philips CFL-NI lamps
- Dimming is possible

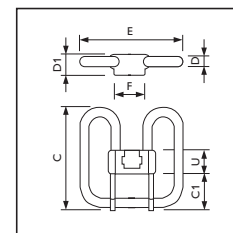
Product Benefits

- High light quality and optimum lumen output provide increased value for money
- Energy-saving light with good colour rendering

- Long service lifetime
- The Philips Lighting stamp of quality

Application

- Ideal for applications such as
 - corridors
 - toilets
 - stairwells
 - reception areas



Dim. no.	C	C1	D	D1	E	F	U
1	max. 141	max. 51	max. 15	max. 27.5	max. 138	max. 41	max. 40
2	max. 207	max. 77	max. 24	max. 33	max. 205	max. 41	max. 49

Luminaires

- Fit both square and round bulkhead luminaires

System

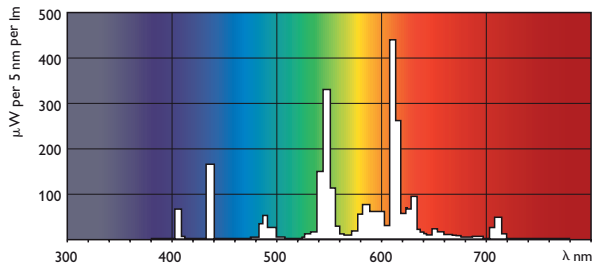
- Operate on separate control gear

PL-Q /4P GR10q

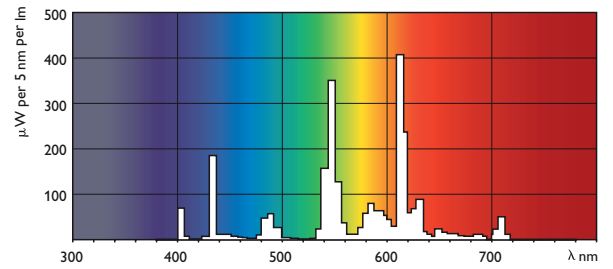
Wattage/ Colour Code	Colour Rendering Index	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL	Lamp Lumi- nous Flux EM	Dimmable	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
(Rs)			(lm)	(lm)		(h)							
16W/827	82	B	1050	1050	yes	12000	1	1CT / 10	10	16PLQ8274PIN	269881 25	11.64	yes
16W/830	82	B	1050	1050	yes	12000	1	1CT / 10	10	16PLQ8304PIN	269898 25	11.64	yes
16W/835	82	B	1050	1050	yes	12000	1	1CT / 10	10	16PLQ8354PIN	272065 25	11.64	yes
28W/827	82	B	1800	2050	yes	12000	2	1CT / 10	10	28PLQ8274PIN	269911 25	17.57	yes
28W/830	82	B	1800	2050	yes	12000	2	1CT / 10	10	28PLQ8304PIN	269928 25	17.57	yes
28W/835	82	B	1800	2050	yes	12000	2	1CT / 10	10	28PLQ8354PIN	269676 25	17.57	yes
28W/840	82	B	1800	2050	yes	12000	2	1CT / 10	10	28PLQ8404PIN	269935 25	17.57	yes
38W/827	82	B	2800	2850	yes	12000	2	1CT / 10	10	38PLQ8274PIN	271716 25	18.56	yes
38W/830	82	B	2800	2850	yes	12000	2	1CT / 10	10	38PLQ8304PIN	271723 25	18.56	yes
38W/835	82	B	2800	2850	yes	12000	2	1CT / 10	10	38PLQ8354PIN	271730 25	18.56	yes
38W/840	82	B	2800	2850	yes	12000	2	1CT / 10	10	38PLQ8404PIN	271747 25	18.56	yes

Spectral Distribution

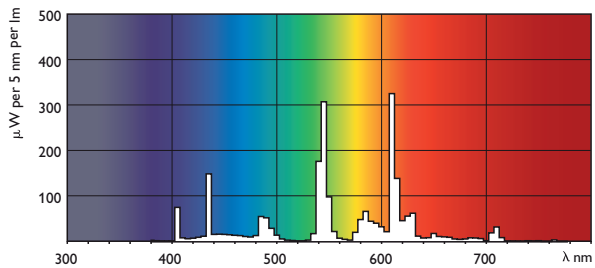
Lightcolour /827



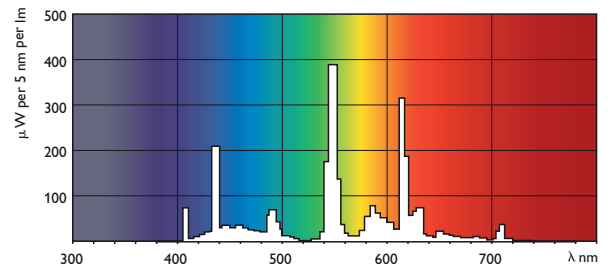
Lightcolour /830



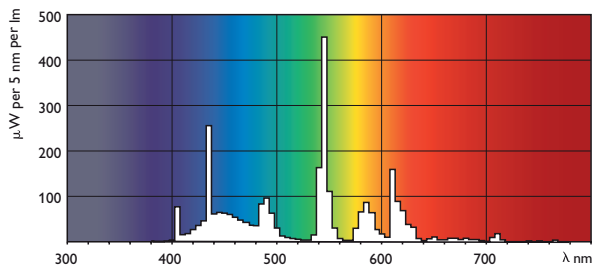
Lightcolour /835



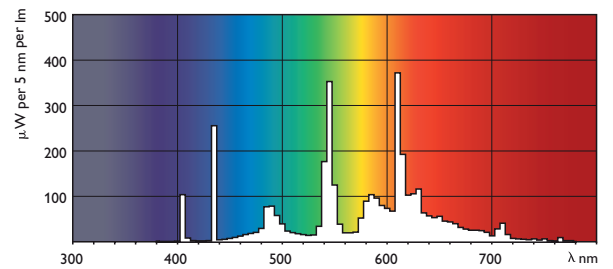
Lightcolour /840



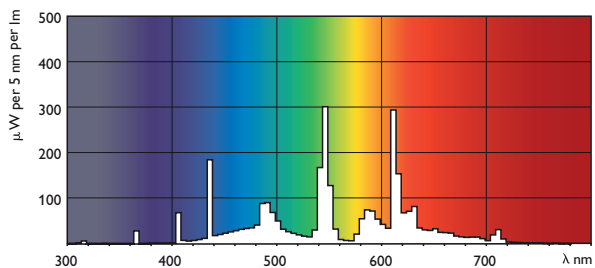
Lightcolour /865



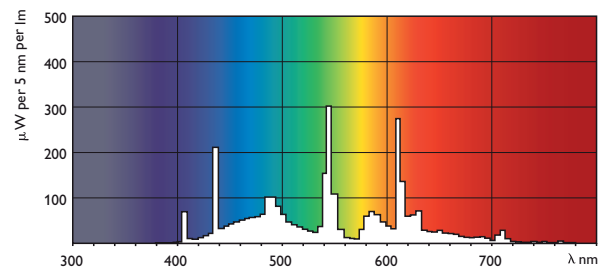
Lightcolour /930



Lightcolour /940



Lightcolour /950



Compact High Intensity Discharge Lamps

Guide to uplampping for Compact High Intensity Discharge lamps

Ever since the company was started in 1891, Philips Lighting has developed and launched many thousands of innovative and important products. With so many products to choose from, this handy and practical 'Guide to better lamps', makes it simpler to make the right choice.

Current product

Aluline 111



Energy efficient alternative

MASTERColour CDM-R111

Energy savings	40%
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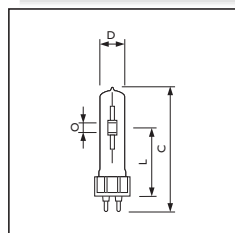


For more uplampping possibilities, visit www.philips.com/catalog



asimpleswitch.com

MASTERColour CDM MASTERColour CDM-T Elite



Dim. no.	C max.	D max.	L nom.	O nom.
1	103	20	56	4
2	103	20	56	6
3	110	20	56	9

Product Description

- Single-ended, high-efficiency Ceramic Metal Halide discharge lamp

Product Features

- Crisp white light
- Excellent color rendering (R_a 90)
- Reliable lifetime performance
- Stable color performance during lifetime
- Increased light output compared with regular MASTERColour lamps
- Improved maintenance compared with regular MASTERColour lamps
- Burning position for
 - CDM Elite-T 35W: vertical +/- 60 degrees
 - CDM Elite-T 70W: universal

Product Benefits

- Outstanding rendering of displayed merchandise due to high color rendering (R_a 90) in combination with high lumen output; best offer in the market for 'enhancing merchandize'
- Excellent color quality, which remains stable over lifetime
- Light output over lifetime maintains display brightness
- High efficacy and long lifetime for lowest operating costs and low heat generation
- Relatively low heat generation enhances comfort for shoppers and staff
- UV Block for reduced fading risk of merchandise

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Accent and display lighting with a sparkling effect, excellent solution for Retail
- Decorative outdoor floodlighting

Luminaires

- Must be used in closed luminaires with a proper cover (IEC 61167 and IEC 60958)

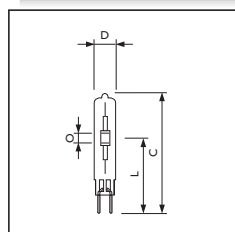
System

- Must be used with electronic gear such as PrimaVision

MASTERColour CDM-T Elite G12

Wattage/Colour Code	Colour Temperature	Lamp Luminous Flux EL	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(K)	(lm)	(h)							(£)	
35W/930	3000	3500	12000	any	1	1CT / 12	12	35CDMTTELITE930	208132 15	227.04	yes
70W/930	3000	7300	12000	any	2	1CT / 12	12	70CDMTTELITE930	208156 15	227.04	yes
150W/930	3000	15000	12000	any	3	1CT / 12	12	150CDMTTELITE930	213129 15		yes

MASTERColour CDM-TC Elite



Dim. no.	C max.	D max.	L nom.	O nom.
1	85	15	52	4
2	85	14.35	52	6

Product Description

- Single-ended, compact size, high-efficiency Ceramic Metal Halide discharge lamp

Product Features

- Crisp white light
- Excellent color rendering (R_a 90)
- Reliable lifetime performance
- Stable color performance during lifetime
- Increased light output compared with regular MASTERColour lamps
- Improved maintenance compared with regular MASTERColour lamps
- Burning position for
 - CDM Elite-TC 35W: vertical +/- 60 degrees
 - CDM Elite-TC 70W: universal

Product Benefits

- Outstanding rendering of displayed merchandise due to high color rendering (R_a 90) in combination with high lumen output; best offer in the market for 'enhancing merchandize'
- Excellent color quality remains stable over lifetime
- Light output over lifetime maintains display brightness
- High efficacy and long lifetime for lowest operating costs and low heat generation
- Relatively low heat generation enhances comfort for shoppers and staff
- UV Block for reduced fading risk of merchandise
- Allows design of very compact luminaires with high beam intensities

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Accent and display lighting with a sparkling effect, excellent solution for Retail
- General and decorative lighting

Luminaires

- Must be used in closed luminaires with a proper cover (IEC 61167 and IEC 60958)

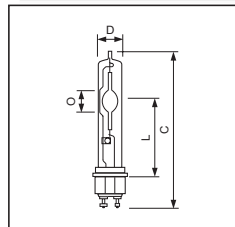
System

- Must be used with electronic gear such as Philips PrimaVision

MASTERColour CDM-TC Elite G8.5

Wattage/Colour Code	Colour Temperature	Lamp Luminous Flux EL	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(K)	(lm)							(£)	
35W/930	3000	3500	any	1	1CT / 12	12	35CDMTCELITE930	208170 15	238.39	yes
70W/930	3000	7300	any	2	1CT / 12	12	70CDMTCELITE930	208194 15	238.39	yes

MASTERColour CDM-T Elite MW



Dim. no.	C nom.	D nom.	L nom.	O nom.
1	186	28	90	12.1
2	186	28	90	
3	186	28	90	16

Product Description

- MASTERColour CDM Elite MW - the medium wattage lighting system that gives superior, longer-lasting white light for both indoor and outdoor use.

Product Features

- Crisp, white light with excellent colour rendering (R_a 90)
- Stable colour performance and light output over entire long lifespan
- New socket design makes lamp extremely compact and improves efficiency as well as light distribution
- Electronic driver suitable for both indoor and outdoor applications
- Complements existing CDM lamps; range now extended from 20W to 315W

Product Benefits

- High efficiency of both lamp and driver means lower energy consumption and therefore reduced CO₂ emissions - without compromising on light quality.
- Longer lifespan equates to reduced maintenance and lower replacement costs.
- Excellent colour quality and consistent light output from beginning to end.
- Being 50% smaller than conventional HPI and HPL lamps gives freedom in optic and luminaire design.
- Greater harmony in lighting design as CDM lamps can now be used in many new applications.
- Sparkling properties of white light create a more natural and inviting ambience.

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Outdoor; floodlighting of buildings and other interesting structures. Illumination of roads and pedestrian areas, public spaces, car parks, petrol stations etc.
- Indoor; larger (high-bay) retail outlets, warehouses, manufacturing facilities etc.

Luminaires

- Must be used in closed luminaires with a proper cover (IEC 61167 and IEC 60958)

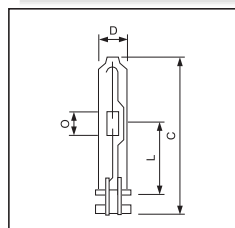
System

- Must be used with dedicated electronic gear PrimaVision

MASTERColour CDM-TMW Elite PGZ18

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
210W/930	3000	24200	any	1	1CT / 12	12	210CDMTElite930	801743 00	255.45	yes
210W/942	4200	23100	any	2	1CT / 12	12		801804 00		
315W/930	3000	37800	any	3	1CT / 12	12	315CDMTElite930	801576 00	300.53	yes

MASTERColour CDM-Tm Mini



Dim. no.	C max.	D max.	L nom.	O nom.
1	52	11.2	22.6	3
2	52	11.2	22.6	4

Product Description

- Miniature, single-ended ceramic metal halide lamp
- PGJ5 twist-lock lamp base

Product Features

- Crisp, sparkling light for a comfortable atmosphere
- Low heat generation
- Warm white colour impression
- Good colour rendering
- Miniature size allows design of very compact luminaires with high beam intensities for mounting close to illuminated object
- Easy replacement due to robust twist-lock socket
- Universal burning position

Product Benefits

- Stable colour impression over lifetime
- High efficacy for low operating costs and low heat generation
- Long life compared with halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- Mechanical retrofit in halogen capsule (GY6.35) luminaires (same light centre length). For full retrofit gear and lampholder also need to be exchanged
- UV Block for reduced fading risk of merchandise

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Accent and display lighting with a sparkling effect
- Decorative outdoor floodlighting

Luminaires

- Must be used in closed luminaires with a hard glass cover

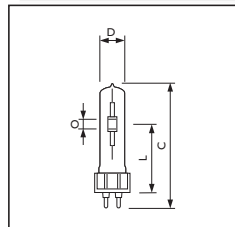
System

- Must be used in combination with Philips electronic gear

MASTERColour CDM-Tm Mini PGJ5

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
20W/830	3000	1650	12000	any	1	1CT / 12	12	20CDMTM830	207517 15	170.72	yes
35W/930	3000	3000	12000	any	2	1CT / 12	12	35CDMTM930	211491 15	180.96	yes

MASTERColour CDM-T



Dim. no.	C max.	D max.	L nom.	O nom.
1	103	19.3	56	3
2	103	20	56	5
3	103	20	56	7
4	103	20	56	6
5	110	20	56	9
6	110	20	56	8
7	135	25	73	11

Product Description

- Range of single-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light

Product Features

- Warm or cool white colour impression
- Colour rendering good to excellent
- Allows small-size luminaires designs that give high beam intensities

Product Benefits

- Stable colour impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation

- Long lamp life compared with incandescent and halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

Luminaires

- Must be used in closed luminaires with a hard-glass cover

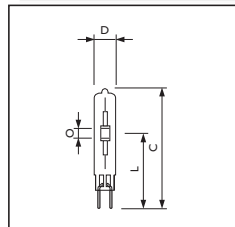
System

- Must be used in combination with a ballast and an ignitor
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used, and increases lamp-life, improves system efficacy, and eliminates visible flicker

MASTERColour CDM-T G12

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Lamp Lumi- nous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece	
	(K)	(lm)	(lm)	(h)							(£)	
20W/830	3000	1650		12000	any	1	1CT / 12	12	20CDMT830	8727900 821994 00	78.89	yes
35W/830	3095	3300	3300	12000	any	2	1CT / 12	12	35CDMT830	8711500 196972 15	173.17	yes
35W/942	4200	3300		12000	any	2	1CT / 12	12	35CDMT942	8711500 211262 15	173.17	yes
70W/830	3070	6600	6600	12000	any	3	1CT / 12	12	70CDMT830	8711500 196996 15	173.17	yes
70W/942	4200	6600	6600	12000	any	4	1CT / 12	12	70CDMT942	8711500 199270 15	173.17	yes
150W/830	2950	14000	14000	12000	any	5	1CT / 12	12	150CDMT830MP	8711500 202215 15	183.49	yes
150W/830	2950	14000	14000	12000	any	5	1CT / 12	12	150CDMT830	8711500 197801 15	201.84	yes
150W/942	4200	12700	12700	12000	any	6	1CT / 12	12	150CDMT942	8711500 200051 15	201.84	yes
250W/830	3000		23000	11000	any	7	1CT / 12	12	250CDMT830	8711500 208019 15	304.85	yes
250W/942	4200		23300	6000	any	7	1CT / 12	12	250CDMT942	8711500 211125 15	304.85	yes

MASTERCcolour CDM-TC



Dim. no.	C max.	D max.	L nom.	O nom.
1	85	15	52	3
2	85	15	52	5
3	85	15	52	7

Product Description

- Range of single-ended, very compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light

Product Features

- Warm or cool white colour impression with good colour rendering
- Allows very small-size luminaire designs that give high beam intensities

Product Benefits

- Long lamp life compared with incandescent and halogen lamps
- UV-Block quartz outer bulb for reduced fading risks

- Stable colour impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation (which enhances comfort for shoppers and staff)

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Sparkling effect, ideal for accent lighting

- General and decorative lighting

Luminaires

- Must be used in closed luminaires with a hard-glass cover

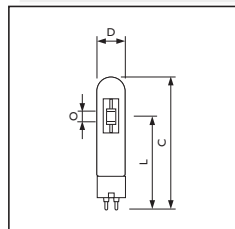
System

- Preferably used with electronic gear, which offers minimum system volume, increases lamp-life, improves system efficacy, and offers flicker-free operation
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)

MASTERCcolour CDM-TC G8.5

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Lamp Lumi- nous Flux EM	Burning Position	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece	
	(K)	(lm)	(lm)							(£)	
20W/830	3000	1650		any	1	1CT / 12	12	20CDMTC830	8727900 803600 00		yes
35W/830	3000	3300	3300	any	2	1CT / 12	12	35CDMTC830	8711500 200006 15	181.83	yes
35W/942	4200	3300		any	2	1CT / 12	12	35CDMTC942	8711500 209573 15	181.83	yes
70W/830	3000	6500		any	3	1CT / 12	12	70CDMTC830	8711500 201676 15	181.83	yes
70W/942	4200	5900		any	2	1CT / 12	12	70CDMTC942	8711500 212757 15	181.83	yes

MASTERCcolour CDM-TP



Dim. no.	C max.	D max.	L nom.	O nom.
1	149	32	91	7
2	149	32	91	6
3	149	32	91	9
4	149	32	91	8

Product Description

- Range of protected, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light to be used in open luminaires

Product Features

- Warm or cool white colour impression
- Colour rendering good to excellent
- Lamp design is well-suited to be used in luminaires for power-spots (high intensity) and high-bay general lighting
- Double UV-Block quartz sleeves and a hard-glass outer bulb

Product Benefits

- High lamp efficacy results in low operating costs and low heat generation

- Stable colour impression over lifetime
- Long lamp life compared with incandescent and halogen lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types have UV-Block filtering for reduced fading risks

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Shops and shop windows, offices and public buildings

- Decorative outdoor: floodlighting and pedestrian areas

Luminaires

- Suitable for use in open luminaires

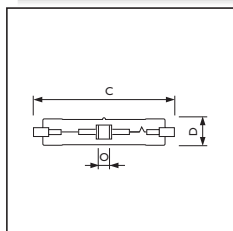
System

- Must be used in combination with a ballast and ignitor or electrical gear
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used to increase lamp-life, improve system efficacy, and offer flicker-free operation

MASTERColour CDM-TP

Wattage/Colour Code	Cap-Base	Colour Temperature	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(K)	(lm)	(h)							(£)	
70W/830	PG12-2	3000	5800	16000	any	1	1CT / 12	12	70CDMTP830	201270 15	175.03	yes
70W/942	PG12-2	4200	5800	16000	any	2	1CT / 12	12	70CDMTP942	201133 15	175.03	yes
150W/830	PGX12-2	3000	13000	16000	any	3	1CT / 12	12	150CDMTP830	201256 15	182.68	yes
150W/942	PGX12-2	4200	12000	16000	any	4	1CT / 12	12	150CDMTP942	201119 15	182.68	yes

MASTERColour CDM-TD



Dim. no.	C max.	D max.	O nom.
1	119.63	22	8
2	119.63	22	7
3	137.43	25	10

Product Description

- Range of double-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light

Product Features

- Warm or cool white colour impression
- Colour rendering good to excellent
- Retrofit in double-ended luminaires for quartz metal halide lamps (MHN/W-TD), thereby allowing to reduce operating costs and improve colour quality
- Burning position horizontal $\pm 45^\circ$

Product Benefits

- Stable colour impression over lifetime

- High lamp efficacy results in low operating costs and low heat generation. Provides better operating costs and improved light quality versus standard quartz metal halide (MHN/W-TD)
- Long lamp life compared with incandescent, halogen and quartz metal halide (MHN/W-TD) lamps
- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Shops and shop windows, offices and public buildings

- Decorative outdoor: floodlighting of facades, statues and monuments

Luminaires

- Must be used in closed luminaires with a hard-glass cover

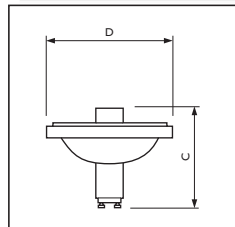
System

- Must be used in combination with a ballast and ignitor or electronic gear
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used and increases lamp-life, improves system efficacy and eliminates visible flicker

MASTERColour CDM-TD RX7s

Wattage/Colour Code	Colour Temperature	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(K)	(lm)	(h)							(£)	
70W/830	3000	6500	16000	p45	1	1CT / 12	12	70CDMTD830	197825 15	146.28	yes
70W/942	4200	6000	16000	p45	2	1CT / 12	12	70CDMTD942	200020 15	146.28	yes
150W/830	3000	13250	16000	p45	3	1CT / 12	12	150CDMTD830	197849 15	146.28	yes
150W/942	4200	14200	16000	p45	3	1CT / 12	12	150CDMTD942	200259 15	146.28	yes

MASTERColour CDM-R111



C	D
max.	max.
95	111

Product Description

- The MASTER Colour CDM-R111 combines the trendy look of the 111mm aluminium reflector halogen lamps with the long life, high energy efficiency and crisp white light of MASTER Colour CDM

Product Features

- High lamp efficacy
- Long lamp life time compared to incandescent and halogen lamps
- The ceramic discharge tube is optimally and stable positioned in the reflector
- Twist & Lock system
- UV-Block burner capsule
- Anti-glare cap design

Product Benefits

- Low operating costs
- Easy installation
- Relatively low heat output
- Less glare, comfort for shoppers and staff
- Reduced fading risks

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Accent and decorative lighting: display lighting with sparkling, theatrical effects, even in surroundings with very high background ambient light levels like shops windows
- General lighting: in downlighters, a warm, comfortable atmosphere can be created

Luminaires

- Standard 111mm reflector design increases flexibility in application and allows CDM R-111 to easily fix into the many existing 111 luminaires

- Can be used in open luminaires
- GX8.5 lamp connector used must be suitable for ignition peaks up to 5kV

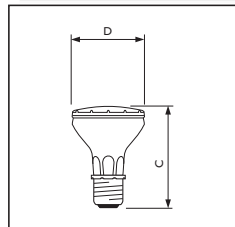
System

- Must be used in combination with a ballast and ignitor or electronic gear
- Except for CDM R111 35W/830, all the other types should be used with an electronic gear
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC1167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used and increases lamp-life, improves system efficacy and eliminates visible flicker

MASTERColour CDM-R111 GX8.5

Wattage/ Colour Code	Beam Description	Colour Tempera- ture	Luminous Intensity	Burning Position	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
(°)		(K)	(cd)						(£)	
20W/830	10 Spot	3000	20000	any	1CT / 6	6	20CDMR11183010	209474 10	231.48	yes
20W/830	24 Narrow Flood	3000	4500	any	1CT / 6	6	20CDMR11183024	209511 10	231.48	yes
35W/942	24 Narrow Flood	4200	8500	any	1CT / 6	6	35CDMR11194224	213877 10	231.48	yes
35W/942	40 Flood	4200	4000	any	1CT / 6	6	35CDMR11194240	213891 10	231.48	yes
35W/830	10 Spot	3000	35000	any	1CT / 6	6	35CDMR11183010	204486 10	231.48	yes
35W/830	24 Narrow Flood	3000	8500	any	1CT / 6	6	35CDMR11183024	204509 10	231.48	yes
35W/830	40 Flood	3000	4000	any	1CT / 6	6	35CDMR11183040	204523 10		yes
35W/942	10 Spot	4200	35000	any	1CT / 6	6	35CDMR11194210	213853 10	231.48	yes
70W/830	10 Spot	3000	50000	any	1CT / 6	6	70CDMR11183010	207197 10	231.48	yes
70W/830	24 Narrow Flood	3000	15000	any	1CT / 6	6	70CDMR11183024	207210 10	231.48	yes
70W/830	40 Flood	3000	9000	any	1CT / 6	6	70CDMR11183040	207234 10	231.48	yes
70W/942	24 Narrow Flood	4200	15000	any	1CT / 6	6	70CDMR11194224	213938 10	231.48	yes

MASTERColour CDM-R



Dim. no.	C nom.	D nom.
1	92	64

Product Description

- Range of compact, high-efficiency, discharge reflector lamps with a stable colour over lifetime and a crisp, sparkling light

Product Features

- Warm or cool white colour impression with good colour rendering
- High beam intensities are achieved very easy and efficiently from these compact reflector lamps

Product Benefits

- High lamp efficacy results in low operating costs and low heat generation
- Long lamp life compared with incandescent and halogen lamps
- Stable colour impression over lifetime
- Unique design increases flexibility in application and allows powerful accents from small, unobtrusive luminaires

- Simplified luminaire design because CDM-R lamps can be used in open luminaires
- Relatively low heat output enhances comfort for shoppers and staff
- Integrated UV-Block shield reduces fading risks

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

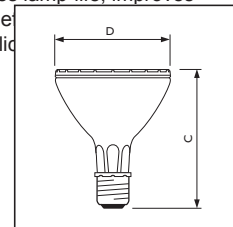
- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

Luminaires

- ES lampholders used must be suitable for ignition peaks up to 5 kV
- Suitable for use in open luminaires

System

- Must be used in combination with a ballast and ignitor or electronic gear
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)
- Electronic gear can be used and increases lamp-life, improves system efficiency, improves visible flux

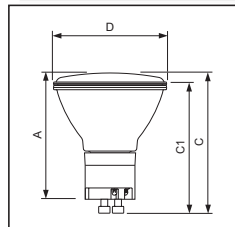


Dim. no.	C nom.	D nom.
2	120	95

MASTERColour CDM-R ES

MASTERCUT CDM R L E S														
Wattage/ Colour Code	Bulb		Beam Description	Colour Tem- perature	Luminous Intensity	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing confi- guration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(°)		(K)	(cd)	(h)							(£)	
35W/830	PAR20	10	Spot	3000	23000	7500	any	1	1CT / 12	12	35CDMR830SPP20	198082 15	210.45	yes
35W/830	PAR20	30	Flood	3000	5000	7500	any	1	1CT / 12	12	35CDMR830FLP20	198105 15	210.45	yes
35W/942	PAR20	10	Spot	4200	21500	9000	any	1	1CT / 12	12	35CDMR942P2010D	207852 15	210.45	yes
35W/942	PAR20	30	Flood	4200	5000	9000	any	1	1CT / 12	12	35CDMR942P2030D	207876 15	210.45	yes
35W/830	PAR30L	10	Spot	3000	44000	7500	any	2	1CT / 6	6	35CDMR830SP	197016 10	210.45	yes
35W/830	PAR30L	30	Flood	3000	7400	7500	any	2	1CT / 6	6	35CDMR830FL	197030 10	210.45	yes
70W/830	PAR30L	10	Spot	3000	68000	11000	any	2	1CT / 6	6	70CDMR830SPP30	197054 10	210.45	yes
70W/830	PAR30L	40	Flood	3000	10000	11000	any	2	1CT / 6	6	70CDMR830FLP30	197078 10	210.45	yes
70W/942	PAR30L	10	Spot	4200	63000	9000	any	2	1CT / 6	6	70CDMR942P3010	207258 10	210.45	yes
70W/942	PAR30L	30	Flood	4200	13000	9000	any	2	1CT / 6	6	70CDMR942P3030	207296 10	210.45	yes
70W/942	PAR30L	40	Flood	4200	9000	9000	any	2	1CT / 6	6	70CDMR942P3040	207272 10	210.45	yes

MASTERColour CDM-R Mini



A	C	C1	D
max.	max.	max.	nom.
59	65.4	60.9	50

Product Description

- The easy way to reflect more sparkle
- The new Philips MASTERColour CDM-R mini brings trusted MASTERColour quality to 50mm reflector lamps with the superior output and colour stability to create the right atmosphere to match your customers' retail brand and positioning

Product Features

- Miniaturized 50mm CDM reflector lamp
- High beam intensity
- Long lamp lifetime compared to halogen lamps
- Twist and lock system

Product Benefits

- The miniaturized 50mm CDM reflector lamp makes it possible to use the smaller fixtures and has less clutter in the ceiling
- Suitable for open luminaires, Easy installation and easy maintenance
- Saves up to 60% energy compared to low voltage halogen lamps. Relatively low heat output
- This lamp gives the crisp white lighting effect with excellent colour stability

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- The product is certified by Philips Green Flagship
- The product is RoHS compliant
- The product is covered by WEEE

Application

- Miniaturized crisp white light system for superior accent and general lighting in shops

Luminaires

- 50mm reflector design increases flexibility in application, and allows easy adaptation of halogen low voltage reflector luminaires
- Suitable in open luminaires
- Recommend to use ceramic lamp holders

System

- It is recommended to use Philips HID PrimaVision Mini Gear for optimal performance, but any other electronic gear suitable for GX10 compact HID lamps can also be used

MASTERColour CDM-R Mini GX10

MASTER ORDER CODE												
Wattage/ Colour Code		Colour Tempera- ture	Lamp Luminous Flux EL	Luminous Intensity	Life to 50% failures	Burning Position	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece	
	(°)	(K)	(lm)	(cd)	(h)						(£)	
20W/830	10	3000	1060	11000	12000	any	1CT / 6	6	20CDMRM83010	800012 00	207.99	yes
20W/830	25	3000	1060	3500	12000	any	1CT / 6	6	20CDMRM83025	800036 00	207.99	yes
20W/830	40	3000	1060	1700	12000	any	1CT / 6	6	20CDMRM83040	800050 00	207.99	yes

MASTERColour CDM-i



Product Description

- Mains-voltage PAR38 reflector lamp with integrated gear

Product Features

- Can be used in existing luminaires for PAR38 GLS or halogen lamps
- High energy efficiency
- Crisp white light of MASTERColour CDM
- Long life with stable color

Product Benefits

- High lamp efficacy results in low operating costs and low heat generation
- Provides better operating costs and light quality versus standard GLS or halogen PAR38 lamps
- Longer lifetime compared with GLS or halogen PAR38 lamps
- Easy installation and retrofit to existing PAR38 luminaires

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- Product are RoHS compliant
- Product are covered by WEEE

Application

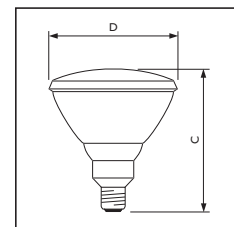
- Shops and shop windows for both accent and general lighting

Luminaires

- Suitable to be used in open luminaires
- Retrofit to PAR38 luminaires with E27 lamp holders

System

- Suitable to be used in mains voltage 220-240 V, 50/60 Hz



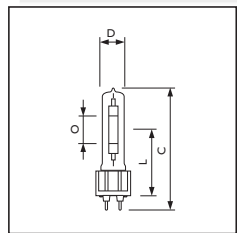
C	D
max.	max.
138	124

MASTERColour CDM-i ES

MASTER COLOUR CODES												
Wattage/ Colour Code		Colour Tempera- ture	Lamp Lumi- nous Flux EM	Luminous Intensity	Life to 50% failures	Burning Position	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(°)	(K)	(lm)	(cd)	(h)						(£)	
25W/830	10	3000	1275	26000	9000	any	1CT / 6	6	25CDMI83010	213167 10	328.90	yes
25W/830	25	3000	1275	5000	9000	any	1CT / 6	6	25CDMI83025	213181 10	328.90	yes
25W/830	40	3000	1275	2100	9000	any	1CT / 6	6	25CDMI83040	213204 10	328.90	yes

MASTER SDW White SON

MASTER SDW-TG Mini



Dim. no.	C max.	D max.	L nom.	O nom.
1	103	20	56	14
2	110	20	56	18

Product Description

- Range of high-efficiency, discharge lamps with warm colour to be used in small, open luminaires designed around MASTERColour CDM-T lamps

Product Features

- Warm white colour impression, very good colour rendering, especially superb red rendition
- Lamp design is well-suited to be used in luminaires for MASTER Colour CDM-T power-spots
- UV-block glass

Product Benefits

- Exceptional brightness and colour rendering especially of warm colours, e.g. red and gold
- High lamp efficacy results in low operating costs and low heat generation
- Long lamp life compared with incandescent and halogen lamps

Environment

- Good environmental choice because of high energy efficiency and long reliable life

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Shop lighting (create cosy atmosphere e.g. in furniture shops), excellent display of fresh goods (at butchers, bakeries, flower-shops)

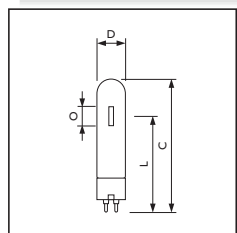
System

- Must be used in combination special Philips electronic gear to avoid colour shift. Not designed to be used in combination with ballast and colour control (CSLS) unit

MASTER SDW-TG Mini GX12-1

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
50W/825	2500	2400	10000	any	1	1CT / 12	12	50SDWTG	203236 15	174.39	yes
100W/825	2500	4900	10000	any	2	1CT / 12	12	100SDWTG	202338 15	183.57	yes

MASTER SDW-T



Dim. no.	C max.	D max.	L nom.	O nom.
1	149	32	91	13
2	149	32	91	16
3	149	32	91	19

Product Description

- Range of high-efficiency, discharge lamps with warm colour to be used in open luminaires

Product Features

- Warm white colour impression, very good colour rendering, especially superb red rendition
- Lamp design is well-suited to be used in luminaires for power-spots (high intensity) and high-bay general lighting

Product Benefits

- Exceptional brightness and colour rendering especially of warm colours, e.g. red and gold

- High lamp efficacy results in low operating costs and low heat generation
- Long lamp life compared with incandescent and halogen lamps

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Shop lighting (create cosy atmosphere e.g. in furniture shops), excellent display of fresh goods (at butchers, bakeries, flower-shops) and decorative outdoor lighting (gas-lantern imitation)

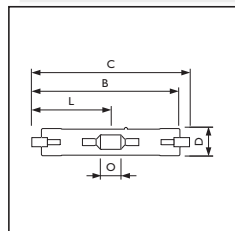
System

- Must be used in combination with a ballast and a special Philips colour control unit (CSLS) to avoid colour shift. Not designed to be used in combination with electronic gear
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)

MASTER SDW-T PG12-1

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
35W/825	2500	1300	15000	any	1	1SL / 12	12	35SDWT	734020 15	146.51	yes
50W/825	2500	2300	15000	any	2	1SL / 12	12	50SDWT	734037 15	153.03	yes
100W/825	2500	5000	15000	any	3	1SL / 12	12	100SDWT	734044 15	161.69	yes

MHN Low Wattage Metal Halide MHN-TD



Dim. no.	B max.	C max.	D max.	L nom.	O nom.
1	117.6	119.63	21	57.1	7
2	135.4	137.43	24	66	18

Product Description

- Double-envelope, single- or double-ended Metal halide lamps

Product Features

- Quartz discharge tube containing high-pressure mercury and a mixture of dysprosium, holmium and thulium halides (MHN-TD) or tin iodide (MHW-TD), with sodium and thallium added for colour correction and arc stabilisation

- Double-ended lamps housed in a tubular clear UV-Block quartz evacuated outer envelope
- Restricted burning position

Product Benefits

- All types are UV-Block for reduced health and fading risks

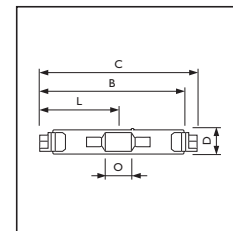
Application

- Indoors - accent lighting, general lighting in downlighters, e.g. in shops and malls

- Downlighters, uplighters and wall-washers, e.g. in shops and malls
- Outdoors - floodlighting monuments, facades and billboards

Luminaires

- These lamps must be used in a luminaire with a hard-glass cover to protect against possible discharge tube shattering



Dim. no.	B max.	C max.	D max.	L nom.	O nom.
3	135.4	161.6	27.5	69.5	27

MHN-TD

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
70W/842	RX7s	4200	5700	10500	p45	1	1CT / 12	12	70MHNTD	733986 15	112.70	yes
70W/730	RX7s	3000	6200	9000	p45	1	1CT / 12	12	70MHWTD	562685 15	112.70	yes
150W/842	RX7s	4200	12900	10500	p45	2	1CT / 12	12	150MHNTD	733993 15	112.70	yes
150W/730	RX7s	3000	13800	10500	p45	2	1CT / 12	12	150MHWTD	193506 15	112.70	yes
250W/842	FC2	4200	20000	9000	p45	3	1CT / 12	12	250MHNTD	734006 15	136.75	yes

CDM Short Arc CDM-SA/R



Product Description

- Compact reflector discharge lamps with quartz outer bulb

Product Benefits

- High beam intensities thanks to the short arc, axially mounted discharge arc and compact lamp dimensions
- Sparkling light for fresh white colour impression
- Stable colour over lifetime
- Excellent colour rendering
- Low operating costs through high lamp efficacy
- Long life compared with halogen lamps
- Low heat output increases personal comfort
- UV block reduces risk of fading

Application

- Advertising/text projection

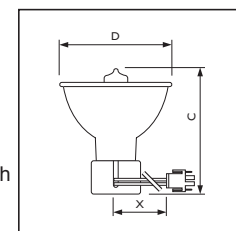
- Fibre optics
- Decorative outdoor, architectural lighting
- Shops and shop windows

Luminaires

- Must be used in closed luminaires with a hard glass cover

System

- A high current protection device is mandatory (IEC 61167)
- For constant voltage deviations of more than 3% of the rated voltage, another ballast rating/tap must be used
- Electronic gear such as Philips EMC can also be used, especially to eliminate visible flicker



C max.	D max.
106	95.3

Ceramic Cap-Cable

Type	Rated Lamp Wattage	Wattage/ Colour Code	Lamp Luminous Flux EM	Lamp Luminous Flux EM	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
	(W)		(lm)	(lm)	(h)							
CDM-SA/R 150W/942	150	150W/942	2750	2750	6000	any	UNP / 1	1	150CDMSAR942	201508 00	489.35	yes

CDM-SA/T



Product Features

- High luminous efficacy
- Compact arc
- Optimal lamp filling

Product Benefits

- High beam intensities thanks to the short arc, axially mounted discharge arc and compact lamp dimensions
- Sparkling light for fresh white colour impression
- Stable colour over lifetime
- Excellent colour rendering
- Low operating costs through high lamp efficacy
- Long life compared with halogen lamps
- Low heat output increases personal comfort
- UV block reduces risk of fading

Application

- Advertising/text projection

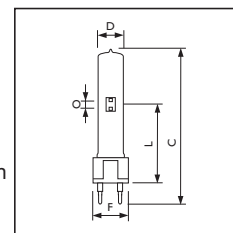
- Fibre optics
- Decorative outdoor, architectural lighting
- Shops and shop windows

Luminaires

- Must be used in closed luminaires with a hard glass cover

System

- A high current protection device is mandatory (IEC 61167)
- For constant voltage deviations of more than 3% of the rated voltage, another ballast rating/tap must be used
- Electronic gear such as Philips EMC can also be used, especially to eliminate visible flicker



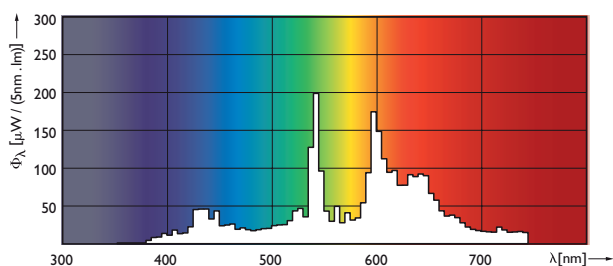
C	D	L	O
max.	max.	nom.	nom.
110	20	56	6

G12

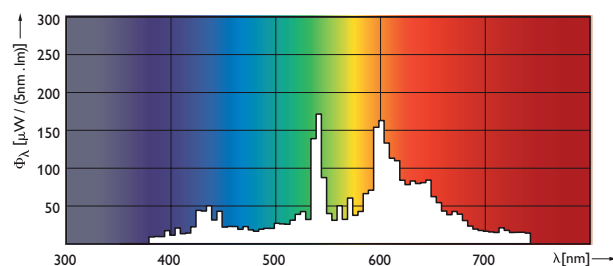
Type	Rated Lamp Wattage	Wattage/ Colour Code	Lamp Luminous Flux EM	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(lm)	(lm)	(h)							
CDM-SA/T 150W/942	150	150W/942	14000	14000	9000	any	1CT / 12	12	150CDMTSA942	200945 15	199.50	yes

Spectral Distribution

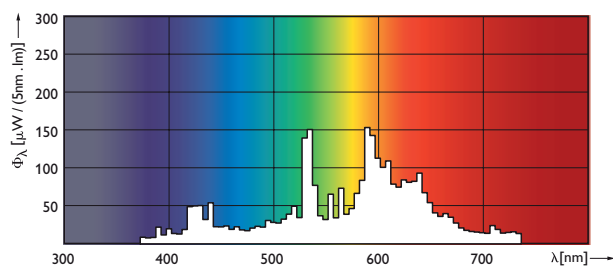
MASTERColour CDM Elite 35W /930



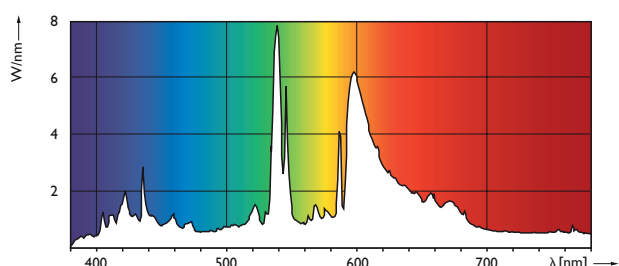
MASTERColour CDM Elite 70W /930



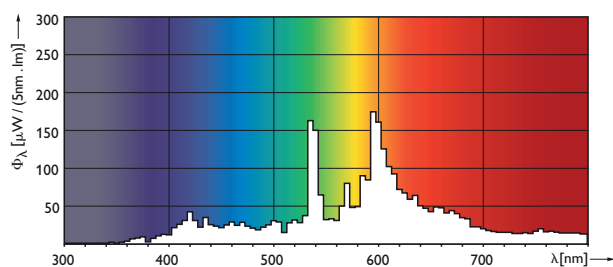
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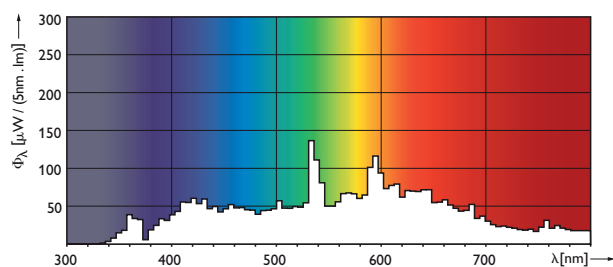
MASTERColour CDM-Tm



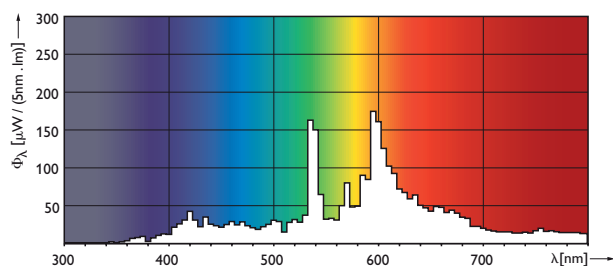
MASTERColour CDM-T /830



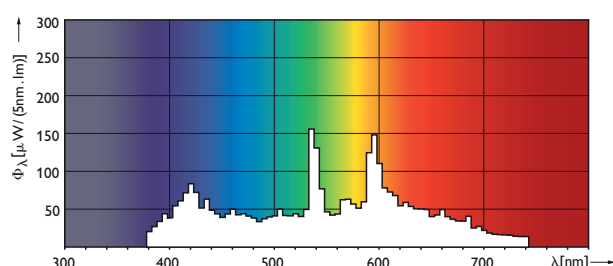
MASTERColour CDM-T /942



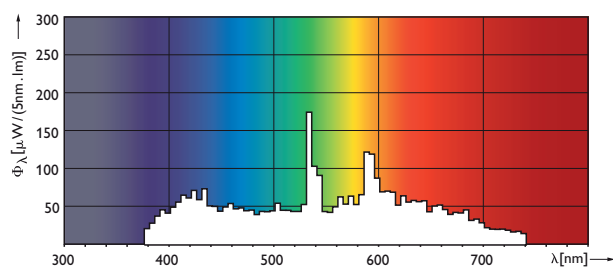
MASTERColour CDM-TC /830



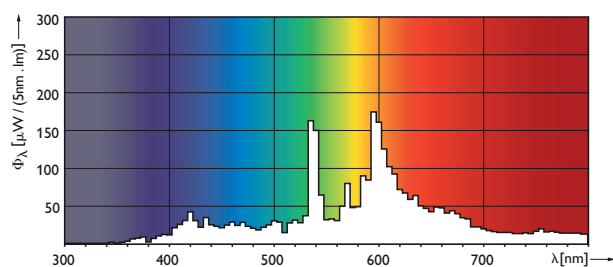
MASTERColour CDM-TC 35W /942



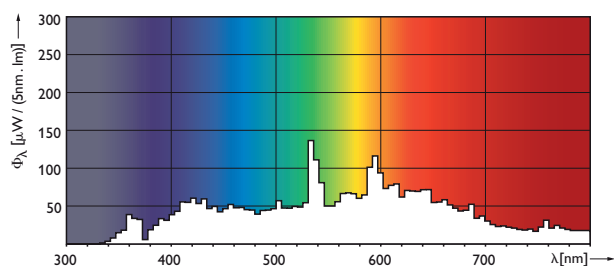
MASTERColour CDM-TC 70W /942



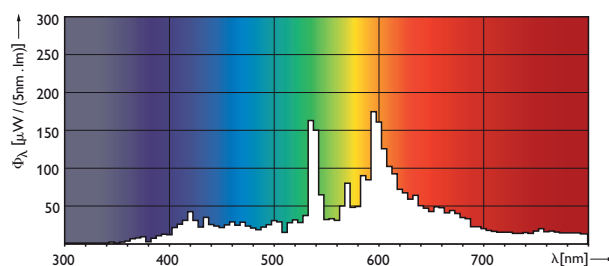
MASTERColour CDM-TP /830



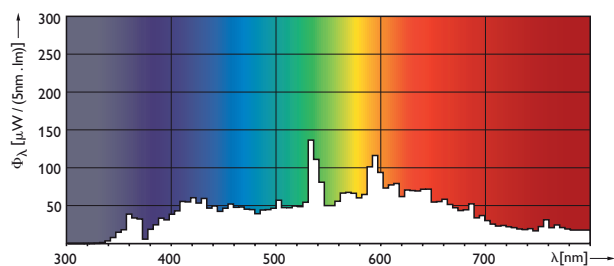
MASTERColour CDM-TP /942



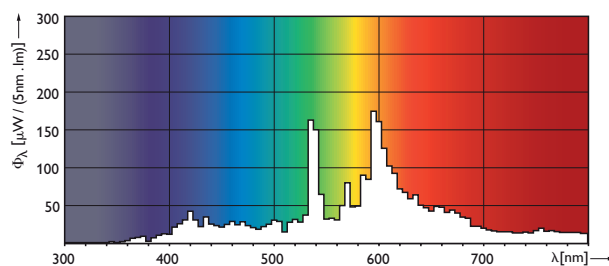
MASTERColour CDM-TD /830



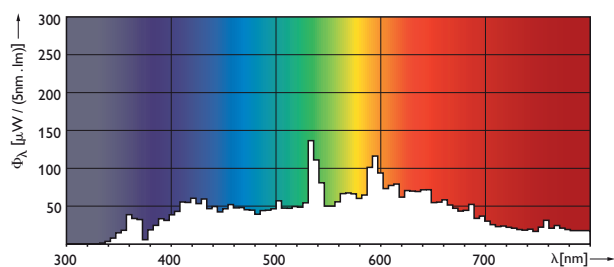
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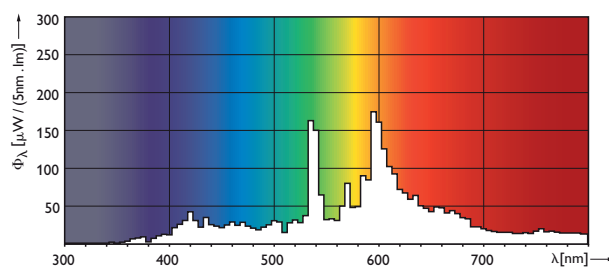
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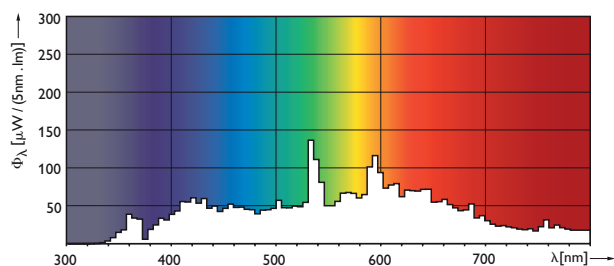
MASTERColour CDM-R111 /942



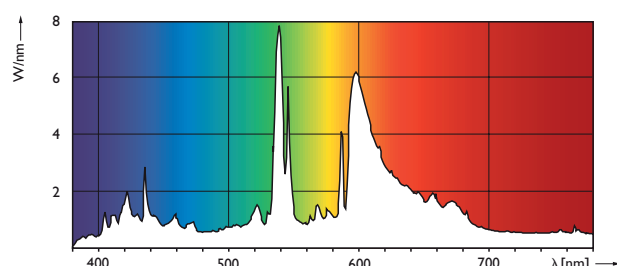
MASTERColour CDM-R /830



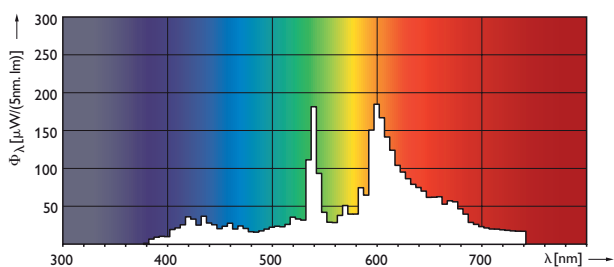
MASTERColour CDM-R /942



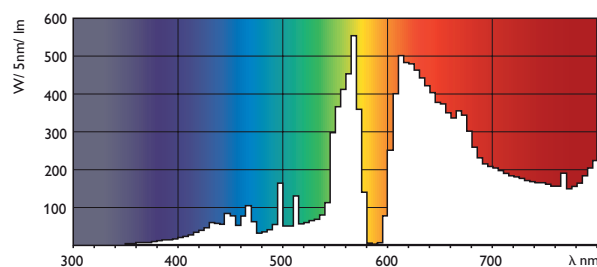
MASTERColour CDM-Rm



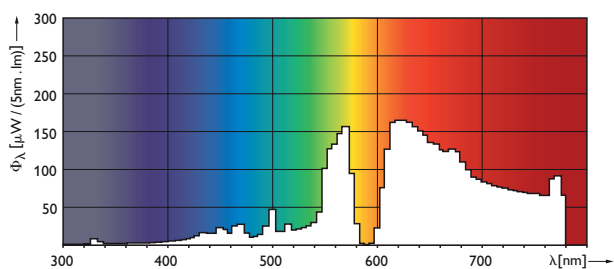
MASTERColour CDM-i 25W /830



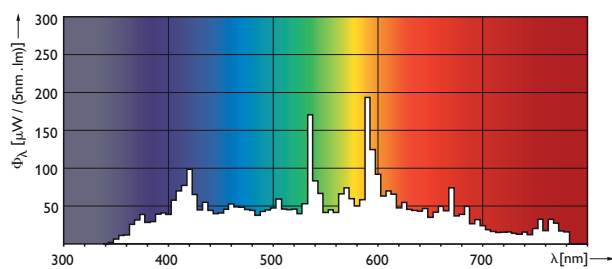
MASTER SDW-TG Mini



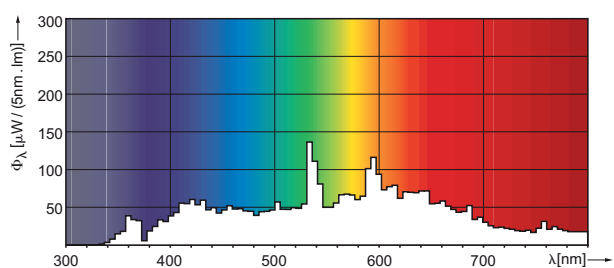
MASTER SDW-T



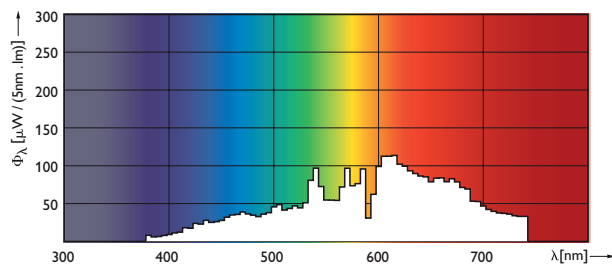
MHN-TD 70W & 150W



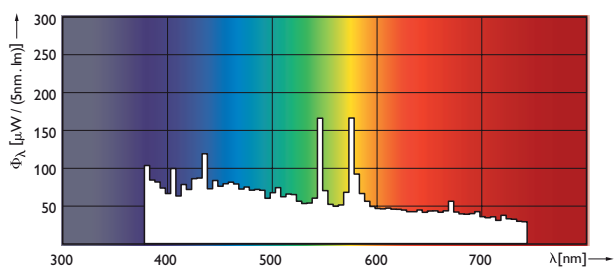
CDM-SA/R & CDM-SA/T /942



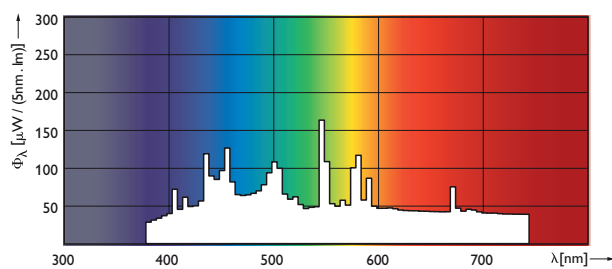
Ceramic ST 250W HR



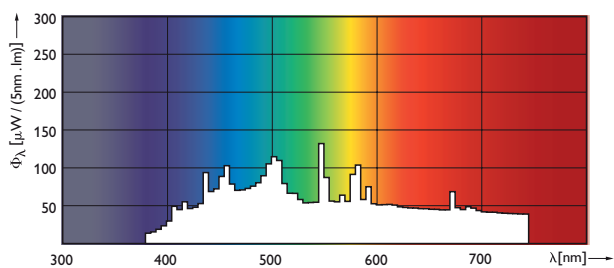
Ceramic ST 500W



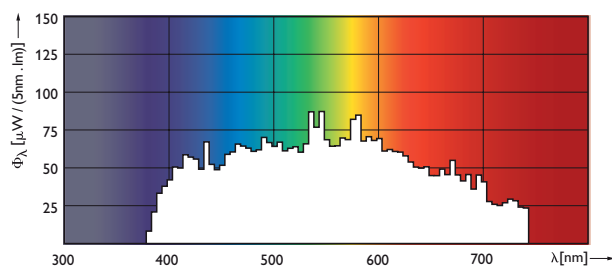
MSA 300



MSA 600



MSA 2500 DE



High Intensity Discharge Lamps

Guide to uplamping for High Intensity Discharge lamps

Ever since the company was started in 1891, Philips Lighting has developed and launched many thousands of innovative and important products. With so many products to choose from, this handy and practical 'Guide to better lamps', makes it simpler to make the right choice.

Current product

HPL



Energy efficient alternative

Philips BeneKit

Energy savings	up to 40%
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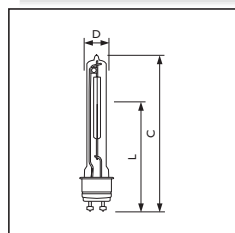


For more uplamping possibilities, visit www.philips.com/catalog



asimpleswitch.com

Outdoor Ceramic White Light MASTER CosmoWhite CPO-TW



Dim. no.	C max.	D nom.	L nom.	O nom.
1	132	19	59	15
2	143	19	66	18
3	147	19	66	20

Product Description

- New-generation ceramic metal halide lamps for outdoor lighting with white light, using a new lamp base and clear quartz outer bulb

Product Features

- Extreme high energy efficiency
- Unique new burner design and positioning in combination with best lamp fixation (PGZ12)
- Compact size: 50% smaller than SON/HPL systems
- New electronic gear platform meets the most demanding public lighting requirements

Product Benefits

- Attractive white light
- Best optical efficacy allows greater spacing between luminaires, thereby reducing investment
- Highest energy saving and lowest cost of ownership
- Lower our energy cost with 10-150% compared with today's light sources for outdoor applications

- Compact size & unique burnershape allows optimized optic and luminaire design
- Optimal lamp service lifetime and energy savings initially and over lifetime
- Robust, dedicated outdoor electronic Xtreme gear for long and reliable operation, ensuring future-proof outdoor installation

Environment

- Philips Green Flagship product with high efficacy minimizes environmental impact and CO₂ emission:
 - Good environmental choice due to highest energy efficiency in combination with compact white light
 - Compact size for low material and packaging use
 - RoHS compliant (lead-free), very low mercury content (max. 2.5 mg), covered by WEEE

Application

- Urban Public Lighting for city centers, residential areas and roads

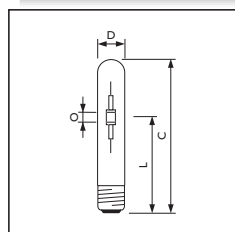
System

- Designed for use with electronic gear only
- Lamps and gear developed together to ensure optimal system operation for:
 - Lowest system energy initially and over lifetime
 - Robust, long-life outdoor-proof installation (lightning strike and peak voltage protection)

MASTER CosmoWhite CPO-TW PGZ12 Clear

Wattage/Colour Code	Lamp Luminous Flux EL	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(lm)	(h)								
45W/628	4300	18000	any	1	1CT / 12	12	45CPOTW628	211194 15	248.64	yes
60W/728	6800	18000	any	1	1CT / 12	12	60CPOTW728	208514 15	248.64	yes
90W/728	10450	30000	any	2	1CT / 12	12	90CPOTW728	211217 15	306.68	yes
140W/728	16500	30000	any	3	1CT / 12	12	140CPOTW728	208538 15	387.50	yes

MASTER CityWhite CDO-TT



Dim. no.	C max.	D nom.	L max.	O nom.
1	152	32.5	104	5
2	156	31	102	7
3	209	47	132	7
4	211	47	132	9
5	255	47	157	21.3

Product Description

- Ceramic metal halide Outdoor with clear tubular outer bulb

Product Features

- Robust lamp with long lifetime
- Directly retrofit on HPS (SON) installations for upgrade from yellow to white light
- Good colour rendering and harmonized warm white colour temperature

Product Benefits

- Reduced cost of ownership compared to predecessor MASTER Colour City CDM-TT
- Comfortable warm colour impression with stable colour over lifetime

- Flexible light levels and reduced energy consumption possible via dimming option
- Upgrade for existing HPL installations with gear exchange

Environment

- Good environmental choice because of high energy efficiency in white light
- This product is RoHS compliant
- This product is covered by WEEE

Application

- City centres, shopping centres and pedestrian areas, residential areas, road lighting and floodlighting

Luminaires

- In the highly unlikely event of lamp breakage by incorrect use, vandalism or end of life effects, the luminaire housing should be able to contain heated glass, metal and/or ceramic particles

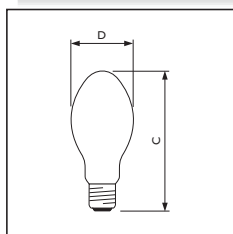
System

- Must be used with a SON ballast and SON ignitor
- Warm restart time can be up to 15 minutes. T15 ignitors are therefore advised
- Dimming only possible with electronic gear, DynaVision 1-10V
- Achieves optimal performance on Philips PrimaVision electronic gear

MASTER CityWhite CDO-TT Clear

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece	
		(lm)	(h)							(£)	
50W/828	ES	4150	18000	any	1	1SL / 12	12		8727900 800296 00		
70W/828	ES	6300	18000	any	2	1SL / 12	12	70CDOET828	8711500 205469 15	202.76	yes
100W/828	GES	8800	20000	any	3	1SL / 12	12	100CDOET828	8711500 206817 15	231.27	yes
150W/828	GES	13500	20000	any	4	1SL / 12	12	150CDOET828	8711500 205360 15	248.12	yes
250W/828	GES	22500	12000	any	5	1SL / 12	12	250CDOET828	8711500 209054 15	305.67	yes

MASTER CityWhite CDO-ET



Dim. no.	C max.	D max.
1	156	71
2	186	75
3	230	91

Product Description

- Ceramic metal halide Outdoor with opalized ovoid outer bulb

Product Features

- Robust lamp with long lifetime
- Directly retrofit on HPS (SON) installations for upgrade from yellow to white light
- Good colour rendering and harmonized warm white colour temperature

Product Benefits

- Reduced cost of ownership compared to predecessor MASTER Colour City CDM-ET
- Comfortable warm colour impression with stable colour over lifetime

- Flexible light levels and reduced energy consumption possible via dimming option

- Upgrade for existing HPL installations with gear exchange

Environment

- Good environmental choice because of high energy efficiency in white light
- This product is RoHS compliant
- This product is covered by WEEE

Application

- City centres, shopping centres and pedestrian areas, residential areas, road lighting and floodlighting

Luminaires

- In the highly unlikely event of lamp breakage by incorrect use, vandalism or end of life effects, the luminaire housing should be able to contain heated glass, metal and/or ceramic particles

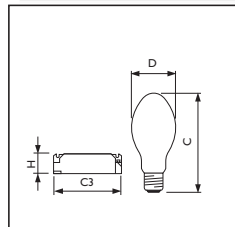
System

- Must be used with a SON ballast and SON ignitor
- Warm restart time can be up to 15 minutes. T15 ignitors are therefore advised
- Dimming only possible with electronic gear, DynaVision 1-10V
- Achieves optimal performance on Philips PrimaVision electronic gear

MASTER CityWhite CDO-ET Coated

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece	
		(lm)	(h)							(£)	
70W/828	ES	5600	18000	any	1	1SL / 24	24	70CDOET828	205445 30	202.76	yes
100W/828	GES	8300	20000	any	2	1SL / 24	24	100CDOET828	206794 30	231.27	yes
150W/828	GES	12500	20000	any	3	1SL / 12	12	150CDOET828	205483 15	248.12	yes

BeneKit



Dim. no.	C max.	C3 nom.	D max.	H nom.
1	156	150	71	40
2	156	118	71	52

Product Description

- BeneKit is a money-saving lamp and gear conversion kit that contains a MASTER CityWhite lamp and all the electrical control gear needed to operate the lamp

Product Features

- A single box with all the lamp and gear components to convert many old-technology, inefficient mercury vapour luminaires to high-efficiency MASTER CityWhite technology
- MASTER CityWhite lamps have higher efficiency and produce high-quality, white light
- Electronic gear options available

Product Benefits

- Improved efficiency and quality of light
- High-quality white light makes areas seem much more natural and pleasant to be in after dark
- Lower energy use means lower running costs and lower CO₂ emissions, benefiting both budgets and the environment

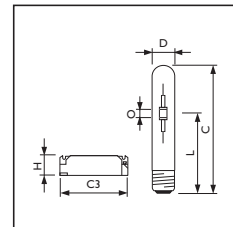
Environment

- Low energy use means lower CO₂ emissions, reducing pollution and helping the environment

Application

- Ideal for upgrading old-technology mercury vapour systems in luminaires that do not yet need replacement (typically ten to twenty years old)

- Also suitable for upgrading 'heritage' luminaires or those with a significant design
- Luminaires must be 'closed' type due to use of MASTER CityWhite metal halide lamps
- Ideal for installations where energy savings and environmental improvements are needed but where new luminaires are not yet possible or practical

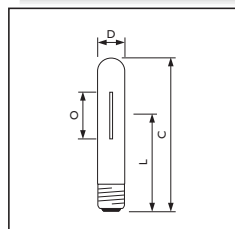


Dim. no.	C max.	C3 nom.	D max.	H nom.
3	156	118	32.5	52

BeneKit ES

Wattage/ Colour Code	Bulb Finish	Lamp Luminous Flux EL	Lamp Lumi- nous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing confi- guration	Packs per outer box	National Order Code	Ordering number 8711500...	
		(lm)	(lm)	(h)							
70W/828	Coated	5600		14000	any	1	KIT / 4	4	70CDOET828ELKIT	212986 45	yes
70W/828	Coated		5600	14000	any	2	KIT / 4	4	70CDOET828EMKIT	212962 45	yes
70W/828	Clear		6300	14000	any	3	KIT / 4	4	70CDOTT828EMKIT	213006 45	yes

SON High Pressure Sodium MASTER SON-T PIA Plus



Dim. no.	C max.	D max.	L nom.	O nom.
1	156	32	102	35
2	156	32	102	42
3	210	48	132	47
4	210	48	132	61
5	283	48	175	83
6	283	47	174.2	126

Product Description

- High Pressure Sodium lamp with clear tubular outer bulb, high output and long reliable lifetime

Product Features

- Clear tubular outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- ZrCo getter ensures high lumen maintenance and few early failures

- "Plus" concept with high efficacy translated into high light output
- Completely lead-free lamps

Product Benefits

- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- High energy efficacy and absence of lead (Pb) makes this a sound environmental offer
- High luminous efficacy makes this the most energy efficient HPS lamp

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

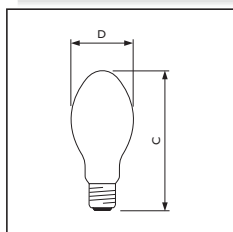
Application

- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities Outdoor and Indoor
- Horticultural lighting

MASTER SON-T PIA Plus External Ignitor 230V Clear

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
50W/220	ES	4400	28000	any	1	1SL / 12	12	50SONTPLUS	192653 15	132.81	yes
70W/220	ES	6600	28000	any	2	1SL / 12	12	70SONTPLUS	192660 15	132.81	yes
100W/220	GES	10700	32000	any	3	1SL / 12	12	100SONTPLUS	192301 15	154.05	yes
150W/220	GES	17500	32000	any	4	1SL / 12	12	150SONTPLUS	192295 15	161.78	yes
400W/220	GES	56500	32000	any	5	1SL / 12	12	400SONTPLUS	179883 15	284.41	yes
600W/220	GES	90000	28000	any	6	1SL / 12	12	600SONTPLUS	197429 15	399.56	yes

MASTER SON PIA Plus



Dim. no.	C max.	D max.
1	152	70
2	186	76
3	227	91
4	290	122

Product Description

- High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

Product Features

- Ovoid, internally white coated outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- ZrCo getter ensures high lumen maintenance and few early failures

- "Plus" concept with high efficacy translated into high light output
- Completely lead-free lamps

Product Benefits

- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- High energy efficacy and absence of lead (Pb) makes this a sound environmental offer
- High luminous efficacy makes this the most energy efficient HPS lamp

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

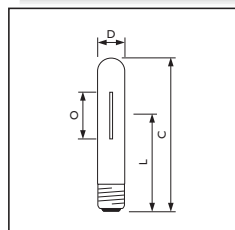
Application

- Road and residential lighting
- Industrial lighting both indoor and outdoor
- Recreational sports facilities Outdoor and Indoor

MASTER SON PIA Plus Coated

Wattage/Colour Code	System Description	Cap-Base	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
70W/220	Internal Ignitor	ES	5900	28000	any	1	1SL / 24	24	70SONIPLUS	204264 30	132.81	yes
100W/220	External Ignitor	GES	10200	32000	any	2	1SL / 12	12	100SONPLUS	182258 15	154.05	yes
150W/220	External Ignitor	GES	17000	32000	any	3	1SL / 12	12	150SONPLUS	182289 15	161.78	yes
250W/220	External Ignitor	GES	31100	32000	any	3	1SL / 12	12	250SONPLUS	193445 15	221.18	yes
400W/220	External Ignitor	GES	55500	32000	any	4	1SL / 12	12	400SONPLUS	193452 15	284.41	yes

MASTER SON-T PIA Hg-Free



Dim. no.	C max.	D max.	L nom.	O nom.
1	211	47	132	73
2	257	47	158	82

Product Description

- High Pressure Sodium lamp with clear tubular outer bulb, long reliable lifetime and no Mercury

Product Features

- Clear tubular outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life

- ZrCo getter ensures high lumen maintenance and few early failures
- Completely mercury (Hg) and lead-free lamps

Product Benefits

- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- Absence of mercury and lead makes this an environmentally sound offer

Environment

- Good environmental choice because of high energy efficiency, long reliable life and mercury free

- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities Outdoor and Indoor

MASTER SON-T PIA Hg-Free External Ignitor GES 230V Clear

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
150W/221	15000	32000	any	1	1SL / 12	12	150SONTMF	200617 15	154.41	yes
250W/221	28000	32000	any	2	1SL / 12	12	250SONTMF	200594 15	211.14	yes

MASTER GreenPower



Product Description

- High Pressure Sodium lamp with clear outer bulb, high lumen maintenance and optimised micromol output

Product Features

- Clear tubular outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- ZrCo getter ensures high lumen maintenance and few early failures
- "Green Power" concept with optimised micromol output (growth light)
- "Plus" concept with high efficacy translated into high light output

Product Benefits

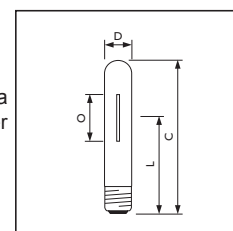
- Optimised performance for horticultural applications
- High lumen maintenance safeguards a constant crop quality and quantity over life

Environment

- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Horticultural applications, plant irradiation



Dim. no.	C max.	D max.	L nom.	O nom.
1	275	46	175	83
2	275	46	166	102

MASTER GreenPower External Ignitor GES 230V Clear

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
400W/220	58500	any	1	1SL / 12	12	400SONTGP	201966 15	290.65	yes
600W/220	88000	any	2	1SL / 12	12	600SONTGP	202024 15	424.81	yes

SON-T



Product Description

- High Pressure Sodium lamp with clear tubular outer bulb

Product Features

- Clear tubular outer bulb
- High luminous efficacy
- Robust construction is vibration- and shock-resistant leading to a reliable life
- Dimming possible with dedicated gear

Product Benefits

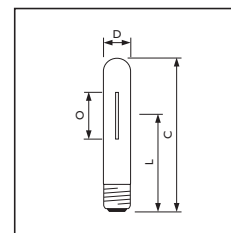
- SON-T Pro is a cost-efficient and reliable solution in High Pressure Sodium

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications
- Recreational sports facilities Outdoor and Indoor



Dim. no.	C max.	D max.	L nom.	O nom.
1	156	32	102	42
2	210	48	132	44
3	210	48	132	61
4	257	48	158	70
5	283	48	175	87
6	390	67	240	153

SON-T External Ignitor Clear

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
70W/220	ES	6000	24000	any	1	1SL / 12	12	70SONT	192677 15	116.35	yes
100W/220	GES	9000	28000	any	2	1SL / 12	12	100SONT	202413 15	116.35	yes
150W/220	GES	15000	28000	any	3	1SL / 12	12	150SONT	192271 15	141.73	yes
250W/220	GES	28000	28000	any	4	1SL / 12	12	250SONT	179838 15	193.78	yes
400W/220	GES	48000	28000	any	5	1SL / 12	12	400SONT	179845 15	249.15	yes
1000W/220	GES	130000	16000	any	6	1SL / 4	4	1000SONT	184122 45	427.91	yes

SON



Product Description

- High Pressure Sodium lamp with opalized ovoid outer bulb

Product Features

- Ovoid, internally white coated outer bulb
- High luminous efficacy
- Robust construction is vibration- and shock-resistant leading to a reliable life
- Dimming possible with dedicated gear

Product Benefits

- SON Pro is a cost-efficient and reliable solution in High Pressure Sodium

Environment

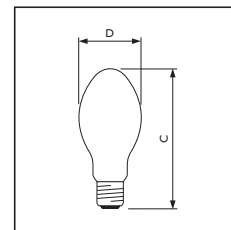
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications

System

- Require a ballast and ignitor, except for SON 50W/70W I lamps which have an internal ignitor



Dim. no.	C max.	D max.
1	156	71
2	186	75
3	227	91
4	290	122
5	400	166.5

SON Coated

Wattage/Colour Code	System Description	Cap-Base	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
50W/220	External Ignitor	ES	3500	24000	any	1	1SL / 24	24	50SONE	181954 30	116.35	yes
50W/220	Internal Ignitor	ES	3400	24000	any	1	1SL / 24	24	50SONI	181893 30	116.35	yes
70W/220	External Ignitor	ES	5600	24000	any	1	1SL / 24	24	70SONE	181923 30	116.35	yes
70W/220	Internal Ignitor	ES	5600	24000	any	1	1SL / 24	24	70SONI	181862 30	116.35	yes
100W/220	External Ignitor	GES	8500	28000	any	2	1SL / 12	12	100SON	202390 15	116.35	yes
150W/220	External Ignitor	GES	14500	28000	any	3	1SL / 12	12	150SON	182012 15	141.73	yes
250W/220	External Ignitor	GES	27000	28000	any	3	1SL / 12	12	250SON	182043 15	193.78	yes
400W/220	External Ignitor	GES	48000	28000	any	4	1SL / 12	12	400SON	181985 15	249.15	yes
1000W/220	External Ignitor	GES	130000	16000	any	5	1SL / 6	6	1000SON	184153 10	427.91	yes

SON-T Comfort



Product Description

- High Pressure Sodium lamp with clear tubular outer bulb and a comfortable colour impression

Product Features

- Clear tubular outer bulb
- Warm white colour temperature and acceptable colour rendering to create a pleasant ambience
- Robust construction is vibration- and shock-resistant leading to a reliable life

Product Benefits

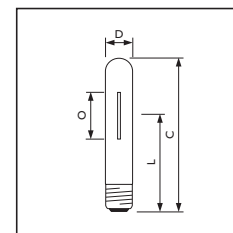
- The ideal balance between colour impression and energy efficacy

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

- City centres and residential areas
- Decorative floodlighting
- Commercial and industrial applications
- Recreational sports facilities Outdoor and Indoor



Dim. no.	C max.	D max.	L nom.	O nom.
1	211	47	132	43
2	257	47	158	53
3	283	47	175	59

SON-T Comfort External Ignitor GES Clear

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
150W/621	13000	20000	any	1	1SL / 12	12	150SONTCOM	192288 15	165.82	yes
250W/621	23000	20000	any	2	1SL / 12	12	250SONTCOM	179852 15	177.17	yes
400W/621	38000	20000	any	3	1SL / 12	12	400SONTCOM	179869 15	213.43	yes

SON Comfort



Product Description

- High Pressure Sodium lamp with opalized, ovoid outer bulb and a comfortable colour impression

Product Features

- Ovoid, internally white coated outer bulb
- Warm white colour temperature and acceptable colour rendering to create a pleasant ambience
- Robust construction is vibration- and shock-resistant leading to a reliable life

Product Benefits

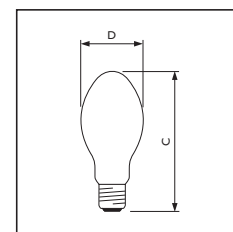
- The ideal balance between colour impression and energy efficacy

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

- City centres and residential areas
- Commercial and industrial applications



Dim. no.	C max.	D max.
1	227	91
2	290	122

SON Comfort External Ignitor GES Coated

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
150W/621	12500	20000	any	1	1SL / 12	12	150SONCOM	182166 15	165.82	yes
250W/621	22000	20000	any	1	1SL / 12	12	250SONCOM	182197 15	217.84	yes
400W/621	37000	20000	any	2	1SL / 12	12	400SONCOM	182227 15	290.92	yes

SON H



Product Description

- High Pressure Sodium lamp with opalized outer bulb retrofit for High Pressure Mercury lamps

Product Features

- Direct replacement for mercury lamps as they operate on the same control gear
- High luminous efficacy
- Robust construction is vibration- and shock-resistant leading to a reliable life

Product Benefits

- Instant and cost-effective upgrade of light level and reduction of energy use replacing HPL

Environment

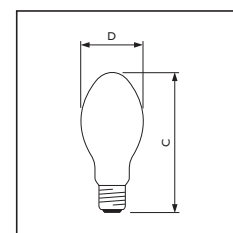
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Commercial and industrial applications

System

- Require an HPL ballast without ignitor

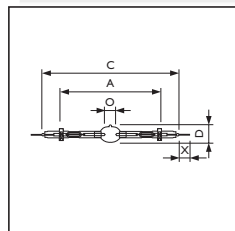
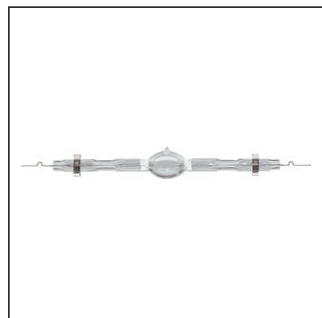


Dim. no.	C max.	D max.
1	164.4	71
2	162	71
3	227	91
4	290	122

SON H 220V Coated

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
68W/220	ES	5000	28000	any	1	1SL / 24	24	68SONH	213990 30		yes
110W/220	ES	9600	20000	any	2	1SL / 24	24	110SONH	201867 30	104.25	yes
220W/220	GES	20000	20000	any	3	1SL / 12	12	220SONH	182074 15	206.80	yes
350W/220	GES	34000	20000	any	4	1SL / 12	12	350SONH	182135 15	250.86	yes

MH/HPI Metal Halide MASTER MHN-SA



Dim. no.	A nom.	C max.	D max.	O nom.	X nom.
1	318	369	41	25	25

Product Description

- Compact quartz metal halide lamps with double-pinch

Product Features

- Very compact source (Short Arc) with high luminous efficacy and superior colour rendering
- Double-pinch concept results in long lifetime
- Natural white colour appearance, high colour rendering and good colour stability
- Daylight colour temperature eases transition from daylight to artificial lighting

Product Benefits

- Allows compact and very efficient luminaire systems with high precision optics for good beam control and minimal spill light
- Very good colour rendering creates a pleasant ambience with high visual comfort for players and spectators
- Continuous spectral distribution offers a superior solution for (semi-) professional stadiums with regular TV coverage

Environment

- This product is RoHS compliant

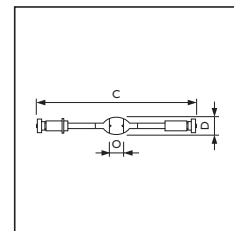
- This product is covered by WEEE

Application

- Professional sports lighting and floodlighting

Luminaires

- MHN-SA lamps require UV-absorbing and protective front glass and correct thermal behaviour for optimal lamp performance



Dim. no.	C max.	D max.	O nom.
2	364	41	25

MASTER MHN-SA Clear

Wattage/Colour Code	Cap-Base	Voltage	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(V)	(lm)	(h)							(£)	
1800W/956	X830R	230	155000	5000	p15	1	UNP / 1	1	1800MHN-SA956R	201065 00	676.05	yes
1800W/956	(P)SFC	230	155000	5000	p15	2	UNP / 1	1	1800MHN-SA956	200754 00	676.05	yes
1800W/956	(P)SFC	400	160000	5000	p15	2	UNP / 1	1	4151800MHN-SA956	200761 00	676.05	yes
2000W/956	X830R	400	200000	5000	p15	1	UNP / 1	1	2000MHN-SA956	200792 00	676.05	yes

MASTER MHN-LA



Product Description

- Compact quartz metal halide lamps with double-pinch

Product Features

- Compact source (Long Arc) with high luminous efficacy
- Double-pinch concept results in long lifetime
- Natural white colour appearance, high colour rendering and good colour stability
- Daylight colour temperature eases transition from daylight to artificial lighting

Product Benefits

- Allows compact and efficient luminaire systems with precision optics for good beam control and minimal spill light
- Good colour rendering creates a pleasant ambience with high visual comfort for players and spectators

- Continuous spectral distribution offers options for semi-professional stadiums and for professional stadiums with regular TV coverage

Environment

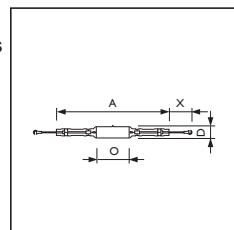
- This product is RoHS compliant.
- This product is covered by WEEE

Application

- Professional and semi-professional sports lighting and floodlighting

Luminaires

- MHN-LA lamps require UV-absorbing and protective front glass and correct thermal behaviour for optimal lamp performance

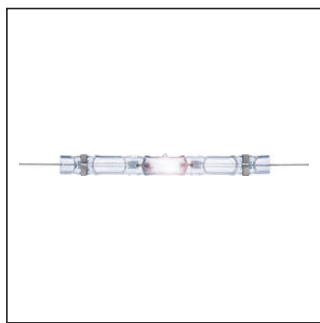


Dim. no.	A nom.	D max.	O nom.	X nom.
1	294	40	40.5	35
2	364	40	108	58

MASTER MHN-LA Clear

Wattage/Colour Code	Cap-Base	Voltage	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(V)	(lm)	(h)							(£)	
1000W/842	X528	230	100000	10000	p5	1	UNP / 1	1	1000MHN-LA842	200785 00	485.76	yes
1000W/956	X528	230	90000	10000	p5	1	UNP / 1	1	1000MHN-LA956	200778 00	500.78	yes
2000W/842	X528	400	220000	12000	p5	2	UNP / 1	1	2000MHN-LA842	200747 00	530.83	yes
2000W/956	X528	400	190000	12000	p5	2	UNP / 1	1	2000MHN-LA956	200730 00	545.84	yes

MASTER MHN-FC



Product Description

- Compact quartz metal halide lamps with double pinch

Product Features

- Double-pinch concept results in long lifetime
- Choice of 1000W and 2000W types
- Natural white color appearance
- Compact light source allows small luminaire design

Product Benefits

- Allows compact luminaire systems with precision optics for minimal light spill
- Good color rendering creates a pleasant ambience with high visual comfort for players and spectators

- Continuous spectral distribution offers options for semi-professional stadiums and professional stadiums with regular TV coverage

Environment

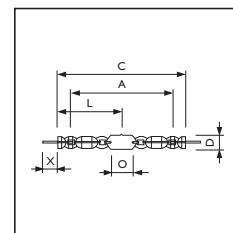
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Recreational sports and area floodlighting

Luminaires

- MHN-FC lamps require a protective, UV-absorbing front glass and correct thermal behavior for optimal lamp performance



Dim. no.	A	C	D	L	O	X
nom.	max.	nom.	nom.	nom.	nom.	
1	226	290	25.5	144	42.5	58
2	290	357	25.5	177	108	58

MASTER MHN-FC Double Ended Clear

Wattage/Colour Code	Voltage	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(V)	(lm)	(h)							(£)	
1000W/740	230	93000	12000	p5	1	UNP / 1	1	MHNFC1000W740	214249 00		yes
2000W/740	400	210000	14000	p5	2	UNP / 1	1	2000MHNFC740	213495 00	422.02	yes

MHN-SB



Product Description

- Compact quartz metal halide lamp with single pinch

Product Features

- Compact source (Short Base lamp dimensions) with short electrode distance and high luminous efficacy
- Single pinch concept with long lifetime
- Natural white colour appearance, good colour rendering and stability
- Daylight colour temperature eases transition from daylight to artificial lighting

Product Benefits

- Allows compact and efficient luminaire systems with precision optics for good beam control and minimal light spill

- Long lifetime and high reliability in Short Base outer dimensions to minimise service needs and maintenance costs
- Good colour rendering for a pleasant ambience with high visual comfort

Environment

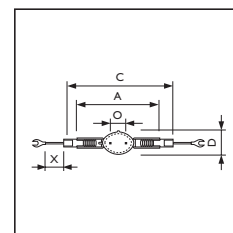
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Semi-professional sports, area and floodlighting

Luminaires

- Requires UV-absorbing and protective front glass
- Correct thermal conditions are required for optimal lamp performance

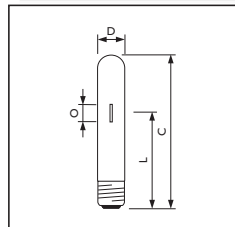


A	C	D	O	X
nom.	min.	max.	nom.	nom.
157	187	41	25	50

MHN-SB 400V Clear

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(lm)	(h)						(£)	
2000W/956	Cable	200000	3000	p15	UNP / 1	1	2000MHN-SB956	206732 00	676.05	yes

HPI-T



Dim. no.	C max.	D max.	L nom.	O nom.
1	382	66	240	80

Product Description

- Quartz metal halide lamps with clear outer bulb

Product Features

- Clear tubular outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Renders a natural white colour appearance and good colour stability

Product Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost

Environment

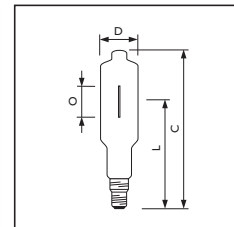
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Sports lighting, floodlighting of buildings and monuments, area lighting e.g. harbours and building sites

Luminaires

- HPI-T lamps require a protective front glass



Dim. no.	C max.	D max.	L nom.	O nom.
2	430	101.5	267	120
3	430	102	290	89

HPI-T GES Clear

Wattage/Colour Code	Voltage (V)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
1000W/643	220	85000	12000	p20	1	CRP / 4	4	1000HPIT	183736 45	543.55	yes
2000W/642	380	210000	12000	p20	2	CRP / 4	4	4152000HPITN	202352 45	822.65	yes
2000W/646	220	189000	12000	p75	3	CRP / 4	4	2000HPIT	183767 45	822.65	yes

MASTER HPI-T Plus



Product Description

- Quartz metal halide lamps with clear outer bulb

Product Features

- Clear tubular outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Renders a natural white colour appearance and good colour stability

Product Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with "Plus"-concept

Environment

- Good environmental choice because of long service life

- This product is RoHS compliant
- This product is covered by WEEE

Application

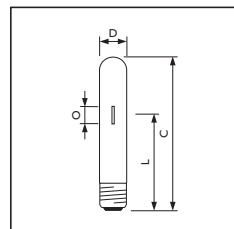
- Sports lighting, floodlighting of buildings and monuments, area lighting e.g. harbours and building sites, canopy lighting e.g. petrol stations, horticultural lighting

Luminaires

- HPI-T Plus lamps require a protective front glass

System

- Can be run on HPI-gear as well as on SON-gear ("Plus"-concept). The results in both light output and colour temperature are different

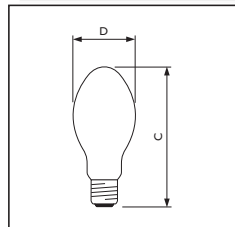


Dim. no.	C max.	D max.	L nom.	O nom.
1	257	47	158	29
2	286	47	172	40

MASTER HPI-T Plus GES Clear

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
250W/645	20500	20000	p20	1	1SL / 12	12	250HPITPLUS	179890 15	208.59	yes
400W/645	35000	20000	p20	2	1SL / 12	12	400HPITPLUS	179906 15	265.90	yes

MASTER HPI Plus



Dim. no.	C max.	D max.
1	226	91
2	284	122
3	290	122

Product Description

- Quartz metal halide lamps with opalized outer bulb

Product Features

- Ovoid, internally white coated outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Available in cool white and daylight colour appearance demonstrating good colour stability
- "S"-type for direct retrofit for HPL lamps
- "P"-type for use without protective front shield

Product Benefits

- High safety and comfort level, maintained over life

- Minimal maintenance cost
- Initial investment saving options with "Plus"-concept and "S" and "P"-types
- Adjustable atmosphere creation by using appropriate colour temperature

Environment

- Good environmental choice because of long service life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- High bay lighting, e.g. industrial workshops, exhibition halls, supermarkets, shopping malls, DIY stores, churches, airports and train stations

Luminaire

- HPI Plus BU-P and BUS-P suitable for use in open luminaires
- For other HPI Plus lamps a protective front glass is required
- In case of use in a luminaire originally designed for SON lamps, the luminaire must be verified for suitability of HPI lamps on topics as heat, spectral power resistance and consequences for degassing

System

- Can be run on HPI-gear as well as on SON-gear ("Plus"-concept). The results in both light output and colour temperature are different
- HPI Plus BUS and BUS-P types require an HPL-ballast and no ignitor

MASTER HPI Plus GES

Wattage/ Colour Code	System Description	Bulb Finish	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
			(lm)	(h)								
250W/745	Base-Up	Coated	18000	20000	h15	1	1SL / 12	12	250HPIPLUSBU	181145 15	215.94	yes
250W/745	Base-Up/Protected	Coated	18000	20000	h15	1	1SL / 12	12	250HPIPLUSBUP	211477 15	226.24	yes
250W/767	Base-Up	Coated	18000	20000	h15	1	1SL / 12	12	250HPIPLUSDBU	207395 15	226.74	yes
400W/745	Base-Up	Coated	32500	20000	h15	2	1SL / 6	6	400HPIPLUSBU	182524 10	267.12	yes
400W/745	Base-Up/Protected	Coated	32500	20000	h15	3	1SL / 6	6	400HPIPLUSBUP	211439 10	291.41	yes
400W/767	Base-Up	Coated	32500	20000	h15	3	1SL / 6	6	400HPIPLUSDBU	207371 10	280.48	yes
400W/745	Base-Up/internal Starter	Coated	32500	20000	h15	3	1SL / 6	6	400HPIPLUSBUS	181114 10	279.15	yes
400W/745	Base-Up/internal Starter/Protected	Coated	32500	20000	h15	3	1SL / 6	6	400HPIPLUSBUSP	211453 10	304.08	yes

SOX Low Pressure Sodium SOX



Product Description

- Low Pressure Sodium lamp

Product Features

- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

Product Benefits

- High luminous efficacy leads to low energy consumption

Environment

- This product is RoHS compliant

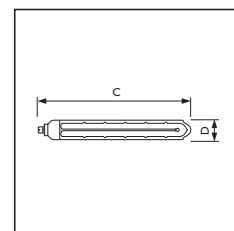
- This product is covered by WEEE

Application

- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting

System

- On HF electronic gear SOX have even higher efficacy, saving up to 40% (system) energy



C max.	D max.
1120	66

SOX BY22d

Wattage/ Colour Code	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(lm)	(h)							
180	32000	18000	p20	1SL / 6	6	180SOXOLD	179814 10	292.39	yes

SOX Plus



Product Description

- Low Pressure Sodium lamp with warranty

Product Features

- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

Product Benefits

- High luminous efficacy leads to low energy consumption
- Warranty gives less hassle and less unexpected early maintenance cost

Environment

- This product is RoHS compliant

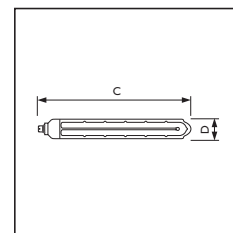
- This product is covered by WEEE

Application

- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting

System

- On HF electronic gear SOX have even higher efficacy, saving up to 40% (system) energy



Dim. no.	C max.	D max.
1	311	52
2	425	52
3	528	66
4	775	66

SOX Plus BY22d

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
35	4550	18000	h110	1	1SL / 12	12	35SOXPLUS	194695 15	137.97	yes
55	7800	18000	h110	2	1SL / 12	12	55SOXPLUS	194718 15	161.03	yes
90	13700	18000	p20	3	1SL / 12	12	90SOXPLUS	194732 15	195.47	yes
135	22600	18000	p20	4	1SL / 12	12	135SOXPLUS	194756 15	253.03	yes

HPL High Pressure Mercury HPL Comfort



Product Description

- High pressure mercury lamp with improved colour properties and light output

Product Features

- Equipped with 1 or 2 auxiliary electrodes to ensure quick and reliable ignition
- Special internal coating, providing warm white light with increased colour rendering
- Higher efficacy than standard HPL

Product Benefits

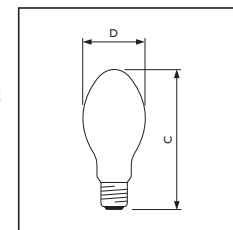
- Creates a comfortable atmosphere at limited investment
- High safety level thanks high light output

Environment

- This product is RoHS compliant
- This product is covered by WEEE

Application

- Public roads and residential areas, factories, transport sector and industrial area lighting



Dim. no.	C max.	D max.
1	130	56
2	155	71
3	173	76
4	228	91
5	290	121.5

HPL Comfort Coated

Wattage/Colour Code	Cap-Base	Bulb Material	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
50W/534	ES	Soft Glass	1800	16000	any	1	SLV / 24	24	50HPLCOM	180872 30	44.33	yes
80W/534	ES	Soft Glass	3600	16000	any	2	1SL / 24	24	80HPLCOM	180902 30	44.33	yes
125W/534	ES	Soft Glass	6200	16000	any	3	SLV / 24	24	125HPLCOM	180995 30	49.82	yes
250W/534	GES	Hard Glass	14200	16000	any	4	CRP / 12	12	250HPLCOM	181022 15	100.66	yes
400W/534	GES	Hard Glass	24200	20000	any	5	1SL / 6	6	400HPLCOM	181053 10	152.55	yes

HPL-N



Product Description

- Standard High Pressure Mercury lamp
- Equipped with 1 or 2 auxiliary electrodes to ensure quick and reliable ignition
- Single-ended gas-filled glass bulb (HG-SG) with a quartz mercury vapour discharge tube
- Internally coated ovoid outer bulb, providing a cool, bluish white light with reasonable colour qualities

Product Features

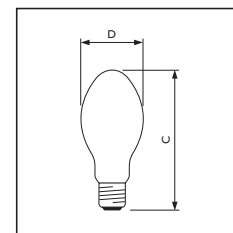
Product Benefits

- Good budget alternative
- This product is RoHS compliant
- This product is covered by WEEE

Environment

Application

- All outdoor applications, factories, transport sector and industrial area lighting



Dim. no.	C max.	D max.
1	130	56
2	155	71
3	173	76
4	184	76
5	228	91
6	290	121.5
7	328	141.5
8	399	166.5

HPL-N Coated

Wattage/Colour Code	Cap-Base	Bulb Material	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
			(lm)	(h)							(£)	
50W/542	ES	Soft Glass	1800	16000	any	1	SLV / 24	24	50HPLN	179913 30	43.51	yes
80W/542	ES	Soft Glass	3700	16000	any	2	1SL / 24	24	80ESHPLN	179975 30	43.51	yes
125W/542	ES	Soft Glass	6200	16000	any	3	SLV / 24	24	125ESHPLN	180124 30	49.21	yes
125W/542	GES	Hard Glass	6200	20000	any	4	SLV / 24	24	125GESHPLN	180308 30	53.58	yes
250W/542	GES	Hard Glass	12700	16000	any	5	1SL / 12	12	250HPLN	180605 15	99.63	yes
400W/542	GES	Hard Glass	22000	16000	any	6	1SL / 6	6	400HPLN	180452 10	153.29	yes
700W/542	GES	Hard Glass	38500	12000	any	7	1SL / 6	6	700HPLN	183910 10	280.83	yes
1000W/542	GES	Hard Glass	58500	12000	any	8	CRP / 6	6	1000HPLN	184030 10	366.11	yes

HPL-R



Product Description

- High pressure mercury lamp with internal reflector

Product Features

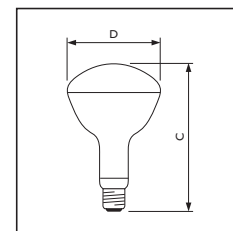
- Equipped with 1 or 2 auxiliary electrodes to ensure quick and reliable ignition
- Cone-shaped hard-glass bulb with an internal reflector directing the light to where it is needed

Product Benefits

- No reflector needed in the luminaire

Application

- High-bay in heavy industry and also sign boards and decorative floodlighting



C max.	D max.
259	162.5

HPL-R GES Hard Glass Coated

Wattage/Colour Code	Lamp Luminous Flux EM	Life to 50% failures	Burning Position	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(lm)	(h)						(£)	
250	12000	15000	any	CRP / 5	5	250HPLR	183941 26	364.98	yes

ML Mixed Light ML



Product Description

- Mixed Light lamps

Product Features

- High-pressure mercury tube in series with a tungsten filament
- Runs on mains voltage without additional gear
- Combines a continuous spectrum from the incandescent source and a line spectrum from the high-pressure mercury source

Product Benefits

- Direct retrofit for incandescent lamps

- Higher efficacy and lifetime than incandescent

Environment

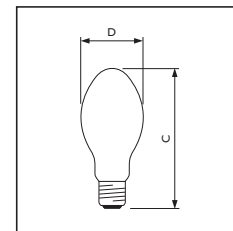
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Public outdoor lighting, car parks, workshops, garages and shops

Luminaires

- It is recommended to protect ML against water splashes
- ML lamps are not dimmable



Dim. no.	C max.	D max.
1	151	70
2	168	75

ML ES Soft Glass Coated

Wattage/Colour Code	Voltage (V)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
100	225-235	1100	10000	vbu/vbd30	1	SLV / 24	24	100ES MLL	180483 30	21.04	yes
160	235-245	3000	8000	vbu/vbd30	2	SLV / 24	24	160ESMLL	181473 30	115.47	yes

MSR Entertainment MSR Short Arc



Product Features

- Run-up time max. 2 minutes
- Restrike time 5 - 10 minutes, depending on cooling conditions
- Non-dimmable

Product Benefits

- High luminous efficacy

- Very compact arc
- Good colour rendering

Application

- Entertainment

Luminaires

- Must only be operated in closed luminaires, because of the high internal working pressure

- Luminaires must block the emitted UV radiation, with no radiation spill through ventilation slots

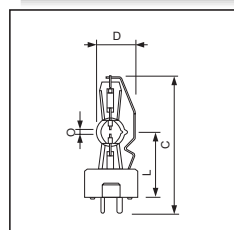
System

- Should preferably be operated on power-stabilised electronic ballasts, although magnetic ballasts can also be used

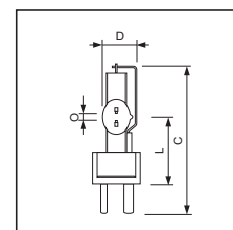


Philips Pinch Protection technology

- **Reliability**, through longer lifetime and fewer early failures,
- **Quality**, through excellent storage characteristics and consistent performance over time,
- **Compactness**, allowing more compact design of fixtures and burning positions.



Dim. no.	C max.	D max.	L nom.	O nom.
1	80	23.5	36.5	3.0
2	83	25	39	4.0



Dim. no.	C max.	D max.	L nom.	O nom.
3	135	34	59	7.0

Short Arc

Type	Wattage/ Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MSR 400 SA	400	GY9.5	30000	any	1	1CT / 4	4	MSR400SA	196149 45	732.45	yes
MSR 700 SA	700	GY9.5	55000	any	2	1CT / 4	4	MSR700SA	199492 45	851.81	yes
MSR 1200 SA	1200	GY22	96000	any	3	1CT / 4	4	MSR1200SA	200211 45	1,123.09	yes

MSR



Product Features

- Run-up time 2 minutes
- Restrike time 5 - 10 minutes, depending on cooling conditions

Product Benefits

- High luminous efficacy
- Compact arc (6 - 10 mm)

- Good colour rendering
- Dimmable with a stable colour temperature

Application

- Studios and discos

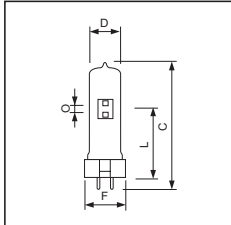
Luminaires

- Must only be operated in closed luminaires, because of the high internal working pressure

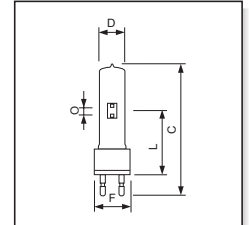
- Luminaires must block the emitted UV radiation, with no radiation spill through ventilation slots

System

- Can be operated on an electronic power supply or a magnetic ballast-ignitor combination



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
1	112	23	35	62	6.0
2	125	30	35	65	7.0



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
3	152	30	75	8.0	
4	175	40	85	10.0	

Cold Strike

Type	Wattage/ Colour Code	Cap-Base	Lamp Luminous Flux EM	Burning Position	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
			(lm)							(£)	
MSR 400	400	GX9.5	32000	any	1	1CT / 4	4	MSR400	190277 45	678.50	yes
MSR 575/2 10H	575W/2	GX9.5	49000	any	2	1CT / 4	4	MSR5752	198990 45	692.33	yes
MSR 700/2	700W/2	G22	55000	any	3	1CT / 4	4	MSR7002	200297 45	821.74	yes
MSR 1200/2	1200W/2	G22	110000	any	4	1CT / 4	4	MSR12002	200273 45	968.73	yes

MSR Hot Restrike



Product Description

- High-efficiency hot restrike metal halide lamps designed for optimum light collection

Product Features

- Run-up time 2 minutes
- Frosted top of outer bulb to avoid excessively bright centre beam in open face luminaires
- Universal burning position

Product Benefits

- High luminous efficacy

- Compact arc (5 - 20 mm)
- Excellent colour rendering
- Dimmable with a stable colour temperature

Application

- Indoor and outdoor filming
- Studios and theatres
- Professional photography
- Solar simulation

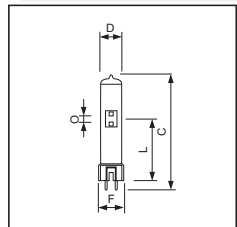
Luminaires

- Must only be operated in closed luminaires, because of the high internal working pressure

- Luminaires must block the emitted UV radiation, with no radiation spill through ventilation slots

System

- Can be operated on an electronic power supply or a magnetic ballast-ignitor combination
- Hot re-ignition is possible with a high voltage peak of 25 - 55 kV

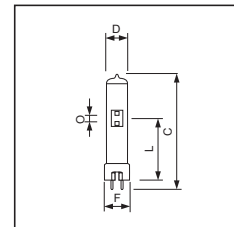


Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
1	77	17	23.5	39	4.0

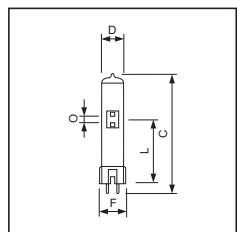


Philips Pinch Protection technology

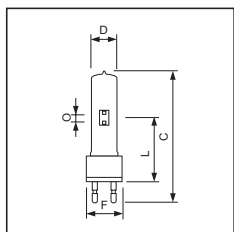
- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.



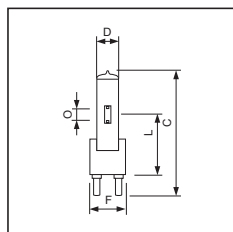
Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
2	80	20	23.5	39	5.0
3	110	23	23.5	59	5.0



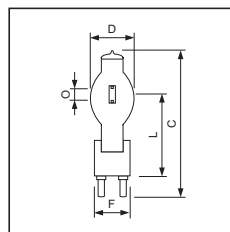
Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
4	110	23	23.5	60	6.0



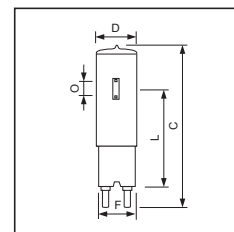
Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
5	145	30	42	70	7.0
6	145	30		70	7.0



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
7	200	40	65	107	10.0



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
8	240	60	65	127	14.0
9	255	77	65	142	20.0



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
10	378	74	62	210	24.0

Hot Restrike

Type	Wattage/ Colour Code	Cap-Base	Lamp Luminous Flux EM	Burning Position	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
			(lm)							(£)	
MSR 125 HR	125	GZX9.5	9400	any	1	1CT / 4	4	MSR125HR	194961 45	663.35	yes
MSR 200 HR	200	GZY9.5	15000	any	2	1CT / 4	4	MSR200HR	192370 45	726.76	yes
MSR 250 HR	250	GZY9.5	20000	any	3	1CT / 4	4	MSR250HR	209788 45	836.80	yes
MSR 400 HR	400	GZZ9.5	32000	any	4	1CT / 4	4	MSR400HR	194244 45	794.87	yes
MSR 575 HR	575	G22	49000	any	5	1CT / 4	4	MSR575HR	190246 45	821.74	yes
MSR 575 HR P	575	G22	49000	any	6	1CT / 4	4	MSR575HRP	192622 45	821.74	yes
MSR 1200 HR	1200	G38	110000	any	7	1CT / 4	4	MSR1200HR	191861 45	1,006.42	yes
MSR 2500 HR	2500	G38	240000	any	8	1CT / 4	4	MSR2500HR	191892 45	1,602.00	yes
MSR 4000 HR	4000	G38	380000	any	9	UNP / 1	1	MSR4000HR	194664 00	2,251.78	yes
MSR 6000 HR	6000	GY38	570000	any	10	UNP / 1	1	MSR6000HR	200938 00	7,024.73	yes

High Intensity Discharge Lamps

MSR HR/P



Lamp:

- High-efficiency hot-restrike metal halide lamps designed for optimum light collection

Features:

- Run-up time 2 minutes

Benefits:

- High luminous efficacy
- Compact arc
- High luminance
- Excellent colour rendering
- Dimmable with a stable colour temperature

Applications:

- Overhead projection

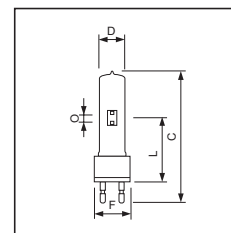
- Video projection

Luminaire:

- Must only be operated in closed luminaires, because of the high internal working pressure
- Luminaires must block the emitted UV radiation, with no radiation spill through ventilation slots

Gear:

- Can be operated on an electronic power supply or a magnetic ballast-ignitor combination
- Hot re-ignition is possible with a high voltage peak of 25 - 30 kV



C	D	L	O
max.	max.	nom.	nom.
145	30	70	7.0

Hot Restrike G22

Type	Wattage/Colour Code	Lamp Luminous Flux EM	Burning Position	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(lm)						(£)	
MSR 575 HR P	575	49000	any	1CT / 4	4	MSR575HRP	192622 45	821.74	yes

MSR Gold™ SA Double Ended



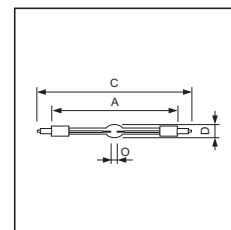
Product Features

- Philips Pinch Protection
- MSR filling
- Gold plated lamp caps

Product Benefits

- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time

- Pure, white light; color point close to black body line. Consistent color impression over MSR Range
- Reduces early lamp or lamp holder failures



Dim. no.	A nom.	C max.	D max.	O nom.
1	114.8	136	22	7.0
2	114.8	136	23	7.0



Philips Pinch Protection technology

- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.

SA/DE SFC10-4

Type	Wattage/Colour Code	Lamp Luminous Flux EM	Burning Position	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(lm)							(£)	
MSR Gold™ 1200 SA/DE	1200	109000	any	1	UNP / 1	1	MSI1200S	203496 00		yes
MSR Gold™ 1510 SA/DE	1500	140000	any	2	1CT / 4	4	MSR1510SADE	213365 45	1,382.47	yes

MSR Gold™ FastFit



Product Description

- FastFit is also available in MSD Gold™, Ceramic ST and Halogen.

Product Features

- Philips FastFit
- Very short arc
- Compact design
- Flexible power range
- Philips pinch protection

- Innovative gold plated pins
- MSR filling

Product Benefits

- Lamp replacement in just seconds, exchangeable with halogen lamp
- High beam intensity
- Easy handling, smaller and lighter fixtures possible
- Boostable light levels

- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
- Reduces early lamp or lamp holder failures. Excellent current transfer
- Pure, white light; color point close to black body line

FastFit PGJX50

Type	Wattage/Colour Code	Lamp Luminous Flux EM	Burning Position	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece	
		(lm)						(£)	
MSR Gold™ 700/2 FastFit	700W/2	50000	any	1CT / 4	4	MSR700/2FASTFIT	300680 45	234.47	yes
MSR Gold™ 700 FastFit	700	50000	any	1CT / 4	4	MSR700FASTFIT	300666 45	231.00	yes

MSR Gold™ MiniFastFit



Product Description

- FastFit is also available in MSD Gold™, Ceramic ST and Halogen.

Product Features

- Philips MiniFastFit
- Compact design
- Innovative gold plated pins
- Color temperature >8000K
- Very short arc

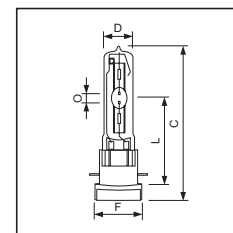
Product Benefits

- Lamp replacement in just seconds

- Easy handling, smaller and lighter fixtures
- Reduces early lamp or lamp holder failures. Excellent current transfer
- High perceived brightness
- High beam intensity

Application

- Events
- Shows
- DJ/Club



C	D	L	O
max.	max.	nom.	nom.
126	23	66.8	5.0

MiniFastFit PGJX28

Type	Wattage/ Colour Code	Lamp Lumi- nous Flux EM (lm)	Burning Position	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MSR Gold™ 300/2 MiniFastFit	300W/2	23000	any	1CT / 4	4	MSR300FASTFIT	214355 45	231.00	yes

MSD Entertainment MSD



Product Description

- The MSD 150/2 has the same light characteristics as the MSD 250/2. Mechanically and electrically it is exchangeable in fixtures using CDM-SA/T 150W.

Product Features

- Long lifetime
- Compact arc

- Good colour rendering
- Universal burning position

Product Benefits

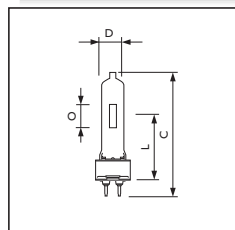
- Optimal light collection
- Low cost of ownership
- Brightness on stage

Application

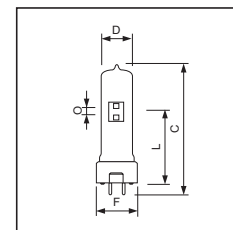
- Studio and disco lighting

Luminaires

- Luminaire lenses must block the considerable UV output of the lamps
- No radiation must be spilled through ventilation slots
- Must only be operated in closed luminaires because of the high internal working pressure (but completely safe to handle when cold)



Dim. no.	C max.	D max.	L nom.	O nom.
1	110	20	56	5

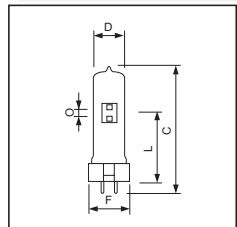


Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
2	108	23	28	55	5

MSD

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
150W/2	G12	10500	any	1	1CT / 4	4	MSD150/2	213730 45	207.90	yes
200W/670	GY9.5	13500	any	2	1CT / 4	4	MSD2002	197467 45	685.68	yes
200	GY9.5	13500	any	2	1CT / 4	4	MSD200	193223 45	685.68	yes
250	GY9.5	18000	any	2	1CT / 4	4	MSD250	199775 45	685.68	yes
250W/850	GY9.5	18000	any	2	1CT / 4	4	MSD2502	199850 45	722.70	yes

Architectural MSD



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
1	125	30	35	65	8

Product Features

- Long lifetime
- Compact arc
- Excellent colour characteristics
- Universal burning position

Product Benefits

- High lumen output
- Low cost of ownership
- Excellent colors

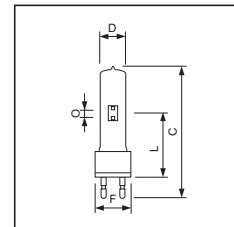
Application

- Display lighting
- Architectural lighting
- Studio and disco lighting
- Fibre-optic lighting

Luminaires

- Luminaire lenses must block the considerable UV output of the lamps

- No radiation must be spilled through ventilation slots
- Must only be operated in closed luminaires because of the high internal working pressure (but completely safe to handle when cold)



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
2	175	40	53	85	10
3	183	41	53	85	14

MSD

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
575	GX9.5	43000	any	1	1CT / 4	4	MSD575	199799 45	1,036.10	yes
700	G22	50500	any	2	1CT / 4	4	MSD700	195258 45	917.42	yes
1200	G22	92000	any	3	1CT / 4	4	MSD1200	200358 45	1,038.36	yes

MSI Entertainment MSI (Film)



Product Features

- High luminous efficacy
- Compact arc
- Good colour rendering
- Run-up time 3 minutes

Product Benefits

- Matching colours on the set
- High Light levels

Application

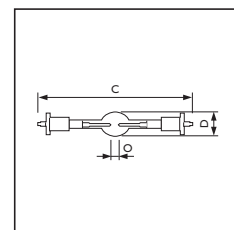
- Indoor and outdoor colour television
- Indoor and outdoor filming
- Theatre stages
- Overhead projectors
- Disco lighting
- Outdoor architectural lighting

Luminaires

- Luminaire lenses must block the considerable UV output of the lamps
- No radiation must be spilled through ventilation slots
- Must only be operated in closed luminaires because of the high internal working pressure

System

- Can be operated on an AC electronic power supply or on a magnetic ballast-ignitor combination
- Hot re-ignition possible with a high voltage peak (up to 75 kV)



A max.	C max.	D max.	O nom.
180	220	27.5	10

MSI SFC18.5-6

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Burning Position	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
1800	155000	p15	UNP / 1	1	MSI1800	201430 00	663.75	yes

MSI (Touring/Stage)



Product Features

- Excellent Colours Characteristics
- High Luminous efficacy

Product Benefits

- Matching colours on the set
- High Light levels

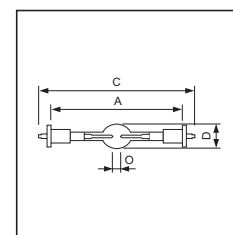
Application

- Indoor and outdoor colour television
- Indoor and outdoor filming
- Theatre stages

- Discos
- Entertainment

Luminaires

- In view of their high internal working pressure, these lamps must only be operated in closed luminaires. They radiate a considerable amount of ultra-violet; the luminaire lenses must block this, and no radiation must be spilled through ventilation slots.



Dim. no.	A	C	D	O
	max.	max.	max.	nom.
1	115	135	21	7
2	115	138	21.0	7
3	180	220	28.5	10

MSI

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	
575	SFC10-4	49000	any	1	UNP / 1	1	MSI575	199430 00	yes
575	SFC10-4	47000	p15	2	1CT / 10	10	MSI575/2	435774 25	yes
1200	SFC15.5-6	110000	any	3	UNP / 1	1	MSI1200	199447 00	yes

Xenon XOP Pulsed Xenon



Product Features

- Near-continuous xenon spectrum ranging from approx. 200 - 1000 nm
- Instant ignition and re-ignition
- No warming-up time
- Average rated life
- No ozone production
- Universal burning position

Product Benefits

- Good colour performance
- Instant on/no warming uptime

Application

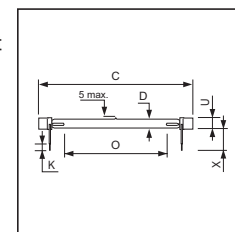
- Strobe lights in discos

Luminaires

- Screening must be provided to protect eyes and skin from short-wave UV radiation
- Lampholders must be insulated from the luminaire because of the high starting voltage

System

- Operated on a semi-resonant ballast circuit
- An electronic ignitor is required to provide a 10 kV starting pulse
- Higher-wattage lamps require a transformer to step-up the mains voltage



Dim. no.	C	D	O	U	X
	max.	max.	nom.	nom.	nom.
1	241	12	158	14.7	115
2	395	12	312	14.7	115
3	540	12	457	14.7	115

Product Description

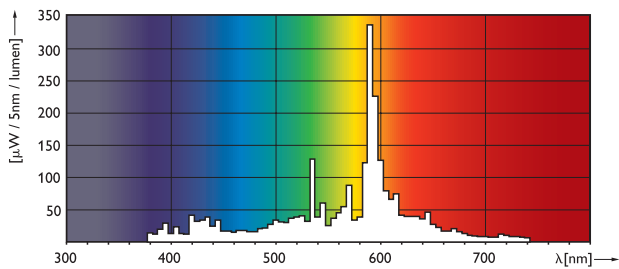
- Linear lamps equipped with special cable connections

XOP Ceramic 15.8x14.7mm

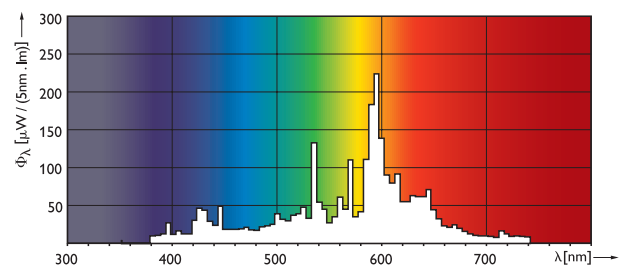
Wattage/Colour Code	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
650	any	1	1CT / 4	4	XOP7	191397 45	130.16	yes
1000	any	2	1CT / 6	6	XOP15	189424 10	162.70	yes
1100	any	3	1CT / 6	6	XOP25	190185 10	176.95	yes

Spectral Distribution

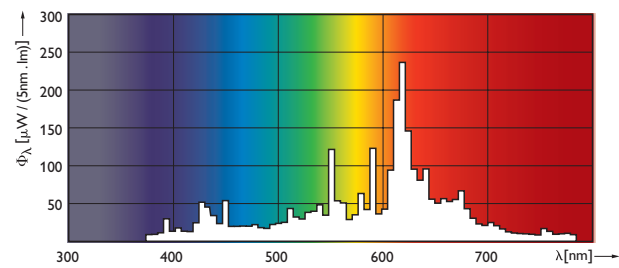
MASTER CosmoWhite CPO-TW 45W



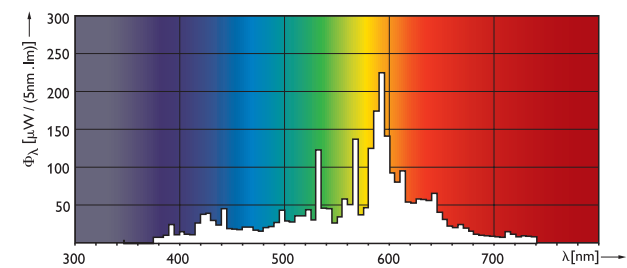
MASTER CosmoWhite CPO-TW 60W



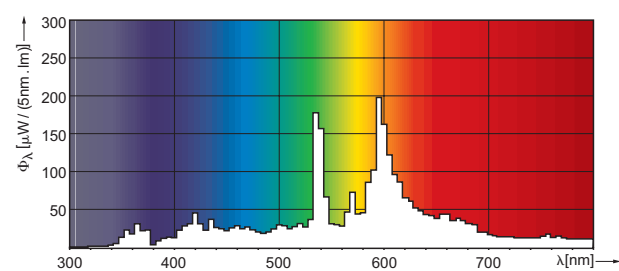
MASTER CosmoWhite CPO-TW 90W



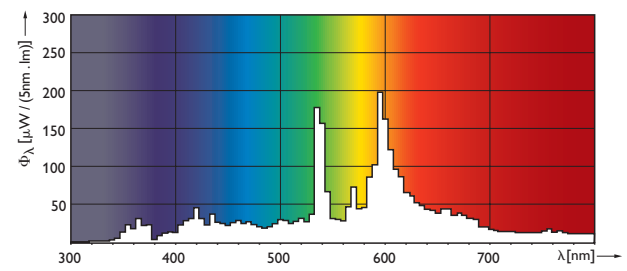
MASTER CosmoWhite CPO-TW 140W



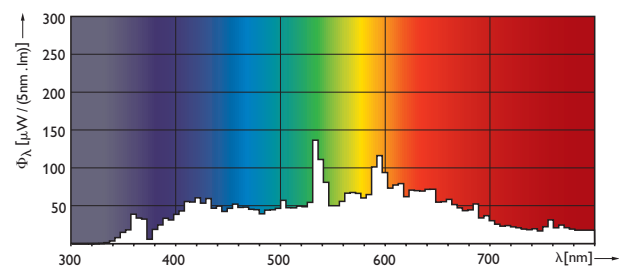
MASTER CityWhite CDO-ET & CDO-TT /828



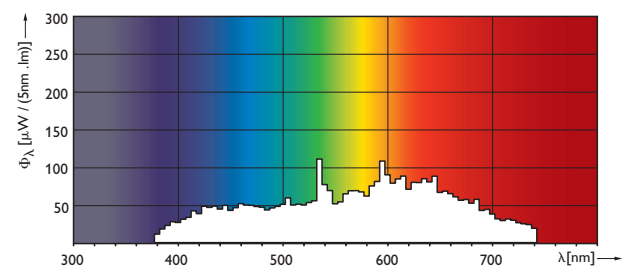
MASTERColour CDM-ET & CDM-TT /830



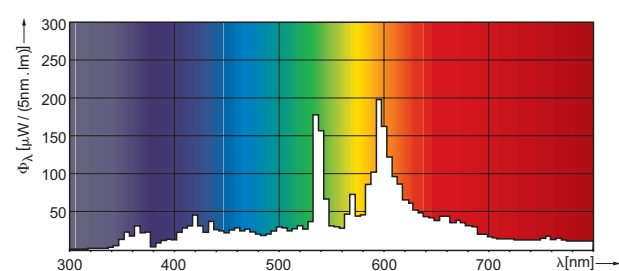
MASTERColour CDM-TT 70W /942



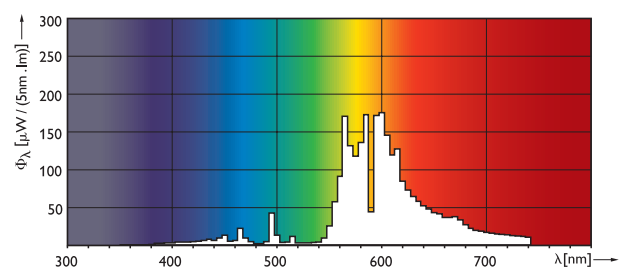
MASTERColour CDM-TT 150W /942



BeneKit

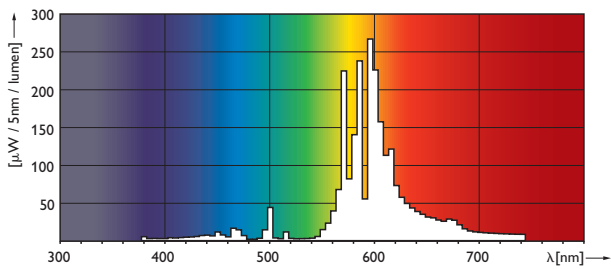


MASTER GreenPower-TD 1000W

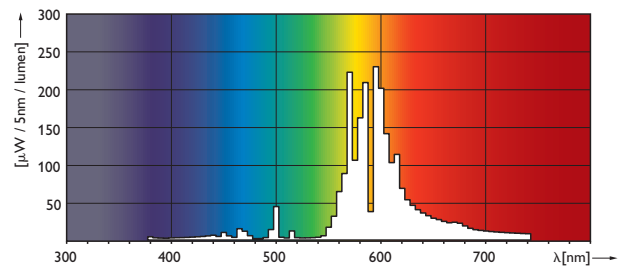


High Intensity Discharge Lamps

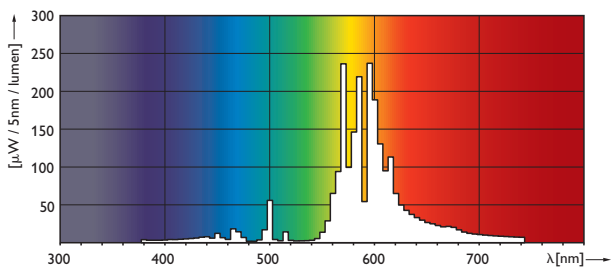
MASTER SON-T PIA Plus 50W & 70W



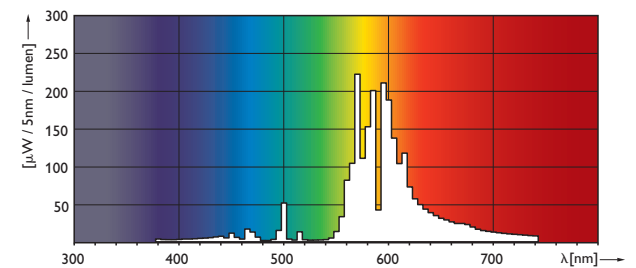
MASTER SON-T PIA Plus 100W, 150W & 250W



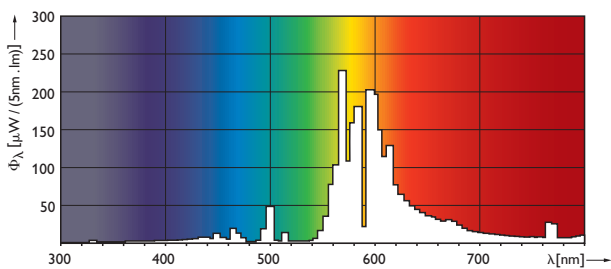
MASTER SON-T PIA Plus 400W



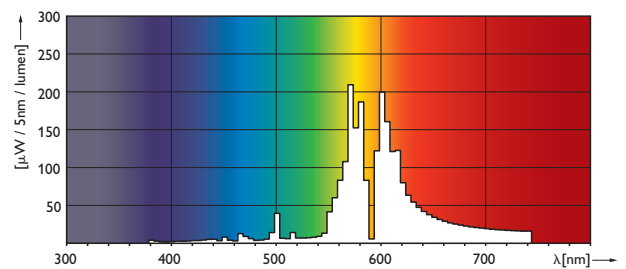
MASTER SON-T PIA Plus 600W



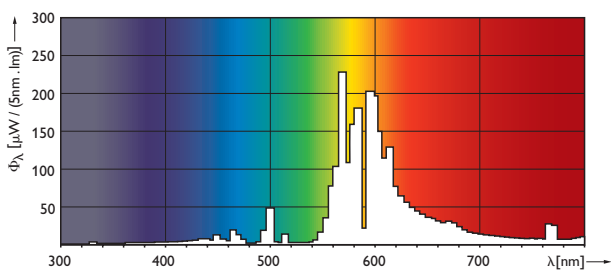
MASTER SON PIA Plus



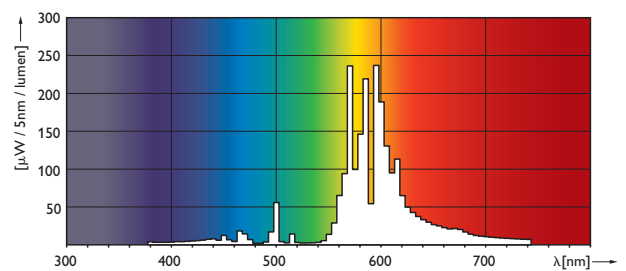
MASTER SON-T PIA Hg-Free



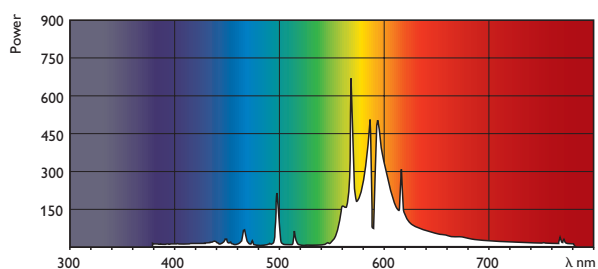
MASTER SON PIA (Hg-Free)



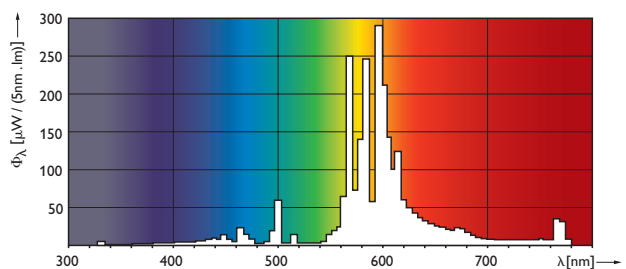
MASTER Agro 400W



MASTER Green Power 600W

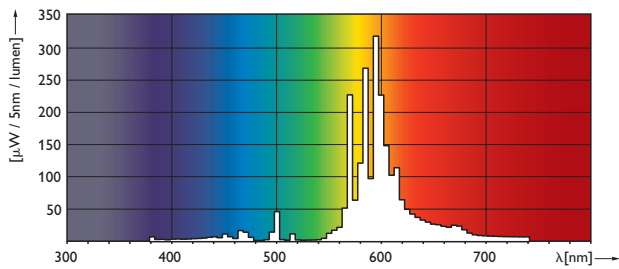


SON-T

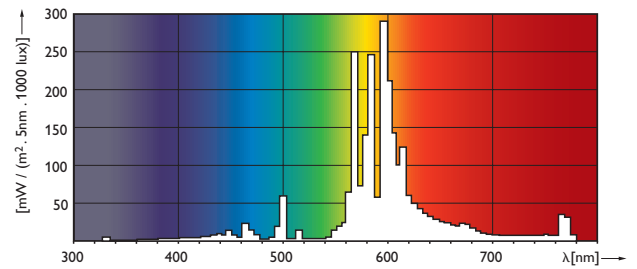


High Intensity Discharge Lamps

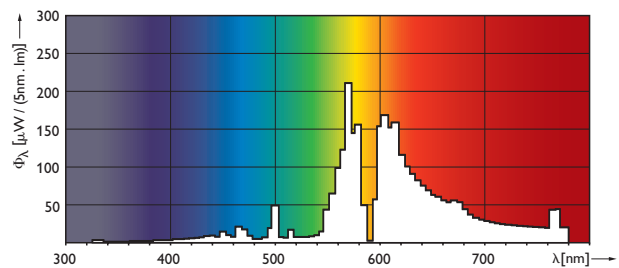
SON I 50W & 70W



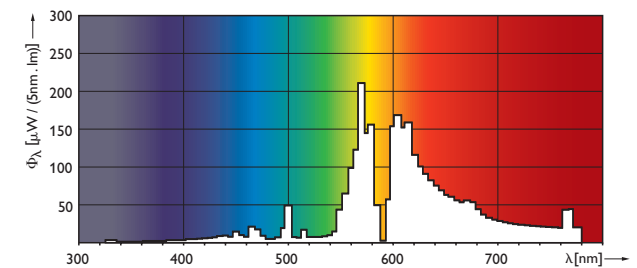
SON



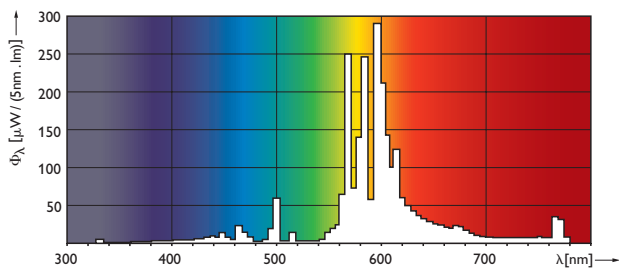
SON-T Comfort



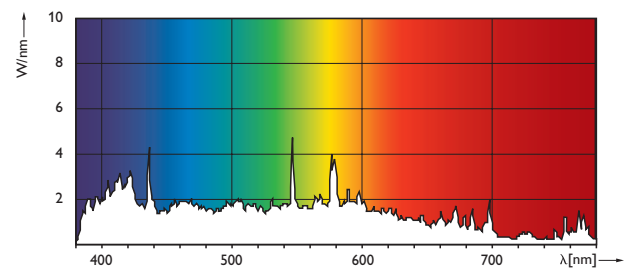
SON Comfort



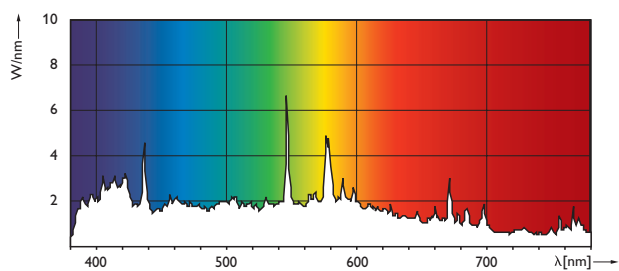
SON-H



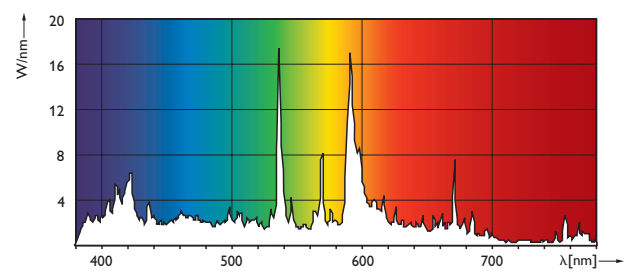
MASTER MHN-SA 1800W 230V



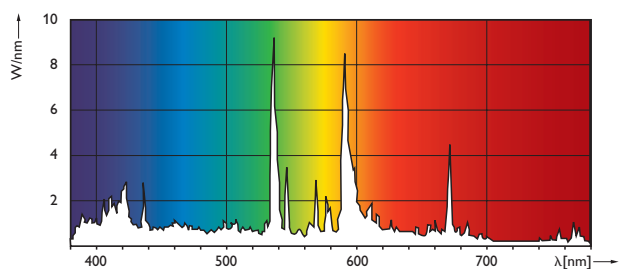
MASTER MHN-SA 1800W 400V /956



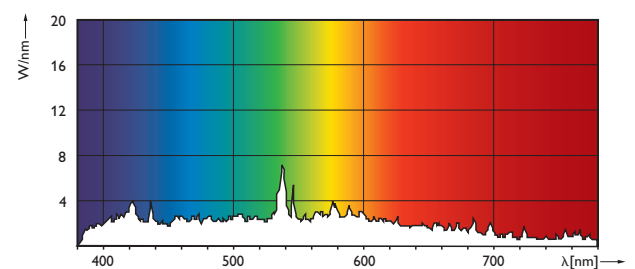
MASTER MHN-SA 2000W /956



MASTER MHN-LA 1000W /842

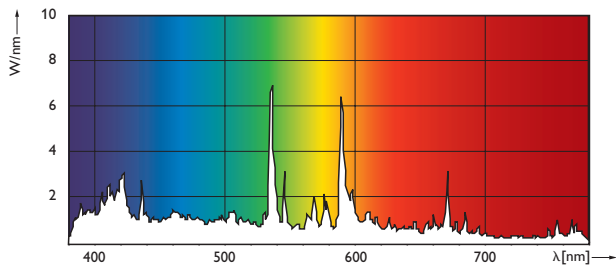


MASTER MHN-LA 2000W /842

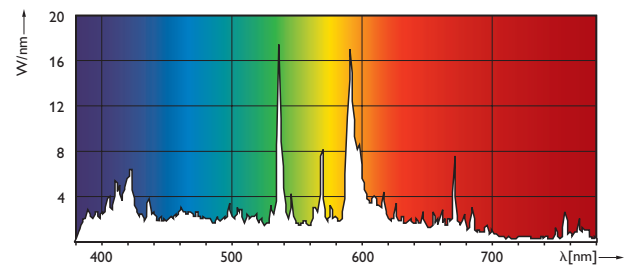


High Intensity Discharge Lamps

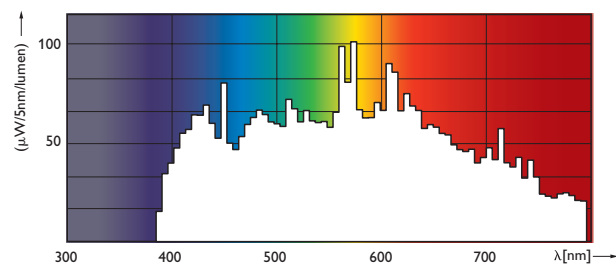
MASTER MHN-LA 1000W /956



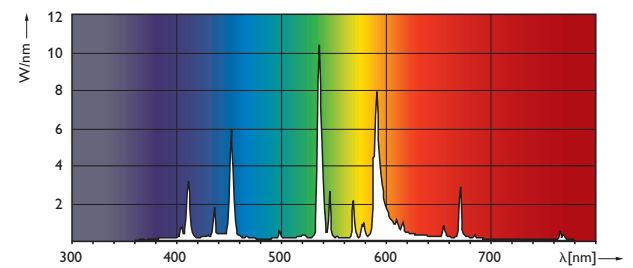
MASTER MHN-LA 2000W /956



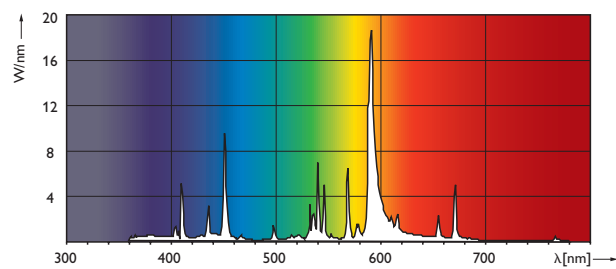
MASTER MHN-SE 2000W /956



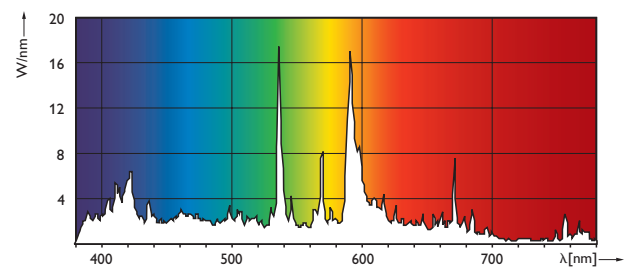
MASTER MHN-FC 1000W /740



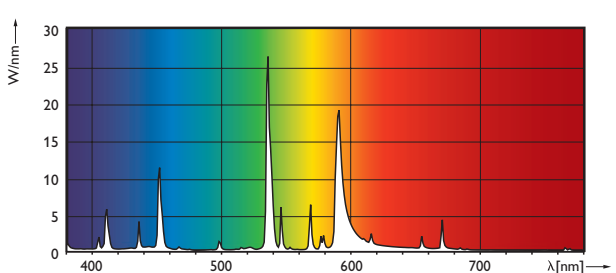
MASTER MHN-FC 2000W /740



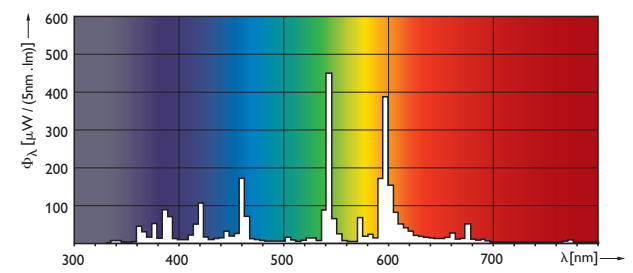
MHN-SB 2000W /956



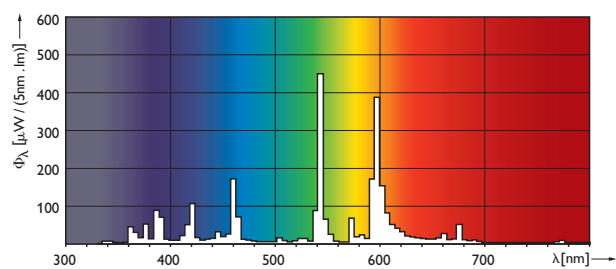
HPI-T 1000W & 2000W



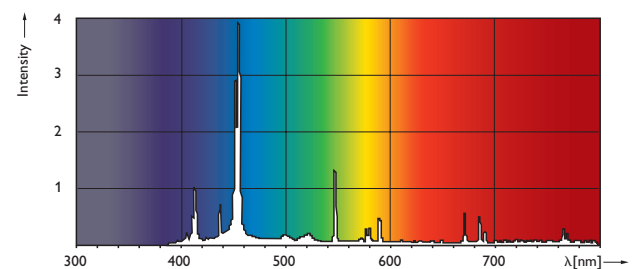
MASTER HPI-T Plus



MASTER HPI Plus

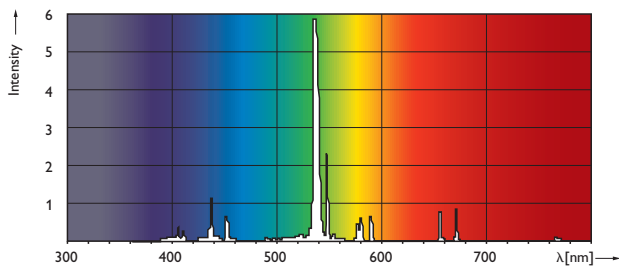


Artcolour MH-T Blue

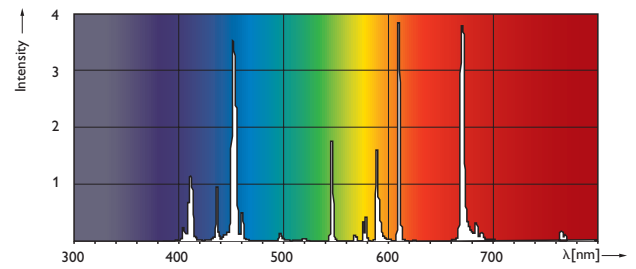


High Intensity Discharge Lamps

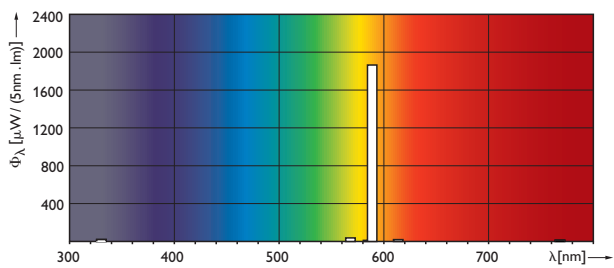
Artcolour MH-T Green



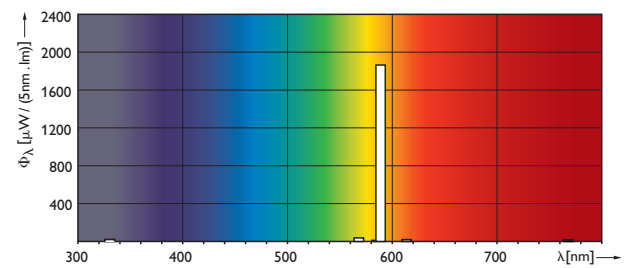
Artcolour MH-T Violet



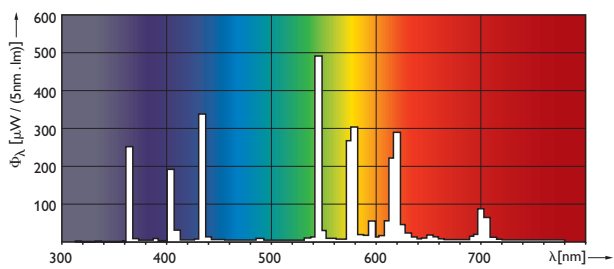
MASTER SOX-E 36W



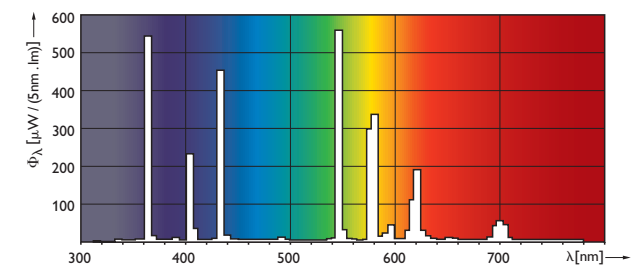
SOX 55W



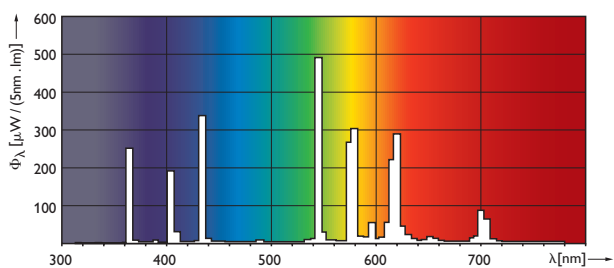
HPL 4 /634



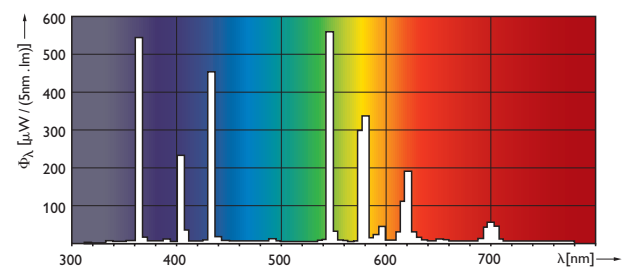
HPL 4 /642



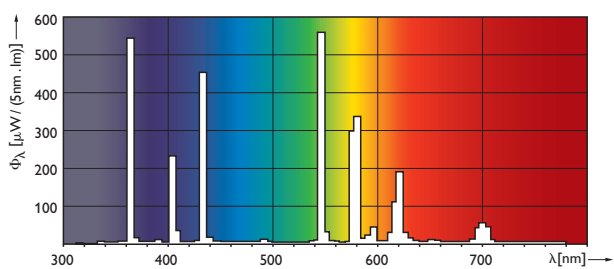
HPL Comfort



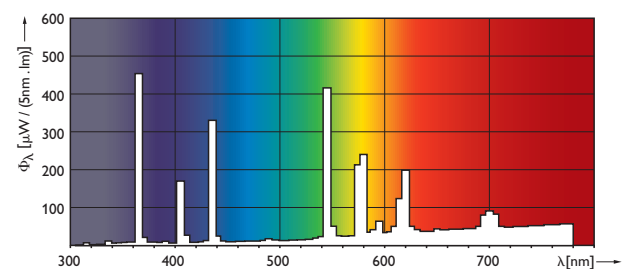
HPL-N



HPL-R

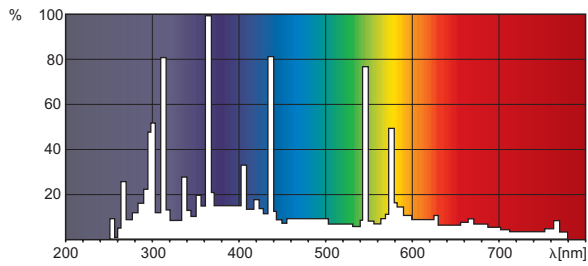


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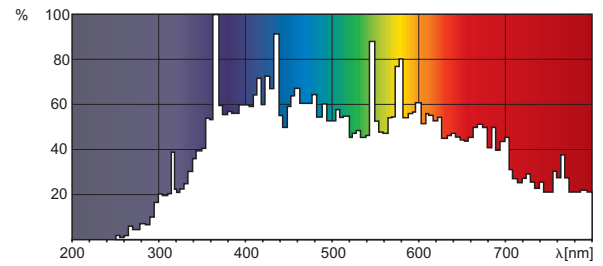


High Intensity Discharge Lamps

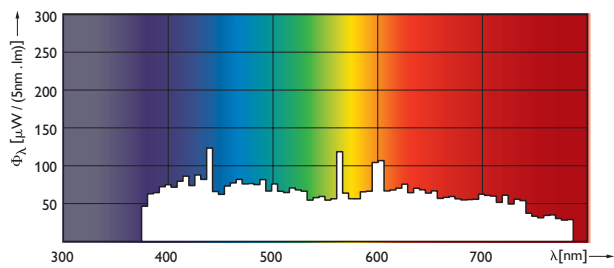
MSR Short Arc



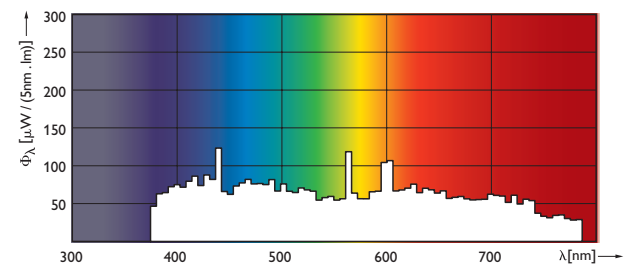
MSR Cold Strike 400, 575 /2, 700 /2 & 1200 /2



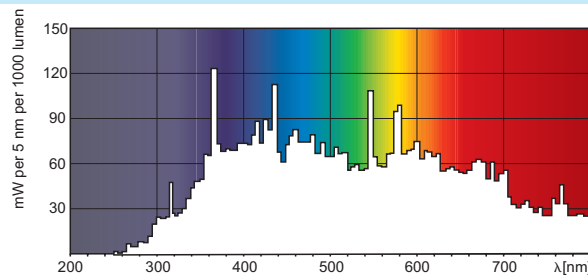
MSR Cold Strike 700



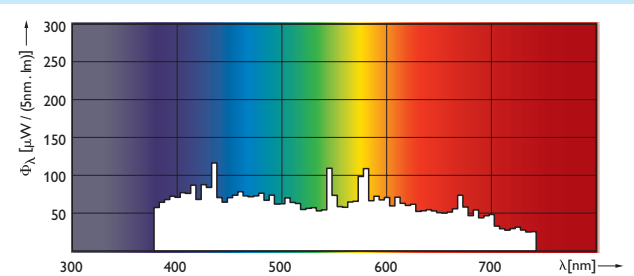
MSR Cold Strike 700



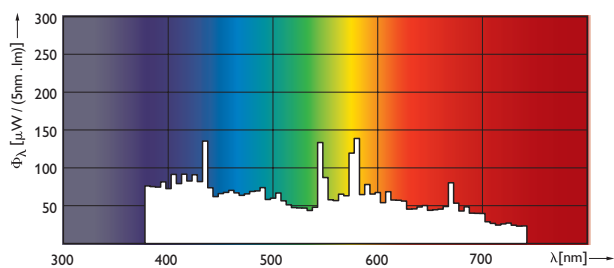
MSR HR & MSR HR/F 6000



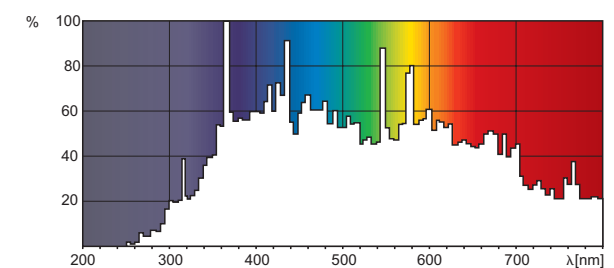
MSR HR/J 2500



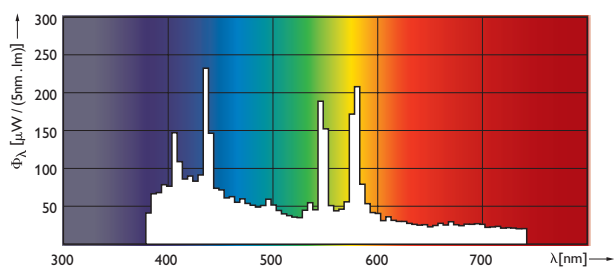
MSR HR/J 4000



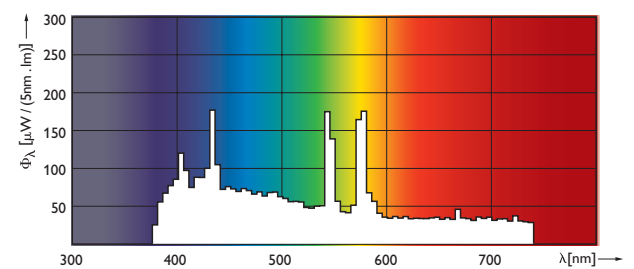
MSR HR P



MSR 400 SA/2 DE

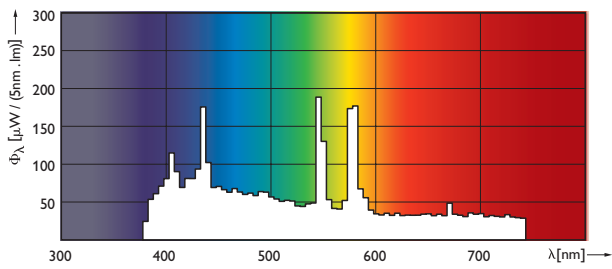


MSR 575 SA/2 DE

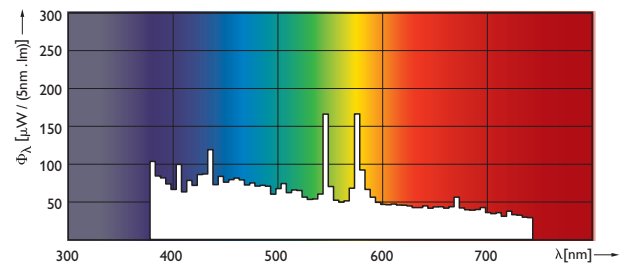


High Intensity Discharge Lamps

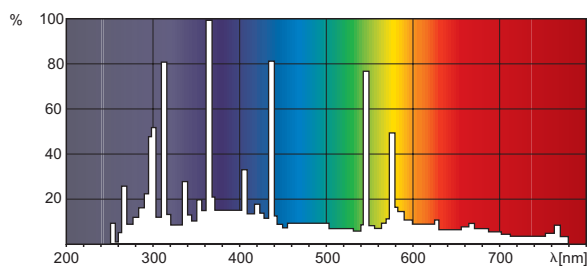
MSR 700 SA/2 DE



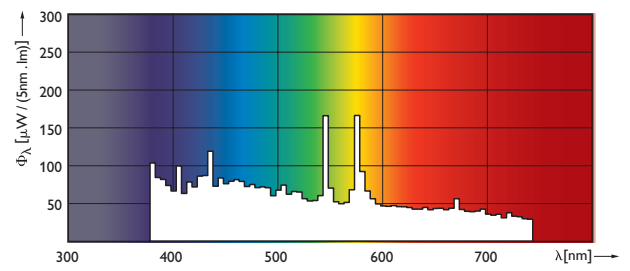
MSR 1200 SA/2 DE



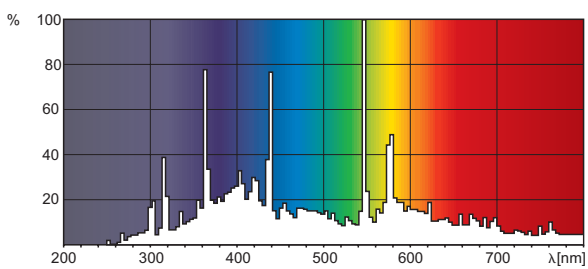
MSR Short Arc DE



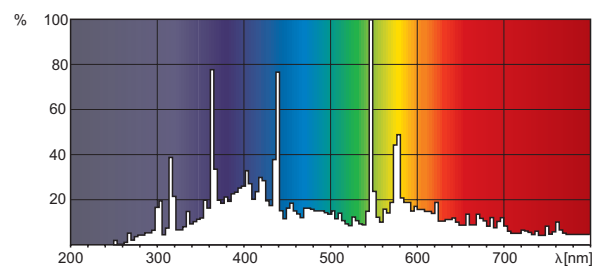
MSR 1200 SA/2 DE



MSD



MSI



Halogen Lamps

Guide to uplamping for Halogen lamps

Ever since the company was started in 1891, Philips Lighting has developed and launched many thousands of innovative and important products. With so many products to choose from, this handy and practical 'Guide to better lamps', makes it simpler to make the right choice.

Current product

Accentline



Energy efficient alternative

MASTERLine ES

Energy savings	40%
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For more uplamping possibilities, visit www.philips.com/catalog

LV Halogen with Reflector MASTERLine ES



Product Description

- MASTER dichroic coated low-voltage halogen reflector lamp with EcoBoost technology
- Most energy-efficient dichroic lamp on the market

Product Features

- Unique Philips patented infrared-coated single-ended burner by using EcoBoost technology with 40% higher efficiency than standard products
- Heat-reflecting coating on the inner lamp burner reflects waste heat back to the filament so less energy is needed to operate the lamp
- Revolutionary compact and precision-shaped single-ended burner and high-performance coating for maximum lamp performance
- Bright, sparkling white halogen light
- Excellent colour rendering
- Extreme long average rated life
- GU5.3 base for extra retention in luminaire
- Complex reflector design for excellent beam performance
- Range of energy saving wattages designed to replace the higher standard wattages

Product Benefits

- Lowest possible energy and maintenance costs while maintaining light levels. Lowest possible heat production
- Designed to replace standard and high end dichroic reflector lamps leading to savings in energy costs of up to 40% compared to standard dichroics
- Increased comfort and (where applicable) lower cooling costs because of up to 40% lower heat transmission

- Up to 66% more lifetime compared to standard conventional halogen dichroics (5000 hours)
- Lowest UV output for a dichroic lamp reduces fading risks to absolute minimum

Environment

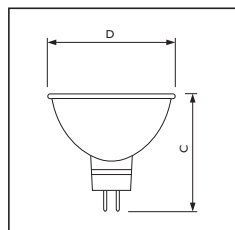
- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship

Application

- Accent and general lighting applications in homes, shops, hotels and restaurants, where energy efficiency and low maintenance are important and especially in art galleries, museums and exhibitions

Luminaires

- Can be used in luminaires without front glass in accordance with IEC 598

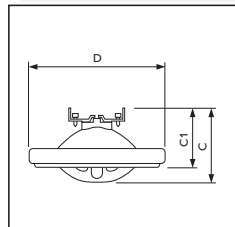


C	C1	D
max.	max.	max.
50.5	50.5	51

MASTERLine ES GU5.3 12V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)					
20	8	6500	5000	1CT / 4X5F	20	14578	413642 71	44.79
20	36	1000	5000	1CT / 4X5F	20	14579	413673 71	44.79
30	8	11000	5000	1CT / 4X5F	20	14580	413703 71	44.79
30	24	3350	5000	1CT / 4X5F	20	14581	413758 71	44.79
30	36	1600	5000	1CT / 4X5F	20	14582	413789 71	44.79
30	60	750	5000	1CT / 4X5F	20	14583	413826 71	44.79
35	8	13500	5000	1CT / 4X5F	20	14584	413871 71	44.79
35	24	4400	5000	1CT / 4X5F	20	14585	413970 71	44.79
35	36	2200	5000	1CT / 4X5F	20	14586	424327 71	44.79
35	60	1050	5000	1CT / 4X5F	20	14587	424358 71	44.79
45	8	16000	5000	1CT / 4X5F	20	14588	424389 71	44.79
45	24	5450	5000	1CT / 4X5F	20	14589	424419 71	44.79
45	36	2850	5000	1CT / 4X5F	20	14590	424440 71	44.79
45	60	1300	5000	1CT / 4X5F	20	14591	424471 71	44.79

MASTERLine 111



C	C1	D
max.	max.	max.
65	51	111

Product Description

- Low-voltage halogen reflector lamp with double-ended burner and high-purity aluminium reflector

Product Features

- Unique infra-red coated burner technology
- Revolutionary compact, precision burner for maximum performance of the infra-red reflecting coating
- Ceramic filament shield reduces glare and improves beam shape
- Flat profile, very tight beam pattern and excellent glare control
- G53 socket and screw or tab terminals for direct wire connection with mating eyelet or receptacle
- UV block quartz glass

Product Benefits

- Glare free, well defined accent lighting with minimum amount of direct glare from the lamp
- Up to 40% lower energy costs compared to the Pro or equivalent versions of this lamp, thanks to improved burner efficacy (lm/W)
- Increased comfort and (where applicable) lower cooling costs because of up to 40% lower heat transmission
- Low maintenance costs due to increased lifetime (33% higher than Pro or equivalent versions)
- Lowest UV output compared to other versions of this lamps, reducing fading risks to absolute minimum

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship

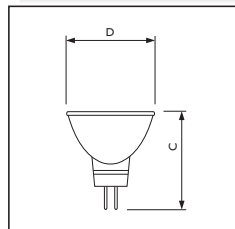
Application

- Excellent light source for general lighting and especially creative accent lighting in shops, restaurants, hotels, and especially for galleries, exhibitions and museums

MASTERLine 111 G53 12V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)					
30	8	23000	4000	1CT / 6	6	14736	411013 10	31.55
30	24	4000	4000	1CT / 6	6	14737	411037 10	31.55
45	8	33000	4000	1CT / 6	6	14738	411051 10	31.55
45	24	5300	4000	1CT / 6	6	14739	411075 10	31.55
45	45	1900	4000	1CT / 6	6	14740	411099 10	31.55
60	8	48000	4000	1CT / 6	6	14741	411112 10	31.55
60	24	8500	4000	1CT / 6	6	14742	411150 10	31.55
60	45	2800	4000	1CT / 6	6	14743	411136 10	31.55

Brilliantline Dichroic



Dim. no.	C	D
	max.	max.
1	40	35.3

Product Description

- Low-voltage, xenon gas-filled halogen burner with axial filament optically positioned in a glass reflector

Product Features

- High-intensity beam with a clearly defined beam spread
- Reflector has a light-reflecting, light-transmitting hard dichroic coating

- Constant high quality and aesthetics maintained over lifetime
- Wide range of 35mm and 50 mm types
- UV-Block front glass
- Excellent colour rendering
- GU5.3 or GU4 base for extra retention in luminaire

Product Benefits

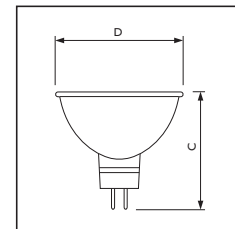
- Cool beam as a large part of the heat generated is transmitted backwards through the back glass

Application

- Ideally suited for accent, task and decorative lighting in shops, stores, hotels, restaurants etc.

Luminaires

- Can be used in luminaires without a front glass in accordance with IEC 598



Dim. no.	C	D
	max.	max.
2	46	50

Brilliantline Dichroic 12V Clear

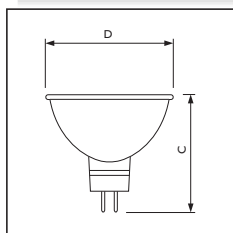
Bulb	Lamp Wattage	Cap-Base		Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)			(°)	(cd [max.])						
MR11	20	GU4	10	4800	4000	1	1CT / 10X5F	50	42537960	425379 60	21.13
MR11	20	GU4	30	690	4000	1	1CT / 10X5F	50	42540960	425409 60	21.13

More data see next page

Brilliantline Dichroic 12V Clear (continued)

Bulb	Lamp Wattage	Cap-Base	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(°)	(cd [max.])	(h)					
MR16	20	GU5.3	10	5000	4000	2	1CT / 10X5F	50	42454960	424549 60 24.41
MR16	20	GU5.3	24	1800	4000	2	1CT / 10X5F	50	42471660	424716 60 24.41
MR16	20	GU5.3	36	780	4000	2	1CT / 10X5F	50	42484660	424846 60 24.41
MR11	35	GU4	10	7000	4000	1	1CT / 10X5F	50	42543060	425430 60 24.41
MR11	35	GU4	30	1300	4000	1	1CT / 10X5F	50	42546160	425461 60 24.41
MR16	35	GU5.3	10	8000	4000	2	1CT / 10X5F	50	42490760	424907 60 24.41
MR16	35	GU5.3	24	3100	4000	2	1CT / 10X5F	50	42493860	424938 60 24.41
MR16	35	GU5.3	36	1500	4000	2	1CT / 10X5F	50	42504160	425041 60 24.41
MR16	35	GU5.3	60	700	4000	2	1CT / 10X5F	50	42507260	425072 60 24.41
MR16	50	GU5.3	10	13000	4000	2	1CT / 10X5F	50	42510260	425102 60 24.41
MR16	50	GU5.3	24	4400	4000	2	1CT / 10X5F	50	42513360	425133 60 24.41
MR16	50	GU5.3	36	2200	4000	2	1CT / 10X5F	50	42516460	425164 60 24.41
MR16	50	GU5.3	60	1100	4000	2	1CT / 10X5F	50	42519560	425195 60 24.41

Brilliantline Alu



C	D
max.	max.
46	51

Product Description

- Low voltage, xenon gas filled halogen burner with axial filament optically positioned in a aluminum coated glass reflector

Product Features

- High intensity beam with a clearly defined beam spread
- Reflector has a high-light and heat reflecting aluminium coating
- Wide range of 50 mm types
- UV block front glass

- Excellent colour rendering
- GU 5.3 base for extra retention in lampholder

Product Benefits

- Minimal light reflection to the back avoiding glare when used in open luminaires in e.g. show cases
- Minimising risk of dark dust rings on the ceiling around the luminaire otherwise occurring because the ceiling starts to breathe (convection due to warming up and cooling down of upper ceiling)

Application

- Ideally suited for accent, task and decorative lighting in open luminaires shops (e.g. glass vitrines), stores, hotel and restaurants
- Especially suited for white or other light coloured ceilings with limited space above the ceiling

Luminaires

- Can be used in luminaires without frontglass in accordance with IEC 598

Brilliantline Alu GU5.3 12V Clear

Bulb	Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)				
MR16	20	36	700	4000	1CT / 10X5F	50	14715	430724 60 24.43
MR16	35	36	1500	4000	1CT / 10X5F	50	14716	430755 60 24.43
MR16	50	36	2100	4000	1CT / 10X5F	50	14717	430793 60 24.43

Diamondline



Product Description

- Low-voltage, high-pressure xenon gas-filled cool day light halogen burner with axial filament optically aligned in a glass reflector

Product Features

- Reflector has a heat-transmitting, light-reflecting hard dichroic coating
- Constant high quality and aesthetics maintained over lifetime
- Range of 35W and 50W 50 mm types
- Cool day light colour appearance
- Excellent colour rendering
- GU5.3 base for extra retention in luminaire

Product Benefits

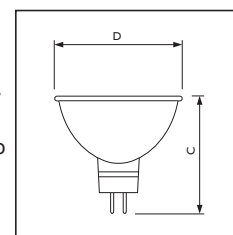
- Cool day light appearance of beam with a clearly defined beam spread
- Enhanced attractiveness of especially jewelry making diamonds and crystal sparkle and bringing a natural shine to silver and porcelain

Application

- Accent, task lighting and decorative applications, especially in jewelry shops (sparkling diamonds, silver, gold, crystal)

Luminaires

- Lamps can be used in luminaires without a front glass in accordance with IEC 598



C	D
max.	max.
46	51

Diamondline GU5.3 12V

Lamp Wattage	Colour Temperature		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(K)	(°)	(cd [max.])	(h)					
35	4100	10	5400	4000	1CT / 10X5F	50	14656	428813 60	31.31
35	4100	24	1700	4000	1CT / 10X5F	50	14658	428844 60	31.31
35	4100	36	1000	4000	1CT / 10X5F	50	14659	428875 60	31.31
50	4100	10	6400	4000	1CT / 10X5F	50	14668	428905 60	31.31
50	4100	24	2700	4000	1CT / 10X5F	50	14670	428936 60	31.31
50	4100	36	1200	4000	1CT / 10X5F	50	14671	428967 60	31.31

Accentline



Product Description

- Low-voltage halogen burner optically positioned in a glass reflector with and without front glass

Product Features

- Dichroic reflector coating is heat-transmitting towards the back and light-reflecting towards the front of the lamp
- UV-Block burner
- Excellent colour rendering
- GU5.3 base for extra retention in luminaire
- 3,000 hour lifetime

Product Benefits

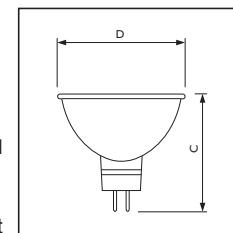
- Good light quality, cool beam halogen light and a professional lifetime

Application

- Accent, task lighting and decorative applications in homes, shops, hotels and restaurants

Luminaires

- Can be used in luminaires without a front glass in accordance with IEC 598



Dim. no.	C	D
1	46	50.7
2	46	51

Accentline GU5.3 12V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)						
20	10	2200	3000	1	1CT / 10X5F	50	6642ECON	411907 60	24.41
20	36	500	3000	2	1CT / 10X5F	50	6644ECON	411990 60	24.41
35	10	3750	3000	1	1CT / 10X5F	50	6645ECON	411938 60	24.41
35	36	1000	3000	2	1CT / 10X5F	50	6647ECON	412027 60	24.41
50	10	6200	3000	1	1CT / 10X5F	50	6648ECON	411969 60	24.41
50	24	2100	3000	1	1CT / 10X5F	50	6649ECON	412263 60	24.41
50	36	1500	3000	2	1CT / 10X5F	50	6650ECON	412058 60	24.41
50	60	675	3000	1	1CT / 10X5F	50	6651ECON	426086 60	24.41

Aluline 111



Product Description

- Low-voltage halogen reflector lamp with high-purity aluminium reflector of 111 mm

Product Features

- Metal cap to shield filament to reduce glare and improve beam shape
- G53 socket and screw or tab terminals allowing for direct wire connection with imating eyelet or receptacle
- UV-block quartz glass

Product Benefits

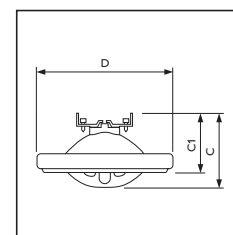
- Glare free, well defined accent lighting with minimum amount of direct glare from the lamp

Application

- Excellent light source for general lighting and especially creative accent lighting in shops, restautants, hotels, galleries, exhibitions and museums

Luminaires

- For use in open luminaires



C	C1	D
max.	max.	max.
61	50	111

Aluline 111 G53 12V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)					
50	8	23000	3000	1CT / 6X1F	6	14634	426529 33	26.64
50	24	4000	3000	1CT / 6X1F	6	14635	426550 33	26.64
75	8	30000	3000	1CT / 6X1F	6	14641	426987 33	26.64
75	24	5300	3000	1CT / 6X1F	6	14642	427007 33	26.64
75	45	1900	3000	1CT / 6X1F	6	14643	427021 33	26.64
100	8	48000	3000	1CT / 6X1F	6	14644	427045 33	26.64
100	24	8500	3000	1CT / 6X1F	6	14645	427069 33	26.64
100	45	2800	3000	1CT / 6X1F	6	14646	427083 33	26.64

Aluline 37/56



Product Description

- Low-voltage halogen burner in a lightweight, high-gloss anodised aluminium reflector giving a white halogen light

Product Features

- Integrated protective front glass
- Choice of clear or frosted glass

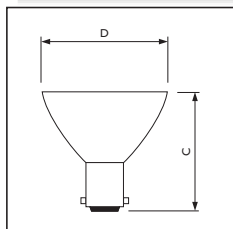
- High-intensity beam with an extremely clearly defined beam spread (clear glass versions only)
- Excellent colour rendering

Product Benefits

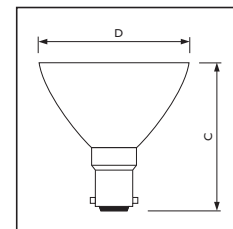
- Excellent accent lighting effects due to reduced spill light (clear versions only)

Application

- Excellent light source for accent and general lighting in shops, home, restaurants, galleries, exhibitions and museums



Dim. no.	C	D
1	41	38



Dim. no.	C	D
2	60	58

Aluline

Bulb	Lamp Wattage	Cap-Base	Vol-tage	Bulb Finish		Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(V)	(°)		(cd [max.])	(h)						
R37	15	BA15d	6	Clear	6	5200	2000	1	1CT / 10X5F	50	6424	401915 60	33.77
R56	15	SBC	6	Clear	4	11000	2000	2	1CT / 10X5F	50	6425	401922 60	33.77
R37	20	BA15d	12	Clear	6	6400	2000	1	1CT / 10X5F	50	6433	401946 60	33.77
R37	20	BA15d	12	Clear	18	1500	2000	1	1CT / 10X5F	50	6434	401953 60	33.77
R37	20	BA15d	12	Frosted	32	350	2000	1	1CT / 10X5F	50	6435FR	409355 60	33.77
R56	35	SBC	6	Clear	6	18000	2000	2	1CT / 10X5F	50	6429	401977 60	33.77
R56	35	SBC	6	Clear	14	4400	2000	2	1CT / 10X5F	50	6430	401984 60	33.77
R56	50	SBC	12	Clear	10	12000	2000	2	1CT / 10X5F	50	6438	402004 60	33.77
R56	50	SBC	12	Frosted	25	2000	2000	2	1CT / 10X5F	50	6439FR	409348 60	33.77

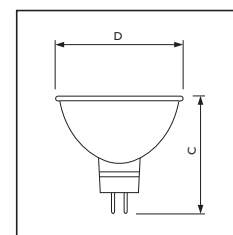
Halogen 12V Dichroic 2 Year



Product Description

- Low voltage halogen reflector lamp , giving crisp white light, and a cool beam

- Economy dichroic 2,000 hours average rated life



Dim. no.	C max.	D max.
1	46	50
2	51.5	50.7

Halogen Dichroic 2yr GU5.3 12V

Lamp Wattage	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (€)
(W)	(°)	(cd [max.])	(h)					
20	36	550	3000	1	1CT / 10X5F	50	6653ECON	8711500 413161 60 24.41
35	36	800	2000	2	1CT / 10X5F	50		8727900 252439 60
35	36	1000	3000	1	1CT / 10X5F	50	6656ECON	8711500 413093 60 24.41
50	36	1200	2000	2	1CT / 10X5F	50		8727900 252446 60
50	36	1600	3000	1	1CT / 10X5F	50	6659ECON	8711500 413130 60 24.41

Microfilm



Product Description

- Low-voltage quartz halogen lamps with an internal reflector

Product Features

- Dichroic coating on glass reflector radiates about 75% of the generated heat backwards, away from the microfiche/film

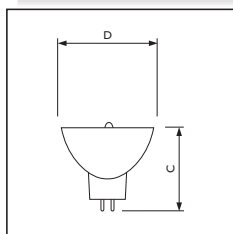
- Halogen burner is precisely aligned using an optical system, so no realignment is needed when the lamp is replaced

Product Benefits

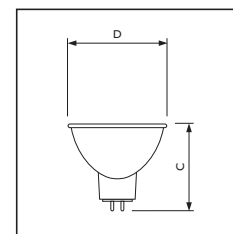
- Negligible depreciation in light output during lifetime
- High efficacy gives low energy consumption

Application

- Microfiche readers and projectors, microfilm readers, printers and jacket fillers, all also in combination with information retrieval systems
- Medical equipment
- Light boxes for fibre lighting systems



Dim. no.	C max.	D max.
1	40	35



Dim. no.	C max.	D max.
2	45	50
3	44.45	50.67

Type	Rated Lamp Wattage	Cap-Base	Voltage	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
	(W)		(V)	(h)							
13528	15	GZ4	6	750	1	1CT / 10X5F	50	13528	409782 60	33.52	yes
13155	30	GX5.3	13.8	500	2	1CT / 10X5F	50	FJX	410306 60	40.30	yes
13189	50	GX5.3	13.8	1000	2	1CT / 10X5F	50	EPZDJT	409775 60	40.30	yes
13194	85	GX5.3	13.8	1000	2	1CT / 10X5F	50	DED	409720 60	40.30	yes
13186	90	GX5.3	14.5	500	2	1CT / 10X5F	50	EPXEPV	409805 60	40.30	yes
13158	150	GX5.3	21	40	3	1CT / 24	24	ELDEJN	410603 30	40.30	yes
14501	150	GX5.3	20	500	3	1CT / 24	24	DDL	410610 30	40.30	yes

Optical



Product Description

- Quartz halogen lamps with integral reflector which serves as an efficient mirror condenser system

Product Features

- Dichroic coating on glass reflector radiates about 75% of the generated heat backwards, keeping temperatures within safe limits
- Halogen burner is precisely aligned using an optical system, so no realignment is needed when the lamp is replaced

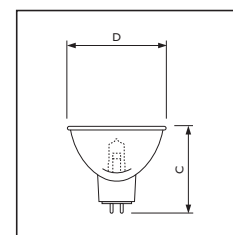
Product Benefits

- Negligible depreciation in light output during lifetime

- High efficacy gives low energy consumption

Application

- 8/16 mm film projection
- Slide projection
- Enlargers
- Minilabs/colour printers
- Overhead projection
- Medical equipment
- Solar simulation
- Measuring equipment
- Fibre optical applications



Dim. no.	C max.	D max.
1	44	50
2	47	50
3	44.45	50.67
4	42	50
5	45	50
6	49.4	50.7
7	44.45	50.7

Type	Rated Lamp Wattage	Cap-Base	Voltage	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(V)	(h)							
13938XHP	50	GX5.3	22.8	750		1CT / 10X5F	50	13938XHP	438881 60	42.45	yes
13139	75	GZ6.35	12	25	1	1CT / 10X5F	50	13139	409799 60	41.58	yes
13117	150	GX5.3	17	1000	2	1CT / 10X5F	50	13117	409935 60	95.31	yes
5995	150	GX5.3	21	40	3	1CT / 24	24	EJM	410634 30	40.70	yes
6423	150	GZ6.35	15	50	4	1CT / 10X5F	50	6423	427335 60	30.52	yes
13164	200	GX5.3	24	50	3	1CT / 24	24	A1252	410580 30	40.56	yes
13095	250	GY5.3	120	175	3	1CT / 24	24	ENH	410627 30	25.64	yes
13163	250	GX5.3	24	35	5	1CT / 10X5F	50	A1259	409751 60	42.75	yes
13163	250	GX5.3	24	500	6	1CT / 24	24	ELC5	413475 30	38.77	yes
13096	300	GY5.3	120	35	7	1CT / 24	24	ELH	410573 30	43.39	yes
13824	360	GY5.3	82	70	3	1CT / 24	24	ENX	410641 30	46.05	yes

Fibre Optics



Product Description

- Quartz halogen lamps with integral reflector

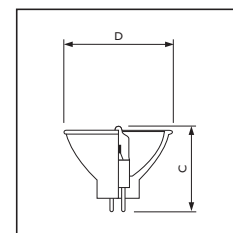
Product Features

- Optimised for use in fibre optic systems, but also suitable for numerous other applications

Application

- Fibre optic equipment such as:
 - Endoscopes

- Boroscopes
- Machine vision
- Pool lighting
- Architectural lighting
- Reading lights
- All kinds of optical applications



C max.	D max.
42	50

GZ6.35

Type	Rated Lamp Wattage	Voltage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)	(V)	(cd [max.])	(h)						
6853FO	75	12		50	1CT / 10X5F	50	A1230	409744 60	24.50	yes
6834/25H FO	100	12	420	2500	1CT / 10X5F	50	A1231/25H	404428 60	73.75	yes
6834FO	100	12		50	1CT / 10X5F	50	A1231	409737 60	24.50	yes
6423XHP FO	150	15		50	1CT / 10X5F	50	A1232X	411822 60	28.79	yes

Dental Hardening



Product Description

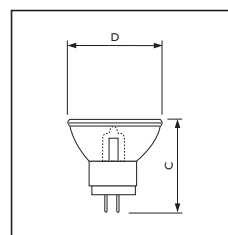
- Low-voltage bi-pin quartz halogen lamps with a choice of base types

Product Features

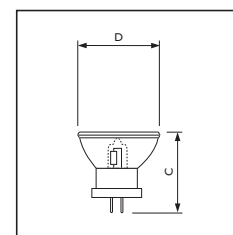
- Optimised for maximum output in the 400 - 500 nm wavelength range, to which dental filling materials are sensitive
- Choice of dichroic or blue reflector coatings
- Lamps with blue reflector coating reflect less unwanted visible light (> 700 nm)

Application

- Curing of dental fillings



Dim. no.	C max.	D max.
1	42	35
2	41	25



Dim. no.	C max.	D max.
3	37	25

Type	Rated Lamp Wattage (W)	Cap-Base	Voltage (V)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
13165	35	GZ4	14	50	1	1CT / 10X5F	50	13165	409768 60	38.13	yes
14553	52	GZ4	10	25	2	UNP / 230	230	14553	424488 28	69.65	yes
13865	75	G5.3	12	50	3	1CT / 10X5F	50	13865	410719 60	30.80	yes

Halogen Low Voltage



Product Features

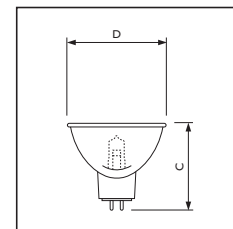
- Colour temperature: 3100 K
- Very compact filament enabling high efficiency
- Optimum between light and life
- Even light distribution over the entire beam
- Universal burning position

Product Benefits

- Suitable for low-cost luminaires

Application

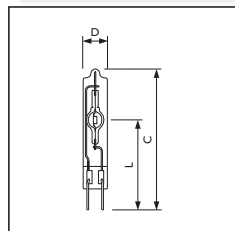
- Discos
- Moving beam luminaires



Dim. no.	C max.	D max.
1	46	50
2	42	50

Type	Cap-Base	Voltage (V)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
13289	GX5.3	13.8	1000	1	1CT / 10X5F	50	13289	410337 60	40.30	yes
6834/8H	GZ6.35	12	800	2	1CT / 10X5F	50	6834/8H	436832 60	78.17	yes

LV Halogen without Reflector MASTERLine TC



C	D	L
max.	max.	nom.
85	14	52

Product Description

- Double-ended halogen burner with an infrared-reflective coating, assembled in a TC-shaped outer bulb

Product Features

- High-performance halogen lamp
- Long lifetime
- Halogen burner with infrared reflective coating
- TC shape: same geometry, shape, base and light centre length (LCL)

Product Benefits

- Energy saving alternative to low-wattage CDM gas discharge lamps

- Can be used in luminaires designed for TC-shaped CDM lamps
- Low maintenance costs
- Benefits of halogen technology: Excellent colour rendering and lumen maintenance, dimmable, instant (re-)start
- System modularity: gives luminaire manufacturers and end customers a wider choice of technologies without big changes in installations or luminaires – tailored solutions

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life

Application

- Professional lighting in shops and hotel/restaurant/catering/hospitality venues
- Can be used for both general and accent lighting

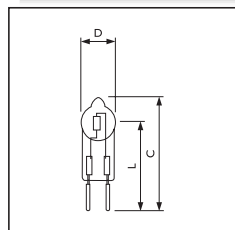
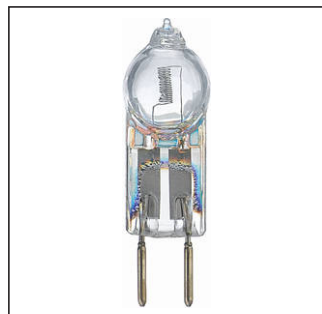
Luminaires

- All luminaires designed for CDM TC-shaped lamps can be used if the gas discharge gear is replaced by a transformer

MASTERLine TC G8.5 12V Clear

Lamp Wattage	Lamp Luminous Flux	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(lm)	(h)					
45	1100	5000	1CT / 12	12	14726	410924 15	18.78
45	1100	5000	1CT / 12	12	14726	438973 15	18.78
60	1600	5000	1CT / 12	12	14727	439017 15	18.78

MASTERCapsule



C	D	L
max.	max.	nom.
44	12	30

Product Description

- MASTERCapsule with EcoBoost technology: halogen capsule, 40% more energy saving than standard capsule

Product Features

- Unique Philips patented EcoBoost single-ended burner: 40% higher efficiency than standard products
- GY6.35 lamp base with single-ended low-pressure burner
- Small size
- Average lifetime up to 4x longer than standard capsule
- Low-voltage halogen light quality: sparkling, crisp light

- Dimmable
- No mercury content
- High-performance coating for high efficiency
- Complete range equipped with Philips EcoBoost technology

Product Benefits

- Retrofit replacement for standard halogen capsules
- High energy savings
- Lower replacement costs due to longer burning hours
- Bright, sparkling white halogen light with excellent colour rendering
- Supports a green environment

- Excellent beam performance
- Lower cost of ownership compared with standard halogen capsule

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life

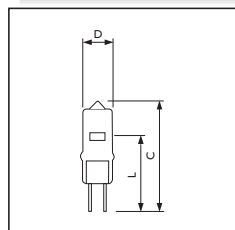
Application

- Replacement for standard capsules in most professional and semi-professional applications
- Indoor lighting (e.g. hotels, restaurants, offices)
- Enclosed fixtures required for outdoor applications

MASTERCapsule GY6.35 12V IR Coated

Lamp Wattage	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
(W)	(lm)	(h)					
20	420	4000	1CT / 5X10F	50	18160	203530 70	18.67
30	750	4000	1CT / 5X10F	50	18161	203547 70	18.67
45	1250	4000	1CT / 5X10F	50	18162	203554 70	18.67
60	1700	4000	1CT / 5X10F	50	18163	203561 70	18.67

Capsuline



Dim. no.	C max.	D max.	L nom.
1	33	10	22.2
2	33	10	22
3	44	12	30

Product Description

- Single-ended low-voltage halogen capsule giving crisp white halogen light

Product Features

- Sturdy, low-pressure lamps with UV-Block glass (IEC 357)
- Gas-filled (≤ 2.5 bar) lamps can be used in luminaires without a front glass in accordance with IEC 598

- Axial filament for higher light output in combination with luminaires and a uniform beam
- Excellent colour rendering
- Universal burning position

Product Benefits

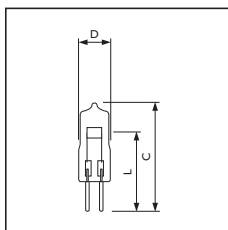
- Low-pressure technology allows use in luminaires without front glass

Application

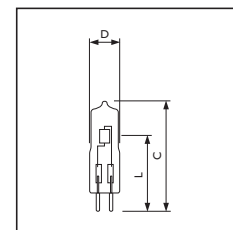
- Task lighting and decorative applications in homes, shops, hotels and restaurants

Luminaires

- Lamps can be used in luminaires without a front glass in accordance with IEC 598



Dim. no.	C max.	D max.	L nom.
4	31	9	22
5	32	8.8	22
6	32	9	24



Dim. no.	C max.	D max.	L nom.
7	44	12	30

Capsuline Clear

Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
(W)		(V)	(lm)	(h)						
10	G4	12	100	2000	1	1CT / 10X10F	100	14565	412980 50	16.53
10	G4	12	140	4000	4	1CT / 10X10F	100	13284Q	409706 50	16.53
20	G4	12	250	2000	2	1CT / 10X10F	100	14566	412997 50	16.53
20	G4	12	310	4000	5	1CT / 10X10F	100	13078	402103 50	16.53
20	G4	24	300	4000	6	1CT / 10X10F	100	13091	409621 50	16.53
20	GY6.35	12	300	4000	7	1CT / 10X10F	100	13104	402196 50	16.53
35	GY6.35	12	600	4000	7	1CT / 10X10F	100	13103	402189 50	16.53
50	GY6.35	12	850	2000	3	1CT / 10X10F	100	14567	412959 50	16.53
50	GY6.35	12	880	4000	7	1CT / 10X10F	100	13102	402172 50	16.53
50	GY6.35	24	850	4000	7	1CT / 10X10F	100	13090	409638 50	16.53
75	GY6.35	12	1575	4000	7	1CT / 10X10F	100	13101	402165 50	16.53
100	GY6.35	12	2200	4000	7	1CT / 10X10F	100	13100	402158 50	16.53
100	GY6.35	24	2200	3000	7	1CT / 10X10F	100	13089	409645 50	16.53

Microprojection



Product Description

- Low-voltage quartz halogen capsule lamps

Product Features

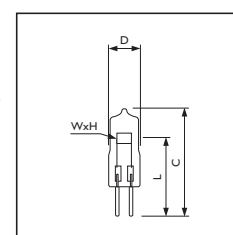
- The smallest quartz halogen lamps available
- Distortion-free quartz bulb and precisely defined filament position for optimal beam performance
- Square-filament lamp 5761 is specially designed for microscopes with computer read-out

Product Benefits

- Small size permits the use of compact, efficient optical systems
- Constant, high light output during lifetime

Application

- Microscopes
- Optical equipment
- Slide and film viewers
- Medical equipment
- Industrial applications

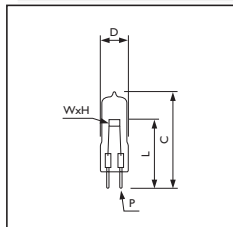


Dim. no.	C max.	D max.	L max.	WxH nom.
1	31	9	19.75	3.0x0.5
2	31	9	19.75	2.0x1.0
3	31	9	19.75	1.6x0.6
4	31	9	19.75	1.5x1.5

G4 6V

Type	Rated Lamp Wattage	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
	(W)	(h)							
6605	10	2000	1	1CT / 10X10F	100	M42	410092 50	14.84	yes
7387	10	100	2	1CT / 10X10F	100	M29	410276 50	14.80	yes
7388	20	100	3	1CT / 10X10F	100	M30	409867 50	14.80	yes
5761	30	100	4	1CT / 10X10F	100	5761	410849 50	30.20	yes

Flat Filament SE



Dim. no.	C max.	D max.	L nom.	P nom.	WxH nom.
1	44	11.5	30	1	3.3x1.6
2	44	11.5	30	1.25	4.2x2.3
3	44	11.5	30	1.25	4.8x3.0
4	44	11.5	30	1	4.8x3.0
5	50	13.5	32	1	5.8x2.9
6	50	13.5	33	1	7.4x3.5
7	57	13.5	33	1	7.7x3.8
8	55	13.5	33	1	7.4x3.5
9	60	18	36	1	9.4x4.7

Product Description

- Low-voltage, flat-filament quartz halogen lamps

Product Features

- Small bulb shape and high luminous intensity
- Lamps with prefocus base have a better-defined position of the filament in the system, allowing lamp replacement without adjustment

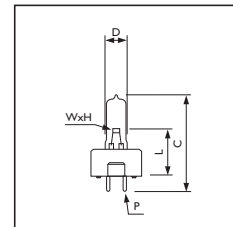
- XHP lamps are optimised for maximum light output by using xenon filling gas within IEC limits for these types

Product Benefits

- Specially suited for use in compact, efficient projection systems
- Constant, high light output during lifetime
- Distortion-free quartz bulb for optimal beam performance

Application

- Studio, film, theatre and disco lighting
- Slide, overhead, profile and 8/16 mm film projectors
- Microfilm readers and reader printers
- Dental lights
- Microscopes and endoscopes



Dim. no.	C max.	D max.	L nom.	P nom.	WxH nom.
10	60	13.5	33.3	3.17	5.8x2.9

Type	Rated Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(V)	(lm)	(h)							
7027	50	G6.35	12	1500	50	1	1CT / 10X10F	100	A1220	409829 50	8.63	yes
14623P	95	GZ9.5	17	2150	2000	10	1CT / 10X10F	100	14623P	426581 50	30.80	yes
7023	100	GY6.35	12	3400	50	2	1CT / 10X10F	100	A1215	409812 50	8.63	yes
7724	100	GY6.35	12	2550	2000	3	1CT / 10X10F	100	M28	409850 50	18.63	yes
5974	150	GZ9.5	24	5000	50	10	1CT / 10X10F	100	A1262	410078 50	30.80	yes
6550	150	G6.35	15	5000	50	4	1CT / 10X10F	100	A1234	409843 50	16.25	yes
7158	150	G6.35	24	5200	50	5	1CT / 10X10F	100	A1216	409836 50	8.66	yes
7158XHP	150	G6.35	24	6000	40	6	UNP / 500	500		410009 37		
6958	250	G6.35	24	8400	300	7	1CT / 10X10F	100	M33	409898 50	22.11	yes
7748XHP	250	G6.35	24	10000	50	8	1CT / 10X10F	100	A1223X	410290 50	12.76	yes
7787	400	G6.35	36	14500	100	9	1CT / 3X8F	24	A1239	187123 38	39.21	yes
7787LL	400	G6.35	36	12200	300	9	1CT / 3X8F	24	7787LL	506559 38	38.82	yes
7787XHP	400	G6.35	36	16000	50	9	1CT / 3X8F	24	A1239X	504586 38	39.21	yes

MV Halogen with Reflector EcoHalo Twist GU10



Product Description

- Energy-saving halogen lamps giving approximately 30% energy saving compared with standard 2000 hour lamps

Product Features

- Saves 30% energy and saves money
- Same size for direct replacement of existing halogen lamps
- Top quality light - excellent color rendering
- UV-Block burner
- GU10 base ensures good retention in the luminaire and easy, 'twist and take out' removal and replacement
- Built-in double fuses for additional safety at end-of-life

Product Benefits

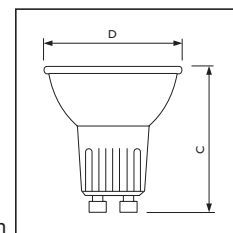
- Energy saving with beautiful halogen light

Application

- Accent and general lighting applications in homes, shops, hotels and restaurants

Luminaires

- Complies with IEC 598 for use in open luminaires
- The luminaire must carry instructions about which lamp should be used (GU10 / aluminium)

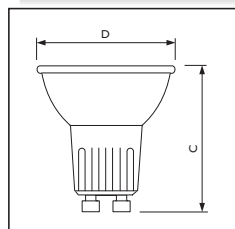


C	D
max.	max.
51	51

EcoHalo Twist GU10

Bulb	Lamp Wattage	Voltage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	Ordering number
	(W)	(V)	(°)	(cd [max.])	(h)			8727900...
MR16	35	230	50	350	2000	1CT / 10X5F	50	864045 00
MR16	35	240	50	350	2000	1CT / 10X5F	50	864175 00

Twistline Alu 3000 hours



C	D
max.	max.
51	51

Product Description

- Mains-voltage 51 mm diameter reflector lamp with Aluminium reflector

Product Features

- Aluminium version (GU10 lamp base) directs most of its heat to the front
- Quartz burner with a U shaped filament optically positioned in a hard coated aluminium full glass reflector
- Lifetime is 3000 hours 50% more than a standard Twistline
- Clear front glass protects against touching the burner and against dust/moisture
- High and stable light output throughout lifetime

- GU10 bases ensure good retention in the luminaire and easy 'twist' insertion and replacement
- Built in double fuses for additional safety at end of life

Product Benefits

- Aluminium version provides a well defined, homogeneous beam, with no light escaping at the back of the reflector
- No transformers are required, as lamps can be connected directly to the mains supply
- There is less frequent replacement and so less maintenance cost due to increased lifetime
- UV-Block lamp so no additional front glass or UV filter is required for the luminaire

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life

Application

- Designed to replace the standard Twistline type of product range. Due to Professional specification typically used in accent and general lighting in shops, hotels, restaurants, bars etc.

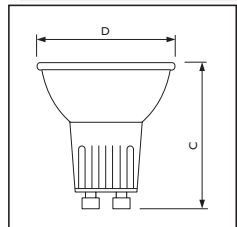
Luminaires

- Conforms to IEC 598 for use in open luminaires
- The luminaire must carry instructions about which lamp should be used (GU10/aluminium)

Twistline Alu 3000h GU10 240V Clear

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece
(W)	(°)	(cd [max.])	(h)				8711500...	(£)
50	25	1000	3000	1CT / 10X5F	50	18030	649447 60	41.36
50	50	600	3000	1CT / 10X5F	50	18032	649478 60	41.36

Twistline Dichroic 3000 hours



C	D
max.	max.
51	51

Product Description

- Mains voltage 51mm diameter reflector lamp with dichroic reflector

Product Features

- Dichroic version (GZ10 lamp base) has a cool beam as a large part of heat is transmitted backwards through the reflector glass. Quartz burner with a U shaped filament optically positioned in a hard coated dichroic full glass reflector
- Clear front glass protects against touching the burner and against dust/moisture
- High and stable light output throughout lifetime

- GZ10 bases ensure good retention in the luminaire and easy 'twist' insertion and replacement
- Built in double fuses for additional safety at end of life

Product Benefits

- Dichroic version provides a well defined, homogeneous beam and sparkling effects in open luminaires, with controlled light spill at the back
- No transformers are required, as lamps can be connected directly to the mains supply
- There is less frequent replacement and so less maintenance cost due to increased lifetime
- UV-Block lamp so no additional front glass or UV filter is required for the luminaire

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life

Application

- Designed to replace the standard Twistline type of product range. Due to Professional specification typically used in accent and general lighting in shops, hotels, restaurants, bars etc.

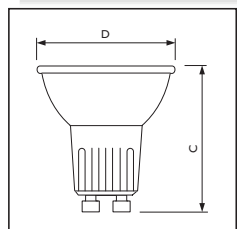
Luminaires

- Conforms to IEC 598 for use in open luminaires
- The luminaire must carry instructions about which lamp should be used (GZ10/cool beam)

Twistline Dichroic 3000h GZ10 240V Clear

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)					
50	25	1000	3000	1CT / 10X5F	50	18034	649508 60	41.36
50	50	600	3000	1CT / 10X5F	50	18036	649539 60	41.36

Twistline Alu 2000 hours



Dim. no.	C	D
	max.	max.
1	51	50.7
2	47.5	50.7

Product Description

- Mains-voltage 50 mm diameter reflector lamp with aluminium reflector

Product Features

- Quartz burner with Lambda-shape filament optically positioned in a hard-coated aluminium-coated reflector
- Aluminium-coated version (GU10 lamp base) directs most of its heat to the front
- No light goes to the back of the reflector
- Clear front glass protects against touching the burner and against dust/moisture
- Distinct MR16 look

- High and stable light output throughout lifetime
- GU10 bases ensure good retention in the luminaire and easy, 'twist and take out' insertion and replacement
- Built-in double fuses for additional safety at end-of-life

Product Benefits

- Lamp can be connected directly to the mains supply, so no transformers are needed
- UV-Block lamp so no additional front glass or UV filter required
- Twistline dichroic and aluminium versions are the most compact lamps of their kind available

Application

- Typically used for accent lighting in homes
- Also used in accent and general lighting in shops, hotels, restaurants, bars etc.

Luminaires

- Conforms to IEC 598 for use in open luminaires
- The luminaire must carry instructions about which lamp should be used (GU10/aluminium)

Twistline Alu 2000h GU10 240V Clear

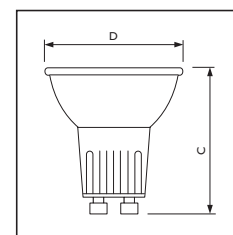
Lamp Wattage		Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)						
35	40	250	2000	1	1CT / 50	50	18042	652805 65	34.46
50	20	1000	2000	2	1CT / 10X5F	50	18073	428509 60	29.84
50	40	400	2000	1	1CT / 10X5F	50	18045	428561 60	34.46

Halogen Twist 2 Year



Product Description

- Mains-voltage halogen reflector lamp with aluminium reflector 50 mm diameter



C	D
max.	max.
47.5	50.7

Halogen Twist 2yr GZ10 240V Clear

Hagerup Model 121 - 2024 E10 - 120V								
Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(°)	(cd [max.])	(h)					
50	20	1000	2000	1CT / 10X5F	50	18078	428417 60	34.46
50	40	400	2000	1CT / 10X5F	50	18075	428448 60	34.46

MASTER PAR20 E



Product Description

- Mains-voltage reflector lamp with ES base and built-in transformer, giving white halogen light

Product Features

- Low-voltage halogen burner
- Easy upgrading of existing PAR 20 or R63 installations; no need for transformer in new installations
- Choice of spot or flood beam widths
- Power conversion from mains to 12V by a built-in electronic transformer
- Aluminium-coated faceted parabolic pressed-glass reflector
- Clear, flat front glass
- Extreme long life of 5000h: twice as high as PAR and five times as high as R63

- Excellent colour rendering
- Crisp white light matches other light sources like metal halide and low-voltage halogen
- Not dimmable

Product Benefits

- Combines the good efficacy and long lifetime of low-voltage halogen technology with the ease of use of PAR HalogenA and R63 lamps
- 20W MasterPAR offers 60% energy saving compared with 50W PAR 20 with similar (flood) or double (spot) intensity, or 66% energy saving compared with 60W R63 and 25% (flood) to 7 times (spot) more light compared to R63

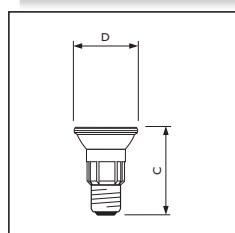
- Unprecedented beam contrast and uniformity for a mains-voltage reflector lamp. Highlights goods and exhibits, adds drama and creates ambience

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant

Application

- Accent and downlighting in shops, hotels, lobbies, bars, restaurants, museums and galleries
- Also very suitable for general lighting in high ceiling situations (eg office and hotel lobbies)



C	D
max.	max.
85.9	63.5

MASTER PAR20 E ES 240V

MASTER TABLE 202401									
Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)					
PAR20	20	10	7000	5000	1CT / 4X3F	12	20PARESP	412393 17	59.96
PAR20	20	25	1200	5000	1CT / 4X3F	12	20PAREFL	412379 17	59.96

HalogenA PAR16



Lamp:

- Mains-voltage 50 mm diameter reflector lamp

Product Features

- Hard-glass halogen burner (M-shaped filament) optically positioned in a parabolic, aluminium-coated pressed-glass reflector (PAR) with new optical pressing design
- Excellent colour rendering
- Crisp white halogen type of light
- Good luminous efficacy
- Long life (twice the lifetime of a normal incandescent lamp)
- Spot versions have slightly stippled front glass to emphasise the sparkling reflector

- Flood versions have a faceted front glass to prevent glare and ensure a homogeneous beam distribution
- Front glass protects the lamp for safety and prevents touching and dust deposits

Product Benefits

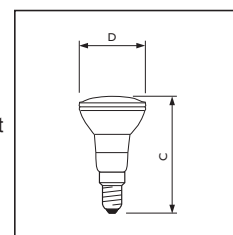
- Bright, sparkling halogen light
- Convenient halogen solutions that fit in standard, existing luminaires
- Retrofit halogen replacement for R50 incandescent reflector lamps

Applications:

- Typically used in home accent and task lighting

Luminaires

- Can be used in any luminaire in which R50 incandescent lamps can be used

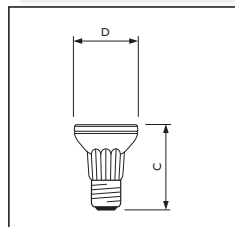


C	D
max.	max.
85	51.2

HalogenA PAR16 SES 240V

Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)					
PAR16	40	25	800	2000	1BL / 10	10	40SESPAR16BP	438614 25	32.52

HalogenA PAR20



C	D
max.	max.
105	64.5

Product Description

- Mains-voltage 63 mm diameter reflector lamp

Product Features

- Hard-glass halogen burner optically positioned in a parabolic, aluminium-coated pressed-glass reflector (PAR) with new optical pressing design
- Excellent colour rendering
- White, crisp sparkling halogen light
- Long life (2.5 times the lifetime of a normal incandescent lamp)
- Spot versions have slightly stippled front glass to emphasise the sparkling reflector

- Flood versions have a faceted front glass to prevent glare and ensure a homogeneous beam distribution
- Front glass protects the lamp for safety and prevents touching and dust deposits

Product Benefits

- Bright, sparkling halogen light
- Convenient halogen solutions that fit in standard, existing luminaires
- Retrofit halogen replacement for R60/R63 incandescent reflector lamps

Application

- Typically used for accent and display lighting in shops, especially for premium goods
- Also used as accent and task lighting in the home

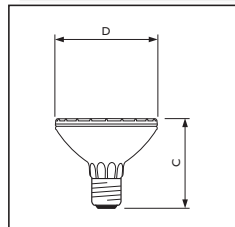
Luminaires

- Can be used in any luminaire in which R60/R63 incandescent lamps can be used
- For outdoor use, the lamp should be protected from direct water contact
- The luminaire must have a waterproof connection between the reflector and the luminaire

HalogenA PAR20 ES 240V

Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)					
PAR20	50	10	2550	2000	1CT / 15	15	50ESHALPAR20SP	494887 20	34.46
PAR20	50	25	850	2000	1CT / 15	15	50ESHALPAR20FL	494900 20	34.46

HalogenA PAR30S



C	D
max.	max.
90.5	97

Product Description

- Mains-voltage 97 mm diameter reflector lamp

Product Features

- Hard-glass halogen burner (linear filament) optically positioned in a parabolic, aluminium-coated pressed-glass reflector (PAR)
- Natural colour rendering
- Sparkling, crisp white halogen light
- Good luminous efficacy
- Long life (two to two and a half times the lifetime of a normal incandescent lamp)

- Spot versions have slightly stippled front glass to emphasise the sparkling reflector
- Flood versions have a faceted front glass to prevent glare and ensure a homogeneous beam distribution
- Front glass protects the lamp for safety and prevents touching and dust deposits

Product Benefits

- Bright, sparkling halogen light
- Convenient halogen solutions that fit in standard, existing luminaires

Application

- Typically used for accent and display lighting in shops, especially for premium goods
- Also used as general lighting in hotels, theaters and lobby areas

Luminaires

- For outdoor use, the lamp should be protected from direct water contact
- The luminaire must have a waterproof connection between the reflector and the luminaire

HalogenA PAR30S ES 240V

Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)					
PAR30S	75	10	5525	2000	1CT / 15	15	75PAR30SSP	504425 20	30.94
PAR30S	75	30	1700	2000	1CT / 15	15	75PAR30SFL	504401 20	30.94

Halogen Spot 2 Year NR-shape



Product Description

- Blown bulb NR reflector lamp with a mains voltage halogen burner

Product Features

- Higher light output than GLS reflector lamps: 40% more with R63 lamps
- Medium wide beam spread

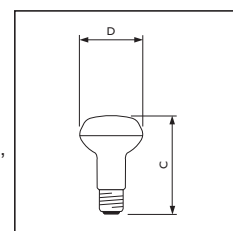
Product Benefits

- Distinctive shape designed to replace standard incandescent NR lamps
- Double the lifetime of standard reflector lamps
- Increased light output compared with incandescent reflector lamps

- Excellent colour rendering
- Bright white halogen light

Application

- All the benefits of high-performance, high-efficiency, bright halogen lighting, simply by replacing standard incandescent NR reflector lamps with halogen reflector lamps of the same size and wattage.
- Display lighting in hotels, restaurants and homes



C	D
max.	nom.
105	63

Halogen Spot 2yr ES 240V Satinised

Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)					
NR63	40	30	750	2000	1CT / 10	10	40ESHALR63SPZP	648822 25	29.74
NR63	60	30	1150	2000	1CT / 10	10	60ESHALR63SPZP	648846 25	29.74

PARcans DE



Product Description

- Double-ended quartz halogen lamps

Product Features

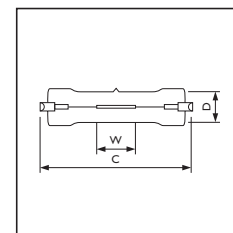
- Precisely aligned grid-type filament assembly with critical tolerances
- Can be used in a horizontal position (overhead projectors)

Product Benefits

- High colour temperature and luminous efficacy remain practically constant throughout lifetime
- Compact size and high light output

Application

- Overhead projectors
- PARcans



C	D	W
max.	max.	nom.
78.3	16	15.3

R7s 230V Clear

Type	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
6365R	17000	75	1CT / 50	50	P26	491923 65	38.02	yes

PARcans SE



- Some lamps have P3 technology

Product Features

- Biplane filament
- Precisely aligned grid-type filament assembly with critical tolerances
- Some types are for use with an external reflector; others have an internal proximity reflector for maximum light collection efficiency
- Prefocus base ensures exact lamp alignment within the optical system
- P3 technology for Reliability, Quality and Freedom:
 - Reliability - longer lifetime with fewer early failures

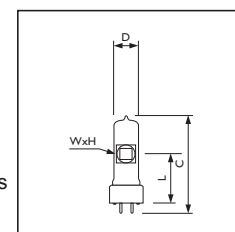
- Quality - excellent storage characteristics and consistent performance over time
- Freedom - in both luminaire design and burning position

Product Benefits

- High colour temperature and luminous efficacy remain practically constant throughout lifetime
- Compact size and high light output

Application

- Overhead projectors
- PARcans



C	D	L	WxH
max.	max.	nom.	nom.
87	22	44.5	11x12

Product Description

- Single-ended bi-pin quartz halogen lamps

GY9.5 230V Reflector

Type	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
7804	22000	75	1CT / 10	10	7804	187352 25	79.09	yes

PAR56 and PAR64

Product Features

- Self-contained spotlight
- Front glass
- Universal burning
- Hot restrike

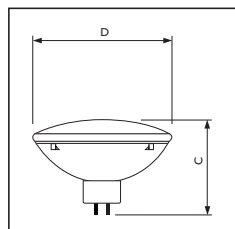
Product Benefits

- Allows details to be picked out over long distances with good beam control
- Excellent for long-range light projections

- Provides thermal and physical protection
- Allows fullest flexibility of luminaire angle and position to obtain the desired effect
- Immediate re-strike after any power interruption

Application

- Ideal for a wide range of performance and event lighting applications, for example in clubs, studios and theaters



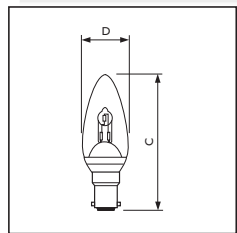
C	D
max.	max.
150	204

PAR64 GX16d 240V

Bulb	Rated Lamp Wattage (W)	Luminous Intensity (°)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	
PAR64	1000	23	1CT / 6	6	CP62240V	440761 10	yes

MV Halogen without Reflector

MASTERClassic



Dim. no.	C max.	D max.
1	103	40

Product Description

- Energy-saving halogen MASTERlamp with EcoBoost technology for 50% savings on energy costs compared with incandescent lamps, while maintaining or even improving the quality of light

Product Features

- Unique Philips patented EcoBoost single-ended burner: 50% higher efficiency than standard products
- Shape and base like classic incandescent lamps, compact size and hidden electronics
- 50% lower energy consumption than an incandescent lamp
- Average lifetime three times longer than an incandescent lamp
- Low-voltage halogen light quality: sparkling, crisp light

- Dimmable
- No mercury content
- Unique, attractive design
- Complete range with Philips EcoBoost technology coated low-voltage halogen capsule

Product Benefits

- Retrofit replacement for standard incandescent lamps
- Big energy savings
- Lower replacement costs due to longer burning hours
- Creates a warm, attractive light
- Supports a green environment
- Familiar, incandescent-look design
- Lower cost of ownership compared with incandescent lamps

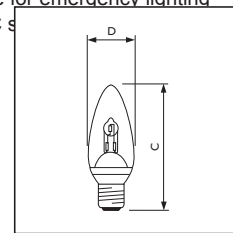
Environment

- Excellent environmental choice because of high energy efficiency and long reliable life

- This product is a Philips Green Flagship
- This product is RoHS compliant

Application

- Replacement for incandescent lamps in most professional and semi-professional applications
- Indoor lighting (e.g. hotels, restaurants, offices)
- Enclosed fixtures required for outdoor applications
- Suitable for emergency lighting with DC s



Dim. no.	C max.	D max.
2	103	40

MASTERClassic 240V

Bulb	Lamp Wattage	Cap-Base	Bulb Finish	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
	(W)				(lm)	(h)						
B35	20	SBC	Clear	B	370	3000	1	1CT / 12	12	18216	252392 15	23.57
B35	20	ES	Frosted	B	365	3000	2	1CT / 12	12	18212	250411 15	

EcoClassic30 A-shape



Product Description

- Energy-saving mains-voltage halogen lamp in classic A shape

Product Features

- Direct retrofit for the corresponding incandescent lamps
- Wide choice of wattages to replace classic incandescent range from 40 W to 200 W

- Available with E27, E14 and B22 caps
- 2000 hours lifetime

Product Benefits

- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with classic incandescent lamps
- Creates an attractive ambience
- Dimmable

Environment

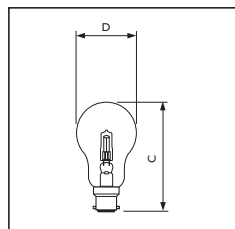
- Excellent environmental choice because of high energy efficiency and long reliable life

Application

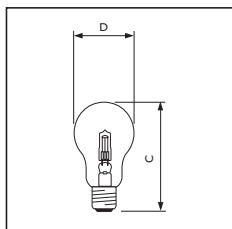
- General lighting applications in homes, shops, hotels and restaurants

Luminaires

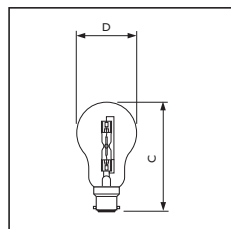
- Fits the same classic luminaires as the corresponding incandescent lamps



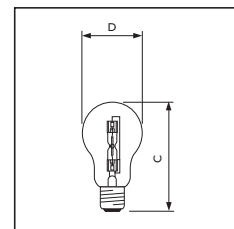
Dim. no.	C max.	D max.
1	105.5	61



Dim. no.	C max.	D max.
2	107	61



Dim. no.	C max.	D max.
3	105.5	61



Dim. no.	C max.	D max.
4	107	61

EcoClassic30

Bulb	Lamp Wattage	Cap-Base	Voltage	Bulb Finish	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
	(W)		(V)			(lm)	(h)						
A60	28	BC	240	Clear	D	340	2000	1	1CT / 10	10	28BCECOCL1CT	252859 25	
A60	28	BC	240	Frosted	D	340	2000	1	1CT / 10	10	28BCECO30FR	252866 25	5.99
A60	28	ES	240	Frosted	D	340	2000	2	1CT / 10	10	28SESECO30FR	252842 25	5.99
A60	42	BC	240	Clear	C	630	2000	1	1CT / 10	10	42BCECO30CL1CT	251876 25	8.15
A60	42	BC	240	Frosted	C	630	2000	1	1CT / 10	10	42BCECO30FR1CT	251913 25	8.15
A60	42	ES	240	Clear	C	630	2000	2	1CT / 10	10	42ESECO30CL1CT	251791 25	8.15
A60	42	ES	240	Frosted	C	630	2000	2	1CT / 10	10	42ESECO30FR1CT	251838 25	8.15
A60	53	BC	240	Clear	C	850	2000	1	1CT / 10	10	53BCECO30CL1CT	251883 25	8.15
A60	53	ES	240	Clear	C	850	2000	2	1CT / 10	10	53ESECO30CL1CT	251807 25	8.15
A60	53	ES	240	Frosted	C	850	2000	2	1CT / 10	10	53ESECO30FR1CT	251845 25	8.15
A60	70	BC	240	Clear	C	1200	2000	3	1CT / 10	10	70BCECO30CL1CT	251890 25	
A60	70	BC	240	Frosted	C	1200	2000	3	1CT / 10	10	70BCECO30FR1CT	251937 25	
A60	70	ES	240	Clear	C	1200	2000	4	1CT / 10	10	70ESECO30CL1CT	251814 25	
A60	70	ES	240	Frosted	C	1200	2000	4	1CT / 10	10	70ESECO30FR1CT	251852 25	
A60	105	BC	240	Clear	C	1980	2000	3	1CT / 10	10	105BCECO30CL1CT	251906 25	
A60	105	ES	240	Clear	C	1980	2000	4	1CT / 10	10	105ESECO30CL1CT	251821 25	
A60	105	ES	240	Frosted	C	1980	2000	4	1CT / 10	10	105ESECO30FR1CT	251869 25	
A60	140	BC	230	Clear	C	2800	2000	3	1CT / 10	10	140BCE30CL230V	252576 25	
A60	140	BC	230	Frosted	D	2800	2000	3	1CT / 10	10	140BCE30FR230V	252583 25	
A60	140	ES	240	Frosted	C	2800	2000	4	1CT / 10	10	140ESECO30FR1CT	252590 25	13.04

EcoClassic30 Candle B35



Product Description

- Energy-saving mains-voltage halogen lamp in classic B35 shape

Product Features

- Direct retrofit for the corresponding incandescent lamps
- Replaces classic incandescent 40W lamp
- Available with E14 and B22 caps
- 2000 hours lifetime

Product Benefits

- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with classic incandescent lamps
- Creates an attractive ambience
- Dimmable

Environment

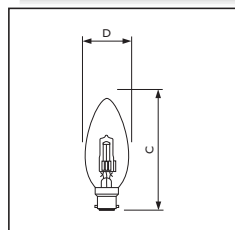
- Excellent environmental choice because of high energy efficiency and long reliable life

Application

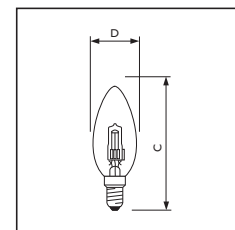
- General lighting applications in homes, shops, hotels and restaurants

Luminaires

- Fits the same classic luminaires as the corresponding incandescent lamps



Dim. no.	C max.	D max.
1		
2	94.5	36



Dim. no.	C max.	D max.
3		
4	99.5	36

EcoClassic30 240V

Bulb	Lamp Wattage	Cap-Base	Bulb Finish	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
	(W)				(lm)	(h)						
B35	18	BC	Clear				1	1CT / 15	15		862645 00	
B35	18	SES	Clear				3	1CT / 15	15		862683 00	
B35	28	BC	Clear	D	340	2000	2	1CT / 15	15	28BCCECO30CL	252736 20	5.99
B35	28	BC	Frosted	D	340	2000	2	1CT / 15	15	28BCCECO30FR	253023 20	5.99
B35	28	SES	Clear	D	340	2000	4	1CT / 15	15	28SESECO30CL	252712 20	5.99
B35	28	SES	Frosted	D	340	2000	4	1CT / 15	15	28SESECO30FR	252729 20	5.99

EcoClassic30 Twisted Candle B35

Product Description

- Energy-saving Mains-voltage halogen lamp in Twisted candle shape

Product Features

- Direct retrofit for the corresponding incandescent lamps

- Replaces classic incandescent 40W lamp
- Available with E14 and B22 caps
- 2000 hours lifetime
- UV-block glass

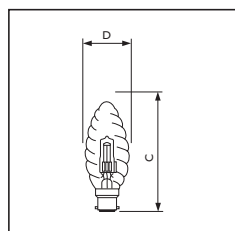
Product Benefits

- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with standard incandescent lamps
- Excellent color rendering

- Creates an attractive ambience
- Dimmable

Application

- General lighting applications in homes, shops, hotels and restaurants



EcoClassic30 BC 240V Clear

Bulb	Lamp Wattage (W)	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
BW35	18	1CT / 15	15	863765 00
BW35	42	1CT / 15	15	863802 00

EcoClassic30 P45

Product Description

- Energy-saving mains-voltage halogen Lustre lamp in P45 shape

Product Features

- Direct retrofit for the corresponding incandescent lamps

- Replaces classic incandescent 40W lamp
- Available with E14 and B22 caps
- 2000 hours lifetime
- UV-block glass

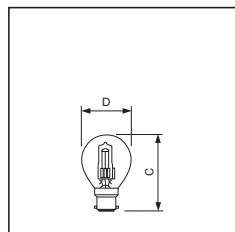
Product Benefits

- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with standard incandescent lamps
- Excellent color rendering

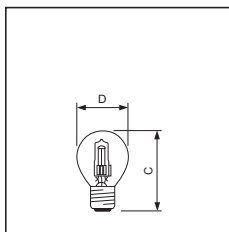
- Creates an attractive ambience
- Dimmable

Application

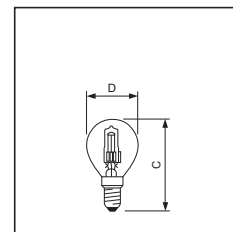
- General lighting applications in homes, shops, hotels and restaurants



Dim. no. 1



Dim. no. 2



Dim. no. 3

EcoClassic30 240V Clear

Bulb	Lamp Wattage (W)	Cap-Base	Dim. no.	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
P45	28	BC	1	1CT / 20	20	862966 01
P45	28	ES	2	1CT / 20	20	863000 01
P45	42	SES	3	1CT / 20	20	862942 01
P45	42	BC	1	1CT / 20	20	862980 01
P45	42	ES	2	1CT / 20	20	863710 00

Plusline ES Compact



Product Description

- Main-voltage double-ended linear halogen lamp with energy-saving capability

Product Features

- White halogen light with excellent color rendering
- Universal position
- Two arc-preventing fuses for greater safety
- Constant light output during life
- Replacement range for PlusLine in European countries

Product Benefits

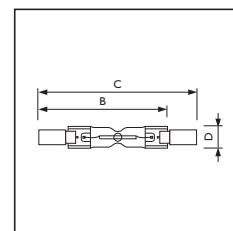
- 20% energy saving
- Compliant with new EU regulation EEL C

Application

- Indoor: homes, offices, shops, museums
- Outdoor: billboards, car park security lighting

Luminaires

- Must be used in luminaires with front cover glass

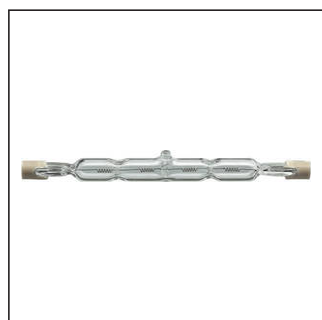


B	C	D
nom.	max.	max.
74.9	78.3	12

Plusline ES Compact R7s 230V Clear

Bulb	Lamp Wattage (W)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
T4	48	C	750	2000	1BB / 10X10CC	100	852318 00
T4	80	C	1400	2000	1BB / 10X10CC	100	852288 00
T4	120	C	2300	2000	1BB / 10X10CC	100	852233 00

Plusline ES Small



Product Description

- Main-voltage double-ended linear halogen lamp with energy-saving capability

Product Features

- White halogen light with excellent color rendering
- Universal position
- Two arc-preventing fuses for greater safety
- Constant light output during life
- Replacement range for PlusLine in European countries

Product Benefits

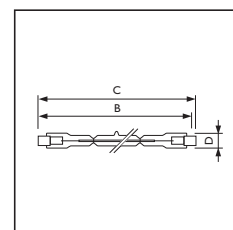
- 20% energy saving
- Compliant with new EU regulation EEL C

Application

- Indoor: homes, offices, shops, museums
- Outdoor: billboards, car park security lighting

Luminaires

- Must be used in luminaires with front cover glass



B	C	D
nom.	max.	max.
114.2	117.6	12

Plusline ES Small R7s 230V Clear

Bulb	Lamp Wattage	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
	(W)		(lm)	(h)			
T4	120	C	2250	2000	1BB / 10X10CC	100	852165 00
T4	160	C	3100	2000	1BB / 10X10CC	100	852196 00
T4	240	C	4900	2000	1BB / 10X10CC	100	853803 00
T4	400	C	8700	2000	1BB / 10X10CC	100	853896 00

HalogenA IDE



Product Description

- Mains-voltage high-wattage double-envelope giving a white halogen light

Product Features

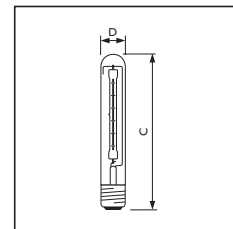
- Quartz burner with a linear tungsten filament in a single-ended thermal-shock-resistant clear glass tubular envelope
- High luminous efficacy
- Excellent colour rendering

Application

- Typical application: outdoor floodlighting such as sport grounds, car parks, building sites, harbours and airport aprons
- Also used in Indoor applications: public halls, factories, sport halls etc.

Luminaires

- Should be used in enclosed luminaires or lighting systems

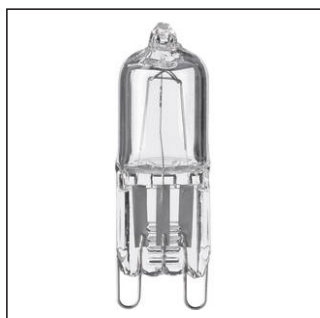


Dim. no.	C max.	D max.
1	220	38.5
2	260	38.5

HalogenA IDE GES 240V Clear

Lamp Wattage	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)	(lm)	(h)						(£)
500	10000	2000	1	1CT / 6	6	500IDE	491275 10	108.11
1000	24000	2000	2	1CT / 6	6	1000IDE	491299 10	131.73

Clickline MV



Product Description

- Single-ended mains-voltage capsule

Product Features

- UV block quartz glass
- G9 base for easy insertion and replacement

Product Benefits

- The most compact capsule in its range
- Mains voltage so no transformer needed

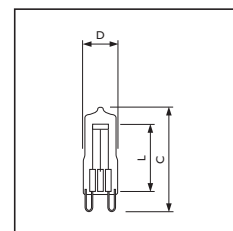
- Available in a clear and a frosted version for softer light effects
- Easily dimmable

Application

- Accent and general lighting in homes, hotels, bars and restaurants

Luminaires

- Ideal for use in small, lightweight, open luminaires
- A covered luminaire is not required according to IEC 357 and 432-2



C max.	D max.	L nom.
44.6	12.75	21.7

Clickline G9 240V

Lamp Wattage	Bulb Finish	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)			(lm)	(h)					(£)
25	Clear	E	210	2000	1CT / 10X10F	100	25CLICKCL	429759 50	15.83
40	Clear	D	490	2000	1CT / 10X10F	100	40CLICKCL	429810 50	15.83
40	Frosted	E	460	2000	1CT / 10X10F	100	40CLICKFR	429841 50	15.83
60	Clear	D	820	2000	1CT / 10X10F	100	60CLICKCL	429872 50	15.83
60	Frosted	D	790	2000	1CT / 10X10F	100	60CLICKFR	429902 50	15.83

Plusline Compact (double ended)



Product Description

- Mains-voltage linear with a coiled-coil filament, giving white halogen light

Product Features

- Double-ended high-efficacy lamps
- Clear tubular quartz bulb
- Reinforced filament supports for maximum safety and shock resistance resulting in longer lifetime
- Two arc-preventing fuses for greater safety
- Excellent colour rendering
- Constant light output during life

Product Benefits

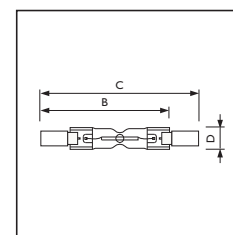
- 20% more light than ordinary double-ended
- Long lifetime

Application

- Typically used in shop lighting applications
- Indoor: homes, offices, shops and museums
- Outdoor: billboards, car parks, security lighting and construction sites

Luminaires

- Must be used in luminaires with a front cover glass

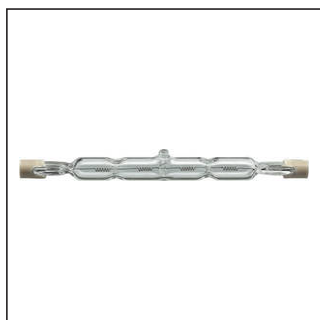


B	C	D
nom.	max.	max.
74.9	78.3	12

Plusline Compact R7s 240V Clear

Lamp Wattage	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)		(lm)	(h)					
100	D	1550	2000	1BB / 10X10BOX	100	K14	058270 26	21.12
150	D	2550	2000	1BB / 10X10BOX	100	K12	058287 26	21.12

Plusline Small (double ended)



Product Description

- Mains-voltage linear with a coiled-coil filament, giving white halogen light

Product Features

- Double-ended high-efficacy lamps
- Clear tubular UV block quartz bulb
- Reinforced filament supports for maximum safety and shock resistance resulting in longer lifetime
- Two arc-preventing fuses for greater safety
- Excellent colour rendering
- Constant light output during life

Product Benefits

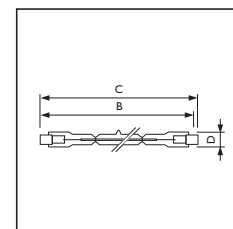
- 20% more light than ordinary double-ended
- Long lifetime

Application

- Typically used in shop lighting applications
- Indoor: homes, offices, shops and museums
- Outdoor: billboards, car parks, security lighting and construction sites

Luminaires

- Must be used in luminaires with a front cover glass

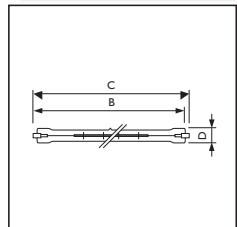
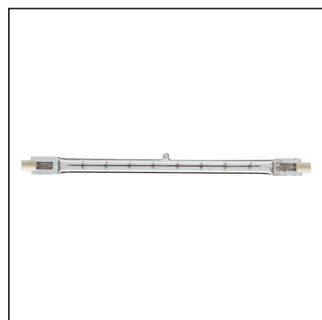


B	C	D
nom.	max.	max.
114.2	117.6	12

Plusline Small R7s Clear

Lamp Wattage	Voltage	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)	(V)		(lm)	(h)					
200	240	D	3520	2000	1BB / 10X10BOX	100	K11	058294 26	23.41
300	120	D	5200	3000	1BB / 10X10BOX	100	115K9	494665 26	23.41
300	240	D	5600	2000	1BB / 10X10BOX	100	K9	058317 26	23.41
500	120	D	9500	3000	1BB / 10X10BOX	100	120K1	494634 26	23.41
500	240	D	9900	2000	1BB / 10X10BOX	100	K1	058324 26	23.41

Plusline Large (double ended)



Dim. no.	B nom.	C max.	D max.
1	185.7	189.1	11
2	250.7	254.1	11

Product Description

- Mains-voltage linear with a coiled-coil filament, giving white halogen light

Product Features

- Double-ended high-efficacy lamps
- Clear tubular quartz bulb
- Reinforced filament supports for maximum safety and shock resistance resulting in longer lifetime

- Limited burning position: $\pm 4^\circ$
- Excellent colour rendering
- Constant light output during life

Product Benefits

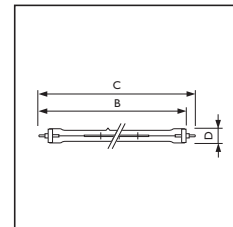
- 20% more light than ordinary double-ended
- Long lifetime
- Safe in use

Application

- Typically used in outdoor applications: billboards, car parks, security lighting and construction sites
- Also used in Indoor applications: homes, offices, shops and museums

Luminaires

- Must be used in luminaires with a front cover glass

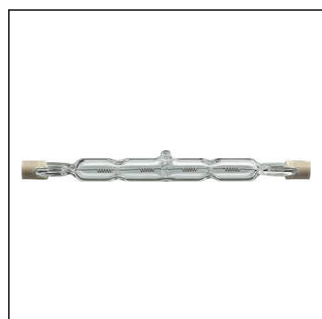


Dim. no.	B nom.	C max.	D max.
3	322	334.4	11

Plusline Large Clear

Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
(W)		(V)	(lm)	(h)						
750	R7s	240	16875	2000	1	1CT / 10	10	K3	055958 25	48.00
1000	R7s	120	22000	2000	1	1CT / 10	10	120K4	494856 25	48.00
1000	R7s	240	24200	2000	1	1CT / 10	10	K4	055972 25	48.00
1500	R7s	240	36300	2000	2	1CT / 10	10	K5	055996 25	48.00
2000	FA4	240	48400	2000	3	1CT / 10	10	K6	056016 25	48.00

ESline Small



Product Description

- Mains-voltage, double-ended linear halogen lamp with energy-saving capabilities

Product Features

- Fully interchangeable with mains-voltage double-ended linear halogen lamps
- Same product features and benefits as Plusline double-ended halogen lamps
- Constant light output during life.
- Reinforced filament to increase shock resistance
- Two arc-preventing fuses for greater safety

Product Benefits

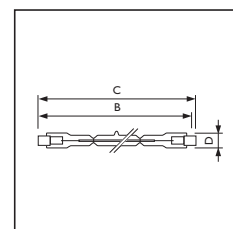
- 20% to 30% energy savings
- White halogen light with excellent color rendering

Application

- Indoor: homes, offices, shops, museums
- Outdoor: billboards, car park security lighting.

Luminaires

- Must be used in luminaires with a front cover glass

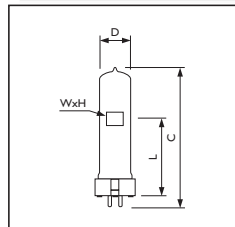


B nom.	C max.	D max.
114.2	117.6	12

Plusline ES Small R7s 230V Clear

Bulb	Lamp Wattage	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration	Packs per outer box	Ordering number 8727900...
	(W)		(lm)	(h)			
T4	240	C	4900	2000	1BB / 10X10CC	100	853803 00
T4	400	C	8700	2000	1BB / 10X10CC	100	853896 00

Hi-Brite



Dim. no.	C max.	D max.	L nom.
1	95	22	46.5

Product Features

- Philips Pinch Protection
- Compact, shock resistant design
- Compact filament

Product Benefits

- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time



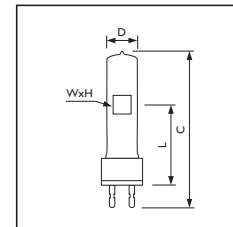
Philips Pinch Protection technology

- **Reliability**, through longer lifetime and fewer early failures,
- **Quality**, through excellent storage characteristics and consistent performance over time,
- **Compactness**, allowing more compact design of fixtures and burning positions,

- Easy handling, ideal for moving head systems
- High beam intensity resulting in reduced energy consumption (1200W instead of 2500W)

Application

- Studio and film lighting
- Stage and theatre lighting
- Touring and show lighting

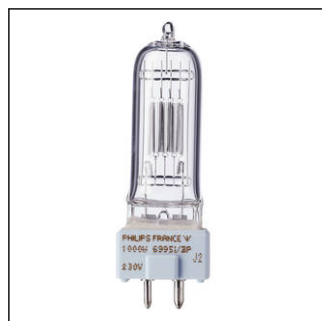


Dim. no.	C max.	D max.	L nom.	WxH nom.
2	140	25	63.5	12.0x10.5

Clear

Type	Cap-Base	Voltage (V)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
7015TXO	GX9.5	100			1	1CT / 10	10	7015TXO	505576 25	231.00	yes
6980Z	G22	80	36000	200	2	1CT / 10	10	CP110	519467 25	126.20	yes

Blue Pinch



Product Features

- Lamp pinch can be operated at up to 500°C
- Enables a significant reduction of light centre length (LCL), or an increase in lamp power by up to 300 per cent with same LCL, compared with unprotected lamps
- Biplane filament
- Unique pinch protection

Product Benefits

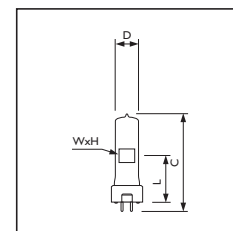
- Meet the needs of fixture manufacturers who wish to create compact and lightweight luminaires without sacrificing lumen output or lamp life

Application

- Studio and film lighting
- Stage and theatre lighting
- Disco and show lighting

Luminaires

- Pinch-protected lamps must be used in dedicated luminaires



C max.	L nom.	WxH nom.
95	46.5	11.0x14.0

GY9.5 240V Clear

Type	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
6995I/BP	25000	250	1CT / 10	10	6995BP	496072 25	125.33	yes

Compact Source



Product Features

- Reduced energy consumption allows more luminaires to be operated on each dimmer
- P3 technology for Reliability, Quality and Freedom:
 - Reliability - longer lifetime with fewer early failures
 - Quality - excellent storage characteristics and consistent performance over time
 - Freedom - in both luminaire design and burning position

Product Benefits

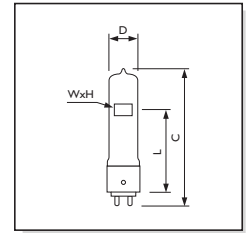
- Increased shock-resistance through improved construction of filament support
- Combination of innovative luminaire reflector design and the Philips Compact Source lamps produces greater efficiency of the total optical system

Application

- Studio, stage and entertainment lighting

Luminaires

- These lamps are the ideal solution for the latest generation of high-performance luminaires



C	D	L	WxH
max.	max.	nom.	nom.
101	19	60.5	8.5x13.0



Philips Pinch Protection technology

- **Reliability**, through longer lifetime and fewer early failures,
- **Quality**, through excellent storage characteristics and consistent performance over time,
- **Compactness**, allowing more compact design of fixtures and burning positions.

G9.5 240V Clear

Type	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
6986P	15000	300	1CT / 10	10	GKV	498571 25	98.74	yes

Halogen High Voltage SE (Theater)



Product Features

- Staggered filament construction emits up to 25% more light from the focal point of the optical system, depending on the type of luminaire
- Designed for use in luminaires where longer life is of greater importance
- P3 technology for Reliability, Quality and Freedom:

- Reliability - longer lifetime with fewer early failures
- Quality - excellent storage characteristics and consistent performance over time
- Freedom - in both luminaire design and burning position

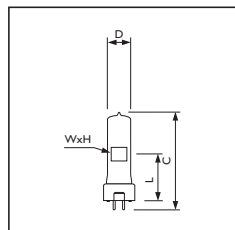
Product Benefits

- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time.
 - Ideal for theater lighting applications
- ### Application
- Stage and theatre lighting
 - Effect lighting for discos and shows

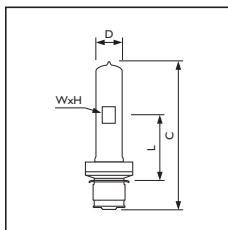


Philips Pinch Protection technology

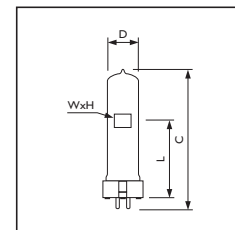
- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.



Dim. no.	C max.	D max.	L nom.	WxH nom.
1	80	18	46.5	8x14
2	90	22	46.5	11x13
3	85	18	46.5	8x14



Dim. no.	C max.	D max.	L nom.	WxH nom.
4	130	22	55.6	11x11
5	125	22	55.6	11x12

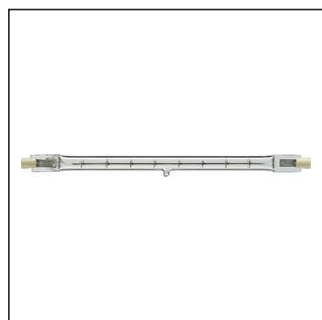


Dim. no.	C max.	D max.	L nom.	WxH nom.
6	110	22	55	11x12
7	110	23	55	15x13
8	120	25	67	16x14

240V Clear

Type	Cap-Base	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
6874P	GY9.5	5200	2000	1	1CT / 10	10	M38	187673 25	60.08	yes
6800C	P28s	9500	900	4	1CT / 10	10	T24	184849 25	108.11	yes
6820P	GY9.5	11000	360	2	1CT / 10	10	T25	184634 25	93.64	yes
6877P	GY9.5	10000	2000	3	1CT / 10	10	M40	187710 25	89.69	yes
6823P	GY9.5	14500	600	2	1CT / 10	10	T27	184573 25	100.09	yes
6998C	P28s	12600	750	5	1CT / 10	10	T22	185082 25	130.92	yes
6998P	GX9.5	12600	900	6	1CT / 10	10	T21	184900 25	120.37	yes
6996P	GX9.5	21000	900	7	1CT / 10	10	T19	184962 25	112.34	yes
6897P	GX9.5	27600	480	8	1CT / 10	10	T29	184788 25	120.43	yes

Halogen High Voltage DE



Product Features

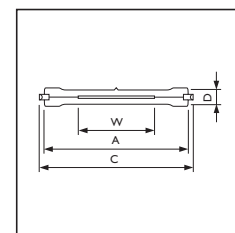
- Colour temperature 3200K

Product Benefits

- Studio/film: Good color rendering
- Video: Makes attractive, accurately exposed pictures possible

Application

- Studio and film lighting
- Disco lighting
- Theatre lighting



Dim. no.	A nom.	C max.	D max.	W nom.
1	185.7	189.1	11	120
2	74.9	78.3	15.8	25
3	114.2	117.5	11	60
4	88.4	91.8	16	25

R7s

Type	Voltage (V)	Bulb Finish	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
7775R/16	240	Frosted	16250	150	1	1CT / 10	10	P210	492074 25	57.37	yes
13162R	240	Clear	21600	75	2	1CT / 50	50	P213	491954 65	55.96	yes
13477R	240	Clear	24400	150	3	1CT / 10	10	P211	492173 25	54.52	yes
13704R	230	Clear	26600	150	4	1CT / 50	50	P235	491657 65	59.41	yes
13989R	240	Clear	26000	200	1	1CT / 10	10	P27	492036 25	60.72	yes
7786R	240	Clear	30000	300	3	1CT / 10	10	P220	492135 25	54.47	yes
6358R	240	Clear	33750	200	1	1CT / 10	10	P212	492050 25	56.99	yes

Halogen High Voltage SE (Film/Studio)



Product Features

- High lumen output
- All lamps have a correlated colour temperature of 3200K
- P3 technology for Reliability, Quality and Freedom:
 - Reliability - longer lifetime with fewer early failures

- Quality - excellent storage characteristics and consistent performance over time
- Freedom - in both luminaire design and burning position

Product Benefits

- Studio/film:
 - High lumen output
 - Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time.

• Video:

- Makes attractive, accurately exposed pictures possible

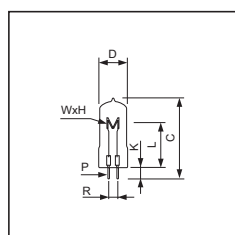
Application

- Studio and film lighting
- Disco lighting
- Theatre lighting

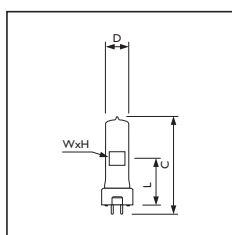


Philips Pinch Protection technology

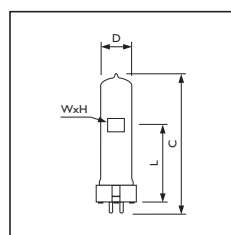
- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.



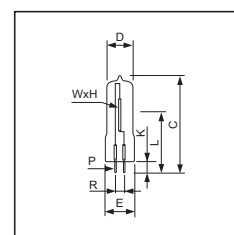
Dim. no.	C	D	L	P	WxH
1	54	18	30	1	8x9
2	56	18	31.5	1	8x9



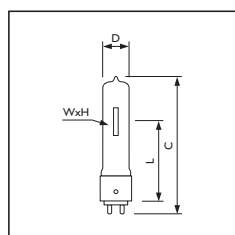
Dim. no.	C	D	L	WxH
3	90	18	46.5	6x13
4	90	18	46.5	8x18
5	75	22	36.5	11x11
6	90	22	46.5	11x12



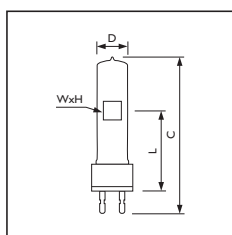
Dim. no.	C	D	L	WxH
7	110	22	55	10x10
8	110	23	55	15x13



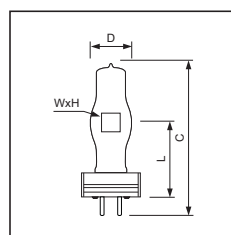
Dim. no.	C	D	L	P	WxH
9	67	18	41	1	22



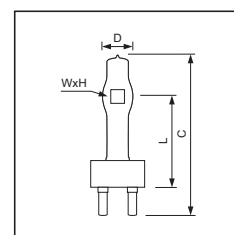
Dim. no.	C	D	L	WxH
10	105	20	60.5	7x21



Dim. no.	C	D	L	WxH
11	140	28	63.5	11x14
12	175	40	90	14x13
13	175	40	90	20x21



Dim. no.	C	D	L	WxH
14	145	40	70	18x18



Dim. no.	C	D	L	WxH
15	210	40	127	18x18
16	280	62	165	26x29

Clear

Type	Rated Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
VL150	150	GX6.35	240	3750	20	1	1CT / 20	20	VL150	497024 05	31.30	yes
6872P	300	GY9.5	240	7050	180	3	1CT / 10	10	CP81	187598 25	54.64	yes
VL300	300	GX6.35	240	8550	20	2	1CT / 20	20	VL300	497260 05	31.30	yes
6873P	500	GY9.5	240	13500	180	4	1CT / 10	10	CP82	187635 25	85.53	yes
7389	500	GY9.5	240	14000	75	5	1CT / 10	10	A1244	187239 25	55.64	yes
6638P	650	GY9.5	240	16500	180	6	1CT / 10	10	CP89	184511 25	78.93	yes
6993P	650	GX9.5	230	16500	120	7	1CT / 10	10	6993P	185174 25	127.60	yes
PF810	650	G6.35	240	21100	15	9	1CT / 20	20	P114	497000 05	38.27	yes
6983P	1000	G9.5	240	26000	180	10	1CT / 10	10	CP77	184696 25	139.28	yes
6995P	1000	GX9.5	240	25000	240	8	1CT / 10	10	CP70	185143 25	165.40	yes
6995Z	1000	G22	240	25000	240	11	1CT / 10	10	CP71	185686 25	173.82	yes
6975Z	2000	G22	240	50000	400	12	1CT / 10	10	CP92	504760 25	207.38	yes
6994P	2000	GY16	240	50000	480	14	1CT / 10	10	CP72	185860 25	221.77	yes
6994Z	2000	G38	240	50000	480	15	1CT / 10	10	CP73	186584 25	221.77	yes
6894Y	2500	G22	240	65000	400	13	1CT / 10	10	CP91	506498 25	241.61	yes
6963Z	5000	G38	240	132500	420	16	UNP / 1	1		186782 00		

Halogen FastFit



Product Description

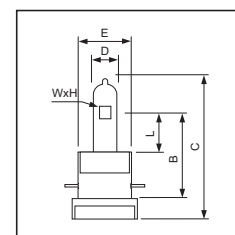
- FastFit is also available in several MSR/MSD Gold™ versions and Ceramic ST.

Product Features

- Philips FastFit
- Compact Filament
- Philips P3 pinch protection technology
- Compact, shock resistant design

Product Benefits

- Lamp replacement in just seconds, exchangeable with HID lamp
- High beam intensity
- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
- Ease handling, ideal for moving head systems



B	C	D	E	L	WxH
max.	max.	max.	max.	nom.	nom.
65	125	19	41	26	8.5x9.5



Philips Pinch Protection technology

- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.

PGJX50 80V Clear

Type	Rated Lamp Wattage	Lamp Luminous Flux	Life to 50% failures	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)	(lm)	(h)						
7017G	750	22500	300	1CT / 10	10	750W80VFASTFIT	507952 25	323.40	yes

Video/Photo/ENG SE



Product Description

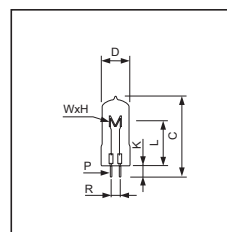
- Single-ended mains-voltage halogen lamps

Product Benefits

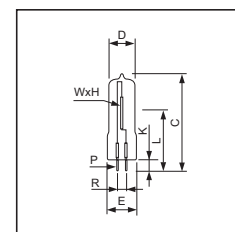
- High, constant light output and high colour temperature form the basis for making attractive, accurately exposed pictures

Application

- Portable film and video lights
- Reproduction cameras
- Modelling lights for flash equipment
- ENG (Electronic News Gathering)



Dim. no.	C	D	L	P	WxH
	max.	max.	nom.	nom.	nom.
1	54	18	30	1	8x9
2	56	18	31.5	1	8x9

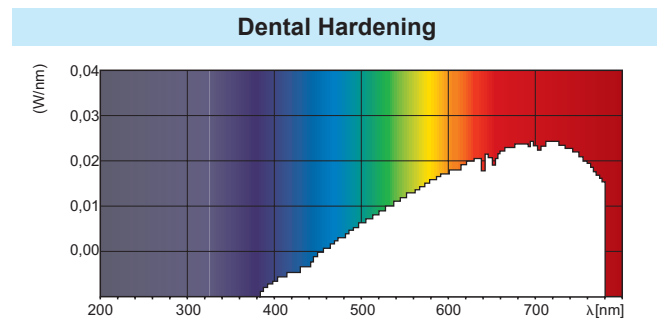


Dim. no.	C	D	L	P	WxH
	max.	max.	nom.	nom.	nom.
3	67	18	41	1	22

240V Clear

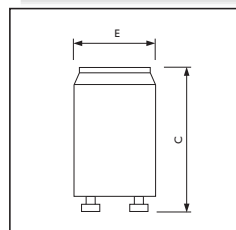
Type	Rated Lamp Wattage	Cap-Base	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(lm)	(h)							
VL150	150	GX6.35	3750	20	1	1CT / 20	20	VL150	497024 05	31.30	yes
VL300	300	GX6.35	8550	20	2	1CT / 20	20	VL300	497260 05	31.30	yes
PF810	650	G6.35	21100	15	3	1CT / 20	20	P114	497000 05	38.27	yes

Spectral Distribution



Starters for Fluorescent Lamps

Ecoclick Starters



C	E
max.	max.
40.3	21.5

Product Description

- Range of premium-quality glow switch starters for igniting fluorescent lamps with electromagnetic ballast.

Product Features

- Redesigned canister top with 2 installation notches into which the pins of another starter fit perfectly (patented innovation)
- Radioactive-free (patented) and lead-free (RoHS-compliant)
- Premium reliability with 10,000 safe switches
- 2-pin igniter in plastic (flame-retardant polycarbonate) canister with high-quality radio-interference suppression capacitor
- Well-defined preheat and peak voltage ensure proper ignition

Product Benefits

- The only starter that offers fast, easy installation with no need to use any extra tools

- No irritation – even firmly stuck starters can be removed easily
- Eco-friendly, recyclable concept (free of lead and radioactivity)
- More than 25% longer lamp life; lower maintenance costs compared with lower-quality, non-IEC-compliant starters
- Optimal connectivity through brass components and oxidation-resistant brass pins
- Flame-retardant components and UV-resistant canister for additional safety and secure ignition (validated by Underwriters Laboratories UL)

Application

- Ignite fluorescent lamps of all brands with conventional electromagnetic ballast using TL-D (T8), TL (T12), TL mini and PL-L lamps
- S2 Ecoclick starters are suitable for:

- 110/130V, 4-22W single applications
- 220/240V, 4-6-8-15-18-22W single applications
- 220/240V, 4-22W series applications

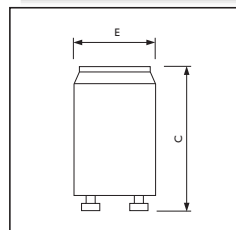
- S10 Ecoclick starters are suitable for 220/240V, 4-65W single applications
- S10 Ecoclick starter is required for 220/240V, 13W single application
- S2 Ecoclick starter is recommended for 220/240V, 18W single application for optimum performance

System

- Starter replacement recommended when replacing fluorescent lamps

Type	Lamp Wattage	System Description	Voltage	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(V)					
S2	4-22	Series	220-240	UNP / 1000	1000	S21000W	697509 28	2.37
S2	4-22	Series	220-240	1NO / 20X10CT	200	S210W	697509 31	2.37
S10	4-65	Single	220-240	UNP / 1000	1000	S101000W	697691 28	2.29
S10	4-65	Single	220-240	1NO / 20X10CT	200	S1010W	697691 31	2.29

Safety & Comfort Starters



C	E
max.	max.
40.3	21.5

Product Description

- Range of premium quality electronic starters for igniting fluorescent lamps operating on conventional electromagnetic ballast.

Product Features

- S2E - S10E
 - Instant flicker-free ignition (nom. 2.3 sec)
 - Full thermal safety monitor which cuts off defective or end-of-life lamps
 - Cut-off circuit to protect the starter and overheating of the control gear
 - Premium reliability with 100.000 safe switches
 - Radioactive-free (patented) and lead-free (RoHS-compliant)

- 2-pin igniter in plastic (flame-retardant polycarbonate) canister
- Narrowed top & installation notch

Product Benefits

- S2E - S10E
 - Lower cost of lighting ownership:
 - Lamps last much longer thanks to a totally smooth, flicker-free and fast starting. /
 - Electronic starters turn off lamps at end of life, which avoids irritation (no flickering), useless electricity consumption and fire risk. /
 - Longer starter service life compared to conventional starters
 - Contribution to a green environment (no lead and no radioactivity)

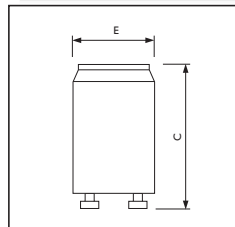
- Flame-retardant components & UV resistant canister lead to additional safety and a secure ignition
- Easy recognition & installation and replacement friendly

Application

- Starters are used in conventional electromagnetic fluorescent lamp systems using TL-D (T8), TL (T12), TL mini, PL-S and PL-L lamps.
- S2-E starters are suitable for:
 - 110/130V, 18-22W single applications
 - 220/240V, 18-22W series applications
- S10-E starters are suitable for:
 - 220/240V, 18-75W single applications

Type	Lamp Wattage	System Description	Voltage	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(V)					
S10E	18-75	Single	220-240	1NO / 20X25CT	500	S10EL	764973 26	17.72

Special Lighting Starters



C	E
max.	max.
40.3	21.5

Product Description

- Range of glow switch starters for igniting fluorescent tanning lamps with electromagnetic ballast
- 2-pin igniter in plastic (flame-retardant polycarbonate) canister and radio-interference suppression capacitor

Product Features

- Premium reliability with less than 100 early failures per million products (<100 ppm)
- Premium reliability with 10000 switches guaranteed
- No hazardous radioactive isotopes used for activating the glow switch
- Lead-free and compliant with European RoHS legislation (Reduction of Hazardous Substances)

- Secure, safe and fast ignition on both inductive (L) and capacitive (LC) lighting systems acc. to IEC 60155
- Controlled preheating of the lamp filaments and sufficient pulse voltage for longer lamp life (>25% compared with cheap starters)

Product Benefits

- Premium quality ensures trouble-free operation; extremely low early replacements reduce maintenance costs
- The world's only starters which are radioactive free and lead free, avoiding hazardous substances in manufacturing and recycling
- Secure, safe and fast lamp ignition on both L and LC systems according to IEC 60155

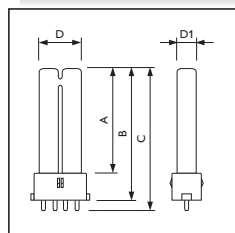
- Safe end-of-life behaviour prevents safety issues
- UV-resistant canister protects against unsafe conditions

Application

- Fluorescent lamp systems with conventional electromagnetic ballast using TL-D (T8), TL (T12) tanning lamps
- CLEO starters suitable for 220/240 V, 25-100 W single applications
- CLEO POWER starters suitable for 230/240 V, 100-180 W single applications
- Starter replacement recommended when replacing fluorescent lamps

Type	Rated Lamp Wattage (W)	System Description	Voltage (V)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
S12	115/140	SINGLE	220-240	UNP / 1000	1000	S121000WBNEW	903792 28	3.30	yes
S12	115/140	SINGLE	220-240	/ 20X25CT	500	S12250WBNEW	903792 26	3.30	yes
S16	70-125	SINGLE	240	UNP / 1000	1000	S161000WNEW	903563 28	4.07	yes
S16	70-125	SINGLE	240	UNP / 1000	1000	S161000WB	750105 28	3.87	yes
S16	70-125	SINGLE	240	/ 20X10CT	200	S1610WB	750105 31		yes
S16	70-125	SINGLE	240	/ 20X10CT	200	S1610WBNEW	903563 31	4.07	yes
S12	80-140	SINGLE	220-240	UNP / 1000	1000	S121000WB	765055 28		yes

Germicidal TUV PL-S



A	B	C	D	D1
max.	max.	max.	max.	max.
129	145	167	28	13

Product Description

TUV PL-S lamps are compact UVC (germicidal) lamps used in residential water and air disinfection units. The compact size of the lamp allows for a small system design and design flexibility. TUV PL-S lamps offer constant UV output over their complete lifetime, for maximum security of disinfection and high system efficacy. Thanks to the single-ended lamp base, lamp replacement is easy.

Product Features

- Short-wave UV radiation with a peak at 253.7 nm (UVC) for disinfection purposes

- Protective inside coating ensures constant UV output over the complete lifetime of the lamp
- Lamp glass filters out the 185 nm ozone-forming line
- PL-S lamp base contains a special starter for almost instant starting
- Wind-chill corrected versions available for optimal application performance and reducing amount of required lamps
- Warning sign on lamp indicates that the lamp radiates UVC

Product Benefits

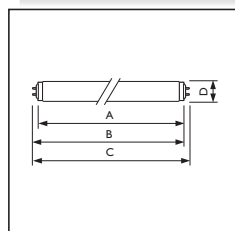
- Security of effective disinfection over the complete lifetime of the lamp
- High system efficacy because it is not required to over-design the purification system to maintain effectiveness of disinfection

Application

- Deactivation of bacteria, viruses and other micro-organisms
- Residential drinking water units
- Pond water units
- Air treatment units
- Stand-alone purifiers

Type	Rated Lamp Wattage	Cap-Base	Lamp Voltage	Cap-Base Information	Lamp Current	Execution	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(V)		(A)							
TUV PL-S	9	2G7	60	4 Pins	0.17	4 Pins	1CT / 6X10BOX	60	PLS9TUV4PIN	710833 80	31.27	yes

Fluorescent Specialties Super Actinic /03



Dim. no.	A max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604
2	1199.4	1204.1	1206.5	1213.6

Product Description

- Tubular low-pressure mercury vapour discharge lamps

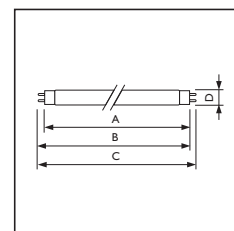
Product Features

- Internally coated with a white fluorescent powder to convert the short-wave UV radiation into useful actinic radiation
- Emit radiation in the range 380 - 480 nm with a maximum at 420 nm

- Spectral energy distribution in accordance with the spectral sensitivity of a number of diazo copying papers
- For maximum beauty of marine aquaria, TL /03 "Aqua Coral" lamps can be used in combination with full-spectrum "Natural Daylight" fluorescent lamps

Application

- Diazo copying machines
- Marine aquaria
- Phototherapy (neonatal jaundice treatment)



Dim. no.	A max.	B min.	C max.	D max.
3	589.8	594.5	596.9	604
4	1500	1504.7	1507.1	1514.2

Type	Rated Lamp Wattage/Colour Code	Cap-Base	Lamp Voltage	Lamp Current	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
			(V)	(A)							
MCFE	20W/03	G13	57	0.37	1	SLV / 25	25	2003	626097 40	18.10	yes
TL-K	40W/03	G13	50	0.86	3	SLV / 25	25	40032	723536 40	20.96	yes
TL	40W/03	G13	101	0.43	2	SLV / 25	25	4003RS	626066 40	22.77	yes
TL	140W/03	G13	118	1.46	4	/ 25	25	14003	720948 40	47.46	yes

Actinic BL



Product Description

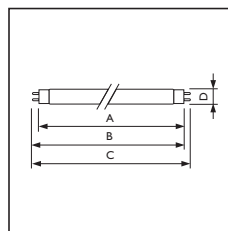
- Tubular low-pressure mercury vapour fluorescent lamps

Product Features

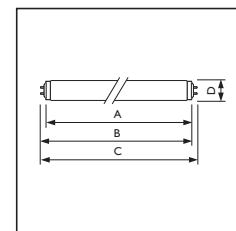
- Emit long-wave UV-A radiation in the 350 - 400 nm range
- UV-B/UV-A ratio less than 0.1% (UV-B: 280 - 315 nm)
- R (Reflector) lamps have a 200° internal reflector

Application

- Photopolymerisation processes
- Reprography
- Insect traps



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	40.5
2	437.4	442.1	444.5	451.6	28



Dim. no.	A max.	B min.	B max.	C max.	D max.
3	589.8	594.5	596.9	604	40.5

Type	Rated Lamp Wattage/Colour Code	Cap-Base	Lamp Voltage (V)	Lamp Current (A)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
Actinic BL	20W/10	G13	57	0.37	1	SLV / 25	25	2010	710918 40	22.60	yes
Actinic BL TL	20W/10	G13	57	0.37	3	SLV / 25	25	TL20W/10	260246 40	23.97	yes
Actinic BL	30W/10	G13	45	0.805	2	SLV / 25	25	TLDK30W/10	893468 40	26.59	yes
Actinic BL TL-K	40W/10-R	G13	50	0.86	3	SLV / 25	25	40102RA	612236 40	26.59	yes

TL /10 UV-A



Product Description

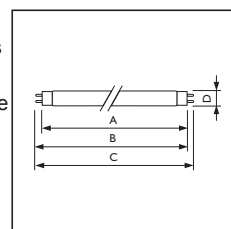
- Tubular low-pressure mercury vapour fluorescent lamps

Product Features

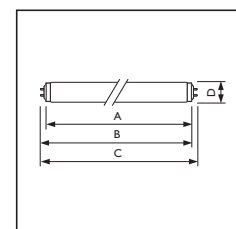
- Emit long-wave UV-A radiation in the 350 - 400 nm range
- UV-B/UV-A ratio less than 0.1% (UV-B: 280 - 315 nm)
- R (Reflector) lamps have a 200° internal reflector

Application

- Photopolymerisation processes
- Insect traps
- Reprography



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	40.5
2	437.4	442.1	444.5	451.6	28
3	1500	1504.7	1507.1	1514.2	40.5
4	1763.8	1768.5	1770.9	1778	40.5



Dim. no.	A max.	B min.	B max.	C max.	D max.
5	589.8	594.5	596.9	604	40.5

Type	Rated Lamp Wattage/Colour Code	Cap-Base	Lamp Voltage (V)	Lamp Current (A)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
Actinic BL	20W/10	G13	57	0.37	1	SLV / 25	25	2010	710918 40	22.60	yes
Actinic BL TL	20W/10	G13	57	0.37	5	SLV / 25	25	TL20W/10	260246 40	23.97	yes
Actinic BL	30W/10	G13	45	0.805	2	SLV / 25	25	TLDK30W/10	893468 40	26.59	yes
Actinic BL TL-K	40W/10-R	G13	50	0.86	5	SLV / 25	25	40102RA	612236 40	26.59	yes
TL	80W/10-R	G13	110	0.83	3	SLV / 25	25	658010RA	612625 40	39.87	yes
TL	100W/10-R	G13	122	0.97	4	SLV / 25	25	10010RA	612816 40	39.87	yes
TL	140W/10	G13	118	1.46	3	SLV / 25	25	14010	705600 40	48.86	yes

PL-S /10 UV-A



Product Description

- Compact single-ended low-pressure mercury vapour fluorescent lamps

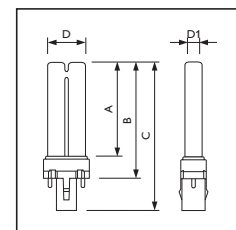
Product Features

- Emit long-wave UV-A radiation in the 350 - 400 nm range
- UV-B/UV-A ratio less than 0.1% (UV-B: 280 - 315 nm)
- PL-S /10 consists of two single-ended fluorescent tubes fused together

- PL-S /10 lamp base contains a special starter for almost instant starting; can operate on the same universal ballast as other PL-S lamps

Application

- Nail curing
- Insect traps

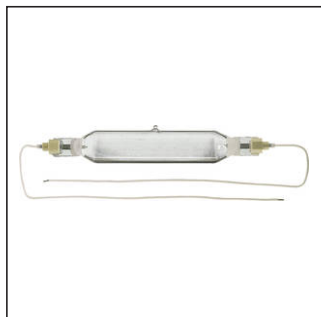


A max.	B max.	C max.	D max.	D1 max.
198	213.3	236.3	28	13

Type	Rated Lamp Wattage/ Colour Code	Cap-Base	Lamp Voltage	Cap-Base Information	Lamp Current	Execution	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
			(V)		(A)							
PL-S 2 Pins	11W/110	G23	89	2 Pins	0.16	2 Pins	UNP / 50	50	PLS1110	952042 65	27.39	yes

Reprography

Reprography HPM DIAZO



Product Description

- Single-envelope metal halide UV radiator with lead and gallium additives

Product Features

- Spectrum is optimised for UV-A radiation
- HPM Repro lamps radiate in the diazo range
- No ozone production
- Most lamps are designed to run at several power levels, e.g. standby, medium and full
- Burning position horizontal +/-10°

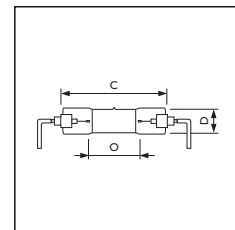
Application

- Contact copying of images from transparent film to UV-sensitive carriers like film, offset plates, printed circuit boards or microfilms

- UV curing of glues, resins and pigmented lacquers

Luminaire

- Measures must be taken to protect eyes and skin from UV-B and UV-C radiation which is also contained in spectra
- Bulb temperature should be kept between 750 and 950°C, with maximum of 350°C at the pinches; this requires forced air cooling adapted to the power level



Dim. no.	C max.	D max.
1	100	22
2	149	28
3	205	33
4	177	28

Type	Rated Lamp Wattage	Cap-Base	Cap-Base Information	Lamp Current	Burning Position	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)			(A)								
HPM 12	460	C14X	Cable 315mm	4.1	p10	1	1CT / 4	4	HPM12	190581 45	335.59	yes
HPM 13	1000	C14X	Cable 300mm	8.6	p10	2	1CT / 4	4	HPM13	190642 45	388.45	yes
HPM 15	1950	C14X	Cable 320mm	9	p10	3	1CT / 4	4	HPM15	191489 45	422.82	yes
HPM 17	2000	C14X	Cable 300mm	8.7	p10	4	1CT / 4	4	HPM17	190550 45	427.10	yes

Reprography HPA UV-A



Product description

- Single-envelope metal halide UV radiator with iron and cobalt additives

Product Features

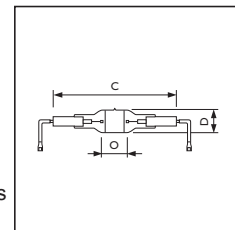
- Spectrum is optimised for UV-A radiation
- No ozone production
- Most lamps are designed to run at several power levels, e.g. standby, medium and full
- Burning position horizontal +/-10°

Application

- Contact copying of images from transparent film to UV-sensitive carriers like film, offset plates, printed circuit boards or microfilms
- UV curing of glues, resins and pigmented lacquers

Luminaire

- Measures must be taken to protect eyes and skin from UV-B and UV-C radiation which is also contained in spectra
- Bulb temperature should be kept between 750 and 950°C, with maximum of 350°C at the pinches; this requires forced air cooling adapted to the power level

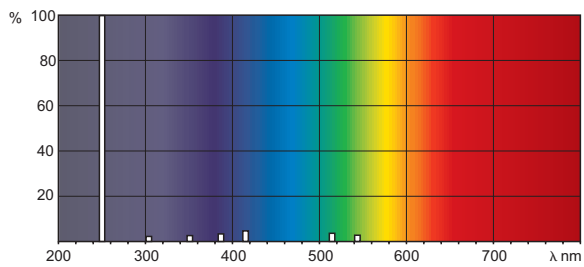


C max.	D max.	O max.
131	28	21

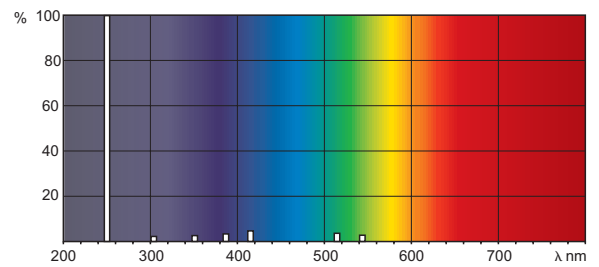
Type	Rated Lamp Wattage	Cap-Base	Cap-Base Information	Lamp Current	Burning Position	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)			(A)							
HPA 1000/20 R	1100	C10.5L	Cable 100mmT	10.5	p10	1CT / 4	4	HPA100020	191151 45	345.61	yes

Spectral Distribution

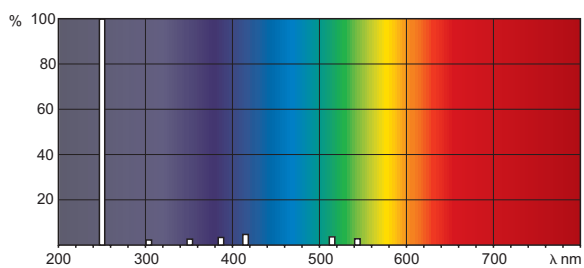
TUV PL-L



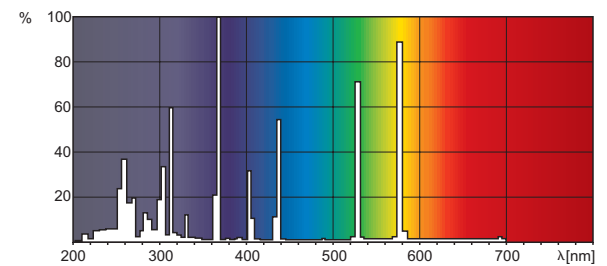
TUV PL-S



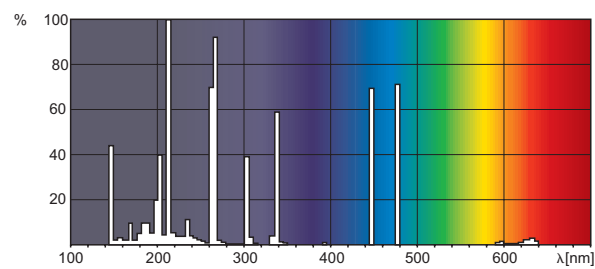
TUV T5, T8, TL Mini & XPT



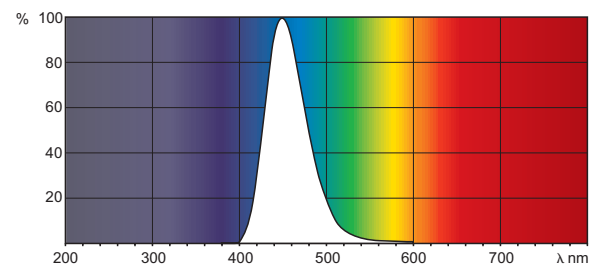
HOK



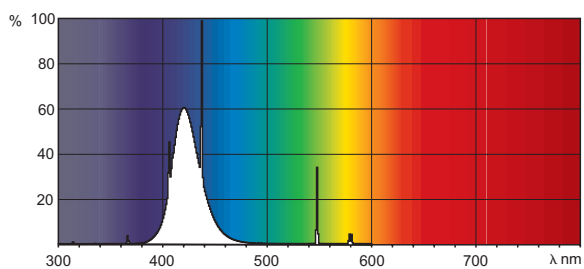
HTQ



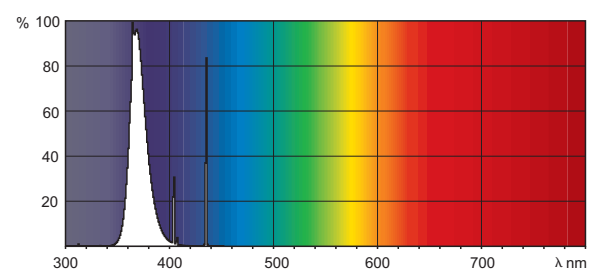
Medical Therapy /52



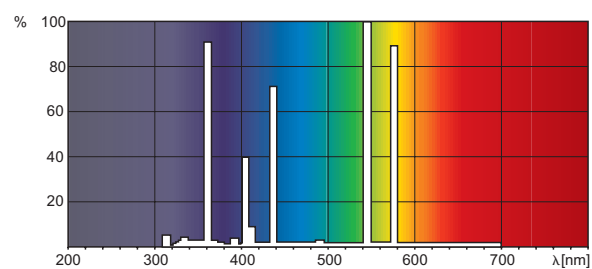
Lightcolour /03



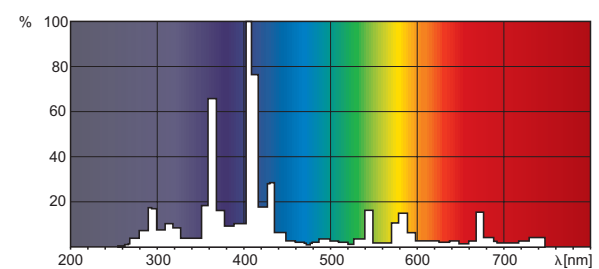
Lightcolour /10



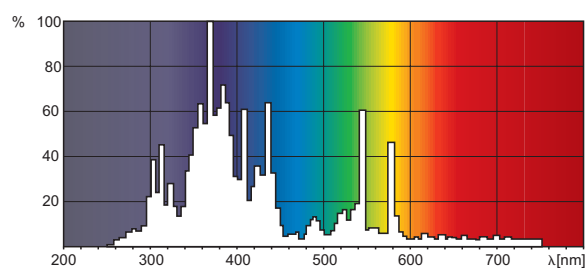
HPR



HPM

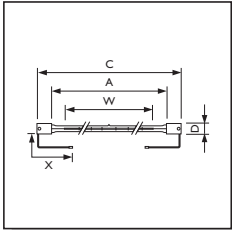


HPA



InfraRed Halogen

InfraRed HeLeN



Product Description

- Tubular quartz infrared lampTubular double-ended infrared halogen lamp used as high-power and high-efficiency heat source for zone-heating and various industrial application with a specific HeLeN coating reducing glare emission

Product Features

- Lower visible glare compared to clear or Ruby lamps, thanks to the unique HeLeN coating
- Improved colour rendering

Product Benefits

- Instant heat: full power within 1 second at switching on
- Glare reduction: the visible glare is strongly reduced thanks to the Philips unique HeLeN coating

- Improved colour rendering compared to Ruby / Red tube lamps
- Clean: no by product and no pollution emitted by Infrared lamps
- Safe: heat shock resistant lamp thanks to its quartz envelop
- Economical: more than 85% of the consumed energy is transmitted into infrared heat
- Fully dimmable: Infrared lamps are accurately controllable (0% to 100%)
- Possibility to put sensor: On/Off switches do not affect life time of Infrared lamps
- Low maintenance: long life time of about 5000 hours

- Heat can be focused: Infrared lamps have the same optical properties as light, meaning that the heat can be directed by reflectors
- Compact heat source: Infrared lamps have a narrow diameter

Application

- Zone heating in patios, Restaurant and café terraces, factories, sports halls, exhibition halls, work areas, churches, large halls, warehouses, storage areas, garages, greenhouses, open air applications, stadiums, camp sites, de-icing
- Process heating where glare reduction is needed, such as paint drying

Dim. no.	A min.	C max.	D max.	W nom.	X nom.	X1 nom.	X2 nom.
1	306	355	11	272		300	300
2	306	355	11	272	900		
3	306	355	11	280	300		
4	306	355	11	280		300	300

Type	Rated Lamp Wattage	Cap-Base	Vol-tage	Bulb Finish	Cap-Base Information	Life to 50% failures	Execution	Burning Position	Dim. no.	Packing type/ Packing configura-tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(V)			(h)									
15007Z	1000	SK15	235	HELEN Sleeve	Fasten	5000	Straight	p15	1	UNP / 10	10	15007Z	496119 25	209.79	yes
15009Z	1000	SK15	235	HELEN Sleeve	Fasten	5000	Straight	any	2	UNP / 10	10	15009Z	496140 25	209.79	yes
15004Z	1500	SK15	235	HELEN Sleeve	Fasten	5000	Straight	p15	3	UNP / 10	10	15004Z	056078 25	209.79	yes
15005Z	2000	SK15	235	HELEN Sleeve	Fasten	5000	Straight	p15	4	UNP / 10	10	15005Z	496126 25	209.79	yes

InfraRed Industrial Heat



Product Description

- Tubular double-ended infrared halogen lamp used as high-power and high-efficiency heat source for various industrial applications

Product Features

- High efficiency

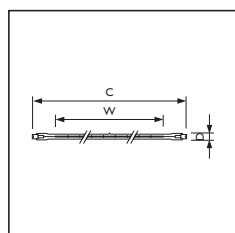
Product Benefits

- Instant heat: full power within 1 second at switching on
- Clean: no by product and no pollution emitted by Infrared lamps
- Safe: heat shock resistant lamp thanks to its quartz envelop
- Economical: more than 85% of the consumed energy is transmitted into infrared heat

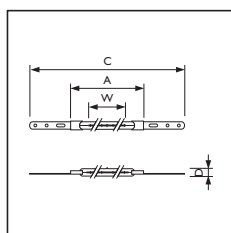
- Fully dimmable: Infrared lamps are accurately controllable (0% to 100%)
- Possibility to put sensor: On/Off switches do not affect life time of Infrared lamps
- Low maintenance: long life time of about 5 000 hours
- Heat can be focused: Infrared lamps have the same optical properties as light, meaning that the heat can be directed by reflectors
- Compact heat source: Infrared lamps have a narrow diameter

Application

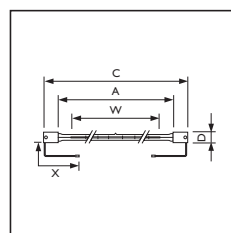
- Paint drying in tunnels and body shops
- Blowing of PETP bottles
- Plastics thermoforming
- Softening, melting of plastics
- Epitaxy, CVD, RTP, Oxidation processes in semiconductor industry
- Heating of food and keeping it warm
- Paper drying
- Drying of lacquer, printing inks
- Pre-heating of wood prior to lacquering
- Heat sterilization



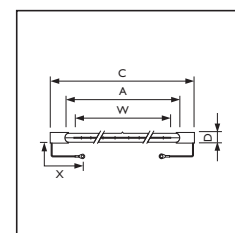
Dim. no.	C max.	D max.	W nom.
1	117.6	11	60
2	447.9	9	385



Dim. no.	A nom.	C max.	D max.	W nom.
3	220	355	11	142
4	220	355	11	142
5	272	370	11	
6	348	483	11	272
7	410	508	11	
8	490	625	11	410
9	700	798	11	
10	780	915	11	700



Dim. no.	A nom.	C max.	D max.
11	165	227.5	11
12	272	357.5	11
13	280	357.5	11

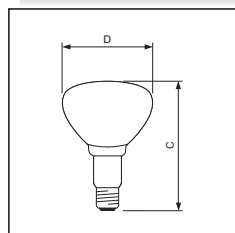


Dim. no.	C max.	D max.	W nom.	X1 nom.	X2 nom.
14	348	11	272	202	202
15	222	11	155	150	150

Type	Rated Lamp Wattage	Cap-Base	Voltage	Bulb Finish	Life to 50% failures	Burning Position	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(V)		(h)								
13908R	300	R7s	230	Clear	1000	p15	1	1CT / 10	10	13908R	491558 25	64.28	yes
13169X/98	500	X	120	Reflector	5000	p15	3	UNP / 10	10	13169X98	217400 25	128.55	yes
13169Z/98	500	SK15	220-250	Reflector	5000	p15	11	UNP / 10	10	13169Z98	217417 25	128.55	yes
13169X	500	X	120	Clear	5000	p15	4	UNP / 10	10	13169X	216793 25	110.68	yes
13195X/98	1000	X	235	Reflector	5000	p15	5	UNP / 10	10	13195X98	519429 25	128.55	yes
13195Z/98	1000	SK15	220-250	Reflector	5000	p15	12	UNP / 10	10	13195Z98	217455 25	137.42	yes
13713X/98	1000	X	235	Reflector	5000	any	5	UNP / 10	10	13713X98	214737 25	133.06	yes
13713Z/98	1000	SK15	235	Reflector	5000	any	12	UNP / 10	10	13713Z98	214744 25	137.42	yes
13195X	1000	X	235	Clear	5000	p15	6	UNP / 10	10	13195X	217424 25	110.68	yes
13195Y	1000	Y	220-250	Clear	5000	p15	14	UNP / 10	10	13195Y	217448 25	154.40	yes
13713X	1000	X	235	Clear	5000	any	6	UNP / 10	10	13713X	214720 25	133.06	yes
13561Y/00	1200	Y	144	Clear	5000	p15	15	1CT / 10	10	13561Y00	491572 25	183.06	yes
13935R	1530	R7s	230	Clear	2000	p15	2	1CT / 10	10	13935R	214768 25	134.85	yes
13568Y/00	1600	Y	144	Clear	5000	p15	15	1CT / 10	10	13568Y00	491596 25	183.06	yes
13168Z/98	2000	SK15	235	Reflector	5000	any	13	UNP / 10	10	13168Z98	216786 25	147.90	yes
13245X/98	2000	X	400	Reflector	5000	p15	7	UNP / 10	10	13245X98	214706 25	192.83	yes
13168X	2000	X	235	Clear	5000	any	6	UNP / 10	10	13168X	216779 25	147.32	yes
13765X	2000	X	400	Clear	5000	any	8	UNP / 10	10	13765X	214751 25	211.60	yes
13230X/98	3000	X	380-420	Reflector	5000	any	9	UNP / 10	10	13230X98	217493 25	294.64	yes
13230X	3000	X	380-420	Clear	5000	any	10	UNP / 10	10	13230X	217486 25	275.87	yes

InfraRed Incandescent

InfraRed Industrial Heat Incand.



Dim. no.	C max.	D nom.
1	173	125

Product Description

- R125 (125 mm diameter) blown-bulb reflector and PAR38 (121 mm diameter) pressed glass reflector lamps

Product Features

- R125 lamps:
 - optional hard-glass bulb with high mechanical strength and resistance to thermal shocks (e.g. water splashes)
- PAR38 lamps:
 - higher efficiency, allowing energy savings of around 30% to be achieved
 - high-efficiency reflector and refractor lens design, allowing accurate heat direction to where it is needed
 - hard-glass bulb for optimal resistance to mechanical and thermal shocks
- All types:

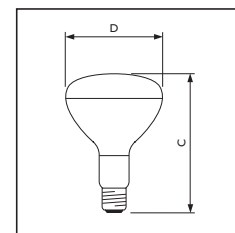
- optional red-coloured versions to reduce visual light emission and glare by 75% for situations where visible light is not required
- Long 5.000 h lifetime
- universal burning position, except PAR38 with red-lacquered glass (base-up +/-45)

Product Benefits

- Ideal radiant heat sources for animal rearing, leading to more rapid growth and optimal rearing results
- Lower mortality rates by separation from mother/child
- 90% of energy is transmitted as infrared heat
- Instant, accurately controllable source of radiant heat
- Allows concentrated heat to be applied to where it is needed
- Low thermal inertia - no delay for warming-up, and no heat overshoot after switching off
- Easy retrofit installation in standard ES fittings

Application

- Breeding and rearing of pigs, calves, foals, dogs, poultry etc.
- Veterinary clinics, zoos, pet shops, beauty parlours
- Industrial heating, e.g. drying, baking, carbonising, melting etc.
- Personal care, hair-drying, beauty care solariums
- General radiant heating, e.g. hot food displays, bathrooms, cooker hoods, space heating, hobbies etc.



Dim. no.	C max.	D nom.
2	179	125
3	183	125

Type	Rated Lamp Wattage	Cap- Base	Voltage	Bulb Finish	Burning Position	Dim. no.	Packing type/ Packing configura- tion	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
	(W)		(V)									
IR150CH BR125	150	E27	230-250	Clear	any	1	1CT / 10	10	IR150CHHG	575227 25	25.99	yes
IR150RH BR125	150	E27	230-250	Red Glass	h45	1	1CT / 10	10	IR150RHGG	575203 25	27.14	yes
IR250CH BR125	250	E27	230-250	Clear	any	1	1CT / 10	10	IR250CHHG	575234 25	29.45	yes
IR250CH R125	250	E27	230-250	Clear	any	2	1CT / 10	10	IR250CH	126498 25	44.61	yes
IR250RH BR125	250	E27	230-250	Red Glass	h45	1	1CT / 10	10	IR250RHGG	575210 25	30.61	yes
IR300CH R125	300	E27	230-250	Clear	any	2	1CT / 10	10	IR300CH	126566 25	44.61	yes
IR375CH R125	375	E27	230-250	Clear	any	3	1CT / 10	10	IR375CH	126597 25	44.61	yes

Traffic Halogen - Low Voltage

Traffic Halogen Single Ended



Product Description

- Compact halogen traffic signalling lamp

Product Features

- Quartz glass bulb contains a mainly transversally positioned filament
- Compact filament gives a sharp, efficient beam for high signal visibility

- Recommended group replacement cycles of +/- 1 year

- The recommended burning position should be maintained, deviation might lead to early lamp failure

- If dimmed a longer lifetime could be achieved

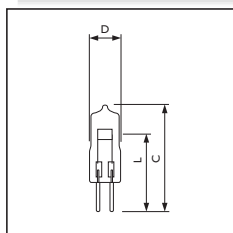
Product Benefits

- Very high light output for limited power consumption

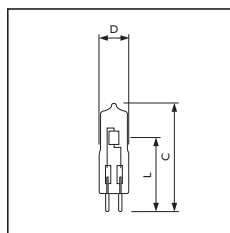
- High resistance to vibration and shock

Application

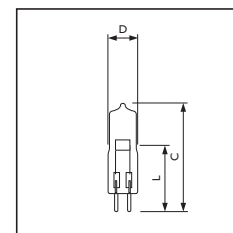
- Traffic Signalling on road intersections, bridges etc.
- Harbour and airport approach roads
- Industrial estates
- Parking areas of shopping or exhibition centres



Dim. no.	C max.	D max.	L nom.
1	31	9	19.5



Dim. no.	C max.	D max.	L nom.
2	44	11.5	30



Dim. no.	C max.	D max.	L nom.
3	44	12	30

Traffic Halogen 12V

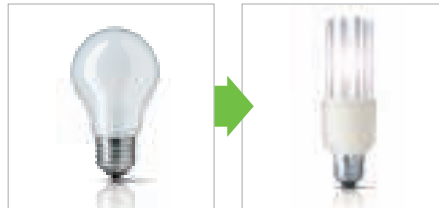
Type	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Life to 50% failures	Burning Position	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(lm)	(h)							
12345	20	G4	420	400	any	1	1CT / 10X10F	100	M35	410016 50	13.04
12058	50	GY6.35	975	4000	any	2	1CT / 10X10F!	100	12058	474735 60	12.98
13512	50	GY6.35	935	4000	any	3	1CT / 10X10F	100	M32	410436 50	9.12

Guide to uplamping for Incandescent lamps

Ever since the company was started in 1891, Philips Lighting has developed and launched many thousands of innovative and important products. With so many products to choose from, this handy and practical 'Guide to better lamps', makes it simpler to make the right choice.

Current product

GLS



Energy efficient alternative

MASTER PL-Electronic

Energy savings	40%
----------------	-----



For more uplamping possibilities, visit www.philips.com/catalog

Standard (T/A/E-shape) Softone Standard T-shape



Product Description

- T-shaped gas-filled lamps with a modern appearance

Product Features

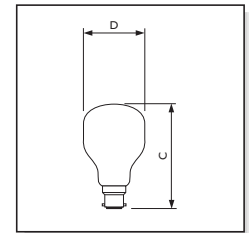
- Gives a delicate, glare-free light in a subtle white or pastel colour
- Glare free and soft white or soft pastel lighting effect

Product Benefits

- Enhances colours in the home and adds a new dimension to interior decoration
- Creates a pleasant, relaxed atmosphere with a high degree of visual comfort

Application

- Home use in living and dining rooms, halls and studies
- Offices
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs, social areas and public accommodation
- Shops and boutiques
- Other similar areas



C	D
max.	nom.
93.5	55

Softone BC 240V

Bulb	Lamp Wattage	Bulb Finish	Lamp Luminous Flux	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(lm)	(h)					
T55	40	Soft White	370	1000	2CT / 2X10T/WL	20	40BCSWH2PZP	379436 35	6.74
T55	60	Azur	540	1000	2CT / 6X10F	60	60BCSBL2PZP	380425 80	8.76
T55	60	Pink	570	1000	2CT / 2X10T/WL	20	60BCSRO2PZP	378286 35	8.76
T55	60	Terracotta	535	1000	2CT / 2X10T/WL	20	60BCSTE2PZP	378309 35	8.76
T55	60	Soft White	630	1000	2CT / 2X10T/WL	20	60BCSWH2PZP	378279 35	8.76
T55	100	Soft White	1200	1000	2CT / 2X10T/WL	20	100BCSWH2PZP	378385 35	8.76

Standard A-shape frosted



Lamp:

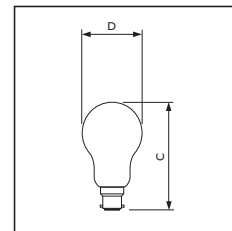
- Conventional pear-shaped incandescent lamps

Features:

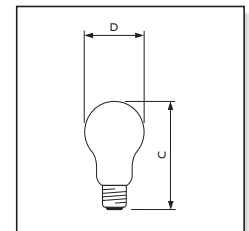
- Vacuum-filled (15W) or gas-filled (25W and above)
- Choice of clear or pearl lamp types
- Universal burning position

Application

- Frosted lamps give low glare and diffused lighting for universal applicability



Dim. no.	C max.	D nom.
1	95.5	55



Dim. no.	C max.	D nom.
2	97	55
3	123.5	65

Standard Frosted

Bulb	Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(V)	(lm)	(h)						
A55	25	BC	240	215	1000	1	1CT / 12X10F	120	25BCP1PZP	360915 84	3.81
A55	25	BC	240	215	1000	1	F10 / 12	12	25BCP10PZP	385406 15	3.81
A55	40	BC	240	410	1000	1	F10 / 12	12	40BCP10PZP	377005 15	3.81
A55	40	ES	240	410	1000	2	F10 / 12	12	40ESP10PZP	377012 15	3.81
A55	60	BC	240	700	1000	1	F10 / 12	12	60BCP10PZP	377036 15	3.81
A55	60	BC	125-130	820	1000	1	2CT / 12X5F	60	11060BC2PCP	363770 71	3.81
A55	60	ES	240	700	1000	2	F10 / 12	12	60ESP10PZP	377043 15	3.81
A55	60	ES	125-130	820	1000	2	2CT / 12X5F	60	11060ES2PCP	363824 71	3.81
A55	75	BC	240	920	1000	1	F10 / 12	12	75BCP10PZP	385420 15	3.81
A55	100	BC	240	1330	1000	1	F10 / 12	12	100BCP10PZP	377067 15	3.81
A55	100	BC	125-130	1560	1000	1	2CT / 12X5F	60	110100BC2PCP	363923 71	3.81
A55	100	ES	240	1330	1000	2	F10 / 12	12	100ESP10PZP	377074 15	3.81
A55	100	ES	125-130	1560	1000	2	2CT / 12X5F	60	110100ES2PCP	363992 71	3.81
A65	150	ES	240	2140	1000	3	1CT / 20	20	150ESP1PZP	048936 05	

Standard A-shape clear



Product Description

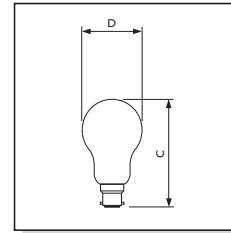
- Conventional pear-shaped incandescent lamps

Product Features

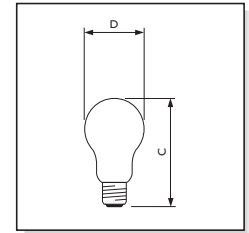
- Vacuum-filled (15W) or gas-filled (25W and above)

Application

- Clear lamps are ideal for indirect lighting in closed luminaires, and where brilliance and sparkling effects are more important than reduction of glare



Dim. no.	C max.	D nom.
1	95.5	55
2	122	65



Dim. no.	C max.	D nom.
3	97	55

Standard Clear 240V

Bulb	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(lm)	(h)						
A55	40	BC	410	1000	1	1CT / 12X10F	120	40BC1PZP	361035 84	3.81
A55	40	BC	410	1000	1	F10 / 12	12	40BC10PZP	376992 15	3.81
A55	40	ES	410	1000	3	1CT / 12X10F	120	40ES1PZP	359247 84	3.81
A55	60	BC	700	1000	1	1CT / 12X10F	120	60BC1PZP	361172 84	3.81
A55	60	BC	700	1000	1	F10 / 12	12	60BC10PZP	377029 15	3.81
A55	60	ES	700	1000	3	1CT / 12X10F	120	60ES1PZP	359346 84	3.81
A55	60	ES	700	1000	3	F10 / 12	12	60ES10PZP	385413 15	3.81
A55	100	BC	1330	1000	1	F10 / 12	12	100BC10PZP	377050 15	3.81
A65	150	BC	2140	1000	2	1CT / 20	20	150BC1PZP	048905 05	6.53

Candle (B-shape) Softone Candle B35



Product Description

- Flame-shaped gas-filled glass bulb with E-base

Product Features

- Gives a delicate, glare-free light in a subtle white or pastel colour

Product Benefits

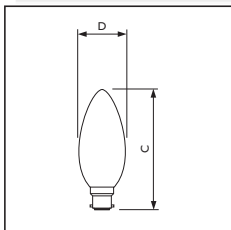
- Enhances colours in the home and adds a new dimension to interior decoration

- Creates a pleasant, relaxed atmosphere with a high degree of visual comfort

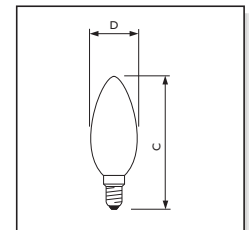
Application

- Ideal replacement for standard candle lamps, particularly in chandeliers and ornamental wall brackets
- Suitable for a wide variety of decorative lighting situations

- Home use in living and dining rooms and bedrooms
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Ballrooms



Dim. no.	C max.	D nom.
1	94.5	35



Dim. no.	C max.	D nom.
2	100	35

Softone 240V

Bulb	Lamp Wattage	Cap-Base	Bulb Finish	Lamp Luminous Flux	Energy Efficiency Label (EEL)	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)			(lm)		(h)						
B35	40	BC	Apricot	290		1000	1	2CT / 10	10	40BCCANDB35OR	601360 92	
B35	25	BC	Soft White	180		1000	1	2CT / 2X10T/WL	20	25BCSCWH2P	379245 35	5.16
B35	40	BC	Soft White	345		1000	1	2CT / 2X10T/WL	20	40BCSCWH2P	034342 35	5.16
B35	40	SES	Soft White	360	F	1000	2	2CT / 2X10T/WL	20	40SESSCWH2P	379283 35	5.16
B35	60	BC	Soft White	600		1000	1	2CT / 2X10T/WL	20	60BCSCWH2P	364227 35	5.16

Standard Candle B35 clear



Product Description

- Flame-shaped bulb with clear glass and vacuum- or gas-filled bulb with B- or E-base

Product Features

- Slender, crystal-clear lamps designed for sparkling highlights
- Creates a classic sparkling atmosphere

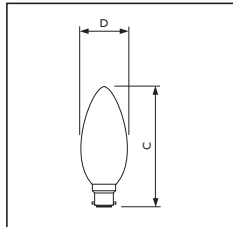
Product Benefits

- At their best in decorative glass chandeliers and wall brackets with clear or textured glass bowls
- Brilliant, visible filament adds small points of brightness for an enriched lighting effect

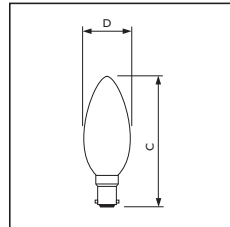
Application

- Home use in living and dining rooms, bedrooms, halls and studies

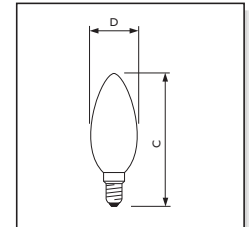
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Ballrooms
- Shops and boutiques
- Churches



Dim. no.	C max.	D nom.
1	95	35



Dim. no.	C max.	D nom.
2	98	35



Dim. no.	C max.	D nom.
3	100	35

Standard Clear 240V

Bulb	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(lm)	(h)						
B35	25	BC	200	1000	1	2CT / 2X10T/WL	20	25BCC2PZP	072450 35	6.07
B35	40	SBC	405	1000	2	2CT / 2X10T/WL	20	40SBCC2PZP	380371 35	6.07
B35	40	BC	385	1000	1	2CT / 2X10T/WL	20	40BCC2PZP	014276 35	6.07
B35	40	SES	405	1000	3	2CT / 2X10T/WL	20	40SESC2PZP	378521 35	6.07
B35	60	SBC	670	1000	2	1CT / 10X10F	100	60SBCC1PZ	018199 50	
B35	60	BC	630	1000	1	2CT / 2X10T/WL	20	60BCC2PZP	014160 35	6.07

Deco Candle Twisted BW-shape clear



Product Description

- Twisted, flame-shaped bulb with clear glass and vacuum- or gas-filled bulb with B- or E-base

Product Features

- Clear lamps designed for sparkling highlights

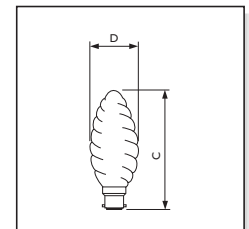
Product Benefits

- At their best in decorative glass chandeliers and wall lamps with clear or textured glass bowls

- Brilliant, visible filament adds small points of brightness for an enriched lighting effect

Application

- Home use in living and dining rooms, halls and studies
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Ballrooms
- Shops and boutiques
- Churches



C max.	D nom.
95	35

Deco BC Clear 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)	(h)					
BW35	40	375	1000	2CT / 2X10T/WL	20	40BCTWCC2P	379221 35	9.07

Lustre (P-shape) Standard Lustre P45 frosted



Product Description

- Spherical vacuum- or gas-filled incandescent lamps with white or inside-frosted glass bulb and E- or B-base

Product Features

- Lamps with reduced size and neat shape

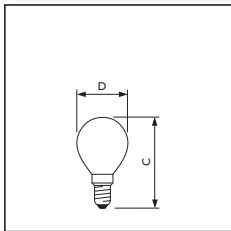
- Extremely popular for use around mirrors or in chandeliers, candelabras, floor lamps and wall brackets, fitted with small, decorative shades
- Creates a pleasant low glare atmosphere

Product Benefits

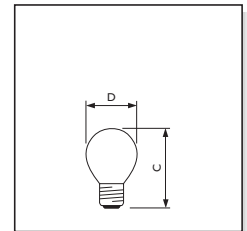
- Softly diffused light sets the scene for cosiness and comfort, and meets both aesthetic and functional requirements

Application

- Home use in living and dining rooms, bedrooms, halls and studies
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Shops, boutiques and department stores
- Other similar areas



Dim. no.	C max.	D nom.
1	78	45



Dim. no.	C max.	D nom.
2	73	45

Standard White 240V

Bulb	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(lm)	(h)						
P45	40	SES	360	1000	1	2CT / 2X10T/WL	20	40SESLWH2P	379382 35	6.46
P45	40	ES	345	1000	2	2CT / 2X10T/WL	20	40ESLWH2P	379375 35	6.46
P45	60	SES	575	1000	1	2CT / 2X10T/WL	20	60SESLWH2P	379412 35	6.46
P45	60	ES	575	1000	2	2CT / 2X10T/WL	20	60ESLWH2P	379405 35	6.46

Standard Lustre P45 clear



Product Description

- Spherical vacuum- or gas-filled incandescent lamps with a clear glass bulb and E- or B-base

Product Features

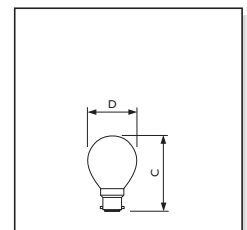
- Small, crystal-clear lamps designed for sparkling highlights
- At their best in decorative small luminaires such as table models and wall brackets with clear glass bowls
- Creates a sparkling atmosphere

Product Benefits

- Brilliant, visible filament adds small points of brightness for an enriched lighting effect

Application

- Home use in living and dining rooms, bedrooms, halls and studies
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Shops, boutiques and department stores
- Other similar areas



C max.	D nom.
71.5	45

Standard BC Clear 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)	(h)					
P45	25	200	1000	2CT / 12X5F	60	25BCL2P	365620 71	6.46
P45	40	385	1000	2CT / 12X5F	60	40BCL2P	365774 71	6.46

Globe (G-shape) Softone Globe



Product Description

- Normal gas-filled incandescent lamps with a spherical (G-shape) glass bulb and B-base

Product Features

- Bulb internally coated with an opal layer, creating a soft, diffused, glare free light
- Diffused light without harsh shadows

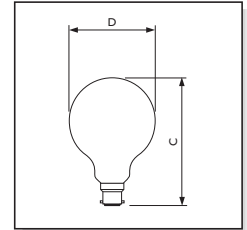
Product Benefits

- Gives a delicate, glare-free light in a subtle white or pastel colour

- Enhances colours in the home and adds a new dimension to interior decoration
- Creates a pleasant, relaxed atmosphere with a high degree of visual comfort

Application

- Home use in living and dining rooms, halls and studies
- Hotel lounges, restaurants, bedrooms, foyers
- Clubs, social areas and public areas
- Shops and boutiques
- Other similar areas



C	D
max.	nom.
145.5	95

Softone BC Soft White 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Average Lifetime	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)	(h)					
G95	60	630	1000	1CT / 10	10	60BCSG95WHZP	052568 25	17.68
G95	100	1200	1000	1CT / 10	10	100BCSG95WH1PZP	052575 25	17.68

Tubular (T-shape) Deco Tubular



Product Description

- Tubular lamps with single- and coiled-coil filaments and clear, inside frosted or internally coated white bulbs with B- or E-base

Product Features

- Internal coating cannot chip, fade, become scratched or weathered

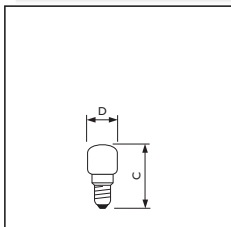
Application

- General lighting: switchboards, cupboards, piano and painting lighting

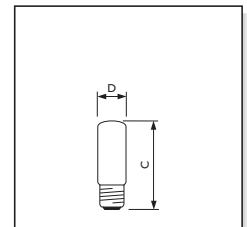
- Clear lamps:

- industrial/professional lighting: sign boards, elevator sign systems, fair and festive lighting

- Lamps with inside-frosted bulb: - ideal for a wide range of domestic and industrial applications



Dim. no.	C max.	D nom.
1	57	25

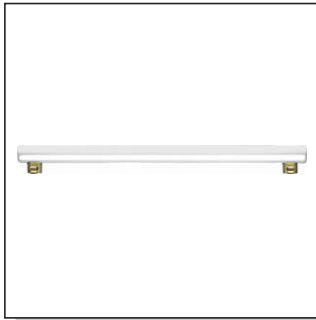


Dim. no.	C max.	D nom.
2	61	29

Deco Clear

Bulb	Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Energy Efficiency Label (EEL)	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(V)	(lm)		(h)						
T25	15	SES	230-240	115	E	1000	1	1CT / 10X10F	100	15SESSINP	042279 50	5.84
T29	15	ES	240	115	E	1000	2	1CT / 10X10F	100	15ESSIZP	324122 50	5.84

Philinea



Product Description

- Decorative linear double- or single-ended vacuum-filled incandescent lamps with Softone coating

Product Features

- White-enamelled finish
- Slender shape and high luminous intensity

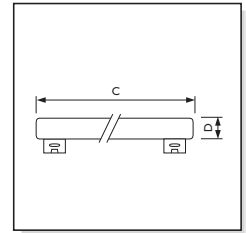
Product Benefits

- White-enamelled versions provide softly diffused lighting

- Specially positioned lamp bases allowing installation in continuous strips of light

Application

- Aquariums
- Pictures
- Mirrors
- Kitchen cabinets
- Other similar objects



Dim. no.	C max.	D nom.
1	300	30
2	500	30

Philinea S14s White 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Energy Efficiency Label (EEL)	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)		(h)						
T30	35	270	F	1000	1	1CT / 25	25	35S14SPHZP	056900 40	43.19
T30	60	420	G	1000	2	1CT / 25	25	60S14SPHZP	056931 40	43.19

GLS Specialties

Reinforced Construction A-shape



Product Description

- Reinforced Incandescent lamp with A-shape for heavy duty applications

Product Features

- Reinforced construction lamp with exceptionally strong filament to withstand mechanical shocks and vibrations

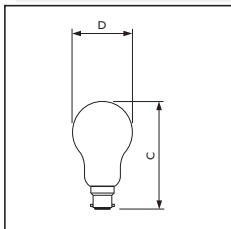
Product Benefits

- Longer lifetime (>2000 hrs) when used in heavy duty applications as compared to standard incandescent lamps

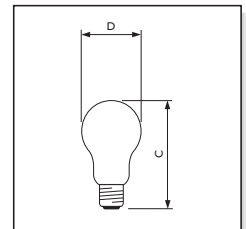
Application

- Where longer lifetime is required in combination with shock-resistant needs

- Hand-held inspection lights
- Task lights in maintenance and automotive service shops



Dim. no.	C max.	D nom.
1	105.5	60
2	116	65



Dim. no.	C max.	D nom.
3	107.5	60

Reinforced Construction Frosted

Bulb	Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(V)	(lm)	(h)						
A60	60	BC	120	550	2000	1	1CT / 20	20	12060BCRSP1PCP	100993 05	7.63
A60	60	BC	230	515	2000	1	1CT / 20	20	60BCRSP1PZP	068811 05	7.09
A60	60	ES	230	515	2000	3	1CT / 20	20	60ESRSP1PEP	090195 05	7.09
A65	100	BC	230	990	2000	2	1CT / 20	20	100BCRSP1PCP	138255 05	7.09

Standard Extra Low Voltage A60



Product Description

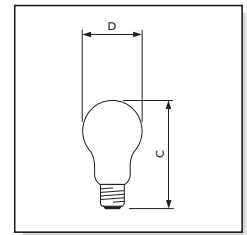
- Clear lamp (A-bulb) for operation on voltages of 24 and 50V

Product Features

- Types till 42V are safer in combination with a mains power supply transformer

Application

- Rural and isolated areas where mains power supplies are not available
- Emergency lighting installations



C	D
max.	nom.
107.5	60

Standard ELV ES Clear

Bulb	Lamp Wattage	Voltage	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(V)	(h)					
A60	40	24	1000	1CT / 12X10F	120	2440ESCP	022936 84	13.52
A60	60	50	1000	1CT / 12X10F	120	5060ESCP	101884 84	13.52

Party A-shape



Product Description

- Coloured incandescent lamp with A60 shape and superior internal coating

Product Features

- Choice of attractive colours
- Superior quality thanks to the Electro Static Coated (ESC) internal coating (instead of the conventional wet-flushed inside paint process)

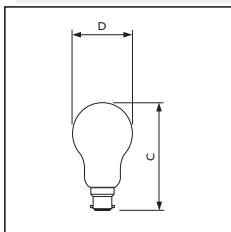
Product Benefits

- Environment-friendly due to ESC coating and cadmium-free lamp
- Energy savings thanks to much higher colour brilliance and lumen output than conventional coloured lamps with higher wattages
- Weather-resistant bulbs are perfectly suitable for outdoor use

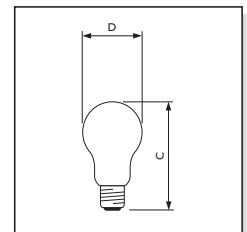
Application

- All kinds of indoor and outdoor decorative lighting and special effects

- Outdoor: streets, facades, shopping centres, amusement parks, garden parties, carnivals, restaurants, bars, beaches, Christmas and other decorations
- Indoor: parties, special celebrations and decorative effects
- Multi-colour versions and printing of special graphics available on project basis



Dim. no.	C max.	D nom.
1	92.5	55
2	95.5	55



Dim. no.	C max.	D nom.
3	95	55

Party 220-240V

Bulb	Lamp Wattage	Cap-Base	Bulb Finish	Energy Efficiency Label (EEL)	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)				(h)						
A55	15	BC	Blue		1000	1	1CT / 15	15	15BCBLUEP	383235 20	4.67
A55	15	BC	Green	G	1000	2	1CT / 15	15	15BCGREENP	383242 20	4.67
A55	15	BC	Red	G	1000	2	1CT / 15	15	15BCREDP	383259 20	4.67
A55	15	BC	Yellow	G	1000	2	1CT / 15	15	15BCYELLOWP	383266 20	4.67
A55	15	ES	Blue		1000	3	1CT / 15	15	15ESBLUEP	366924 20	4.67
A55	15	ES	Green		1000	3	1CT / 15	15	15ESGREENP	366948 20	4.67

Party Lustre P45



Product Features

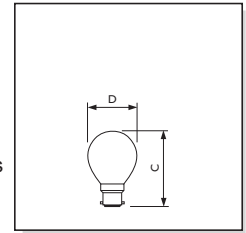
- Choice of attractive colours
- Superior quality thanks to the Electro Static Coated (ESC) internal coating (instead of the conventional wet-flushed inside paint process)

Product Benefits

- Environment-friendly due to ESC coating and cadmium-free lamp
- Energy savings thanks to much higher colour brilliance and lumen output than conventional coloured lamps with higher wattages
- Weather-resistant bulbs are perfectly suitable for outdoor use

Application

- All kinds of indoor and outdoor decorative lighting and special effects
- Outdoor: streets, facades, shopping centres, amusement parks, garden and BBQ parties, carnivals, restaurants, bars, beaches, Christmas and other decorations
- Indoor: parties, special celebrations and decorative effects
- Multi-colour versions and printing of special graphics available on project basis



C	D
max.	nom.
71.5	45

Product Description

- Coloured incandescent lamp with P45 shape and superior ESC coating

Party BC White 240V

Bulb	Lamp Wattage	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(h)					
P45	40	1000	2CT / 2X10T/WL	20	40BCLWH2P	379368 35	6.46
P45	60	1000	2CT / 2X10T/WL	20	60BCSLWH2P	379399 35	6.46

Nightlight



Product Description

- Incandescent lamp applied as night light

Product Features

- Extra strong single-coil filament
- In low wattages available
- Suitable for operation between 220V and 250 V

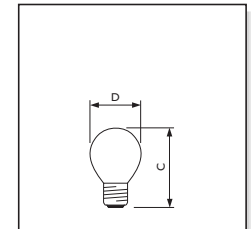
Product Benefits

- Subdued light with low energy consumption

- Long service life (4000 - 6000 hrs) makes these lamps ideal for orientation lighting with many burning hours

Application

- As orientation lighting in corridors and staircases, service areas in homes, hotels, offices, public buildings, outdoor illumination for Xmas trees



C	D
max.	nom.
73	45

Nightlight ES Frosted 220-250V

Bulb	Lamp Wattage	Energy Efficiency Label (EEL)	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(h)					
P45	5/8	C	1000	1CT / 10X10F	100	5/8ESNIGHT	014122 50	6.81

Domestic Appliances

Appliance Oven Tubular



Product Description

- Tubular vacuum lamps with clear glass (T-bulb)

Product Features

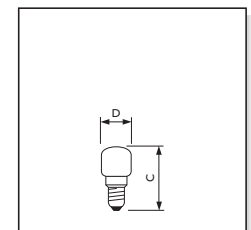
- Coiled-coil filament
- Manufactured with heat-resistant solder, getter and lamp-base cement

Product Benefits

- Reliable operation when used in special lampholders at high oven temperatures (up to 300°C)

Application

- Electrical and standard ovens, rotisseries and similar places subject to high operating temperatures
- Available for specific oven luminaires fitted in different positions such as downlighter, side-light and backlight



Dim. no.	C	D
	max.	nom.
1	49	22
2	57	25

Appliance SES Clear 230-240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Energy Efficiency Label (EEL)	Average Lifetime	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)		(h)						
T22	15	90	F	1000	1	1CT / 10X10F	100	15SESOZP	036599 50	9.43
T25	25	172	F	1000	2	1CT / 10X10F	100	25SESOZP	038715 50	9.43

Appliance Oven P45



Product Description

- Lustre vacuum lamps with clear glass (P-bulb)

Product Features

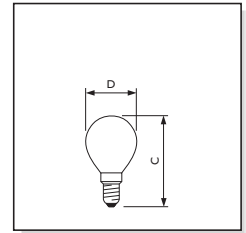
- Coiled-coil filament
- Manufactured with heat-resistant solder, getter and lamp-base cement

Product Benefits

- Reliable operation when used in special lampholders at high oven temperatures (up to 300°C)

Application

- Electrical and standard ovens, rotisseries and similar places subject to high operating temperatures
- Available for specific oven luminaires fitted in different positions such as downlighter, side-light and backlight



C	D
max.	nom.
78	45

Appliance SES Clear 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Energy Efficiency Label (EEL)	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)		(h)					
P45	40	420	E	1000	1CT / 10X10F	100	40SESOZ	035455 50	9.80

Appliance Cooker Hood Tubular



Product Description

- Gas-filled lamp with clear bulb

Product Features

- Extra filament support for resistance to vibration from extractor motors

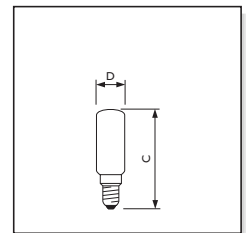
Product Benefits

- High reliability for long, trouble-free life

- Compact size fits well in the limited space available

Application

- Replaces the non-dedicated lamps formerly used in this application
- Cooker hoods



C	D
max.	nom.
86	25

Appliance SES Clear 230-240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Energy Efficiency Label (EEL)	Average Lifetime	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(lm)		(h)					
T25L	40	424	E	1000	1CT / 5X10F	50	40SESCHP	250056 70	10.45

Reflector (NR/R/PAR/E/A/P/PC-shape)

Reflector diam 50 mm



Product Description

- Reflector lamps based on advanced spotlighting technology

Product Features

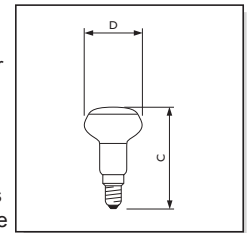
- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires
- Direct replacement for conventional reflector lamps of all kinds
- Easy fitting and removal thanks to tapered profile

Product Benefits

- Centre-beam intensities up to 100% higher than with conventional reflector lamps

Application

- All the benefits of high-performance, high-efficiency spotlighting, simply by replacing conventional reflector lamps with ring mirror lamps of the same size and wattage
- Display lighting in shops, hotels, restaurants and homes



C	D
max.	nom.
86	50

Reflector SES Frosted 240V

Bulb	Lamp Wattage		Luminous Intensity	Average Lifetime	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])	(h)					
NR50	40	30	400	1000	1CT / 30	30	40SES50SPZP	379863 78	9.14

Reflector diam 63 mm



Product Description

- Reflector lamps based on advanced spotlighting technology

Product Features

- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires

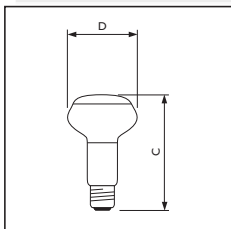
- Direct replacement for conventional reflector lamps of all kinds
- Easy fitting and removal thanks to tapered profile

Product Benefits

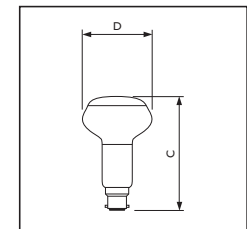
- Centre-beam intensities up to 100% higher than with conventional reflector lamps

Application

- All the benefits of high-performance, high-efficiency spotlighting, simply by replacing conventional reflector lamps with ring mirror lamps of the same size and wattage
- Display lighting in shops, hotels, restaurants and homes



Dim. no.	C max.	D nom.
1	104.5	63

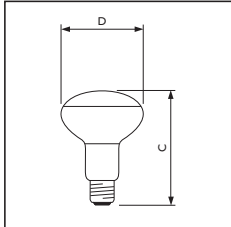


Dim. no.	C max.	D nom.
2	103	63

Reflector Frosted 240V

Bulb	Lamp Wattage	Cap-Base		Luminous Intensity	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(°)	(cd [max.])	(h)						
NR63	40	ES	30	420	1000	1	1CT / 30	30	40ESR63SPZP	379870 78	9.14
NR63	60	BC	30	750	1000	2	1CT / 30	30	60BCR63SPZP	379894 78	9.14
NR63	60	ES	30	750	1000	1	1CT / 30	30	60ESR63SPZP	379887 78	9.14

Reflector diam 80/90/95/125 mm



Dim. no.	C max.	D nom.
1	114.5	80

Product Description

- Normal incandescent lamps with an internal ring-shaped parabolic aluminium mirror behind the filament

Product Features

- Blown glass bulb with frosted front

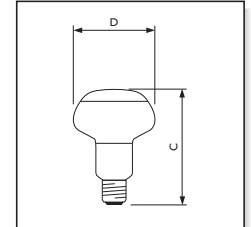
- Wide choice of diameters and wattages
- Lamp is designed to achieve brilliant indoor lighting effects

Product Benefits

- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires

Application

- Homes, shops, shop windows and displays, restaurants, hotels, exhibitions, bars and night clubs

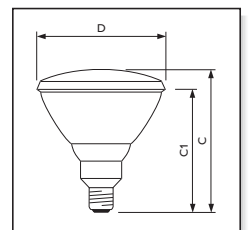


Dim. no.	C max.	D nom.
2	116	80
3	139	95

Reflector ES Frosted 240V

Bulb	Lamp Wattage		Luminous Intensity	Energy Efficiency Label (EEL)	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(°)	(cd [max.])		(h)						
E80	60	80	270		1000	1	1CT / 30	30	60ESR80ZP	379900 78	9.14
E80	100	80	530		1000	1	1BL / 10	10	100ESR80BZP	157812 25	9.14
E80	100	80	530		1000	1	1CT / 30	30	100ESR80ZP	379924 78	9.14
NR80	60	25	1000	F	1000	2	1CT / 30	30	60ESR80SPZP	379832 78	9.14
NR80	75	25	1600		1000	2	1CT / 30	30	75ESR80SPZP	379849 78	9.14
NR80	100	25	2000		1000	2	1BL / 10	10	100ESR80SPBZP	157850 25	9.14
NR80	100	25	2000		1000	2	1CT / 30	30	100ESR80SPZP	379856 78	9.14
NR95	100	20	3000		1000	3	1CT / 30	30	100ESR95SPP	379825 78	9.14

PAR38



Dim. no.	C max.	C1 nom.	D nom.
1	137	122.5	
2	137	123	121

Product Description

- Pressed-glass 121 mm diameter reflector lamps of high luminous intensity

Product Features

- Spot versions have a stippled front reflector producing a narrow, homogeneous beam
- Flood versions have a front refractor composed of prismatic elements

Product Benefits

- Produces the same useful light as conventional PAR lamps at 20% lower energy

Application

- Can be used indoors and outdoors, or wherever blown-bulb reflector lamps would be too vulnerable
- Indoors: shops, window displays, homes, hotels, restaurants, theatres, museums, exhibitions and buildings
- Outdoors: floodlighting, advertising signs, buildings, statues, podiums, sports grounds, parks and gardens
- Can be installed outdoors without any protection, provided they are used in a watertight lampholder
- For outdoor use, a heat-resistant rubber ring must be fitted between the lamp and the lampholder

PAR38 ES

Bulb	Lamp Wattage	Voltage	Beam Description	Luminous Intensity	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)	(V)		(°) (cd [max.])	(lm)	(h)						
PAR38	80	240	Flood	30	1800	2000	1	1CT / 6	6	80ESPAR38FLZ	380678 10	33.51
PAR38	80	240	Spot	12	4700	2000	1	1CT / 6	6	80ESPAR38Z	380760 10	33.51
PAR38	120	115	Flood	30	3400	2000	2	1CT / 12	12	115120ESPAR38FL	380593 15	33.51
PAR38	120	115	Spot	12	10500	2000	2	1CT / 12	12	115120ESPAR38	380692 15	33.51
PAR38	120	240	Flood	30	3100	2000	1	1CT / 6	6	120ESPAR38FLZ	380623 10	33.51
PAR38	120	240	Spot	12	8200	2000	1	1CT / 6	6	120ESPAR38Z	380722 10	33.51

PAR38 Colours



Product Description

- Coloured pressed-glass 121 mm diameter reflector lamp

Product Features

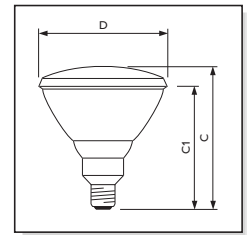
- Weatherproof coloured coating on the refractor face in a choice of colours
- Flood beam width

Product Benefits

- Gives striking decorative effects, both indoors and outdoors
- 20% lower power consumption compared with conventional coloured PAR lamps

Application

- Parks, public and private gardens
- Festive illumination
- Restaurants, bars, dance halls, discotheques
- Show-window displays, fountains and 'Son et Lumi' spectacles
- Can be installed outdoors without any protection, provided they are used in a watertight lampholder
- For outdoor use, a heat-resistant rubber ring must be fitted between the lamp and the lampholder



C	D
max.	nom.
137	122.5

PAR38 Colours ES 240V

Bulb	Lamp Wattage	Bulb Finish	Average Lifetime	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(W)		(h)					
PAR38	80	Blue	2000	1CT / 12	12	80ESPAR38BLU	380524 15	39.87
PAR38	80	Green	2000	1CT / 12	12	80ESPAR38GR	380548 15	39.87
PAR38	80	Red	2000	1CT / 12	12	80ESPAR38RE	380562 15	39.87
PAR38	80	Yellow	2000	1CT / 12	12	80ESPAR38YEL	380586 15	39.87

PAR56



Product Features

- Made of heat-resistant glass
- Special sturdy, shock-resistant 12V version available for underwater applications
- 12V lamp has screw terminals for secure connection because of the high running current (25A)

Product Benefits

- For indoor and outdoor use wherever high illuminance levels are required

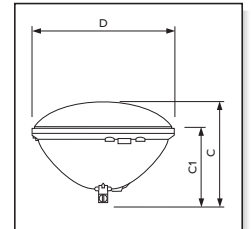
Application

- Spot versions are designed for long-distance beaming

- Flood and Wide Flood versions are mainly used for high mounting applications
- Displays, museums, public and commercial buildings, towers, churches, high-roofed halls, sports halls, garden lighting, exhibitions
- PAR56 Underwater: swimming pools and fountains, or wherever extra-low-voltage lamps are required for safety

Luminares

- For outdoor use, lamps should be protected from water splashes by a glass-covered, well gasketed housing



C	C1	D
max.	nom.	nom.
127.5	98	179

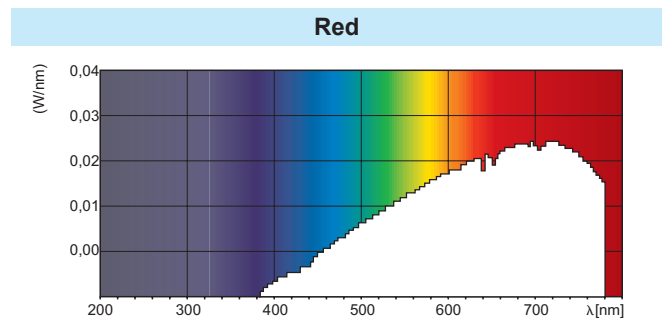
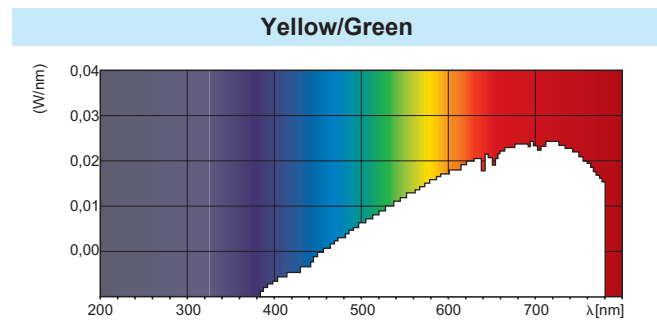
Product Description

- Extremely powerful pressed-glass 179 mm diameter reflector lamps

PAR56 Multipurpose 12V

Lamp Wattage		Luminous Intensity	Average Lifetime	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)	(°)	(cd [max.])	(h)					(£)
300	40	16000	1500	1CT / 8	8	12300PAR56FL	159694 42	165.41

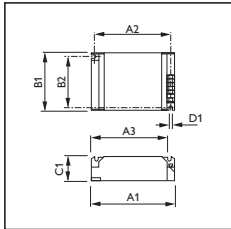
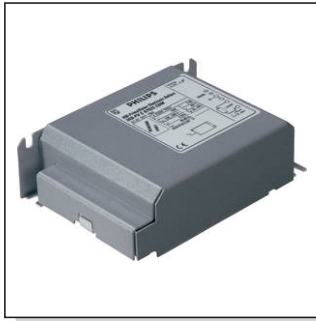
Spectral Distribution



HID

HID Electronic Indoor

HID-PrimaVision Compact for CDM lamps - Built-in



Dim. no.	A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	135.0	123.5	123.5	75.0	63.5	32.0	4.5
2	109.0	98.5	98.5	75.0	63.5	32.0	4.5
3	165.0	153.0		94.0	80.0	32.0	4.5
4	135.0	123.5		75.0	63.5	32.0	4.2

Product Description

- Compact, lightweight, one-piece electronic gear for 35W, 70W and 150W CDM lamps

Product Benefits

- Minimal lamp power tolerance gives optimal lamp performance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage
- Easy luminaire design-in
- Simple installation and cabling with push-in contacts
- High quality results in trouble-free installation

Features and Benefits

- Available as Standard (/S) or PCB (/P) version for use in a luminaire
- Minimal lamp power spread
- Microprocessor controlled

- Low gear energy losses
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 h
- Push-in contacts
- High quality (< 500 ppm)
- Quality standard by excellence in development and manufacturing processes
- Minimal lamp power tolerance gives optimal lamp performance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage
- Easy luminaire design-in
- Simple installation and cabling with push-in contacts
- High quality results in trouble-free installation

Environment

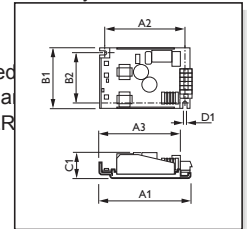
- RoHS compliant
- Green Flagship for Compact 150W
- ENEC or KEMA/VDE approved

Applications

- 35W and 70W: accent and decorative lighting for shops and retail, public spaces, lobbies and offices
- 150W: as 35W and 70W for high ceilings
- Climatic suitability: for indoor use only

System

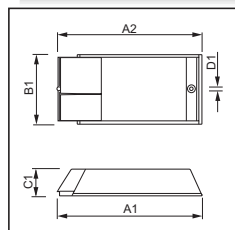
- Designed for performance MASTER



Dim. no.	A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
5	109.0	98.5	95.0	72.5	63.5	28.0	4.5

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece
	(V)	(Hz)	(x)						(£)
HID-PV Cx 2x35 35 /S CDM	220-240	50/60	14	1	UNP / 12	12	HIDPVC235S	8711500 932723 30	268.65
HID-PV C 35 /P CDM	220-240	50/60	24	5	UNP / 12	12		8711500 930101 30	
HID-PV C 35 /S CDM	220-240	50/60	24	2	UNP / 12	12	HIDPVC035S	8711500 930088 30	156.39
HID-PV Cx 2x70 70 /S CDM	220-240	50/60	10	3	UNP / 12	12		8727900 845792 00	
HID-PV C 70 /S CDM	220-240	50/60	14	2	UNP / 12	12	HIDPVC070S	8711500 930064 30	180.92
HID-PV C 150 /S CDM	220-240	50/60	6	4	UNP / 12	12	HIDPVC150S	8711500 910523 30	248.38

HID-PrimaVision Compact for CDM lamps-Independent



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	188.0	170.0	83.0	34.5	4.8

Product Description

- Compact, lightweight, one-piece electronic gear for 35W, 70W and 150W CDM lamps

Product Benefits

- Minimal lamp power tolerance gives optimal lamp performance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage
- Simple installation and cabling with push-in contacts and integrated strain relief
- High quality results in trouble-free installations

Features and Benefits

- Available as Independent (/I) for independent use on a (false) ceiling.

- Independent gear is also available with cable
- Minimal lamp power spread
- Microprocessor controlled
- Low gear energy losses
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 h
- Push-in contacts
- Integrated strain relief
- High quality (< 500 ppm)
- Quality standard by excellence in development and manufacturing processes
- Minimal lamp power tolerance gives optimal lamp performance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage

- Simple installation and cabling with push-in contacts and integrated strain relief
- High quality results in trouble-free installations

Environment

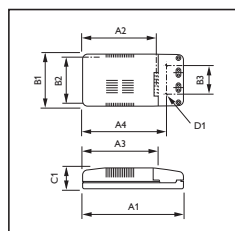
- RoHS compliant
- Green Flagship for Compact 150W
- ENEC or KEMA/VDE approved

Applications

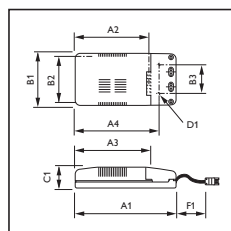
- 35W and 70W: accent and decorative lighting for shops and retail, public spaces, lobbies and offices
- 150W: as 35W and 70W for high ceilings
- Climatic suitability: for indoor use only

System

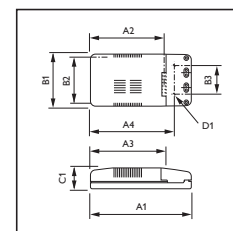
- Designed for optimum system performance with Philips MASTERColour CDM lamps



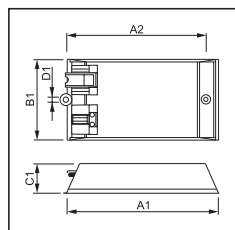
Dim. no.	A1 nom.	A2 nom.	A3 nom.	A4 nom.	B1 nom.	B2 nom.	B3 nom.	C1 nom.	D1 nom.
2	175.0	123.5	138.5	151.5	79.5	63.5	50.0	35.0	4.5



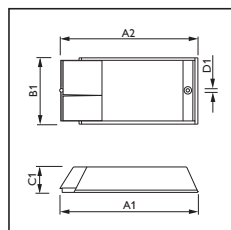
Dim. no.	A1 nom.	A2 nom.	A3 nom.	A4 nom.	B1 nom.	B2 nom.	B3 nom.	C1 nom.	D1 nom.	F1 nom.
3	150.0	98.5	113.5	126.5	79.5	63.5	50.0	35.0	4.5	500



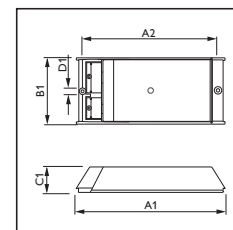
Dim. no.	A1 nom.	A2 nom.	A3 nom.	A4 nom.	B1 nom.	B2 nom.	B3 nom.	C1 nom.	D1 nom.
4	150.0	98.5	113.5	126.5	79.5	63.5	50.0	35.0	4.5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
5	161.7	154.5	83.0	32.4	4.8



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
6	245.0	226.0	94.0	35.0	4.5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B3 nom.	C1 nom.	D1 nom.
7	223.9	206.0	82.9	38.5	37.5	4.8

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece
	(V)	(Hz)	(x)						(£)
HID-PV C 35 /I CDM	220-240	50/60	58	1	UNP / 12	12		8711500 914781 30	
HID-PV Cx 2x35 35 /I CDM	220-240	50/60	14	2	UNP / 12	12	HIDPVC235I	8711500 933300 30	261.94
HID-PV C 35 /G CDM	220-240	50/60	24	3	UNP / 6	6	HIDPVC035G	8711500 002105 30	186.38
HID-PV C 35 /I CDM	220-240	50/60	24	4	UNP / 12	12	HIDPVC035I	8711500 930125 30	169.46
HID-PV C 70 /C CDM	220-240	50/60	32	5	UNP / 12	12		8727900 843125 00	
HID-PV Cx 2x70 70 /I CDM	220-240	50/60	14	6	UNP / 6	6	HIDPVC270I	8727900 845808 00	260.18
HID-PV C 70 /I CDM	220-240	50/60	32	1	UNP / 12	12		8711500 914767 30	
HID-PV C 70 /G CDM	220-240	50/60	14	3	UNP / 6	6	HIDPVC070G	8711500 002129 30	213.39
HID-PV C 70 /I CDM	220-240	50/60	14	4	UNP / 12	12	HIDPVC070I	8711500 930163 30	193.99
HID-PV C 150 /I CDM	220-240	50/60	6	7	UNP / 10	10	HIDPVC150I	8711500 912879 30	243.71

HID-PrimaVision mini for CDM lamps - Built-in



Product Description

- Miniature, lightweight, one-piece electronic gear for 20W and 35W CDM Mini and 35W CDM lamps

Product Benefits

- Miniaturisation for stylish luminaire design and retrofit halogen replacement
- Minimal lamp power tolerance gives optimal lamp performance

- Robust ignition by resonant ignition
- Reduces colour differences between lamps and initial lumen spread
- Silent operation
- Performance is independent of mains voltage
- Easy luminaire design-in
- Simple installation and cabling with push-in contacts
- High quality results in trouble-free installation

Features and Benefits

- Available as Standard (/S) for use in a luminaire
- 20W LPF also available as PCB (/P) version for use in a luminaire
- 20W available as High Power Factor (HPF) and Low Power Factor (LPF)
- Smallest gear available
- Minimal lamp power spread

- Microprocessor controlled
- Resonant ignition voltage <1.5kV (20W) and <2.0kV (35W)
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 h
- Push-in contacts
- High quality (< 500 ppm)
- Quality standard by excellence in development and manufacturing processes
- Miniaturisation for stylish luminaire design and retrofit halogen replacement
- Minimal lamp power tolerance gives optimal lamp performance
- Robust ignition by resonant ignition
- Reduces colour differences between lamps and initial lumen spread
- Silent operation

- Performance is independent of mains voltage
- Easy luminaire design-in
- Simple installation and cabling with push-in contacts
- High quality results in trouble-free installation

Environment

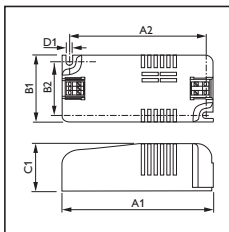
- RoHS compliant
- Green Flagship
- ENEC approved

Applications

- Accent and decorative lighting for shops and retail, public spaces, lobbies and offices
- Climatic suitability: for indoor use only

System

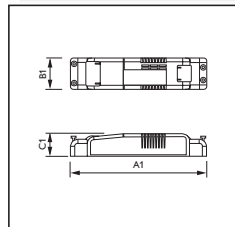
- Designed for optimum system performance with Philips MASTERColour CDM (Mini) lamps



A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
97.3	88.0	43.3	30.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(V)	(Hz)	(x)					(£)
HID-PV m 1x020/S Standard HPF CDM	220-240	50/60	24	UNP / 12	12	HIDPVM020SHPF	912367 30	207.21
HID-PV m 1x020/S Standard LPF mCDM	220-240	50/60		UNP / 12	12	HIDPVM020S	536082 30	241.73
HID-PV m 1x035/S Standard HPF CDM	220-240	50/60	24	UNP / 12	12	HIDPVM035S	910622 30	207.21

HID-PrimaVision mini for CDM lamps - Independent



Dim. no.	A1	A2	B1	C1	D1
1	190.0	154.0	43.3	30.0	4.2

Product Description

- Miniature, lightweight, one-piece electronic gear for 20W and 35W CDM Mini and 35W CDM lamps

Product Benefits

- Miniature system for stylish luminaire design and retro-fit halogen replacement
- Minimal lamp power tolerance gives optimal lamp performance
- Robust ignition by resonant ignition
- Reduces colour differences between lamps and initial lumen spread
- Silent operation
- Performance is independent of mains voltage
- Easy design-in into the luminaire
- Simple installation and cabling with push-in contacts and with integrated strain relief
- High quality results in trouble-free installation

Features and Benefits

- Available as Independent (I) for independent use on a (false) ceiling.
- Minimal lamp power spread
- Microprocessor controlled
- Resonant ignition voltage <1.5kV (20W) and <2.0kV (35W)
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 h
- 20W available as High Power Factor (HPF) and Low Power Factor (LPF)
- Push-in contacts
- Integrated strain relief
- High quality (< 500 ppm)
- Quality standard by excellence in development and manufacturing processes
- Miniature system for stylish luminaire design and retro-fit halogen replacement
- Minimal lamp power tolerance gives optimal lamp performance
- Robust ignition by resonant ignition
- Reduces colour differences between lamps and initial lumen spread
- Silent operation
- Performance is independent of mains voltage
- Easy design-in into the luminaire

- Simple installation and cabling with push-in contacts and with integrated strain relief
- High quality results in trouble-free installation

Environment

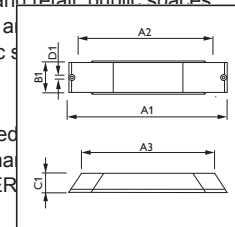
- RoHS compliant
- Green Flagship
- ENEC approved

Applications

- Accent and decorative lighting for shops and retail public spaces, lobbies and
- Climatic suitability only

System

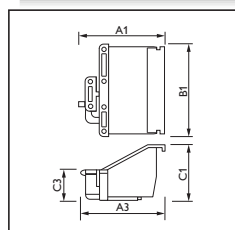
- Designed for optimum system performance with Philips MASTER



Dim. no.	A1	A2	A3	B1	C1	D1
2	234.7	225.1	202.0	49.4	34.0	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID-PV m 35 /C /C CDM	220-240	50/60	24		UNP / 12	12		8727900 843132 00	
HID-PV m 1x020/I Independent LPF mCDM	220-240	50/60	48	1	UNP / 12	12	HIDPVM020I	8711500 909817 30	261.06
HID-PV m 1x035/I Independent CDM	220-240	50/60	24	2	UNP / 10	10	HIDPVM035I	8711500 913913 30	247.87

HID-PrimaVision (potted) for MH/CDM lamps



A1	A3	B1	C1	C3
nom.	nom.	nom.	nom.	nom.
40	40	62	30	16

Product Description

- Solid, one-piece electronic gear for 150W MH and CDM lamps and 70W CDM lamps

Product Benefits

- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage
- Lamp life increased by up to 30% (CDM) or 50% (MH)
- Simple installation and cabling
- Push-in connectors
- Separate strain-relief
- For 70W: DALI interface enables communication with gear for switching on/off and read-out of status

Features and Benefits

- For use with Ceramic Discharge Lamps (CDM) and/or Metal Halide lamps (MH)
- Available as Standard (S) for use in a luminaire, or with separate strain relief for independent use on a (false) ceiling
- For 70W CDM: Digital DALI interface for communication with the gear
- Minimal lamp power spread
- Microprocessor controlled
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 h
- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage
- Lamp life increased by up to 30% (CDM) or 50% (MH)
- Simple installation and cabling
- Push-in connectors

- Separate strain-relief
- For 70W: DALI interface enables communication with gear for switching on/off and read-out of status

Environment

- RoHS compliant
- ENEC or KEMA/VDE approved

Application

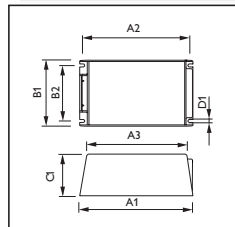
- 70W: accent and decorative, shops and retail, indoor public spaces, lobbies and offices
- 150W: as 70W for high ceilings
- Climatic suitability: for indoor and outdoor applications due to plastic housing and potting

System

- Designed for optimum system performance with Philips MASTERColour CDM lamps or MASTER MH lamps

Type	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID Strain Relief RELIEF	UNP / 10	10	HIDPVCOVER	539861 30	294.22

HID-PrimaVision for CDM Mid-Wattage lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	215.0	204.5	128.5	111.5	60.0	4.2
2	170.0	156.0	101.0	81.5	59.0	5.0

Product Description

- Compact, robust, one-piece, electronic ballast for 250W CDM lamps

Product Benefits

- Eliminates all visible lamp flicker
- Reduces colour differences between lamps and initial lumen spread
- Silent operation without hum
- Performance is independent of mains voltage
- Lamp life increased by up to 30% for CDM lamps
- Simple installation and cabling
- Push-in connectors

Features and Benefits

- Suitable for use in outdoor luminaires
- Compact, robust, one-piece ballast
- Increased ballast lifetime
- Lamp power independent of lamp life and mains voltage 206-254V
- Low-frequency electronic gear for stable, flicker-free lamp operation
- Self-stopping facility prevents cycling of old lamps
- Full protection of ballast and installation against fault conditions such as excess temperature and end of lamp life
- Cage clamp terminal connections with pushbutton release
- Simple installation and cabling

Environment

- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

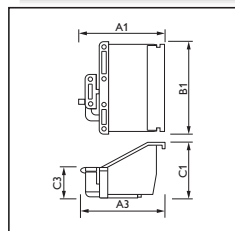
- Floodlighting
- Shop lighting
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23

System

- Designed for optimum system performance with Philips MASTERColour CDM lamps

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
	(V)	(Hz)						(£)
HID-PV 210 /S CDM	220-240	50/60	1	UNP / 4	4	HIDPV210SCDMMW	843064 00	428.26
HID-PV Xt 210 /S CDM	220-240	50/60	2	UNP / 6	6		853179 00	
HID-PV 315 /S CDM	220-240	50/60	1	UNP / 4	4	HIDPV315SCDMMW	843118 00	503.39

HID-PrimaVision for SDW-TG lamps (mini White SON)



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.	C3 nom.
1	40	40	62	30	16

Product Description

- Lightweight, one-piece electronic gear for 50W and 100W SDW-TG lamps (mini White SON)

Product Benefits

- Minimal lamp power tolerance gives optimal lamp performance
- Reduces colour differences between lamps and initial lumen spread
- Silent operation
- Performance is independent of mains voltage
- Easy luminaire design-in
- High quality results in trouble-free installations

Product Features

- Available as Standard (/S) for use in a luminaire, or with separate strain relief for independent use on a (false) ceiling

- Minimal lamp power spread
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 h
- Independent use with separate strain relief
- High quality (< 500 ppm)
- Quality standard by excellence in development and manufacturing processes
- Minimal lamp power tolerance gives optimal lamp performance
- Reduces colour differences between lamps and initial lumen spread
- Silent operation
- Performance is independent of mains voltage
- Easy luminaire design-in
- High quality results in trouble-free installations

Environment

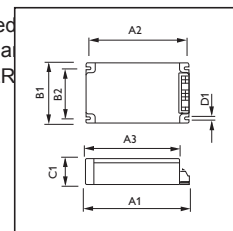
- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

- Shop lighting (creates a cosy atmosphere, e.g. in furniture shops), excellent display of fresh goods (e.g. in butchers, bakeries, florists)
- Climatic suitability: for indoor use only

System

- Designed for optimum system performance with Philips MASTER

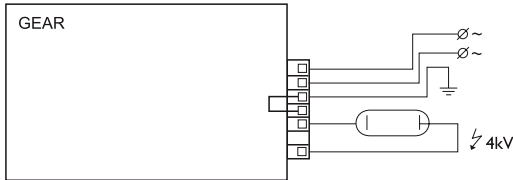


Dim. no.	A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	150.0	134.0	136.0	90.0	70.0	38.0	4.5

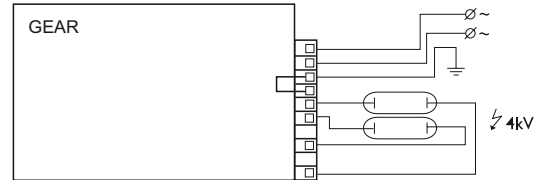
Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(V)	(Hz)	(x)						(£)
HID Strain Relief RELIEF				1	UNP / 10	10	HIDPVCOVER	539861 30	294.22
HID-PV 50 /S SDW-TG	220-240	50/60	24	2	UNP / 10	10	HIDPVC050SDWTG	909107 30	221.62
HID-PV 100 /S SDW-TG	220-240	50/60	14	2	UNP / 10	10	HIDPVC100SDWTG	909084 30	239.09

Wiring Diagram

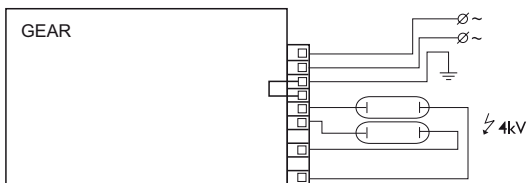
HID-PrimaVision Compact CDM 35, 70 & 150 Built in



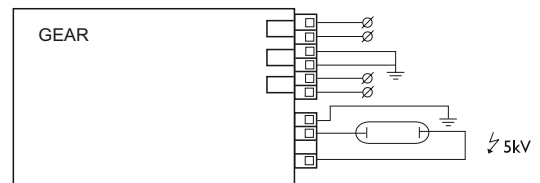
HID-PrimaVision Compact CDM 2x35 & 2x70 Built in



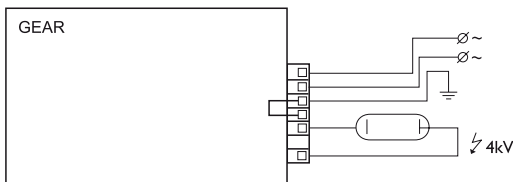
HID-PrimaVision Compact CDM 2x35 & 2x70 Independent



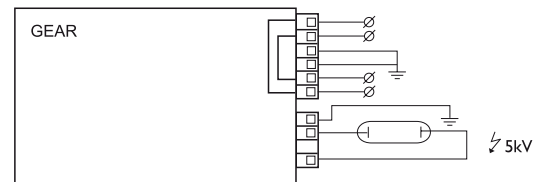
HID-PrimaVision Compact CDM 35 & 70 /C Independent



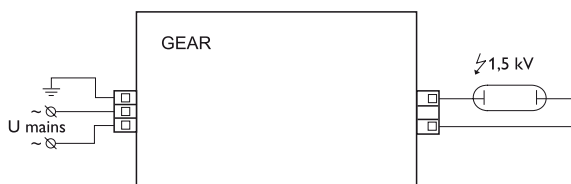
HID-PrimaVision Compact CDM 35 & 70 /G Independent



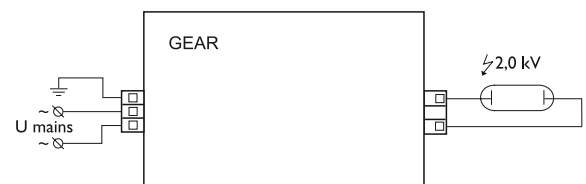
HID-PrimaVision Compact CDM 150 Independent



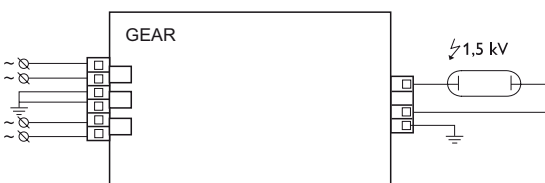
HID-PrimaVision mCDM 1x020 Built in



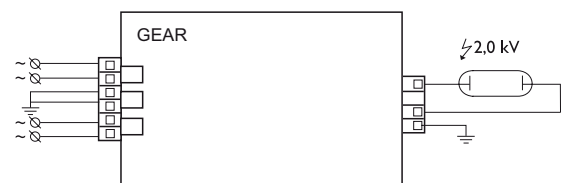
HID-PrimaVision mCDM 1x035 Built in



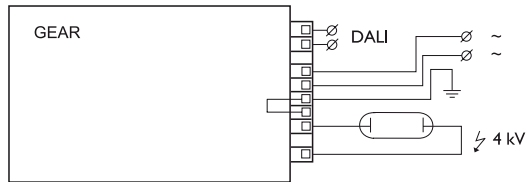
HID-PrimaVision mCDM 1x020 & 20 Independent



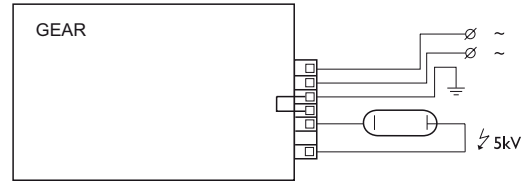
HID-PrimaVision mCDM 1x035 & 35 Independent



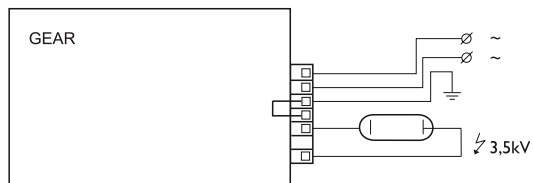
HID-PrimaVision DALI 70 /S CDM



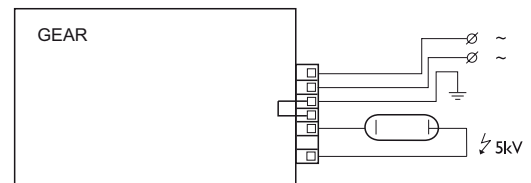
HID-PrimaVision 150 /S MH/CDM



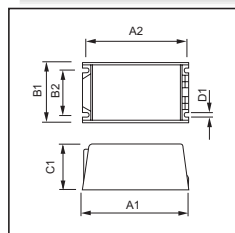
HID-PrimaVision 210 & 315 /S



HID-PrimaVision for SDW-TG



HID Electronic Outdoor HID-PrimaVision CPO-TW Xtreme



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	135.0	125.7	65.0	46.8	65.0	4.8
2	150.0	135.9	65.0	46.8	65.0	5.0
3	150.0	140.7	65.0	46.8	65.0	4.8

Product Description

- Compact, robust, outdoor, one-piece, electronic ballasts for CosmoPolis White (CPO-TW) lamps

Features and Benefits

- Specifically designed for use in outdoor luminaires and outdoor environment
- Size suitable for both luminaire and pole mounting
- Lightning stroke protection
- Increased ballast lifetime
- Double insulated so easy to use in Class 2 applications

- Lamp power independent of lamp life and mains voltage (206-254V)
- Stable, flicker-free lamp operation
- Self-stopping facility prevents cycling of old lamps
- Full protection of ballast and installation against fault conditions such as excess temperature, mains undervoltage, mains overvoltage and end of lamp life
- Cage clamp terminal connections with pushbutton release
- Simple installation and cabling

Environment

- Philips Green Flagship product with high efficacy minimizes environmental impact and CO₂ emission
- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

- Road, street and tunnel lighting
- Residential lighting
- City beautification
- Outdoor and indoor applications, recommended outdoor luminaire classification > IP 23

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID-PV Xt Xt 45 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDPVXT45CPOTW	8711500 912756 30	229.75
HID-PV Xt Xt 45 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDPVXT45CPOTW	8711500 915061 30	229.75
HID-PV Xt Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDPVXT60CPOTW	8711500 914903 30	272.09
HID-PV Xt Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12		8711500 912343 30	
HID-PV Xt Xt 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12		8727900 813470 00	
HID-PV Xt Xt 90 /S CPO-TW	220-240	50/60	3	UNP / 12	12		8711500 913319 30	
HID-PV Xt Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12		8727900 804621 00	

HID DynaVision LumiStep



Product Description

- Stand-alone dimming, lightweight, one-piece electronic gear for CosmoWhite lamps

Product Benefits

- Extremely high outdoor quality standard by excellence in development and manufacturing processes
- Highly efficient white light system for outdoor lighting

- Additional energy saving during night thanks to LumiStep dimming concept
- One-component system for easy installation and reliable operation
- Guaranteed system performance at all mains voltages from 206-254V
- Simple installation, also for retrofit installations (same footprint as electromagnetic systems)
- Easy detection of lamp end-of-life (built-in self-stop)
- Compact and environment-friendly system
- eXtreme long lifetime gear

Features and Benefits

- Step dimming from 100% down to 60% within three pre-programmed cycles - 6, 8 and 10 hours – at start times determined in the dimming cycle
- No external control components nor additional signal wiring required

- Single easily-installed, self-contained component
- High system efficiency – up to 92%
- Xtreme long lifetime gear: 60,000 hours 95% survival rate (or 80,000 hours with 90% survival rate) at nominal temperature
- Peak voltage protection safeguards the lamp; surge protection safeguards the gear (differential mode/common mode 2kV/4kV)
- Full lightning protection (10kV L/N to GND)
- Guaranteed system performance at all mains voltages from 198-254 V
- Double insulated so easy to use in Class 2 applications
- Stable, flicker-free lamp operation
- Self-stopping facility prevents cycling of old lamps
- Size suitable for both luminaire and pole mounting and also for retrofit installations (same footprint as electromagnetic systems)

- Cage clamp terminal connections with pushbutton release
- Compact and environment-friendly system

Environment

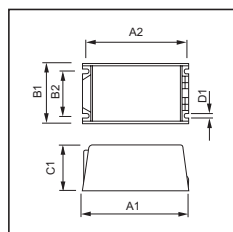
- Philips Green Flagship product with high efficacy minimizes environmental impact and CO₂ emission
- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

- Road and street lighting
- Residential lighting
- City beautification
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23

System

- Designed for optimum system performance with Philips CosmoWhite lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	135.0	125.7	65.0	46.8	65.0	4.8
2	150.0	140.7	65.0	46.8	65.0	5.0

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID-DV LS-10 Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDDVLS10XT60CP	8711500 914644 30	362.77
HID-DV LS-6 Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDDVLS6XT60CPO	8711500 915085 30	362.77
HID-DV LS-6 Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDDVLS6XT60CPO	8711500 914620 30	362.77
HID-DV LS-8 Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDDVLS8XT60CPO	8711500 915108 30	362.77
HID-DV LS-6 Xt 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS6XT90CPO	8727900 815603 00	362.77
HID-DV LS-8 Xt 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS8XT90CPO	8727900 815610 00	362.77
HID-DV LS-10 Xt 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS10XT90CP	8727900 815627 00	362.77
HID-DV LS-6 Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS6XT140CP	8727900 813494 00	362.77
HID-DV LS-8 Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS8XT140CP	8727900 813500 00	362.77
HID-DV LS-10 Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS10XT140C	8727900 813517 00	362.77

HID-PrimaVision SON and CDO



Product Description

- Compact, one-piece, electronic ballasts for high-pressure sodium (SON) lamps and metal halide (CDO) lamps

Features and Benefits

- Lamp power independent of lamp life and mains voltage 206-254V
- Low-frequency, electronic gear for stable, flicker-free lamp operation; increases lamp life by 20 – 30% depending on application
- Self-stopping facility prevents cycling of old lamps
- Full protection of ballast and installation against fault conditions such as overtemperature and end of lamp life

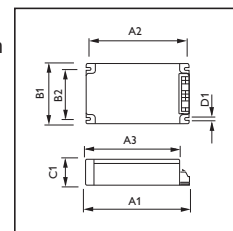
- Suitable for use in outdoor luminaires
- Cage clamp terminal connections with push-button release
- Simple installation and cabling

Environment

- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

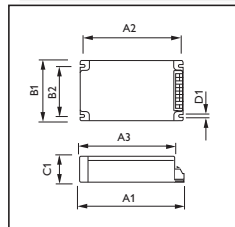
- Road / tunnel lighting
- Residential lighting
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23



A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
150.0	134.0	136.0	90.0	70.0	40.0	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HID-PV 70 /S SON/CDO	220-240	50/60	UNP / 10	10	HIDPV070SON	930248 30	228.27
HID-PV 100 /S SON/CDO	220-240	50/60	UNP / 10	10	HIDPV100SON	928986 30	242.84
HID-PV 150 /S SON/CDO	220-240	50/60	UNP / 10	10	HIDPV150SON	929006 30	237.88

HID-DynaVision SON and CDO



A1	A2	A3	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.
150.0	134.0	136.0	90.0	70.0	40.0	4.5

Product Description:

- Compact, one-piece, electronic dimming ballast for built-in or stand-alone applications with high-pressure sodium (SON) and metal halide lamps (CDO)

Features and Benefits:

- 1-10V input for dim-control signal
- Lamp power independent of lamp life and mains voltage 206-254V
- Low-frequency, electronic, dimmable gear for stable, flicker-free lamp operation; increases lamp life by 20 – 30% depending on application

- SON lamps can be dimmed between 100% - 35% of power (100 - 20% light output)
- CDO lamps can be dimmed between 100-60% of power (100-50% light output)
- Self-stopping facility prevents cycling of old lamps
- Full protection of ballast and installation against fault conditions such as overtemperature and end of lamp life
- Suitable for use in outdoor luminaires

- Cage clamp terminal connections with push-button release
- Simple installation and cabling

Environment

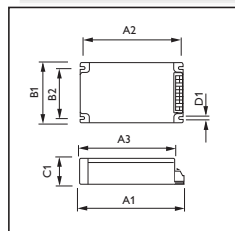
- RoHS compliant
- ENEC or KEMA/VDE approved

Applications:

- Road/tunnel lighting
- Residential lighting
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23

Type	Line Voltage	Line Frequency	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)					
HID-DV 1-10V 70 /S CDO	220-240	50/60	UNP / 10	10	HIDDV070CDO	931344 30	305.97
HID-DV 1-10V 70 /S SON	220-240	50/60	UNP / 10	10	HIDDV070	927323 30	305.97
HID-DV 1-10V 100 /S CDO	220-240	50/60	UNP / 10	10	HIDDV100CDO	931320 30	305.97
HID-DV 1-10V 100 /S SON	220-240	50/60	UNP / 10	10	HIDDV100	749055 30	305.97
HID-DV 1-10V 150 /S CDO	220-240	50/60	UNP / 10	10	HIDDV150CDO	538093 30	305.97
HID-DV 1-10V 150 /S SON	220-240	50/60	UNP / 10	10	HIDDV150	538079 30	305.97

HID-DynaVision DALI SON and CDO



A1	A2	A3	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.
150.0	134.0	136.0	90.0	70.0	40.0	4.5

Product Description:

- Compact, one-piece, electronic dimming ballasts for built-in or stand-alone applications with high-pressure sodium (SON) and metal halide lamps (CDO)
- Digital DALI interface to communicate with and program the ballast

Features and Benefits:

- DALI interface enables two way communication
- Lamp power independent of lamp life and mains-voltage 206-254V

- Low-frequency, electronic, dimmable gear for stable, flicker-free lamp operation; increases lamp life by 20 – 30% depending on application
- SON lamps can be dimmed between 100% - 35% of power (100 - 20% light output)
- CDO lamps can be dimmed between 100-60% of power (100-50% light output)
- Self-stopping facility prevents cycling of old lamps
- Full protection of ballast and installation against fault conditions such as overtemperature and end of lamp life

- Suitable for use in outdoor luminaires
- Cage clamp terminal connections with push-button release
- Simple installation and cabling

Environment

- RoHS compliant
- ENEC or KEMA/VDE approved

Applications:

- Road/tunnel lighting
- Residential lighting
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23

Type	Line Voltage	Line Frequency	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)					
HID-DV DALI 100-150 /S CDO/SON/SDW	220-240	50/60	UNP / 10	10	HIDVDV150	928733 30	357.97

HID-EXC for SOX lamps



Product Description:

- One-piece, compact, lightweight high-frequency electronic ballast

Features and Benefits:

- Replaces electromagnetic ballast, ignitor and capacitor
- Provides equivalent light output at up to 36% lower energy consumption
- One multi-voltage unit gives constant light output at mains voltages between approx. 200 and 255V
- Slim cross-section and light weight facilitate luminaire design

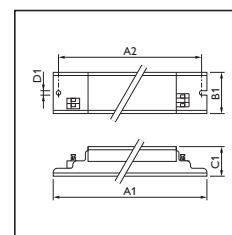
- Single-insert contacts
- Simple installation and cabling

Environment

- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

- Public lighting outdoor, e.g. road, residential, tunnels
- Climatic suitability: restricted to built-in situations where relative humidity is limited (luminaire classification min. IP 54)

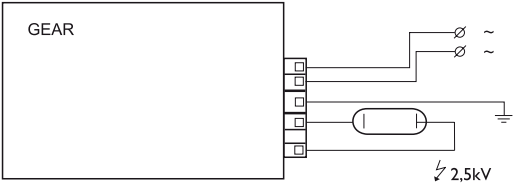


A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
280.0	265.0	40.0	28.0	4.2

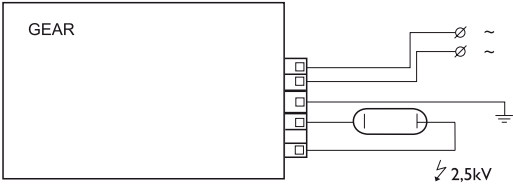
Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
EXC 35 EII SOX	220-240	50/60	UNP / 25	25	EXC035S50	062383 30	148.07
EXC 36 EII SOX-E	220-240	50/60	UNP / 25	25	EXC036S50	062406 30	141.01
EXC 55 EII SOX	220-240	50/60	UNP / 25	25	EXC055S50	062420 30	148.07

Wiring Diagram

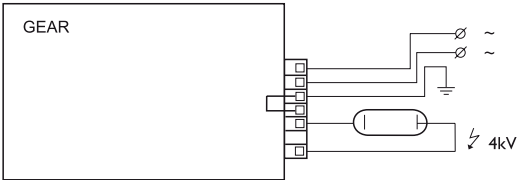
HID-PrimaVision Xtreme CPO-TW



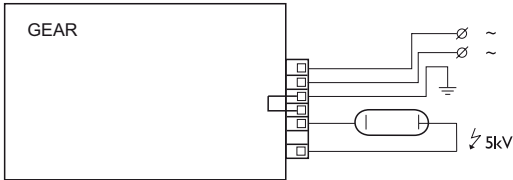
HID-DynaVision LumiStep



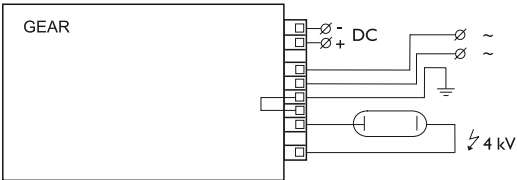
HID-PrimaVision CPO-TW



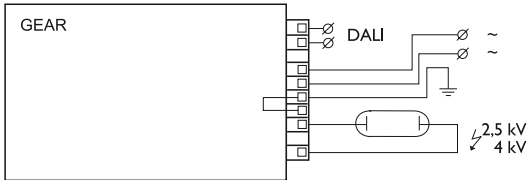
HID-PrimaVision SON & CDO



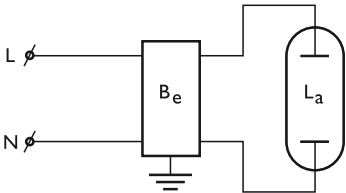
HID-DynaVision SON & CDO



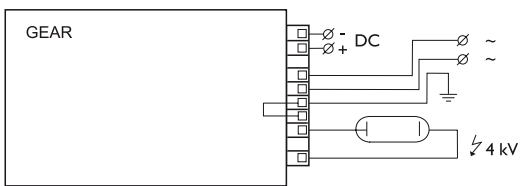
HID-DynaVision DALI SON & CDO



HID-EXC for SOX lamps

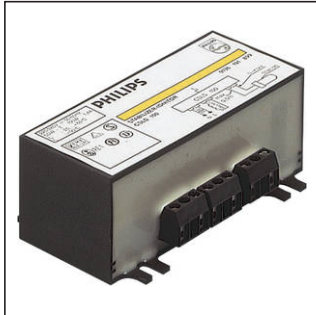


HID-DynaVision SON & CDO



Controllers

HID-CSLS Control system for SDW



Product Description:

- CSLS electronic control unit with impregnated (HID "BASIC") or encapsulated (HID "Heavy Duty") electromagnetic ballasts

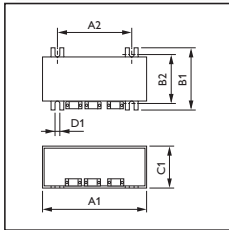
Features and Benefits:

- Electronic control unit ensures reliable starting and stabilises lamp power for optimum performance (minimum colour deviation)

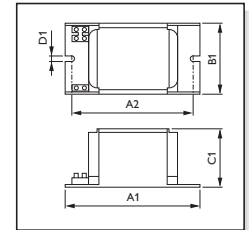
- Ballasts and electronic control units equipped with screw terminal blocks; other contact possibilities for ballasts on request
- Earthing-while-mounting facility (HID "BASIC" ballasts); separate earth terminal (HID "Heavy Duty")
- Simple installation and cabling

Applications:

- Similar to those of the related lamps
- Climatic suitability:
 - CSLS + HID "BASIC": restricted to built-in situations under normal conditions
 - CSLS + HID "Heavy Duty": use in luminaires under humid conditions (not drip-proof)



Dim. no.	A1	A2	B1	B2	C1	D1
1	98.0	70.0	58.5	46.0	39.5	4.5



Dim. no.	A1	A2	B1	C1	D1
2	118.0	94.0	61.0	52.0	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
CSLS 35	220-240	50/60	1	UNP / 18	18	CSLS35	911124 30	112.73
BSL 35 L307	230/240	50	2	UNP / 6	6	BSL35L307	919052 30	
BSL 35 L327	230/240	50	2	UNP / 6	6	BSL35L327	744142 30	30.07
BSL 50 L307-LT	230/240	50	2	UNP / 6	6	BSL50L307LT	920355 31	30.24
CSLS 50	220-240	50/60	1	UNP / 18	18	CSLS50	908087 30	112.73
CSLS 100	220-240	50/60	1	UNP / 18	18	CSLS100	908704 30	112.73
BSL 100 L307	230/240	50	2	UNP / 6	6	BSL100L307	915306 30	36.00

HID-SDU for regulating systems



Product Description

- Interface for two-level control of electronic ballasts with 1-10V dim input with 230V switched line signal

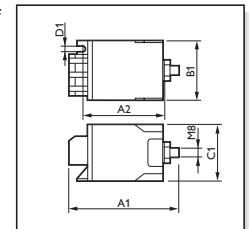
Features and Benefits

- HF-Regulator for Fluorescent lamps: dimming from 100 to 50%
- HID-DynaVision for SON lamps: dimming from 100 to 50%

- When SDU is connected the dim-input of the electronic ballast is not galvanically isolated anymore!
- SDU in synthetic 'standard' ignitor house with M8 stud, screw connectors for wiring

Applications

- Public lighting where two-level dimming is required combined with the advantages of electronic operation

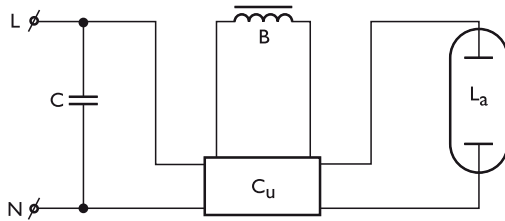


A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
89.0	70.0	41.0	38.0	4.3

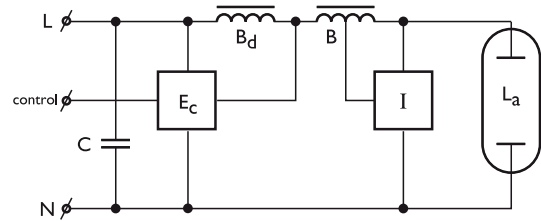
Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
SDU 13-600 01-S	220-240	50/60	UNP / 20	20	SUD01S220-240V	747280 30	74.54

Wiring Diagram

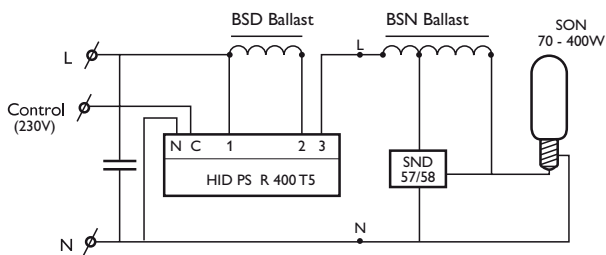
HID-CSLS for SDW



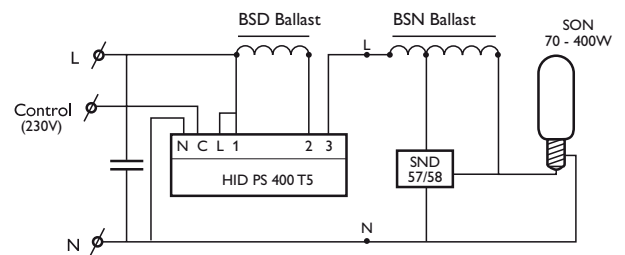
HID-Regulator BSD



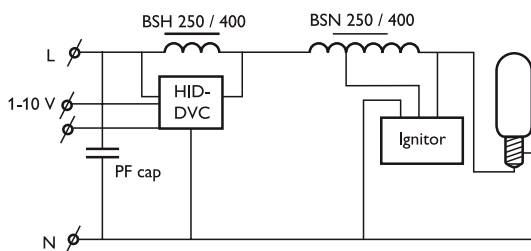
HID Power Switch



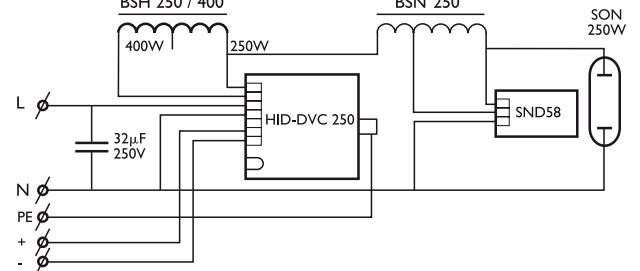
HID Power Switch



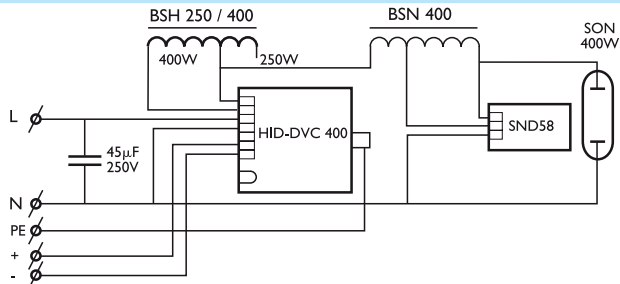
HID-DynaVision Control BSH



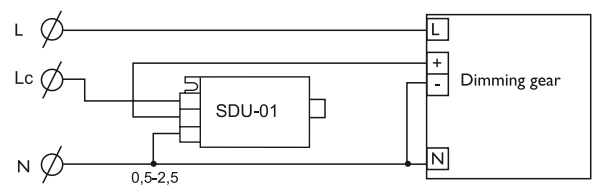
HID-DynaVision Control 250 SON



HID-DynaVision Control 400 SON



HID-SDU



HID electromagnetic

HID-Basic BSN/BMH semi-parallel ignitor

Product Description:

- Impregnated electromagnetic copper/iron ballasts for use with an external semi parallel ignitor for CDM, CDO, MH, HPI (Plus) and SON lamps

Features and Benefits:

- All ballasts are equipped with ThermoSwitch for protection against end-of-lamp-life phenomena

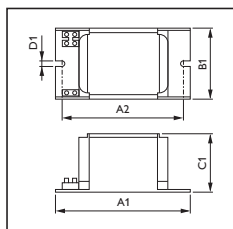
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Control gear can be installed remotely; substantial distance allowed between ballast/ignitor & lamp
- Equipped as standard with screw terminal blocks; insert contact on request

- Earthing-while-mounting facility
- Ballast can also be used in combination with series (superimposed) ignitor
- Ballasts for alternative mains voltages/frequencies on request

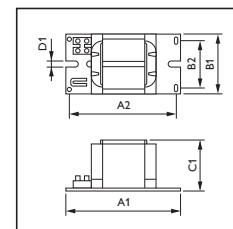
Applications:

- Ideal for the following applications:
 - Recreational sports lighting, outdoor and indoor
 - Road and residential lighting

- Floodlighting of buildings and monuments
- Area lighting, e.g. harbors, building sites
- Canopy lighting, e.g. petrol stations
- Horticulture
- Climatic suitability: restricted to built-in situations where relative humidity is limited



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118.0	94.0	61.0	52.0	6.2
2	123.0	98.0	61.0	52.0	6.2
3	134.0	113.0	76.0	65.0	6.2
4	160.0	139.0	76.0	65.0	6.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
5	166.0	145.0	97.0	78.5	83.0	6.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BMH 35 L407-ITS	230/240	50	1	UNP / 6	6	BMH35L407ITS	748454 30	44.96
BSN 50 L407-I	230/240	50	1	UNP / 6	6	BSN50L407I	918994 30	31.80
BSN 50 L407-ITS	230/240	50	1	UNP / 6	6	BSN50L407ITS	536129 30	36.07
BMH 70 L407-ITS	230/240	50	1	UNP / 6	6	BMH70L407ITS	748911 31	49.18
BSN 70 L407-ITS	230/240	50	1	UNP / 6	6	BSN70L407ITS	535832 30	42.72
BSN 70 L427-ITS	230/240	50	1	UNP / 720	720	BSN70L427ITS	749529 40	42.71
BSN 100 L407-ITS	230/240	50	2	UNP / 6	6	BSN100L407ITS	747747 30	42.71
BSN 150 L407-I	230/240	50	3	UNP / 6	6	BSN150L407I	738479 30	85.06
BSN 150 L407-ITS	230/240	50	3	UNP / 6	6	BSN150L407ITS	739087 30	84.62
BSN 250 L407-I	230/240	50	4	UNP / 6	6	BSN250L407I	738516 30	89.49
BSN 250 L407-ITS	230/240	50	4	UNP / 6	6	BSN250L407ITS	739162 30	93.45
BSN 400 L407-ITS	230/240	50	5	UNP / 2	2	BSN400L407ITS	538635 30	131.91
BSN 600 L407-ITS	230/240	50	5	UNP / 2	2	BSN600L407ITS	538802 30	166.17

HID-Basic BSN/BMH series ignitor

Product Description:

- Impregnated electromagnetic copper/iron ballasts for use with an external series (superimposed) ignitor for CDO, MH, HPI (Plus) and SON lamps (no ignitor needed for SON-I lamps)

Features and Benefits:

- Reinforced insulation for protection class II luminaire

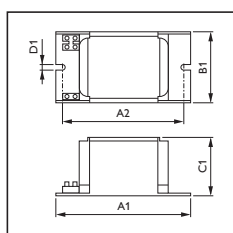
- All ballasts are equipped with ThermoSwitch protection against end of lamplife phenomena
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped as standard with screw terminal blocks; insert contact on request

- Earthing-while-mounting facility
- Simple installation and cabling

Applications:

- Ideal for the following applications:
 - Recreational sports lighting, outdoor and indoor
 - Floodlighting of buildings and monuments

- Area lighting, e.g. harbors, building sites
- Canopy lighting, e.g. petrol stations
- Road and residential lighting
- Climatic suitability: restricted to built-in situations where relative humidity is limited



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118.0	94.0	61.0	52.0	6.2
2	160.0	139.0	76.0	65.0	6.2

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)						
BMH 35 L307-TS	230/240	50	1	UNP / 6	6	BMH35L307TS	919779 30	44.10
BSN 70 L307	230/240	50	1	UNP / 6	6	BSN70L307	919007 31	33.73
BSN 70 L307-TS	230/240	50	1	UNP / 6	6	BSN70L307TS	917171 31	34.18
BSN 250 L307-TS	230/240	50	2	UNP / 6	6	BSN250L307TS	737311 30	69.06

HID-Basic Multi-Wattage series ignitor

Product Description

- Impregnated electromagnetic copper/iron double-wattage ballasts for use with an external series (superimposed) ignitor for CDO, MH, HPI (Plus) and SON lamps

Features and Benefits

- Double wattage & Double voltage ballasts
- Possibility of dimming with an external controller

- All ballasts are equipped with ThermoSwitch protection against end-of-lamp-life phenomena
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped as standard with screw terminal blocks; insert contact on request

- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies on request

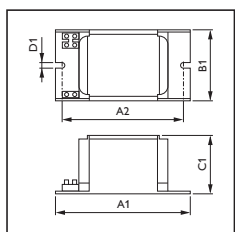
Applications

- Ideal for the following applications:
 - Road and residential lighting
 - Recreational sports lighting, outdoor and indoor
 - Floodlighting of buildings and monuments

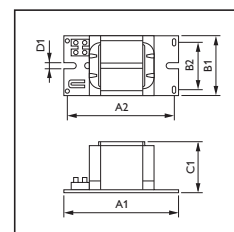
- Area lighting, e.g. harbors, building sites, city centers, shopping centers, pedestrian areas

- Canopy lighting, e.g. petrol stations

- Climatic suitability: restricted to built-in situations where relative humidity is limited



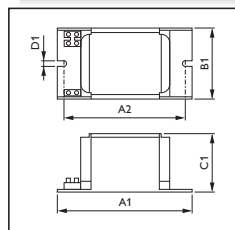
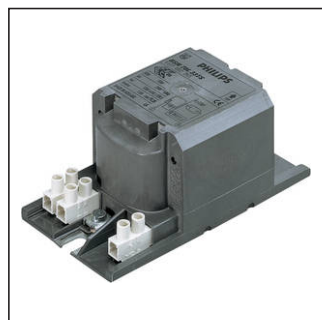
Dim. no.	A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
1	118.0	94.0	61.0	52.0	6.2
2	123.0	98.0	61.0	52.0	6.2
3	134.0	113.0	76.0	65.0	6.2



Dim. no.	A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.
4	166.0	145.0	97.0	78.5	83.0	6.5

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)						
BSN 50/70 L407-TS	230/240	50	1	UNP / 6	6	BSN5070L407TS	539403 31	37.68
BSN 50/70 L427-TS	230/240	50	1	UNP / 6BOX	6	BSN5070L427TS	539380 31	
BSN 70/100 L407-TS	230/240	50	2	UNP / 6	6	BSN70100L407TS	060495 30	38.50
BSN 100/150 L407-TS	230/240	50	3	UNP / 6	6	BSN100150L407TS	063915 30	60.50
BSN 250/400 L407-TS	230/240	50	4	UNP / 2	2	BSN250400L407TS	060433 30	104.50

HID-HeavyDuty BSN semi-parallel ignitor



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118.0	103.0	65.0	53.0	6.2
2	123.0	108.0	65.0	53.0	6.2
3	134.0	115.5	81.0	66.0	6.2
4	160.0	141.5	81.0	66.0	6.2
5	166.0	147.5	102.0	84.0	6.2

Product Description:

- Encapsulated electromagnetic copper/iron ballasts for use with an external semi-parallel ignitor for CDM, CDO, MH, HPI (Plus) and SON lamps (no ignitor needed for SON-I lamps)

Features and Benefits:

- Outstanding product life (10 – 15 years)
- Excellent resistance to chemical attack, humid conditions and high environmental stress crack resistance
- Separate earth terminal

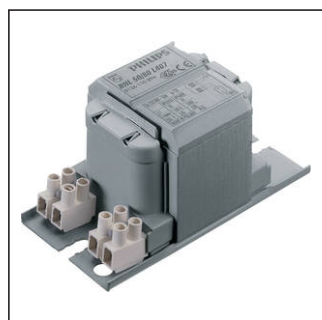
- All ballasts are equipped with ThermoSwitch protection against end-of-lamp-life phenomena
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped as standard with screw terminal blocks
- Ballast can also being used in combination with a series (super-imposed) ignitor
- Ballasts for alternative mains voltages/frequencies on request

Applications:

- Ideal for the following applications:
 - Outdoor: tunnels and parking areas
 - Outside luminaire: in the pole or electrical cabinet
 - Road and residential lighting
 - Area lighting, e.g. harbors, building sites, city centers, shopping centers, pedestrian areas
- Climatic suitability: use in luminaires under normal humid conditions (not drip-proof)

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BSN 50 L34	240	50	1	UNP / 6	6	BSN50L34	915399 31	48.75
BSN 70 L34	240	50	1	UNP / 6	6	BSN70L34	915412 31	50.64
BSN 70 L34-TS	240	50	1	UNP / 6	6	BSN70L34TS	059703 31	104.16
BSN 100 L34	240	50	2	UNP / 6	6	BSN100L34	915351 31	59.51
BSN 100 L34-TS	240	50	2	UNP / 6	6	BSN100L34TS	059741 31	62.18
BSN 150 L34	240	50	3	UNP / 6	6	BSN150L34	915207 30	100.66
BSN 150 L34-TS	240	50	3	UNP / 6	6	BSN150L34TS	059628 30	104.16
BSN 250 L34	240	50	4	UNP / 6	6	BSN250L34	915375 30	106.40
BSN 250 L34-TS	240	50	4	UNP / 6	6	BSN250L34TS	059666 30	108.72
BSN 400 L34	240	50	5	UNP / 4	4	BSN400L34	915214 30	115.93
BSN 400 L34-TS	240	50	5	UNP / 4	4	BSN400L34TS	059789 30	119.83

HID-Basic BHL (HPL/HPI)



Product Description:

- Impregnated electromagnetic copper/iron ballasts for HPL and HPI (Plus) lamps

Features and Benefits:

- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped as standard with screw terminal blocks; insert contacts on request

- Earthing-while-mounting facility
- Simple installation and cabling
- ThermoSwitch added for maximum safety
- Ballasts for alternative mains voltages/frequencies on request

Applications:

- Ideal for the following applications:
 - High-bay lighting, e.g. industrial workshops, exhibition halls, supermarkets, shopping malls, DIY stores, churches, airports, railway stations

- Road and residential lighting
- Recreational sports lighting, outdoor and indoor
- Floodlighting of buildings and monuments
- Area lighting, e.g. harbors, building sites
- Canopy lighting, e.g. petrol stations
- Climatic suitability: restricted to built-in situations where relative humidity is limited

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BHL 50 L307	230/240	50	UNP / 6	6	BHL50L307	919076 30	36.36
BHL 50/80 L407	230/240	50	UNP / 6	6	BHL5080L407	919670 31	38.25
BHL 80/125 L407	230/240	50	UNP / 6	6	BHL80125L407	945549 31	
BHL 125 L307	230/240	50	UNP / 6	6	BHL125L307	919090 31	41.81
BHL 250 L307	230/240	50	UNP / 6	6	BHL250L307	737229 30	72.28
BHL 400 L307	230/240	50	UNP / 6	6	BHL400L307	737250 30	82.43

HID-HeavyDuty BHL (HPL/HPI)



Product Description:

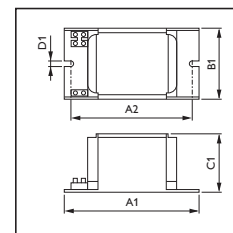
- Encapsulated electromagnetic copper/iron ballasts for HPL and HPI (Plus) lamps

Features and Benefits:

- Outstanding product life (10 – 15 years)
- Excellent resistance to chemical attack, humid conditions and high environmental stress crack resistance
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped as standard with screw terminal blocks
- Simple installation and cabling
- Ballasts for alternative mains voltages/frequencies on request

Applications:

- Ideal for the following applications:
 - Recreational sports lighting, outdoor and indoor
 - Floodlighting of buildings and monuments
 - Area lighting, e.g. harbors, building sites
 - Canopy lighting, e.g. petrol stations
 - High bay lighting, e.g. industrial workshops, exhibition halls, hypermarkets, shopping malls, DIY stores, churches, airports, railway stations
- Climatic suitability: use in luminaires under normal humid conditions (not drip-proof)



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118.0	103.0	65.0	53.0	6.2
2	134.0	115.5	81.0	66.0	6.2
3	160.0	141.5	81.0	66.0	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BHL 80 L32	240	50	1	UNP / 6	6	BHL80L32	919373 31	34.95
BHL 125 L32	240	50	1	UNP / 6	6	BHL125L32	919441 31	39.91
BHL 250 L32	240	50	2	UNP / 6	6	BHL250L32	944894 30	68.66
BHL 400 L32	240	50	3	UNP / 6	6	BHL400L32	919557 30	82.43

HID-HighPower MH, HPI, HPL, SON



Product Description:

- Encapsulated ballasts for use with SON (T) (Plus), HPL, HPI and MH lamps with a rated wattage of 1000W and above

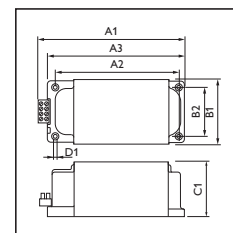
Features and Benefits:

- Class I rated (i.e. with earthing facility)
- Compact dimensions and light weight with minimal watt losses (typically 5% of system power), thanks to orthocyclic winding process
- Both single-phase (220-230-240V) and 3-phase (380-400-415V) models
- Equipped as standard with screw terminal blocks

- Encapsulated design for excellent protection against moisture ingress
- Narrow cross-section is ideal for pole-mounting situations
- Ballasts for alternative mains voltages/frequencies on request

Applications

- Ideal for the following applications:
 - Floodlighting of large buildings, facades and monuments
 - Sports lighting, e.g. stadiums, arenas
 - Area lighting, e.g. harbors, building sites, industrial complexes



Dim. no.	A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	207.0	172.0	196.0	117.0	88.0	102.0	6.5
2	257.0	222.0	246.0	117.0	88.0	102.0	6.5
3	317.0	282.0	306.0	117.0	88.0	102.0	6.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HID-HighPower BHL 1000 L78	230/240	50	1	UNP / 1	1	BHL1000L78	062376 00	233.68
BSN 1000 L78	230/240	50	2	UNP / 1	1	BSN1000L78	062369 00	272.12
HID-HighPower BMH 1800 L78	230/240	50	3	UNP / 1	1	BMH1800L78	059901 00	383.31
HID-HighPower BHD 2000 L76	380-415	50	3	UNP / 1	1	BHD2000L76	742766 00	368.43
HID-HighPower BHL 2000 L76	380-415	50	3	UNP / 1	1	BHL2000L76	063847 00	326.06
HID-HighPower BHL 2000 L78	230/240	50	3	UNP / 1	1	BHL2000L78	063854 00	326.06

HID-Basic ballasts BSX (SOX)



Product Description:

- Impregnated electromagnetic copper/iron ballasts for use with an external ignitor for SOX and SOX-E lamps

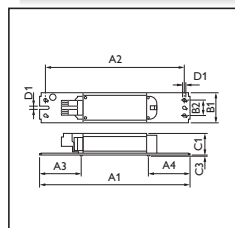
Features and Benefits:

- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process

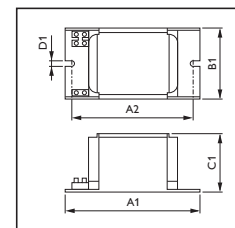
- Equipped with double-insert contacts
- Simple installation and cabling
- Ballasts for alternative mains voltages/frequencies on request

Applications:

- Ideal for the following applications:
 - Road lighting, railway marshalling yards and crossings, airports, harbors and docks, quarries, foundries and rolling mills
 - Security and orientation lighting
- Climatic suitability: use in luminaires or poles under normal humid conditions (not drip-proof)



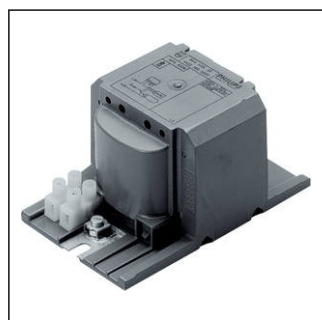
Dim. no.	A1 nom.	A2 nom.	A3 nom.	A4 nom.	B1 nom.	B2 nom.	C1 nom.	C3 nom.	D1 nom.
1	155.0	140.0	54.0	54.0	39.0	20.0	28.0	1.5	4.2
2	196.0	180.0	54.0	54.0	39.0	20.0	28.0	1.5	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
3	118.0	94.0	61.0	52.0	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BSX 18 L82	240	50	1	UNP / 32	32	BSX18L82	915580 30	36.08
BSX 35/55 L204	240	50	3	UNP / 6	6	BSX355L204	915177 30	30.15
BSX 35/55 L82	240	50	2	UNP / 24	24		920539 30	

HID-HeavyDuty BSX (SOX)



Product Description:

- Encapsulated electromagnetic copper/ iron ballasts for use with an external ignitor for SOX and SOX-E lamps

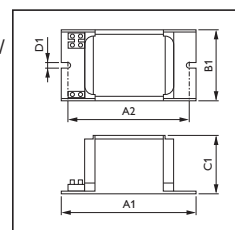
Features and Benefits:

- Outstanding product life (10 – 15 years)
- Excellent resistance to chemical attack, humid conditions and high environmental stress crack resistance
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped with screw terminal blocks

- Simple installation and cabling
- Ballasts for alternative mains voltages/ frequencies on request

Applications

- Ideal for the following applications:
 - Road lighting, railway marshalling yards and crossings, airports, harbors and docks, quarries, foundries and rolling mills
 - Security and orientation lighting
- Climatic suitability: use in luminaires or poles under normal humidity conditions (not drip-proof)



A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
118.0	103.0	65.0	53.0	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BSX 26 L32	240	50	UNP / 6	6	BSX26L32	920041 31	43.63
BSX 90 L32	240	50	UNP / 6	6	BSX90L32	915344 31	59.15

HID-Constant wattage BSX (SOX)



Product Description:

- Constant-wattage (potted) electromagnetic copper/iron ballasts for use with an external ignitor for SOX and SOX-E lamps

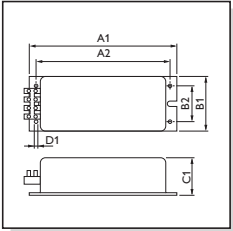
Features and Benefits:

- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Series capacitor required in circuits with constant-wattage ballasts

- Equipped with screw terminal blocks
- Simple installation and cabling

Applications:

- Ideal for the following applications:
 - Road lighting, railway marshalling yards and crossings, airports, harbors and docks, quarries, foundries and rolling mills
 - Security and orientation lighting
- Climatic suitability: restricted to built-situations where relative humidity is limited

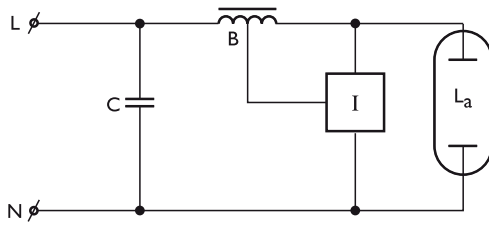


Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	149.0	135.0	80.0	42.0	67.0	4.2
2	178.0	162.0	100.0	42.0	74.0	4.2
3	178.0	162.0	100.0	42.0	78.0	4.2

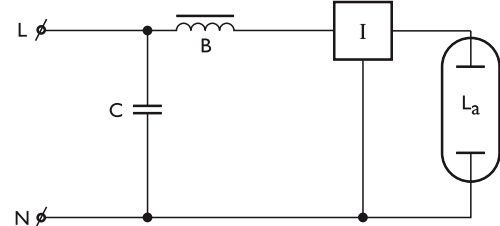
Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BSX 91 H96	220-240	50	1	1CT / 8	8	BSX91H96	920393 99	112.27
BSX 131 H96	220-240	50	2	1CT / 4	4	BSX131H96	919786 99	115.79
BSX 135 H96	220-240	50	1	1CT / 8	8	BSX135H96	920072 99	80.51
BSX 180 H96	220-240	50	3	1CT / 4	4		939005 99	

Wiring Diagram

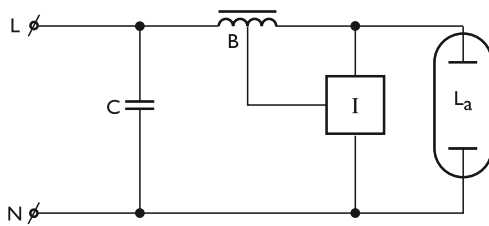
HID-Basic BSN/BMH semi parallel



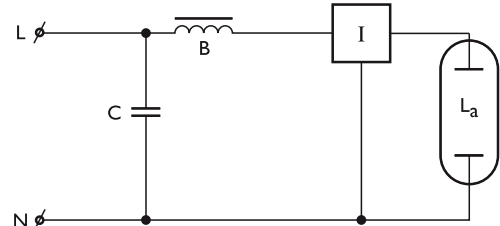
HID-Basic BSN/BMH series ignitor TS



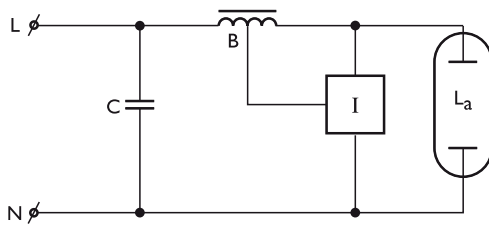
HID-Basic BSN/BMH series ignitor ITS



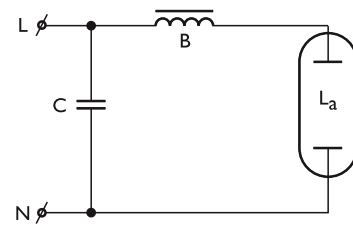
HID-Basic Multi-Wattages series ignitor



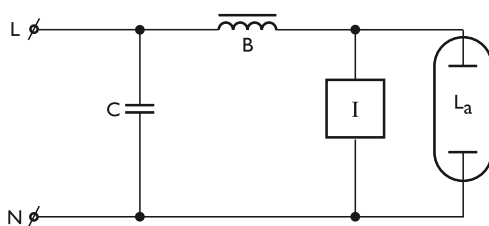
HID-HeavyDuty BSN semi-parallel ignitor



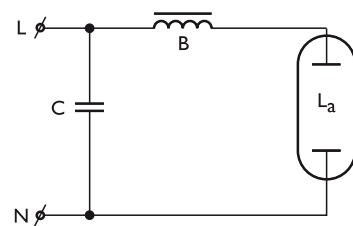
HID-Basic BHL



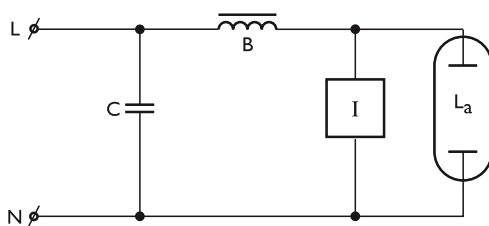
HID-Basic BHL 250 & 400



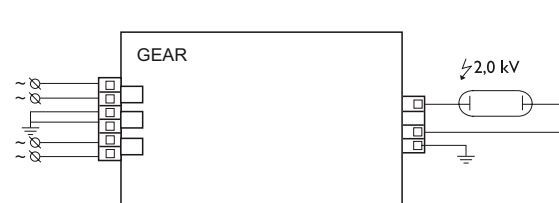
HID-HeavyDuty BHL



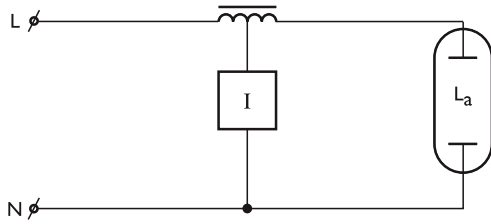
HID-HeavyDuty BHL 250 & 400



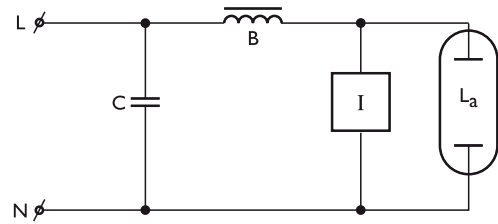
HID-PrimaVision mCDM 1x035 & 35 Independent



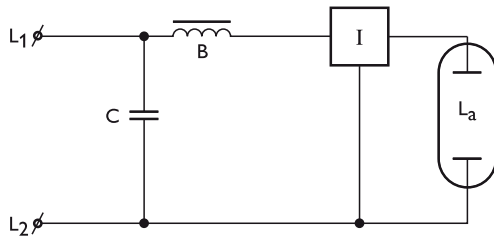
HID-HighPower BHL 1000 & 2000 L78



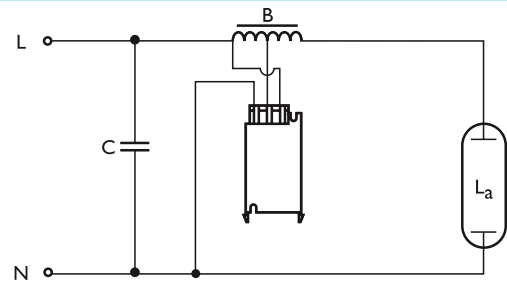
HID-HighPower BHL 2000 L50 & L76



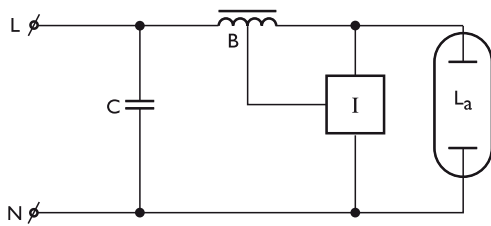
HID-HighPower BHD/BMH 2000 L76



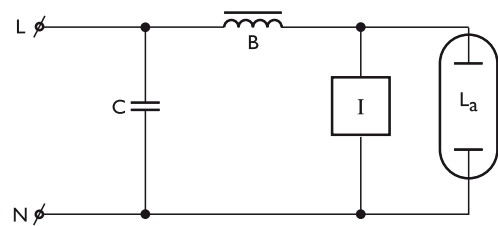
HID-HighPower BSN 1000



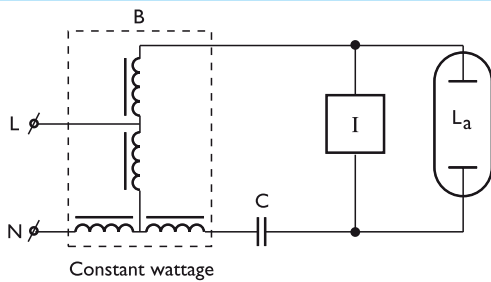
HID-HighPower BMH 1800



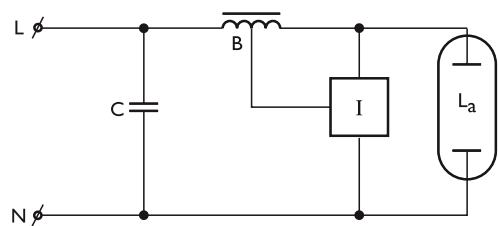
HID-Basic & HeavyDuty BSX



HID-Constant wattage BSX



HID-gear BHA



Ignitors HID ignitors



Product Description:

- Electronic ignitors for HID lamps

Features and Benefits:

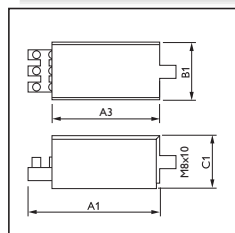
- Available in semi-parallel (Pulse), series (Superimposed pulse) and parallel versions
- Ignitors ensure reliable and smooth starting behaviour

- Ignitors equipped as standard with screw terminal blocks
- Digital ignitors for highest reliability
- All T5 and T15 types incorporate timer to switch off ignitor after 5 or 15 minutes with failing lamp to prevent cycling

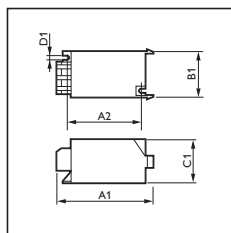
- Compact dimensions and light weight
- Simple screw or click-fit mounting, or stud-mounting for rapid assembly

Applications:

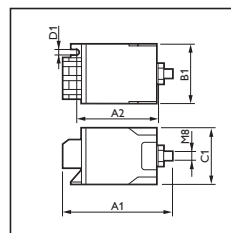
- Similar to those of the related lamps and ballasts



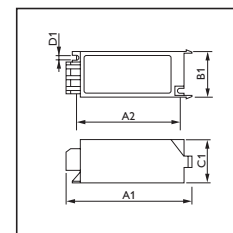
Dim. no.	A1	A3	B1	C1
1	nom.	nom.	nom.	nom.
2	78.0	62.0	36.0	32.0



Dim. no.	A1	A2	B1	C1	D1
3	84.5	65.0	41.0	38.0	4.3
4	84.5	65.0	41.5	38.5	4.3
5	85.5		41.5	38.5	



Dim. no.	A1	A2	B1	C1	D1
6	89.0	70.0	41.0	38.0	4.3
7	89.0	70.0	41.5	38.5	4.3

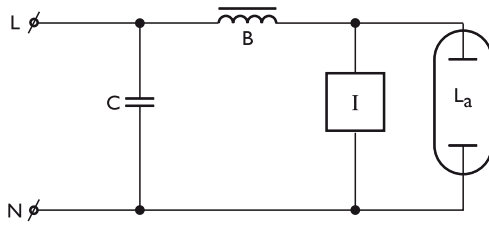


Dim. no.	A1	A2	B1	C1	D1
8	114.5	95.0	41.0	38.0	4.3

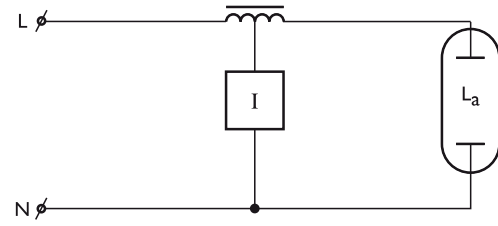
Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
SU 20-S	220-240	50/60	1	UNP / 30	30	SU20S	537874 30	
SI 51	220-240	50/60	3	UNP / 48	48	SI51	915535 30	77.61
SI 51-S	220-240	50/60	6	UNP / 20	20	SI51S	747495 30	77.61
SI 52	220-240	50/60	3	UNP / 48	48	SI52	915542 30	93.29
SI 54	360-415	50/60	8	UNP / 20	20	SI54	915481 30	98.88
SN 50	220-240	50/60	3	UNP / 48	48	SN50	915788 30	60.26
SN 57	220-240	50/60	3	UNP / 48	48	SN57	915559 30	60.26
SN 57-S	220-240	50/60	6	UNP / 20	20	SN57S	060525 30	60.26
SN 58	220-240	50/60	3	UNP / 48	48	SN58	915566 30	60.26
SN 58-S	220-240	50/60	6	UNP / 20	20	SN58S	741752 30	60.26
SN 59	220-240	50/60	8	UNP / 20	20	SN59	915573 30	97.90
SND 57	220-240	50/60	4	UNP / 48	48	SND57	930668 30	90.06
SND 57-S	220-240	50/60	7	UNP / 20	20	SND57S	930729 30	90.06
SND 58	220-240	50/60	4	UNP / 48	48	SND58	930682 30	90.06
SND 58-S	220-240	50/60	7	UNP / 20	20	SND58S	930705 30	90.06
SN 57T15	220-240	50/60	3	UNP / 48	48	SN57T15	744692 30	77.23
SN 57T15-S	220-240	50/60	6	UNP / 20	20	SN57T15S	745972 30	77.23
SN 57T5	220-240	50/60	3	UNP / 48	48	SN57T5	743152 30	77.23
SN 58T15	220-240	50/60	3	UNP / 48	48	SN58T15	743176 30	77.23
SN 58T15-S	220-240	50/60	6	UNP / 20	20	SN58T15S	745934 30	77.23
SN 58T5	220-240	50/60	3	UNP / 48	48	SN58T5	742995 30	77.23
SN 61	220-240	50/60	8	UNP / 20	20		916396 30	
SU 10-S	220-240	50/60	2	UNP / 30	30	SU10SN	537836 30	74.54
SU 40-S	220-240	50/60	2	UNP / 30	30	SU40S	537911 30	88.97
SUD 10-S	220-240	50/60	2	UNP / 30	30	SUD10S	931443 30	79.00
SUD 40-S	220-240	50/60	2	UNP / 30	30	SUD40S	930354 30	94.30
SX 131	220-240	50/60	5	UNP / 48	48	SX131	915894 30	50.78
SX 26	220-240	50/60	8	UNP / 20	20	SX26	915900 30	54.07
SX 70	220-240	50/60	8	UNP / 20	20	SX70	915498 30	54.07
SX 72	220-240	50/60	8	UNP / 20	20	SX72	915610 30	45.01
SX 73	220-240	50/60	5	UNP / 48	48	SX73	920058 30	48.90
SX 74	220-240	50/60	8	UNP / 20	20	SX74	915696 30	48.90
SX 76	220-240	50/60	8	UNP / 20	20	SX76	916402 30	45.55

Wiring Diagram

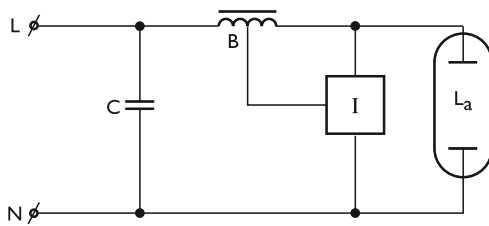
HID-Ignitors SI51, SI54, SX26 & SX72



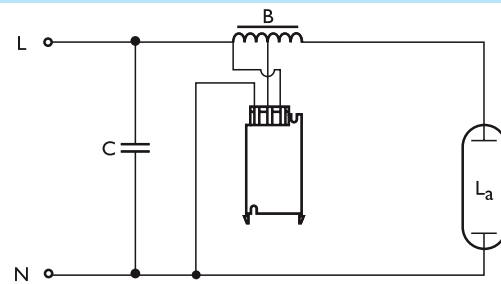
HID-Ignitors SI 52



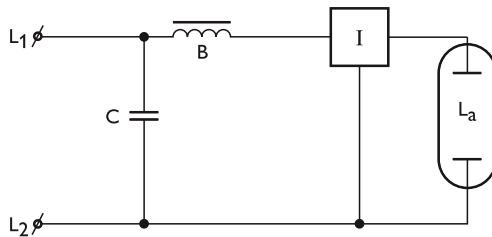
HID-Ignitors SN & SND



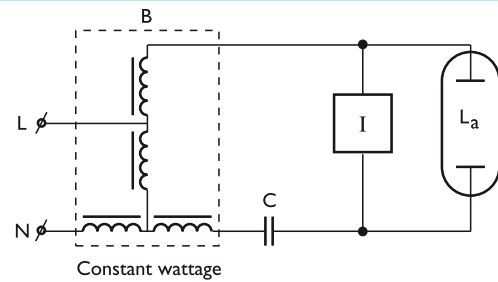
HID-Ignitors SN 61



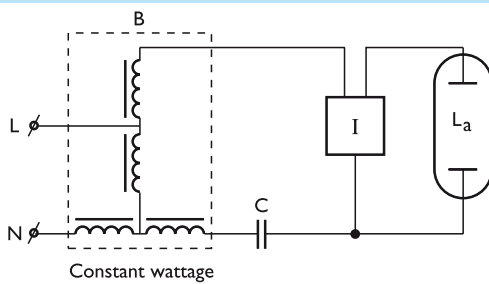
HID-Ignitors SU & SUD



HID-Ignitors SX 70, SX74 & SX76



HID-Ignitors SX 73 & SX131



Fluorescent

Fluorescent electronic

HF-REGULATOR II Touch and DALI for TL5 lamps



Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using DALI (Digital Addressable Lighting Interface) or Touch and Dim pushbutton protocol for TL5 fluorescent lamps

Features and Benefits

- Lamp power can be regulated from 1% to 100%

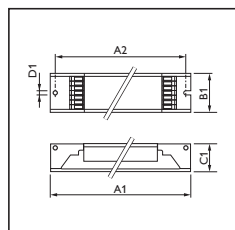
- Flat ballast design, 21 mm high
- Digital control input according to the industry-standard DALI (Digital Addressable Lighting Interface) combined with the Touch and Dim pushbutton protocol
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible up to 2 m)
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use
- Striation-free operation, no stroboscopic effects
- Lamp starts at 1% (DALI 1%..100% in 250 ms, from 100%..1% in 100ms)
- Automatic stop circuit is activated within 5 s in case of lamp failure (safety stop)
- Ballast resets automatically after lamp replacement
- Equipped with WAGO 251 connectors suitable for automatic wiring machines
- Up to 75% reduction in energy consumption by using automatic lighting control systems (e.g. Philips ActiLume luminaire-based system solutions)
- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency and where presence detection requires immediate start
- Low energy consumption in standby 0.35 W due to new EII technology
- Smart power ensures constant light, independent of mains voltage fluctuations

- EII-dim technology: a dedicated IC for independent control of each electrode:

- lamp life is unaffected by dimming level
- stable lamp burning at every dimming level
- maximum energy savings in dimmed operation

Applications

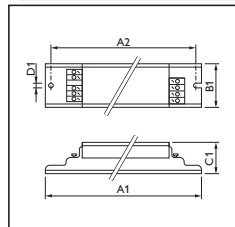
- Offices requiring simple, easy-to-install dimming or personal light level adjustment, e.g. with ActiLume
- DALI installations with daylight linking and/or movement detection (for energy savings)
- DALI installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	22	4.2
2	359	350	30	22	4.2
3	425	415	39	28	4.2
4	425	415	30	22	4.2
5	359	350	39	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-R TD 1 14-35 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD11435TL5II	911582 30	159.24
HF-R TD 124 TL5/PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD124TL5EII	914460 30	168.81
HF-R TD 139 TL5 EII	220-240	50/60	2	UNP / 12	12	HFRTD139TL5EII	914484 30	168.81
HF-R TD 149 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD149TL5II	908889 30	144.44
HF-R TD 154 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD154TL5II	909619 30	144.44
HF-R TD 180 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFRTD180TL5/PLL	909657 30	164.14
HF-R TD 2 14-35 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD21435TL5II	911629 30	180.97
HF-R TD 2 95-120 TL5 EII	220-240	50/60	3	UNP / 10	10	HFRTD295120TL5VH	914880 30	222.04
HF-R TD 224 TL5/PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD224TL5EII	914521 30	191.82
HF-R TD 249 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD249TL5II	909596 30	164.14
HF-R TD 254 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD254TL5II	909633 30	164.14
HF-R TD 280 TL5/PL-L EII	220-240	50/60	4	UNP / 12	12	HFRTD280TL5/PLL	910677 30	169.30
HF-R TD 314 TL5 EII	220-240	50/60	5	UNP / 10	10	HFRTD314TL5EII	913517 30	207.18
HF-R TD 414 TL5 EII	220-240	50/60	5	UNP / 10	10	HFRTD414TL5EII	913531 30	207.18

HF-REGULATOR DALI TL5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	359.0	350.0	30.0	28.0	4.2

Product Description

- Slim, lightweight High-Frequency electronic regulating ballast using DALI (Digital Addressable Lighting Interface) protocol for TL5 fluorescent lamps

Features and Benefits

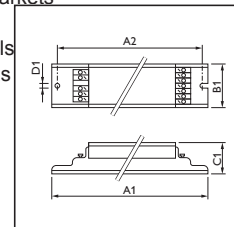
- Lamp power can be regulated down to 3%
- Striation-free operation
- Digital Addressable Lighting Interface control input (DALI protocol)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming position
 - lamp burning is stable in every dimming position
 - maximized energy savings when using dimming

Applications

- DALI installations with daylight linking and/or movement detection (energy saving)

- DALI installations with remote control systems (comfort)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Single or open-plan offices
- Conference rooms
- Corridors
- Department stores, shops, supermarkets
- Hotels
- Hospitals
- Cinemas



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
2	425.0	415.0	30.0	28.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-R DALI 124 TL5	220-240	50/60	28	1	UNP / 12	12	HFRDALI124TL5	537713 30	159.24
HF-R DALI 139 TL5	220-240	50/60	28	1	UNP / 12	12	HFRDALI139TL5	537676 30	159.24
HF-R DALI 224 TL5	220-240	50/60	28	2	UNP / 12	12	HFRDALI224TL5	744876 30	180.97
HF-R DALI 239 TL5	220-240	50/60	12	2	UNP / 12	12	HFRDALI239TL5	744913 30	180.97
HF-R DALI 249 TL5	220-240	50/60	12	2	UNP / 12	12	HFRDALI249TL5	745750 30	

HF-REGULATOR II Touch and DALI for TL-D lamps



Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using DALI (Digital Addressable Lighting Interface) or Touch and Dim pushbutton protocol for TL-D fluorescent lamps

Features and Benefits

- Lamp power can be regulated from 1% to 100%

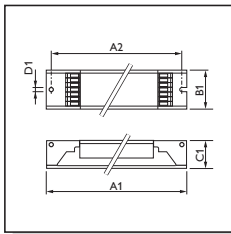
- Flat ballast design, 21 mm high
- Digital control input according to the industry-standard DALI (Digital Addressable Lighting Interface) combined with the Touch and Dim pushbutton protocol
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible up to 2 m)
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use
- Striation-free operation, no stroboscopic effects
- Lamp starts at 1% (DALI 1%..100% in 250 ms, from 100%..1% in 100ms)
- Automatic stop circuit is activated within 5 s in case of lamp failure (safety stop)
- Ballast resets automatically after lamp replacement
- Equipped with WAGO 251 connectors suitable for automatic wiring machines
- Up to 75% reduction in energy consumption by using automatic lighting control systems (e.g. Philips ActiLume luminaire-based system solutions)
- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency and where presence detection requires immediate start
- Low energy consumption in standby 0.35 W due to new EII technology
- Smart power ensures constant light, independent of mains voltage fluctuations

- EII-dim technology: a dedicated IC for independent control of each electrode:
 - lamp life is unaffected by dimming level
 - stable lamp burning at every dimming level
 - maximum energy savings in dimmed operation

Applications

- Offices requiring simple, easy-to-install dimming or personal light level adjustment, e.g. with ActiLume
- DALI installations with daylight linking and/or movement detection (for energy savings)
- DALI installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22





Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	22	4.2
2	359	350	39	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R TD 118 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD118TLDEII	911728 30	141.86
HF-R TD 136 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD136TLDII	909671 30	128.67
HF-R TD 158 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD158TLDII	909718 30	128.67
HF-R TD 218 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD218TLDEII	911742 30	166.49
HF-R TD 236 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD236TLDII	909695 30	151.01
HF-R TD 258 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD258TLDII	909732 30	151.01
HF-R TD 418 TL-D EII	220-240	50/60	2	UNP / 10	10	HFRTD418TLDEII	913586 30	207.18

HF-REGULATOR DALI TL-D/PL-L



Product Description

- Slim, lightweight High-Frequency electronic regulating ballast using DALI (Digital Addressable Lighting Interface) protocol for TL-D (Krypton) fluorescent and PL-L compact fluorescent lamps

Features and Benefits:

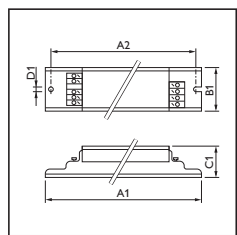
- Lamp power can be regulated down to 3%
- Striation-free operation
- Digital Addressable Lighting Interface control input (DALI protocol)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

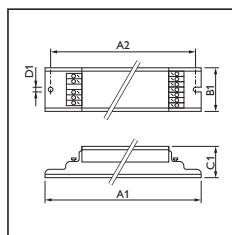
Applications

- DALI installations with daylight linking and/or movement detection (energy saving)

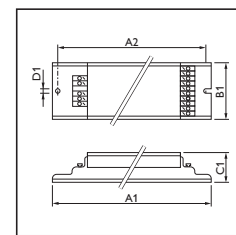
- DALI installations with remote control systems (comfort)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Single or open-plan offices
- Conference rooms
- Corridors
- Department stores, shops, supermarkets
- Hotels
- Hospitals
- Cinemas



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	359.0	350.0	30.0	28.0	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
2	425.0	415.0	30.0	28.0	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
3	425.0	415.0	39.0	28.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-R DALI 140 PL-L	220-240	50/60	12	1	UNP / 12	12	HFRDALI140PLL	538314 30	141.86
HF-R DALI 240 PL-L	220-240	50/60	12	2	UNP / 12	12	HFRDALI240PLL	746702 30	166.49
HF-R DALI 3/418 TL-D	220-240	50/60	12	3	UNP / 10	10	HFRDALI3/418TLD	747419 30	195.44

HF-REGULATOR II Touch and DALI for PL-T, PL-C and PL-R lamps



Product Description

- Flat, lightweight high-frequency electronic regulating control gear, using DALI (Digital Addressable Lighting Interface) or Touch and Dim push button protocol, for PL-T/C/R fluorescent lamps. The HF-REGULATORII ballasts incorporate the new Philips EII technology offering full digital input (mains) and output (lamp) management.

Features and Benefits

- The lamp power can be regulated from 100 to 1%. *
- Up to 75% reduction in energy consumption can be achieved by using automatic lighting control systems (e.g. Philips ActiLume).
- Quick programmed start: 0.5 sec, flicker-free warm start, preheating the lamp electrodes. This enables the lamps to be switched on and off without reducing useful life. Ideal for high switching frequency.
- Digital control input according to the industry standard DALI (Digital Addressable Lighting Interface) combined with the Touch and Dim push button protocol.
- Low energy consumption in standby 0.35W
- Smart power: constant light, independent of mains fluctuations.
- Unit is protected against excessive mains voltages, incorrect connections and incorrect lamp use.
- Striation-free operation, no stroboscopic effects.
- Lamp starts at 10% (DALI 1..100% in 100 ms)
- Automatic stop circuit is activated within five seconds in case of lamp failure (safety stop). Once the lamp has been replaced, the ballast resets automatically.
- Philips HF-REGULATOR II gear is equipped with Extended Cable Flexibility (ECF) Technology. ECF Technology is based on a dedicated integrated circuit that ensures independent control of lamps, and in doing so takes care that:
 - In case of long or asymmetrical wiring (e.g. with emergency units or bundled wiring) deep and stable dimming is guaranteed (possible consequences for electromagnetic interference and compatibility EMI/EMC to be checked)

- Systems always remain operational in extreme conditions (e.g. low temperatures, lamp impurities at burning-in) in combination with the integrated anti extinguish control
- Lamp life is unaffected by dimming position whilst energy savings are maximized

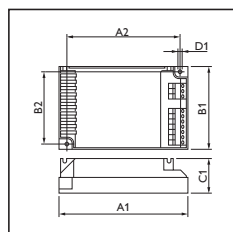
* HFR TD for PL-R dims to 3%

Applications

Typical areas of application include:

- DALI installations with daylight linking and/or movement detection
- DALI installations with remote control systems
- Installations with emergency back-up, according to IEC 60598-2-22

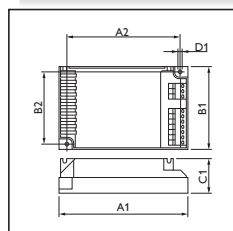




A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
123	111	79	33	4.5

Type	Line Voltage	Line Frequency	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)					
HF-R TD 1 14-17 PL-R EII	220-240	50/60	UNP / 12	12	HFRD11417PLREI	913494 30	141.86
HF-R TD 1 26-42 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRD12642PLTCE	913401 30	141.86
HF-R TD 118 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRD118PLTCEII	913449 30	141.86
HF-R TD 2 14-17 PL-R EII	220-240	50/60	UNP / 12	12	HFRD21417PLREI	913463 30	166.49
HF-R TD 2 26-42 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRD22642PLTCE	913371 30	166.49
HF-R TD 218 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRD218PLTCEII	913425 30	166.49

HF-REGULATOR DALI PL-T/C



Dim. no.	A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.
1	123.0	111.0	79.0	67.0	33.0	4.5

Product Description:

- Compact, lightweight High-Frequency electronic regulating ballast using DALI (Digital Addressable Lighting Interface) protocol for PL-T and PL-C compact fluorescent lamps

Features and Benefits:

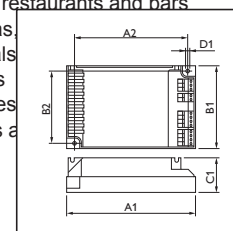
- Lamp power can be regulated down to 3%
- Striation-free operation
- Digital Addressable Lighting Interface control input (DALI protocol)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency (movement detection applications)
- Frequent lamp switching does not reduce useful life

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Smart power: constant light independent of mains voltage fluctuations
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

Applications:

- DALI installations with daylight linking and/or movement detection (energy saving)
- DALI installations with remote control systems (personal scene setting)

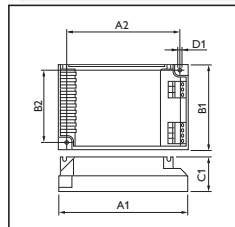
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Cellular, open plan offices, corridors and lobbies
- Conference rooms and lecture theatres
- Department stores, shops, supermarkets and malls
- Hotels, restaurants and bars
- Cinemas
- Hospitals
- Schools
- Factories
- Airports and



Dim. no.	A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.
2	123.0	111.0	79.0	67.0	33.0	4.5

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-R DALI 118 PL-T/C	220-240	50/60	28	1	UNP / 12	12	HFRDALI118PLTC	929808 30	135.10
HF-R DALI 126 PL-T/C	220-240	50/60	28	1	UNP / 12	12	HFRDALI126PLTC	929822 30	141.86
HF-R DALI 132 PL-T	220-240	50/60	28	1	UNP / 12	12	HFRDALI132PLT	929846 30	135.10
HF-R DALI 142 PL-T	220-240	50/60	28	1	UNP / 12	12	HFRDALI142PLT	929860 30	141.86
HF-R DALI 218 PL-T/C	220-240	50/60	28	2	UNP / 12	12	HFRDALI218PLTC	929884 30	166.49
HF-R DALI 226 PL-T/C	220-240	50/60	28	2	UNP / 12	12	HFRDALI226PLTC	929907 30	166.49
HF-R DALI 232 PL-T	220-240	50/60	12	2	UNP / 12	12	HFRDALI232PLT	929921 30	166.49
HF-R DALI 242 PL-T	220-240	50/60	12	2	UNP / 12	12	HFRDALI242PLT	929945 30	158.56

HF-REGULATOR Touch&Dim/DALI TL5 Circular



A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
123.0	111.0	79.0	67.0	33.0	4.5

Product Description

- Compact, lightweight High-Frequency electronic regulating ballast using DALI (Digital Addressable Lighting Interface) protocol for TL5C fluorescent lamps

Features and Benefits

- Lamp power can be regulated down to 3%
- Striation-free operation
- Digital Addressable Lighting Interface control input (DALI protocol)
- Programmed, flicker-free warm start (0.5s) by preheating the lamp electrodes; ideal for areas with high switching frequency
- Frequent lamp switching does not reduce useful life

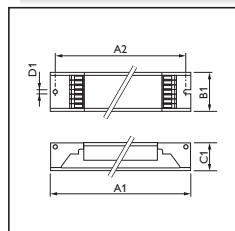
- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Smart power: constant light independent of mains voltage fluctuations
- Low energy consumption
- Unit is protected against excessive mains voltages and incorrect connections
- Automatic safety stop activated within 5 s of lamp failure; automatic reset after lamp replacement
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

Applications

- DALI installations with daylight linking and/or movement detection (energy saving)
- DALI installations with remote control systems (energy saving and scene setting)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Single or open-plan offices
- Conference rooms and lecture theatres
- Corridors, lobbies
- Department stores and shops
- Hotels, restaurants and bars
- Cinemas, museums

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Packing type/ Packing configuration	Packs per outer box	Ordering number 8711500...
	(V)	(Hz)	(x)			
HF-R DALI 140 TL5C	220-240	50/60	28	UNP / 12	12	934512 30
HF-R DALI 160 TL5C	220-240	50/60	12	UNP / 12	12	934475 30

HF-REGULATOR II for TL5 lamps



Dim. no.	A1	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	nom.
1	360	350	30	22	4.2
2	359	350	30	22	4.2
3	425	415	30	22	4.2
4	359	350	39	22	4.2

Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using 1-10V protocol for TL5 fluorescent lamps

Features and Benefits

- Lamp power can be regulated from 1% to 100%
- Flat ballast design, 21 mm high
- Analog control input according to the 1-10V industry standard
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible up to 2 m)
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use
- Striation-free operation, no stroboscopic effects

- Automatic stop circuit is activated within 5 s in case of lamp failure (safety stop)
- Ballast resets automatically after lamp replacement
- Equipped with WAGO 251 connectors suitable for automatic wiring machines
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables the lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency
- Smart power ensures constant light, independent of mains voltage fluctuations

- EII-dim technology: a dedicated IC for independent control of each electrode:
 - lamp life is unaffected by dimming level
 - stable lamp burning at every dimming level
 - maximum energy savings in dimmed operation

Applications

- 1-10V installations with daylight linking and/or movement detection (for energy savings)
- 1-10V installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)						
HF-R 1 14-35 TL5 EII	220-240	50/60	1	UNP / 12	12	HFR11435TL5EII	911803 30	108.57
HF-R 124 TL5/PL-L EII	220-240	50/60	2	UNP / 12	12	HFR124TL5EII	914668 30	115.09
HF-R 139 TL5 EII	220-240	50/60	2	UNP / 12	12	HFR139TL5EII	914682 30	115.09
HF-R 149 TL5 EII	220-240	50/60	1	UNP / 12	12	HFR149TL5II	909985 30	98.48
HF-R 154 TL5 EII	220-240	50/60	1	UNP / 12	12	HFR154TL5II	910059 30	98.48
HF-R 180 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFR180TL5/PLL	910110 30	98.48
HF-R 2 14-35 TL5 EII	220-240	50/60	1	UNP / 12	12	HFR21435TL5EII	911780 30	115.82
HF-R 224 TL5/PL-L EII	220-240	50/60	2	UNP / 12	12	HFR224TL5EII	914729 30	122.77
HF-R 249 TL5 EII	220-240	50/60	1	UNP / 12	12	HFR249TL5II	910035 30	105.05

More data see next page

(continued)

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)						
HF-R 254 TL5 EII	220-240	50/60	1	UNP / 12	12	HFR254TL5II	910080 30	105.05
HF-R 280 TL5/PL-L EII	220-240	50/60	3	UNP / 12	12	HFR280TL5/PLL	910653 30	110.21
HF-R 314 TL5 EII	220-240	50/60	4	UNP / 10	10	HFR314TL5EII	913685 30	191.82
HF-R 324 TL5/PL-L EII	220-240	50/60	4	UNP / 10	10	HFR324TL5EII	913708 30	191.82
HF-R 414 TL5 EII	220-240	50/60	4	UNP / 10	10	HFR414TL5EII	913647 30	191.82
HF-R 424 TL5/PL-L EII	220-240	50/60	4	UNP / 10	10	HFR424TL5EII	913746 30	191.82

1-10V

HF-REGULATOR TL5



Product Description

- Slim, lightweight High-Frequency electronic regulating ballast for TL5 fluorescent lamps

Features and Benefits:

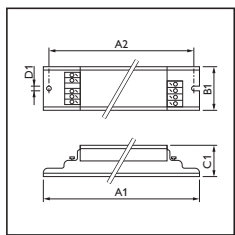
- Lamp power can be regulated down to 3%
- Striation-free operation
- 1-10V control input (European standard)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency
- Programmed start: flicker-free, warm-start circuit

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Dedicated α -control circuit controls each electrode independently, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximised when using dimming

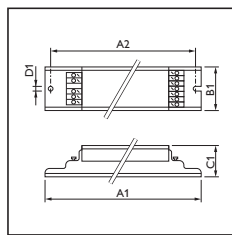
Applications

- 1 - 10V installations with daylight linking and/or movement detection (energy saving)

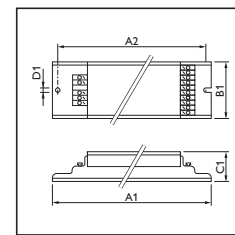
- 1 - 10V installations with remote control systems (comfort)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Corridors
- Department stores, shops, supermarkets
- Hotels
- Hospitals
- Cinemas



Dim. no.	A1	A2	B1	C1	D1
1	359.0	350.0	30.0	28.0	4.2



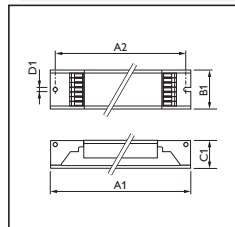
Dim. no.	A1	A2	B1	C1	D1
2	425.0	415.0	30.0	28.0	4.2



Dim. no.	A1	A2	B1	C1	D1
3	425.0	415.0	39.0	28.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-R 121 TL5	220-240	50/60	28	1	UNP / 12	12	HFR121TL5	060068 30	108.57
HF-R 139 TL5	220-240	50/60	28	1	UNP / 12	12	HFR139TL5	060105 30	108.57
HF-R 221 TL5	220-240	50/60	28	2	UNP / 12	12	HFR221TL5	744722 30	115.82
HF-R 239 TL5	220-240	50/60	12	2	UNP / 12	12	HFR239TL5	744890 30	115.82
HF-R 3/414 TL5	220-240	50/60	18	3	UNP / 10	10	HFR3414TL5	747433 30	180.97

HF-REGULATOR II for TL-D lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	22	4.2
2	359	350	39	22	4.2

Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using 1-10V protocol for TL-D fluorescent lamps

Features and Benefits

- Lamp power can be regulated from 1% to 100%
- Flat ballast design, 21 mm high
- Analog control input according to the 1-10V industry standard
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible up to 2 m)
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use
- Striation-free operation, no stroboscopic effects
- Automatic stop circuit is activated within 5 s in case of lamp failure (safety stop)
- Ballast resets automatically after lamp replacement
- Equipped with WAGO 251 connectors suitable for automatic wiring machines
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables the lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency
- Smart power ensures constant light, independent of mains voltage fluctuations

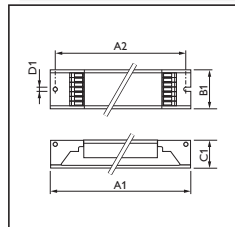
- EII-dim technology: a dedicated IC for independent control of each electrode:
 - lamp life is unaffected by dimming level
 - stable lamp burning at every dimming level
 - maximum energy savings in dimmed operation

Applications

- 1-10V installations with daylight linking and/or movement detection (for energy savings)
- 1-10V installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R 118 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR118TLDEII	911902 30	108.57
HF-R 136 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR136TLDII	910134 30	98.48
HF-R 158 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR158TLDII	910172 30	98.48
HF-R 218 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR218TLDEII	911926 30	108.57
HF-R 236 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR236TLDII	910158 30	105.05
HF-R 258 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR258TLDII	910196 30	105.05
HF-R 318 TL-D EII	220-240	50/60	2	UNP / 10	10	HFR318TLDEII	913760 30	161.13
HF-R 418 TL-D EII	220-240	50/60	2	UNP / 10	10	HFR418TLDEII	913661 30	161.13

HF-REGULATOR II for PL-L lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	359	350	30	22	4.2
2	360	350	30	22	4.2
3	425	415	30	22	4.2
4	359	350	39	22	4.2

Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using 1-10V protocol for PL-L fluorescent lamps

Features and Benefits

- Lamp power can be regulated from 1% to 100%
- Flat ballast design, 21 mm high
- Analog control input according to the 1-10V industry standard
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible up to 2 m)
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use
- Striation-free operation, no stroboscopic effects
- Automatic stop circuit is activated within 5 s in case of lamp failure (safety stop)
- Ballast resets automatically after lamp replacement
- Equipped with WAGO 251 connectors suitable for automatic wiring machines
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables the lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency
- Smart power ensures constant light, independent of mains voltage fluctuations

- EII-dim technology: a dedicated IC for independent control of each electrode:
 - lamp life is unaffected by dimming level
 - stable lamp burning at every dimming level
 - maximum energy savings in dimmed operation

Applications

- 1-10V installations with daylight linking and/or movement detection (for energy savings)
- 1-10V installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R 124 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFR124TL5EII	914668 30	115.09
HF-R 136 PL-L EII	220-240	50/60	2	UNP / 12	12	HFR136PLLEII	911827 30	108.57

More data see next page

(continued)

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)						
HF-R 140 PL-L EII	220-240	50/60	1	UNP / 12	12	HFR140PLLEII	914705 30	115.09
HF-R 155 PL-L EII	220-240	50/60	2	UNP / 12	12	HFR155PLLEII	911865 30	108.57
HF-R 180 TL5/PL-L EII	220-240	50/60	2	UNP / 12	12	HFR180TL5/PLL	910110 30	98.48
HF-R 224 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFR224TL5EII	914729 30	122.77
HF-R 236 PL-L EII	220-240	50/60	2	UNP / 12	12	HFR236PLLEII	911841 30	115.82
HF-R 240 PL-L EII	220-240	50/60	1	UNP / 12	12	HFR240PLLEII	914606 30	122.77
HF-R 255 PL-L EII	220-240	50/60	2	UNP / 12	12	HFR255PLLEII	911889 30	115.82
HF-R 280 TL5/PL-L EII	220-240	50/60	3	UNP / 12	12	HFR280TL5/PLL	910653 30	110.21
HF-R 324 TL5/PL-L EII	220-240	50/60	4	UNP / 10	10	HFR324TL5EII	913708 30	191.82
HF-R 424 TL5/PL-L EII	220-240	50/60	4	UNP / 10	10	HFR424TL5EII	913746 30	191.82

1-10V

HF-REGULATOR TL-D/PL-L



Product Description

- Compact, lightweight High-Frequency electronic regulating ballast for TL-D (Krypton) fluorescent and PL-L compact fluorescent lamps

Features and Benefits:

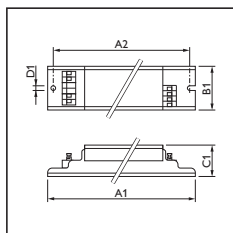
- Lamp power can be regulated down to 3%
- Striation-free operation
- 1-10V control input (European standard)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency
- 50% longer lamp life than with conventional ballasts

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximised when using dimming

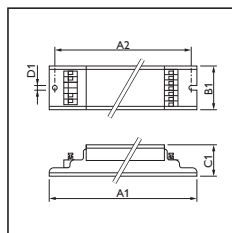
Applications

- 1-10V installations with daylight linking and/or movement detection (energy saving)

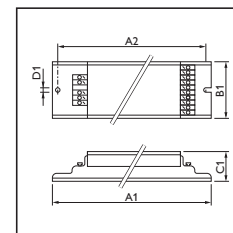
- 1-10V installations with remote control systems (comfort)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Corridors
- Department stores, shops, supermarkets
- Hotels
- Hospitals
- Cinemas



Dim. no.	A1	A2	B1	C1	D1
1	335.0	325.0	39.0	28.0	4.2



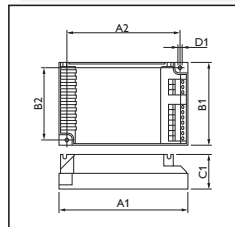
Dim. no.	A1	A2	B1	C1	D1
2	425.0	415.0	39.0	28.0	4.2



Dim. no.	A1	A2	B1	C1	D1
3	425.0	415.0	39.0	28.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-R 118 TL-D	220-240	50/60	28	1	UNP / 10	10	HFR118TLTD	739681 30	
HF-R 136 PL-L	220-240	50/60	28	1	UNP / 10	10	HFR136PLL	737960 30	
HF-R 140 PL-L	220-240	50/60	28	1	UNP / 10	10	HFR140PLL	737922 30	108.57
HF-R 155 PL-L	220-240	50/60	28	1	UNP / 10	10	HFR155PLL	737946 30	108.57
HF-R 218 TL-D	220-240	50/60	28	2	UNP / 10	10	HFR218TLTD	740045 30	108.57
HF-R 236 PL-L	220-240	50/60	28	2	UNP / 10	10	HFR236PLL	738752 30	
HF-R 240 PL-L	220-240	50/60	12	2	UNP / 10	10	HFR240PLL	738738 30	115.82
HF-R 255 PL-L	220-240	50/60	12	2	UNP / 10	10	HFR255PLL	738776 30	
HF-Regulator 3/418 TL-D	220-240	50/60	12	3	UNP / 10	10	HFR3418TLTD	747457 30	152.01

HF-REGULATOR PL-T/C



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	123.0	111.0	79.0	67.0	33.0	4.5

Product Description:

- Compact, lightweight High-Frequency electronic regulating ballast for PL-T and PL-C compact fluorescent lamps

Features and Benefits:

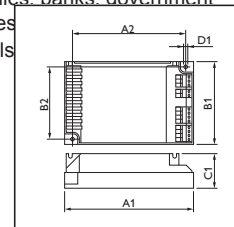
- Lamp power can be regulated down to 3%
- Stable lamp operation
- 1-10V control input (European standard)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency
- Up to 50% longer lamp life than with conventional ballasts

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

Applications:

- 1 - 10V installations with daylight linking and/or movement detection (energy saving)
- 1 - 10V installations with remote control systems (comfort)

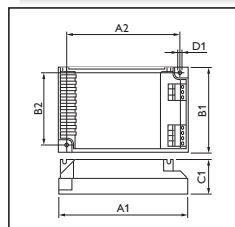
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Installations with daylight-linked and remote control systems
- Installations with infrared remote control systems
- Conference rooms
- Cinemas
- Department stores, shops, supermarkets
- Office buildings: insurance companies, banks, government ministries
- Hospitals
- Hotels



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	123.0	111.0	79.0	67.0	33.0	4.5
3	158.0	146.0	102.0	90.0	37.8	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (£)
HF-R 1 26-42 PL-T/C EII	220-240	50/60	28	1	UNP / 12	12	HFR126-42PLCT	8727900 809718 00	28.35
HF-R 118 PL-T/C	220-240	50/60	28	1	UNP / 12	12	HFR118PLCT	8711500 908674 30	108.57
HF-R 2 26-42 PL-T/C EII	220-240	50/60	12	2	UNP / 12	12	HFR226-42PLCT	8727900 809725 00	32.55
HF-R 218 PL-T/C	220-240	50/60	28	2	UNP / 12	12	HFR218PLCT	8711500 908698 30	115.82
HF-R 226 PL-T/C	220-240	50/60	28	3	UNP / 24	24	HFR226PLCTOLD	8711500 058881 30	

HF-REGULATOR TL5 Circular



A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
103.0	93.5	67.0	57.5	30.0	4.5

Product Description

- Compact, lightweight High-Frequency electronic regulating ballast for TL5C fluorescent lamps

Features and Benefits:

- Lamp power can be regulated down to 3%
- Striation-free operation
- 1-10V control input (European standard)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency
- Up to 50% longer lamp life than with conventional ballasts

- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

Applications

- Installations with daylight linking and/or movement detection (energy saving)

- Installations with remote control systems (energy saving and scene setting)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Office buildings: insurance companies, banks, government ministries
- Single or open-plan offices
- Conference rooms and lecture theatres
- Corridors and lobbies
- Department stores and shops
- Hotels, restaurants and bars
- Cinemas and museums

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R 122 TL5C	220-240	50/60	28	UNP / 12	12	HFR122TL5C	058867 30	152.01
HF-R 140 TL5C	220-240	50/60	28	UNP / 12	12	HFR140TL5C	058928 30	152.01

HF-REGULATOR Touch and Dim TL-D and TL5



Product Description

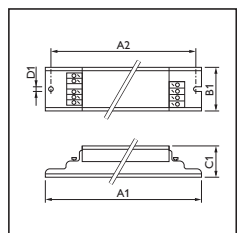
- Lightweight High-Frequency electronic regulating ballast using digital HF-REGULATOR 'Touch and Dim' protocol, for TL5, TL-D and TL5C fluorescent lamps

Features and Benefits

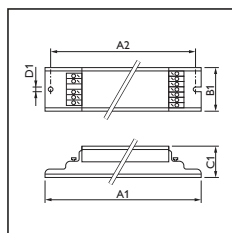
- Easy personal control: create your personal lighting level at the touch of a button
- Simple installation. No control device required, ballast works with any standard retractive / push-to-make switch
- Short button push for On/Off command; personal light level preference can be stored by a firm, longer push
- Failure-proof (non-volatile) memory; ballast always remembers your setting when switched on or in case of power failure
- Presets can be selected and adjusted between 3% and 100% light output by a long push
- Quick programmed soft-start (0.5 s), fades to default (100%) or preset level
- Striation-free operation
- System reset / alignment by long push (>10s); adjusts light to 35%
- Smart power: constant light independent of mains voltage fluctuations
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

Applications

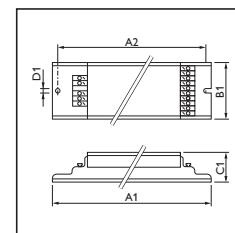
- Office applications requiring a simple, easy-to-install dimming system or personal light level adjustment
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Cellular offices with floor-standing luminaires
- Open plan offices (up to 32 luminaires)
- Small conference rooms and lecture theatres
- Hotels and restaurants
- Hospitals, medical consulting rooms
- Schools



Dim. no.	A1	A2	B1	C1	D1
1	359.0	350.0	30.0	28.0	4.5



Dim. no.	A1	A2	B1	C1	D1
2	425.0	415.0	30.0	28.0	4.5



Dim. no.	A1	A2	B1	C1	D1
3	425.0	415.0	39.0	28.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R T 135 TL5	220-240	50/60	28	1	UNP / 12	12	HFRT135TL5	929280 30	
HF-R T 136 TL-D	220-240	50/60	28	1	UNP / 12	12	HFRT136TLD	929389 30	
HF-R T 139 TL5	220-240	50/60	28	1	UNP / 12	12	HFRT139TL5	929303 30	108.57
HF-R T 158 TL-D	220-240	50/60	28	1	UNP / 12	12	HFRT158TLD	929402 30	
HF-R T 236 TL-D	220-240	50/60	28	2	UNP / 12	12	HFRT236TLD	929709 30	
HF-R T 239 TL5	220-240	50/60	12	2	UNP / 12	12	HFRT239TL5	929747 30	115.82
HF-R T 258 TL-D	220-240	50/60	12	2	UNP / 12	12	HFRT258TLD	929662 30	
HF-R T 3/418 TL-D	220-240	50/60	12	3	UNP / 10	10	HFRT3/418TLD	929501 30	152.01
HF-R T 414 TL5	220-240	50/60	28	3	UNP / 10	10	HFRT414TL5	931689 30	152.01



HF-REGULATOR II Touch and DALI for PL-L lamps



Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using DALI (Digital Addressable Lighting Interface) or Touch and Dim pushbutton protocol for PL-L fluorescent lamps

Features and Benefits

- Lamp power can be regulated from 1% to 100%

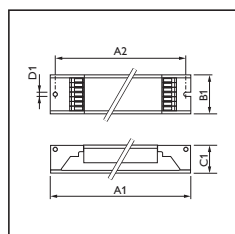
- Flat ballast design, 21 mm high
- Digital control input according to the industry-standard DALI (Digital Addressable Lighting Interface) combined with the Touch and Dim pushbutton protocol
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible up to 2 m)
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use
- Striation-free operation, no stroboscopic effects
- Lamp starts at 1% (DALI 1%..100% in 250 ms, from 100%..1% in 100ms)
- Automatic stop circuit is activated within 5 s in case of lamp failure (safety stop)
- Ballast resets automatically after lamp replacement
- Equipped with WAGO 251 connectors suitable for automatic wiring machines
- Up to 75% reduction in energy consumption by using automatic lighting control systems (e.g. Philips ActiLume luminaire-based system solutions)
- Quick programmed start: 0.5 s, flicker-free warm start by preheating the lamp electrodes enables lamps to be switched on and off without reducing useful life. Ideal for areas with a high switching frequency and where presence detection requires immediate start
- Low energy consumption in standby 0.35 W due to new EII technology
- Smart power ensures constant light, independent of mains voltage fluctuations

- EII-dim technology: a dedicated IC for independent control of each electrode:

- lamp life is unaffected by dimming level
- stable lamp burning at every dimming level
- maximum energy savings in dimmed operation

Applications

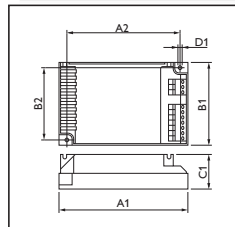
- Offices requiring simple, easy-to-install dimming or personal light level adjustment, e.g. with ActiLume
- DALI installations with daylight linking and/or movement detection (for energy savings)
- DALI installations with remote control systems (combining energy savings with comfort)
- Installations with emergency back-up, according to IEC 60598-2-22



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	359	350	30	22	4.2
2	360	350	30	22	4.2
3	425	415	30	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-R TD 124 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFRTD124TL5EII	914460 30	168.81
HF-R TD 136 PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD136PLLEII	911643 30	141.86
HF-R TD 140 PL-L EII	220-240	50/60	1	UNP / 12	12	HFRTD140PLLEII	914507 30	150.37
HF-R TD 155 PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD155PLLEII	911681 30	141.86
HF-R TD 180 TL5/PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD180TL5/PLL	909657 30	164.14
HF-R TD 224 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFRTD224TL5EII	914521 30	191.82
HF-R TD 236 PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD236PLLEII	911667 30	166.49
HF-R TD 240 PL-L EII	220-240	50/60	1	UNP / 12	12	HFRTD240PLLEII	914583 30	176.47
HF-R TD 255 PL-L EII	220-240	50/60	2	UNP / 12	12	HFRTD255PLLEII	911704 30	166.49
HF-R TD 280 TL5/PL-L EII	220-240	50/60	3	UNP / 12	12	HFRTD280TL5/PLL	910677 30	169.30

HF-REGULATOR Touch and Dim PL-L, PL-T and PL-C



Dim. no.	A1	A2	B1	B2	C1	D1
1	123.0	111.0	79.0	67.0	33.0	4.5

Product Description

- Compact, lightweight High-Frequency electronic regulating ballast using digital HF-REGULATOR 'Touch and Dim' protocol, for PL-T, PL-C and PL-L compact fluorescent lamps

Features and Benefits

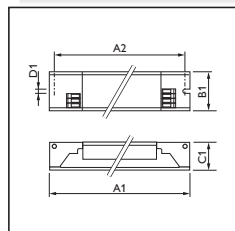
- Easy personal control: create your personal lighting level at the touch of a button
- Simple installation. No control device required, ballast works with any standard retractable / push-to-make switch
- Short button push for On/Off command; personal light level preference can be stored by a firm, longer push
- Failure-proof (non-volatile) memory; ballast always remembers your setting when switched on or in case of power failure
- Presets can be selected and adjusted between 3% and 100% light output by a long push
- Quick programmed soft-start (0.5 s), fades to default (100%) or preset level
- Striation-free operation
- System reset / alignment by long push (>10s); adjusts light to 35%
- Smart power: constant light independent of mains voltage fluctuations
- Dedicated α -control circuit for independent control of each electrode, ensuring that:
 - lamp life is unaffected by dimming setting
 - lamp burning is stable at all dimming settings
 - energy savings are maximized when using dimming

Applications

- Office applications were a simple and easy to install dim system or personal light level adjustment is required
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Cellular office, free-floor standing luminaires
- Open plan offices (up to 32 luminaires)
- Small conference rooms, Lecture theatres
- Hotels, restaurants
- Hospitals, Medical consulting rooms
- Schools

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-Regulator T 118 PL-T/C	220-240	50/60	28	UNP / 12	12	HFRT118PLTC	930972 30	108.57
HF-Regulator T 126 PL-T/C	220-240	50/60	28	UNP / 12	12	HFRT126PLTC	931016 30	108.57
HF-Regulator T 142 PL-T	220-240	50/60	28	UNP / 12	12	HFRT142PLT	931054 30	108.57
HF-Regulator T 218 PL-T/C	220-240	50/60	28	UNP / 12	12	HFRT218PLTC	930996 30	115.82
HF-Regulator T 226 PL-T/C	220-240	50/60	28	UNP / 12	12	HFRT226PLTC	931030 30	115.82
HF-Regulator T 242 PL-T	220-240	50/60	12	UNP / 12	12	HFRT242PLT	931078 30	115.82

HF-Performer Intelligent for TL5 HE/HO Lamps



Dim. no.	A1	A2	B1	C1	D1
1	360	350	30	21	4.2
2	360	350	30	22	4.2

Product Description

- Intelligent, flat, slim, lightweight high-frequency electronic ballast for TL5 fluorescent lamps

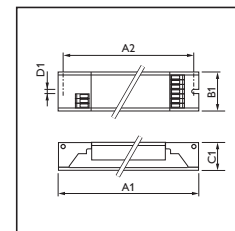
Product Features and Benefits

- Unique benefits of the Intelligent technology:
 - Multi-wattage clusters grouped according to the length of T5 lamps leading to higher efficiency in the production of fixtures and logistic processes throughout the value chain
 - Flexibility in choosing lux levels by replacing different wattages once in the luminaire
 - Minimized power losses
- Programmed start: flicker-free, warm start circuit preheating the lamp electrodes; this enables the lamps to be switched on and off without reducing useful life
- Constant light independent of mains voltage fluctuations
- Unit is protected against excessive mains voltages and incorrect connections
- Automatic stop circuit is activated in case of lamp failure (safety stop); once the lamp has been replaced, the ballast resets automatically
- Equipped with universal connector for both manual and automatic wiring

Application

- Ideal for applications with high switching frequency, typical application areas include:
 - Use with infrared remote control systems (e.g. movement detection)

- Department stores, shops, supermarkets, hotels, hospitals, office buildings, industrial premises
- Airports, railway stations
- Outdoor lighting; in general suitable for Class I applications
- Suitable for installations with emergency back-up, according to VDE 0108-100 / EN 60598-2-22 with re-ignition <0.5 s



Dim. no.	A1	A2	B1	C1	D1
3	425	415	30	21	4.2
4	360	350	30	22	4.2

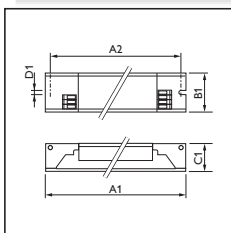
Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-Pi 1 14/21/24/39 TL5 HE/HO	220-240	50/60	34	1	UNP / 12	12	HFPI114212439	912121 30	70.11
HF-Performer Intelligent 1 14/21/24/39 TL5 EII	220-240	50/60	18	2	UNP / 12	12	HFPI114212439	914941 30	70.11
HF-Pi 1 28/35/49/54 TL5 HE/HO	220-240	50/60	34	1	UNP / 12	12	HFPI128354954	912169 30	70.11
HF-Performer Intelligent 1 28/35/49/54 TL5 EII	220-240	50/60	18	2	UNP / 12	12	HFPI128354954	914965 30	70.11
HF-Pi 2 14/21/24/39 TL5 HE/HO	220-240	50/60	26	3	UNP / 12	12	HFPI214212439	912213 30	75.13

More data see next page

(continued)

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-Performer Intelligent 2 14/21/24/39 TL5 EII	220-240	50/60	12	4	UNP / 12	12	HFPI214212439	915009 30	75.13
HF-Performer Intelligent 2 28/35/49/54 TL5 EII	220-240	50/60	12	4	UNP / 12	12	HFPI228354954	915023 30	29.70

HF-PERFORMER (flat) TL5



Dim. no.	A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
1	360.0	350.0	30.0	22.0	4.2

Product Description:

- Flat, Slim, multi wattage, lightweight high-frequency electronic ballast for TL5 fluorescent lamps

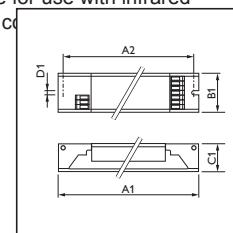
Features and Benefits:

- The combination HFPERFORMER and TL5 lamps offers opportunities for miniaturisation and reduced cost of ownership, thanks to the limited dimensions and the high system efficacy
- Programmed start: warm start circuit preheating the lamp electrodes; this enables the lamps to be switched on and off without reducing useful life

- Equipped with electrode heating cut-off circuit, ensuring optimal lamp operation with respect to lumen curve of lamp and reduction in system energy losses
- Low energy consumption
- Smart power: constant light independent of mains voltage fluctuations
- Unit is protected against excessive mains voltages and incorrect connections
- Automatic stop circuit isactivated within five seconds in case of lamp failure (safety stop); once the lamp has been replaced, the ballast resets automatically
- Equipped with terminations suitable for automatic wiring machines

Applications:

- Department stores, shops, supermarkets
- Airports, railway stations
- Office buildings, for example, insurance companies, banks, government ministries
- Hospitals
- Hotels
- Suitable for emergency installations with VDE 0108 with re-ignition < 0.5s
- Suitable for use with infrared remote control



Dim. no.	A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
2	425.0	415.0	30.0	22.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-P 1 14-35 TL5 HE EII	220-240	50/60	28	1	UNP / 12	12		928559 30	
HF-P 1 24-39 TL5 HO EII	220-240	50/60	28	1	UNP / 12	12	HFP124-39TL5HO	928573 30	55.15
HF-P 149 TL5 HO EII	220-240	50/60	28	1	UNP / 12	12	HFP149TL5HO	928597 30	55.15
HF-P 154 TL5 HO EII	220-240	50/60	28	1	UNP / 12	12	HFP154TL5HO	928610 30	55.15
HF-P 2 24-39 TL5 HO	220-240	50/60	12	2	UNP / 12	12	HFP224-39TL5HO-	928658 30	
HF-P 249 TL5 HO	220-240	50/60	12	2	UNP / 12	12		928672 30	
HF-P 254 TL5 HO	220-240	50/60	12	2	UNP / 12	12	HFP254TL5HO	928696 30	

HF-PERFORMER TL5 Circular



Product Description

- Compact, square, lightweight, High Frequency electronic ballasts for TL5 Circular lamps

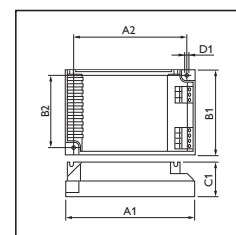
Features and Benefits:

- Ideal for applications with high switching frequency
- Programmed start: flicker-free, warm-start circuit
- Up to 50% longer lamp life than with conventional ballasts
- Up to 25% energy saving at same luminous flux, compared with conventional ballasts
- Constant light independent of mains voltage fluctuations
- Protected against excessive mains voltages

- Automatic stop circuit (safety stop) is activated within 5 seconds in case of lamp failure; ballast resets automatically after lamp replacement

Applications

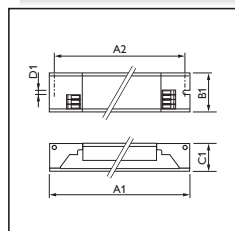
- Ideal for applications with high switching frequency, for example:
 - Use with infrared remote control systems (e.g. movement detection)
 - Department stores, shops, supermarkets, hotels, hospitals, office buildings
 - Airports
 - Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22 with re-ignition <0.5 s



A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
103.0	93.5	67.0	57.5	30.0	4.5

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)					
HF-P 155 TL5C	220-240	50/60	28	UNP / 36	36	HFP155TL5C	927767 30	103.97
HF-P 160 TL5C	220-240	50/60	28	UNP / 36	36	HFP160TL5C	927781 30	103.97

HF-Performer II (flat) for TL5 Lamps



Dim. no.	A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
1	360.0	350.0	30.0	22.0	4.2
2	359.0	350.0	30.0	28.0	4.2
3	360.0	350.0	30.0	21.0	4.2

Product Description

- Second-generation flat, slim, lightweight high-frequency electronic ballast for TL5 fluorescent lamps, based on EII technology

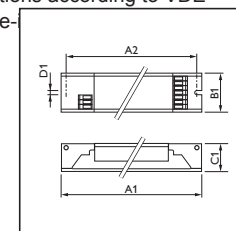
Features and Benefits

- The combination of HF-Performer and TL5 lamps allows miniaturization thanks to compact size
- High system efficacy reduces cost of ownership
- Quick programmed start: 0.5 s
- Flicker-free warm start by preheating lamp electrodes; lamp on/off switching without reducing useful life

- Electrode heating cut-off circuit ensures optimal lamp operation with respect to lumen curve of the lamp and reduction in system energy losses
- Smart power: constant light independent of mains voltage fluctuations
- Low energy consumption due to the use of EII technology
- Unit is protected against excessive mains voltages and incorrect connection
- Automatic stop circuit (Safety stop) activated within 5 s in case of lamp failure; ballast resets automatically after lamp replacement
- Suitable for use with infrared remote control systems
- Terminations suitable for automatic wiring machines

Applications

- Department stores, shops, supermarkets
- Industrial premises
- Airports, railway stations
- Outdoor lighting
- Office buildings, for example insurance companies, banks, government ministries
- Hospitals
- Hotels
- Suitable for emergency installations according to VDE 0108, re-



Dim. no.	A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
4	360.0	350.0	30.0	22.0	4.2
5	425.0	415.0	39.0	28.0	4.2
6	425.0	415.0	30.0	21.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-P 1 14-35 TL5 HE EII	220-240	50/60	28	1	UNP / 12	12		928559 30	
HF-P 1 24-39 TL5 HO EII	220-240	50/60	28	1	UNP / 12	12	HFP124-39TL5HO	928573 30	55.15
HF-P 1 95-120 TL5 EII	220-240	50/60	12	2	UNP / 12	12	HFP195120TL5VHO	914828 30	91.65
HF-P 149 TL5 HO EII	220-240	50/60	28	1	UNP / 12	12	HFP149TL5HO	928597 30	55.15
HF-P 154 TL5 HO EII	220-240	50/60	28	1	UNP / 12	12	HFP154TL5HO	928610 30	55.15
HF-P 180 TL5/PL-L EII	220-240	50/60	12	3	UNP / 12	12		002198 30	
HF-P 2 14-35 TL5 HE EII	220-240	50/60	28	4	UNP / 12	12		910233 30	
HF-P 2 24-39 TL5 HO EII	220-240	50/60	12	4	UNP / 12	12	HFP224-39TL5EII	910257 30	59.08
HF-P 2 95-120 TL5 EII	220-240	50/60	6	5	UNP / 10	10	HFP295120TL5VHO	914842 30	134.11
HF-P 249 TL5 HO EII	220-240	50/60	12	4	UNP / 12	12	HFP249TL5EII	910271 30	59.08
HF-P 254 TL5 HO EII	220-240	50/60	12	4	UNP / 12	12	HFP254TL5EII	910295 30	59.08
HF-P 280 TL5/PL-L EII	220-240	50/60	12	6	UNP / 12	12	HFP280TL5PLLEII	060167 30	103.33
HF-P 3/414 TL5 EII	220-240	50/60	28	1	UNP / 12	12	HFP3414TL5EII	059840 30	108.50
HF-P 3/424 TL5/PL-L EII	220-240	50/60	12	1	UNP / 12	12	HFP3424TL5EII	907752 30	108.50

HF-Performer II for TL-D Lamps



Product Description:

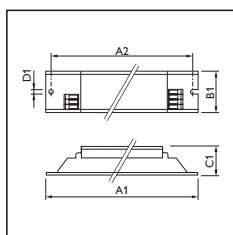
- Second-generation slim, lightweight HF electronic ballasts for TL-D fluorescent lamps, using Philips EII technology

Features and Benefits:

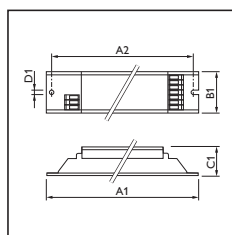
- Ideal for applications with high switching frequency
- Unique benefits of the new Philips EII technology:
 - Miniaturised 280 mm length for total HF-Basic TL-D/PL-L and HF-Performer TL-D range
 - Simplified portfolio allowing flexible, modular luminaire design
 - Cooler product allows more compact luminaire design
 - Fast preheat for short ignition time (0.5 s)
 - Universal connector for both manual and automatic wiring
- Programmed warm start preheats the lamp electrodes for flicker-free on/off switching without reducing useful life
- 50% longer lamp life than with conventional ballasts
- Up to 25% energy saving at same luminous flux, compared with conventional ballasts
- Smart Power: constant light independent of mains voltage fluctuations
- Protected against excessive mains voltages
- Automatic safety stop activated within 5 s of lamp failure; automatic reset after lamp replacement

Applications:

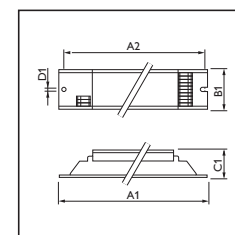
- Suitable for use with infrared remote control systems (e.g. movement detection)
- Department stores, shops, supermarkets, hotels, hospitals, office buildings, industrial premises
- Airports, railway stations
- Outdoor lighting; in general suitable for Class I applications
- Suitable for installations with emergency back-up, according to VDE 0108 with re-ignition <0.5 s



Dim. no.	A1	A2	B1	C1	D1
1	280.0	265.0	30.0	28.0	4.2



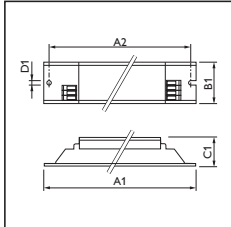
Dim. no.	A1	A2	B1	C1	D1
2	280.0	265.0	30.0	28.0	4.2



Dim. no.	A1	A2	B1	C1	D1
3	280.0	265.0	39.0	28.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-P 118 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFP118TLDEII	934086 30	63.70
HF-P 136 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFP136TLDEII	931467 30	63.70
HF-P 158 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFP158TLDEII	931481 30	63.70
HF-P 170 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFP170TLDEII	934116 30	63.70
HF-P 218 TL-D EII	220-240	50/60	28	2	UNP / 12	12	HFP218TLDEII	934130 30	68.23
HF-P 236 TL-D EII	220-240	50/60	28	2	UNP / 12	12	HFP236TLDEII	931504 30	68.23
HF-P 258 TL-D EII	220-240	50/60	12	2	UNP / 12	12	HFP258TLDEII	931528 30	68.23
HF-P 270 TL-D EII	220-240	50/60	12	2	UNP / 12	12	HFP270TLDEII	058638 30	68.23
HF-P 3/418 TL-D EII	220-240	50/60	12	3	UNP / 10	10	HFP3418TLDEII	931641 30	91.00

HF-Performer II Xtreme for TL5/TL-D Lamps



Dim. no.	A1	A2	B1	C1	D1
1	360.0	350.0	30.0	28.0	4.2

Product Description

- Long-life, robust, high-frequency electronic ballasts for TL-D fluorescent lamps, based on EII technology

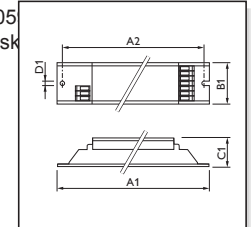
Product Features and Benefits

- Unique benefits of the new Philips EII technology:
 - Cooler product allows for Xtreme long lifetime of the ballast
 - Optimized system efficiency; minimized ballast power losses
 - Simplified Xtreme portfolio allows flexible, modular luminaire design
- Dedicated design for Xtreme low failure rate
- Suited for outdoor luminaires and industrial environments – protected against excessive voltage peaks (up to 4kV) and suitable for use in Class I and Class II luminaires
- Protected against excessive mains voltages and incorrect connections up to 400V AC

- Programmed start: flicker-free, warm start circuit preheating (2 s) of lamp electrodes enables lamp on/off switching without reducing useful life
- Smart power: constant light independent of mains voltage fluctuations
- Automatic stop circuit activated within 5 s in case of lamp failure (safety stop); ballast resets automatically after lamp replacement
- Universal connector for both manual and automatic wiring

Application

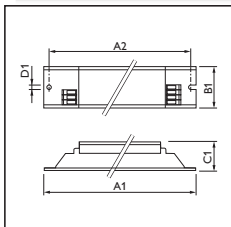
- Ideal for applications where maintenance costs (high ceilings, difficult to reach) and disruptive costs are high (stopping of production process, closure of tunnels), or where lamp failure is not acceptable for e.g. safety reasons:
 - Process, food, petrochemical industry
 - Warehouses
 - Airports, railway stations
 - Tunnels, underground stations
 - Street lighting
 - Supermarkets
 - Outdoor lighting
 - Suitable for Class I and II applications
 - Use with infrared remote control systems (e.g. movement detection)
 - Suitable for emergency lighting luminaires acc. to IEC 605 high-risk



Dim. no.	A1	A2	B1	C1	D1
2	360.0	350.0	30.0	28.0	4.2
3	425.0	415.0	30.0	28.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-P Xt 136 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFPXT136TLDEII	912008 30	84.92
HF-P Xt 154 TL5 EII	220-240	50/60	28	1	UNP / 12	12	HFPXT154TL5EII	914293 30	99.68
HF-P Xt 158 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFPXT158TLDEII	912046 30	84.92
HF-P Xt 180 TL5 EII	220-240	50/60	12	1	UNP / 12	12	HFPXT180TL5EII	914408 30	121.68
HF-P Xt 236 TL-D EII	220-240	50/60	12	2	UNP / 12	12	HFPXT236TLDEII	912022 30	94.42
HF-P Xt 249 TL5 EII	220-240	50/60	12	2	UNP / 12	12	HFPXT249TL5EII	914279 30	115.68
HF-P Xt 254 TL5 EII	220-240	50/60	12	2	UNP / 12	12	HFPXT254TL5EII	914316 30	115.68
HF-P Xt 258 TL-D EII	220-240	50/60	12	2	UNP / 12	12	HFPXT258TLDEII	912060 30	94.42
HF-P Xt 280 TL5 EII	220-240	50/60	8	3	UNP / 12	12	HFPXT280TL5EII	914422 30	178.05

HF-Performer II for PL-L Lamps



Dim. no.	A1	A2	B1	C1	D1
1	280.0	265.0	30.0	28.0	4.2

Product Description

- Second-generation slim, lightweight HF electronic ballasts for PL-L fluorescent lamps, using Philips EII technology

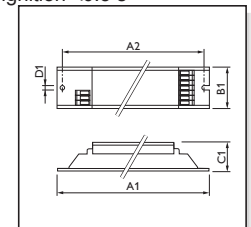
Features and Benefits

- Ideal for applications with high switching frequency
- Unique benefits of the new Philips EII technology:
 - Miniaturised 280 mm length for total HF-Performer PL-L range
 - Simplified portfolio allowing flexible, modular luminaire design
 - Cooler product allows more compact luminaire design
 - Fast preheat for short ignition time (0.5 s)

- Universal connector for both manual and automatic wiring
- Programmed warm start preheats the lamp electrodes for flicker-free on/off switching without reducing useful life
- 50% longer lamp life than with conventional ballasts
- Up to 25% energy saving at same luminous flux, compared with conventional ballasts
- Smart Power: constant light independent of mains voltage fluctuations
- Protected against excessive mains voltages
- Automatic safety stop activated within 5 s of lamp failure; automatic reset after lamp replacement

Applications

- Suitable for use with infrared remote control systems (e.g. movement detection)
- Department stores, shops, supermarkets, hotels, hospitals, office buildings, industrial premises
- Airports, railway stations
- Outdoor lighting; in general suitable for Class I applications
- Installations with emergency back-up, according to VDE 0108 with re-ignition <0.5 s



Dim. no.	A1	A2	B1	C1	D1
2	280.0	265.0	30.0	28.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-P 136 PL-L EII	220-240	50/60	28	1	UNP / 12	12	HFP136PLLEII	063700 30	65.22

More data see next page

(continued)

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
	(V)	(Hz)	(x)						
HF-P 140 PL-L EII	220-240	50/60	28	1	UNP / 12	12	HFP140PLLEII	063724 30	65.22
HF-P 155 PL-L EII	220-240	50/60	28	1	UNP / 12	12	HFP155PLLEII	063748 30	65.22
HF-P 236 PL-L EII	220-240	50/60	28	2	UNP / 12	12	HFP236PLLEII	060518 30	69.76
HF-P 240 PL-L EII	220-240	50/60	12	2	UNP / 12	12	HFP240PLLEII	060594 30	69.76
HF-P 255 PL-L EII	220-240	50/60	12	2	UNP / 12	12	HFP255PLLEII	060624 30	69.76

HF-PERFORMER PL-T/C



Product Description:

- Compact, lightweight, High Frequency electronic ballasts for PL-T and PL-C compact fluorescent lamps

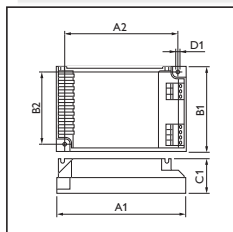
Features and Benefits:

- Ideal for applications with high switching frequency (e.g. movement detection)
- Programmed start: flicker-free, warm-start circuit
- 50% longer lamp life than with conventional ballasts

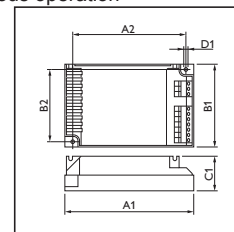
- Up to 25% energy saving at same luminous flux, compared with conventional ballasts
- Constant light independent of mains voltage fluctuations
- Protected against excessive mains voltages
- Automatic stop circuit (safety stop) is activated within 5 seconds in case of lamp failure; ballast resets automatically after lamp replacement

Applications:

- Installations with control systems (e.g. movement detection)
- Department stores, shops, supermarkets, hotels, hospitals, office buildings
- Airports, railway stations
- Outdoor lighting and downlighting
- Suitable for use in emergency installations with re-ignition in <2s according to VDE 0108. Only for temporary backup, not for continuous operation



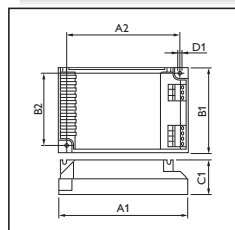
Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1						
2	103.0	93.5	67.0	57.5	30.0	4.5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
3	123.0	111.0	79.0	67.0	33.0	4.5

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
	(V)	(Hz)	(x)						
HF-P 1 26-42 PL-T/C	220-240	50/60		1	UNP / 36	36	HFP126-42PLTC	749352 30	
HF-P 113 PL-T/C	220-240	50/60	28	2	UNP / 36	36	HFP113PLTCOLD	749451 30	
HF-P 157 PL-T	220-240	50/60	28	2	UNP / 36	36	HFP157PLT	927804 30	91.00
HF-P 218 PL-T/C	220-240	50/60	28	3	UNP / 36	36	HFP218PLTC	749680 30	69.76
HF-P 257 PL-T	220-240	50/60	10	3	UNP / 12	12	HFP257PLT	934017 30	110.72

HF-Performer II for PL-T/C/R/L/TL5C Lamps



A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
103.0	93.5	67.0	57.5	30.0	4.5

Product Description

- Compact, lightweight high-frequency electronic ballast for PL-T/C/TL5C/R/L fluorescent lamps, based on EII technology

Features and Benefits

- Unique benefits of the new Philips EII technology:
 - Optimized system efficiency, minimized ballast power losses
 - Miniaturised dimensions for HF-Performer compact gear range
 - Simplified standardized portfolio allowing flexible, modular luminaire design
 - Cooler product allows more compact luminaire design
 - Fast preheat for short ignition time (0.5 s)

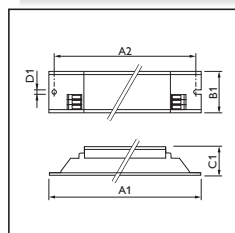
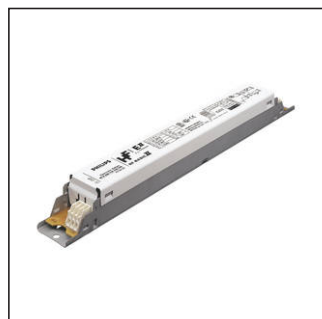
- Programmed start: flicker-free, warm start circuit preheating (0.5 s) the lamp electrodes; this enables the lamps to be switched on and off without reducing useful life
- Smart power: constant light independent of mains voltage fluctuations
- Unit is protected against excessive mains voltages and incorrect connections
- Automatic stop circuit is activated within 5 seconds in case of lamp failure (safety stop); once the lamp has been replaced, the ballast resets automatically
- Equipped with universal connector for both manual and automatic wiring

Applications

- Ideal for applications with high switching frequency, typical application areas include:
 - Use with infrared remote control systems (e.g. movement detection)
 - Department stores, shops, supermarkets, hotels, hospitals, office buildings, industrial premises
 - Airports, railway stations
 - Suitable for emergency lighting luminaires acc. to IEC 60598-2-22, excluding high-risk task areas

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)					
HF-P 1 13-17 PL-T/C/R EII	220-240	50/60	28	UNP / 12	12	HFP11317PLTCR	914071 30	148.61
HF-P 1 22-42 PL-T/C/L/TL5C EII	220-240	50/60	28	UNP / 12	12	HFP12242PLT/C/L	913975 30	62.12
HF-P 118 PL-T/C EII	220-240	50/60	28	UNP / 12	12	HFP118PLT/CEII	914033 30	62.12
HF-P 2 13-17 PL-T/C/R EII	220-240	50/60	28	UNP / 12	12	HFP21317PLTCR	914095 30	174.42
HF-P 2 22-42 PL-T/C/L/TL5C EII	220-240	50/60	12	UNP / 12	12	HFP22242PLT/C/L	913999 30	66.44
HF-P 218 PL-T/C EII	220-240	50/60	28	UNP / 12	12	HFP218PLT/CEII	914057 30	66.44

HF-BASIC II



Dim. no.	A1	A2	B1	C1	D1
1	280.0	265.0	30.0	28.0	4.2

Product Description

- Second-generation slim, lightweight HF electronic ballasts for TL-D and PL-L fluorescent lamps, using Philips EII technology for applications with low switching frequency

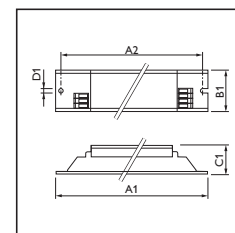
Features and Benefits

- Ideal for applications with long lamp burning hours
- Unique benefits of the new Philips EII technology:
 - Miniaturised 280 mm length for total HF-Basic TL-D/PL-L and HF-Performer TL-D range
 - Simplified portfolio allowing flexible, modular luminaire design
 - Cooler product allows more compact luminaire design
 - Fast preheat for short ignition time (0.5 s)

- Universal connector for both manual and automatic wiring
- Instant, flicker-free start, ideal for applications with low switching frequency (max. 3 times a day)
- 50% longer lamp life than with conventional ballasts (switching max. 3 times a day)
- Up to 25% energy saving at same luminous flux, compared with conventional ballasts
- Smart Power: constant light independent of mains voltage fluctuations
- Protected against excessive mains voltages
- Automatic safety stop activated within 5 s of lamp failure; automatic reset after lamp replacement

Applications

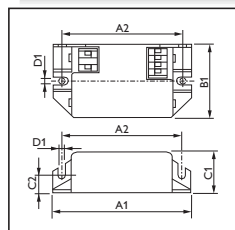
- Department stores, shops, supermarkets, industrial premises with long burning hours
- Offices and corridors with low switching frequency
- Airports, railway stations
- Outdoor lighting; in general suitable for Class I applications
- Installations with emergency back-up, according to VDE 0108 with re-ignition <0.5 s



Dim. no.	A1	A2	B1	C1	D1
2	280.0	265.0	30.0	28.0	4.2

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-B 136 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFB136TLDEII	931542 30	53.09
HF-B 158 TL-D EII	220-240	50/60	28	1	UNP / 12	12	HFB158TLDEII	931566 30	53.09
HF-B 236 TL-D EII	220-240	50/60	28	2	UNP / 12	12	HFB236TLDEII	931580 30	60.67
HF-B 258 TL-D EII	220-240	50/60	12	2	UNP / 12	12	HFB258TLDEII	931603 30	60.67

HF-MatchboxRED



Dim. no.	A1	A2	B1	C1	C2	D1
1	80.0	70.0	40.0	22.0	10.0	4.4

Product Description:

- Compact, lightweight, high-frequency electronic ballast for TL (8-13W), TL5 (14W) and compact fluorescent PL (7-18W) lamps

Features and Benefits:

- Programmed start: flicker-free, warm-start circuit preheating (0,8 s) the lamp electrodes; this enables the lamps to be switched frequently without reducing useful life
- Up to 50% longer lamp life than with electromagnetic ballasts
- Energy savings of more than 25% (at equal luminous flux) compared with electromagnetic gear

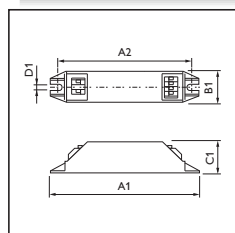
- Multi-lamp ballast: one type can be used to drive a single lamp of different types and wattages, e.g. a PL-C 10 or 13 W or a PL-S 11 W lamp can be connected to the HF-MatchboxRED 113 PL-S/PL-C ballast
- Compact power IC gives the ballast compact dimensions and low weight compared to electromagnetic ballasts that this design replaces
- Fixing centres for mounting remain same as equivalent electromagnetic ballasts

Applications:

- HF-MatchboxRED ballasts are designed for areas with high switching frequency
- Typical areas of application in indoor and outdoor situations with movement/ presence detection
- Suitable for installations with emergency back-up, according to VDE 0108
- For luminaires with protection class I and II; class I metal luminaires with earth connection require special measures for EMC compliance

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
	(V)	(Hz)	(x)					
HF-M RED 109 SH TL/PL-S	230-240	50/60	159	UNP / 50	50	HFMRED109SH	931429 30	31.35
HF-M RED 113 SH PL-S/PL-C	230-240	50/60	101	UNP / 50	50	HFMRED113SH	927989 30	31.35
HF-M RED 114 SH TL/TL5	230-240	50/60	101	UNP / 50	50	HFMRED114SH	931405 30	31.35
HF-M RED 118 SH PL-C/PL-T	230-240	50/60	73	UNP / 50	50	HFMRED118SH	928023 30	31.35
HF-M RED 124 SH TL/TL5/PL-L	230-240	50/60	48	UNP / 50	50	HFMRED124SH	910400 30	31.35

HF-MatchboxBLUE



Dim. no.	A1	A2	B1	C1	C2	D1
1	144.0	132.0	22.0	22.0	10.0	4.4
2	187.0	176.0	22.0	22.0	10.0	4.4

Product Description:

- Compact, lightweight, high-frequency electronic ballast for TL (4-18 W), TL5 (14-28 W) and compact fluorescent PL (5-24 W) lamps

Features and Benefits:

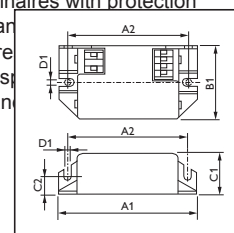
- Instant start: flicker-free starting, ideal for lighting applications with long burning hours and infrequent switching; for optimum lamp life, it is advisable to use HF-MatchboxBLUE ballasts where the lighting is burning continuously for at least 3 hours (3-8 switchings per day), or in residential applications where the intensity of use is limited
- Energy savings of more than 25% (at equal luminous flux) compared with electromagnetic gear

- Multi-lamp ballast: one type can be used to drive a single lamp of different types and wattages, e.g. a TL 6 or 8 W, or a PL-S 7 or 9 W lamp can be connected to the HF-MatchboxBLUE 109 TL/PL-S ballast
- Compact power IC gives the ballast compact dimensions and low weight compared to electromagnetic ballasts that this design replaces
- Fixing centres for mounting remain same as equivalent electromagnetic ballasts

Applications:

- HF-MatchboxBLUE ballasts are designed for areas where the lighting is switched on and off infrequently
- HF-MatchboxBLUE should not be used in combination with movement/ presence detection

- Typical areas of application in indoor residential situations include living rooms, kitchens (under cupboards), studies (desk-top), bedrooms, halls, staircases and garages
- Typical outdoor residential situations include driveways, porches, front doors and galleries
- Suitable for installations with emergency back-up, according to VDE 0108
- For luminaires with protection class I and II; class I metal luminaires with earth connection require special measures for EMC compliance



Dim. no.	A1	A2	B1	C1	C2	D1
3	80.0	70.0	40.0	22.0	10.0	4.4
4	94.0	84.0	40.0	22.0	10.0	4.4

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
	(V)	(Hz)	(x)						
HF-M BLUE 105 LH TL/PL-S	230-240	50/60	240	1	UNP / 50	50	HFMBLUE105LH	536785 30	24.24
HF-M BLUE 105 SH TL/PL-S	230-240	50/60	240	3	UNP / 50	50	HFMBLUE105SH	536723 30	
HF-M BLUE 109 LH TL/PL-S	230-240	50/60	159	1	UNP / 50	50	HFMBLUE109LH	536808 30	24.24

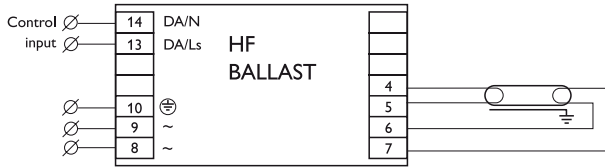
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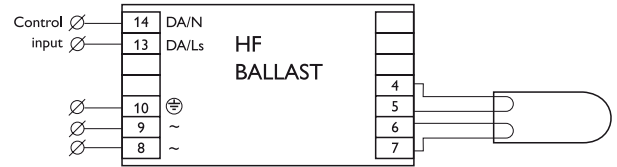
Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
HF-M BLUE 109 SH TL/PL-S	230-240	50/60	159	3	UNP / 50	50	HFMBLUE109SH	536747 30	24.24
HF-M BLUE 114 LH TL/PL-S/PL-C	230-240	50/60	101	1	UNP / 50	50	HFMBLUE114LH	536822 30	24.24
HF-M BLUE 114 SH TL/PL-S/PL-C	230-240	50/60	101	3	UNP / 50	50	HFMBLUE114SH	536761 30	24.24
HF-M BLUE 118 SH PL-C/PL-T	230-240	50/60	73	3	UNP / 50	50	HFMBLUE118SH	746160 30	24.24
HF-M BLUE 121 LH TL5	230-240	50/60	59	2	UNP / 50	50	HFMBLUE121LH	536464 30	31.85
HF-M BLUE 124 LH TL/TL5/PL-L	230-240	50/60	60	2	UNP / 50	50	HFMBLUE124LH	536402 30	31.85
HF-M BLUE 124 SH TL/TL5/PL-L	230-240	50/60	60	4	UNP / 50	50	HFMBLUE124SH	536389 30	31.85
HF-M BLUE 128 LH TL5	230-240	50/60		2	UNP / 50	50	HFMBLUE128LH	932433 30	31.85

Wiring Diagram

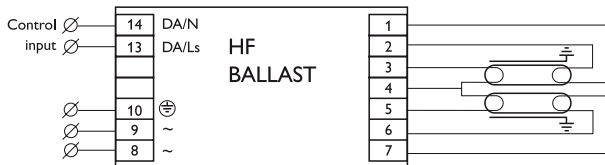
HF-Regulator II Touch and DALI 1xTL5



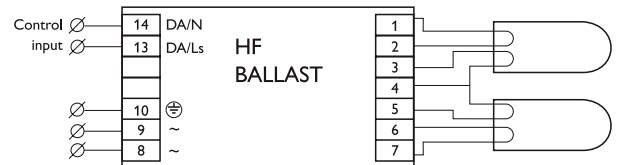
HF-Regulator II Touch and DALI 1xTL5/PL-L



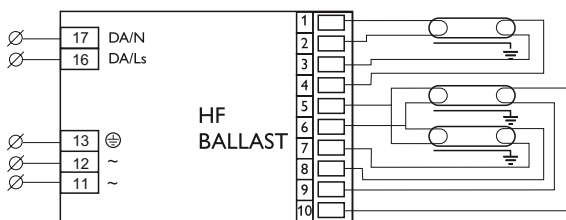
HF-Regulator II Touch and DALI 2xTL5



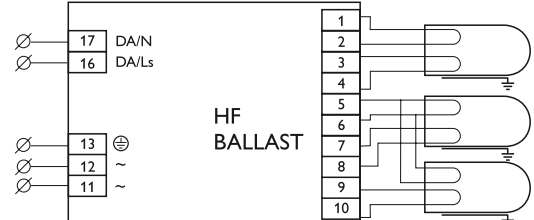
HF-Regulator II Touch and DALI 2xTL5/PL-L



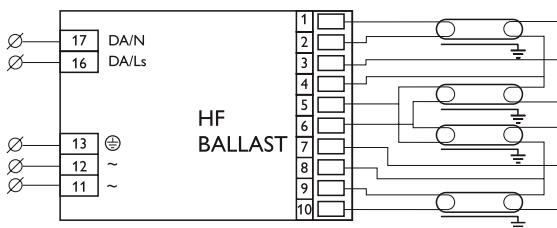
HF-Regulator II Touch and DALI 3xTL5



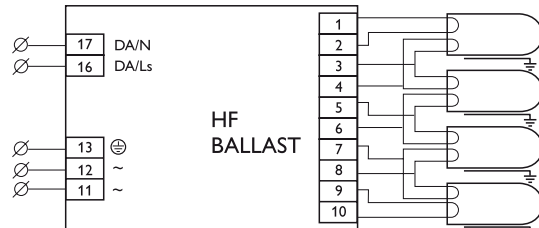
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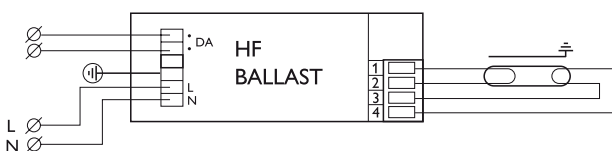
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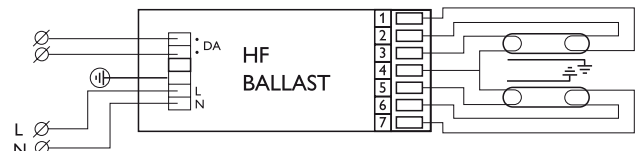
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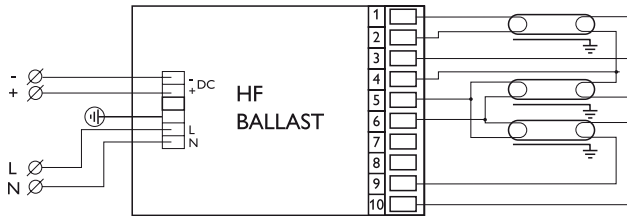
HF-Regulator DALI 1xTL5



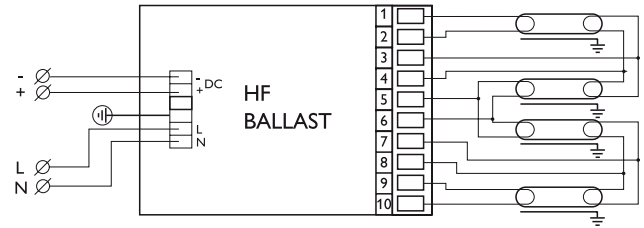
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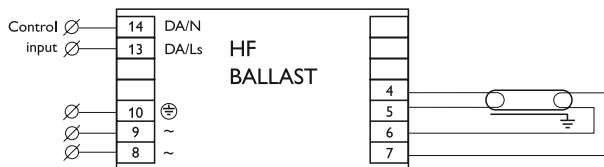
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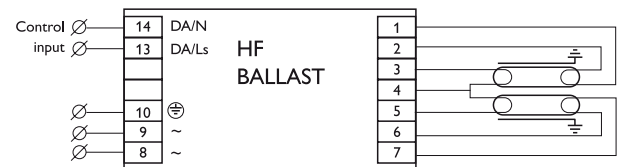
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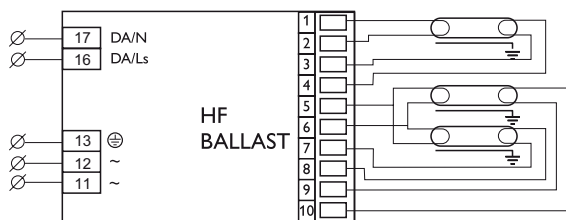
HF-Regulator II Touch and DALI 1xTL-D



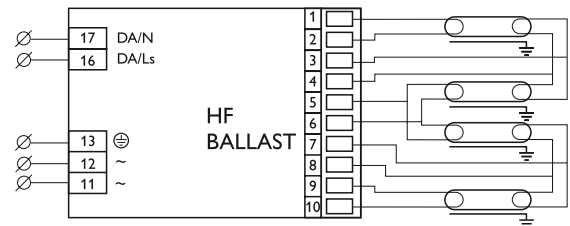
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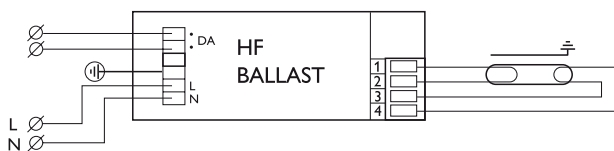
HF-Regulator II Touch and DALI 3xTL-D



HF-Regulator II Touch and DALI 4xTL-D



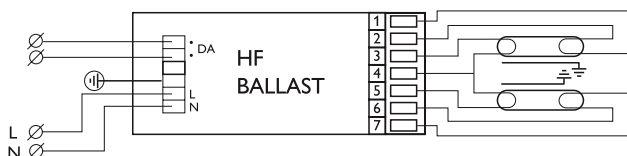
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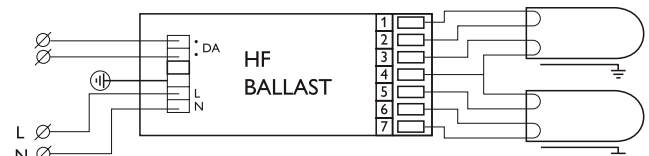
HF-Regulator DALI 1xPL-L



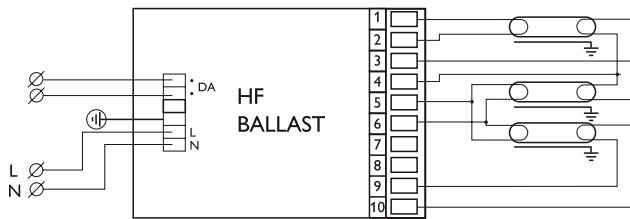
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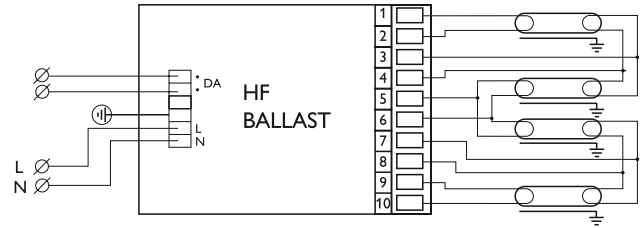
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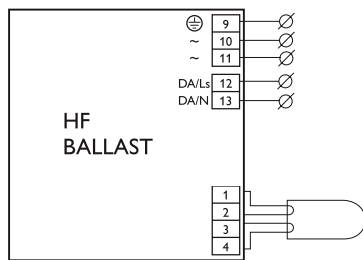
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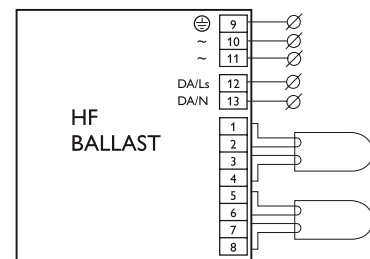
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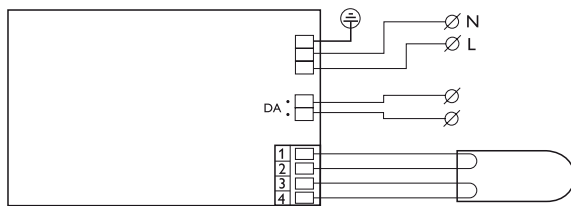
HF-Regulator II Touch and DALI 1xPL-T/PL-C/PL-R



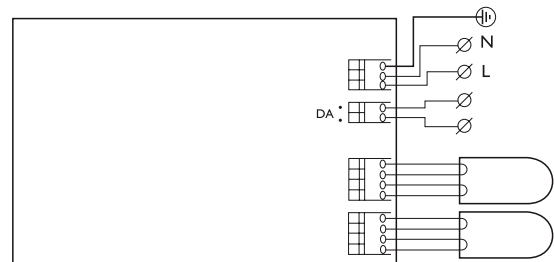
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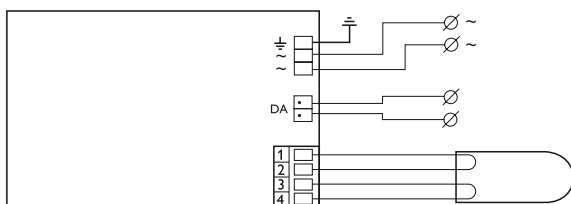
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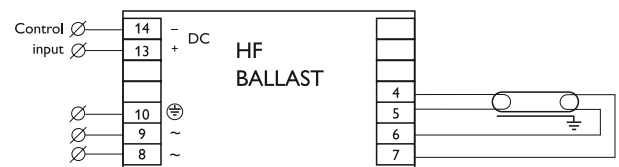
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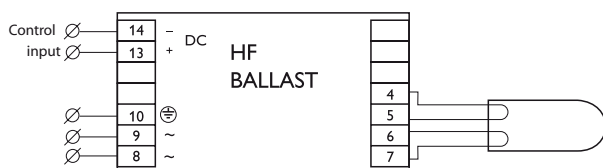
HF-Regulator Touch & Dim/DALI TL5 Circular



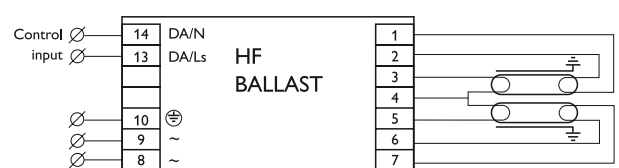
HF-Regulator II 1xTL5/PL-L/TL-D



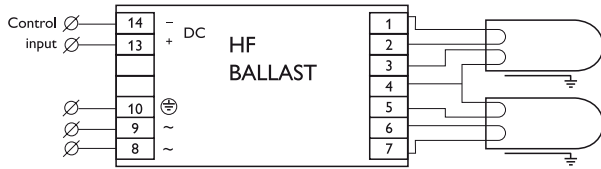
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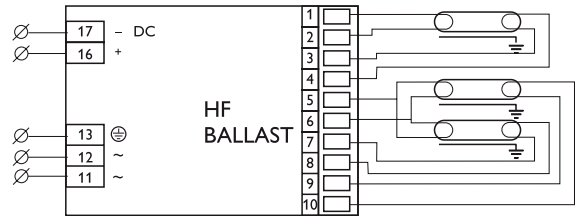
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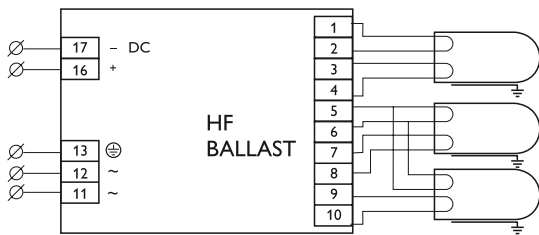
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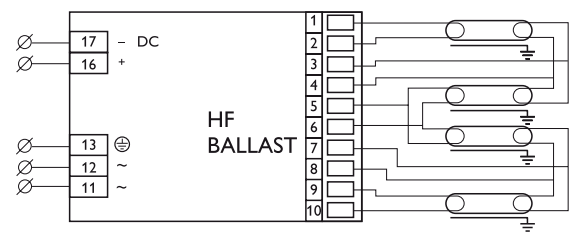
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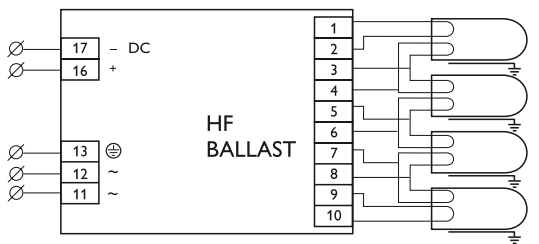
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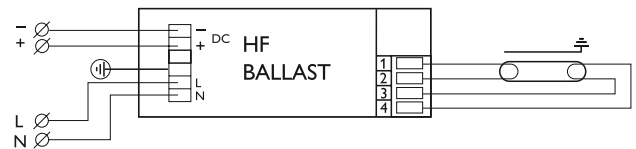
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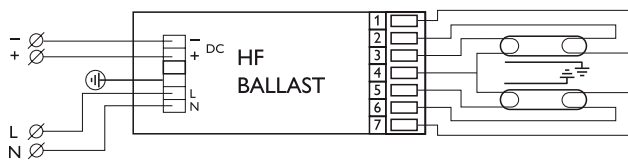
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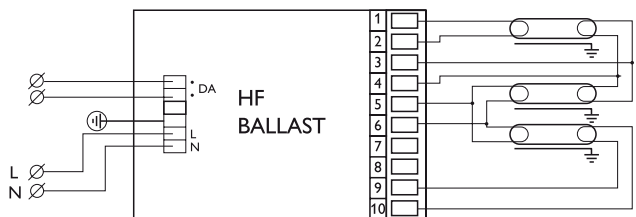
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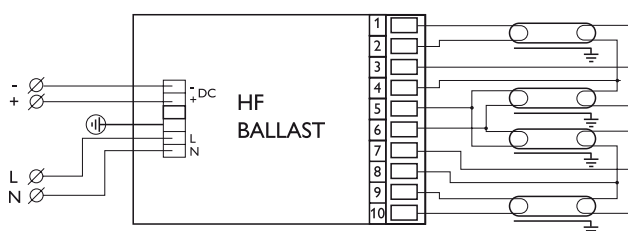
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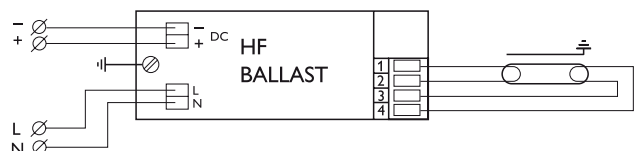
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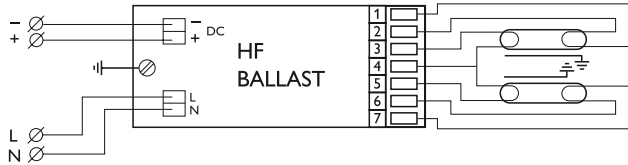
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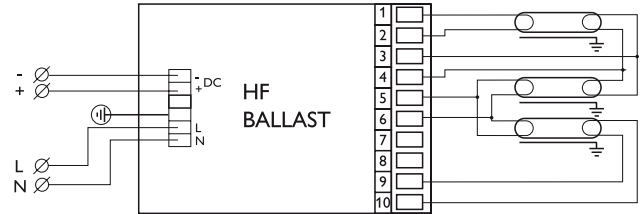
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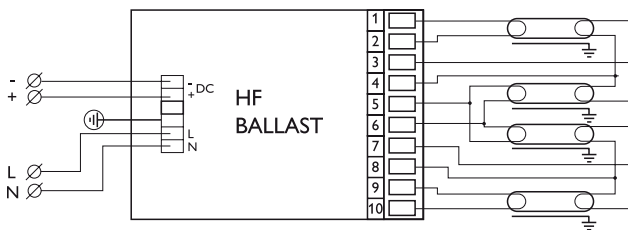
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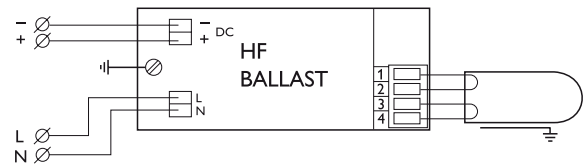
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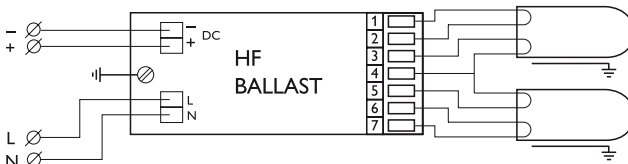
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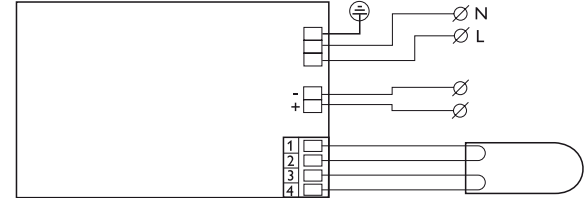
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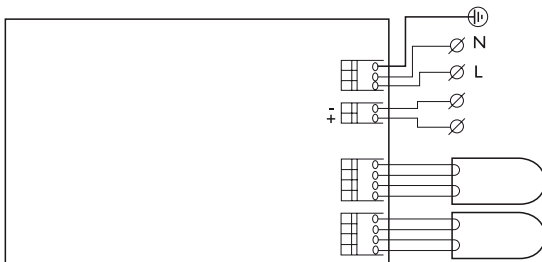
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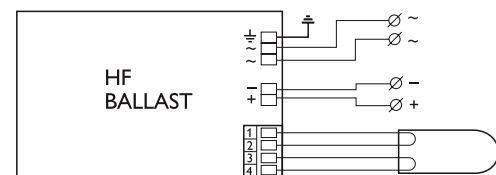
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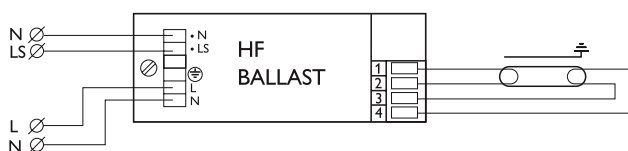
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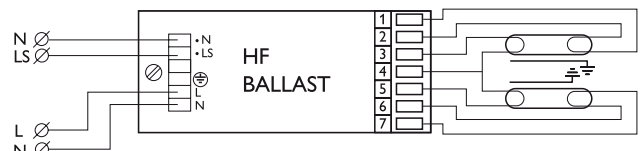
HF-Regulator TL5 Circular



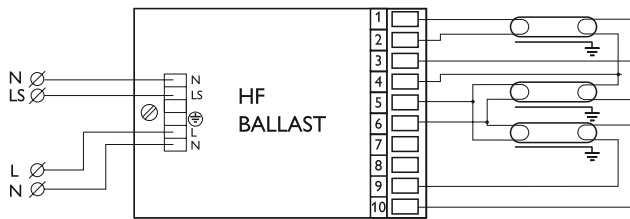
HF-Regulator Touch and Dim 1xTL5/TL-D



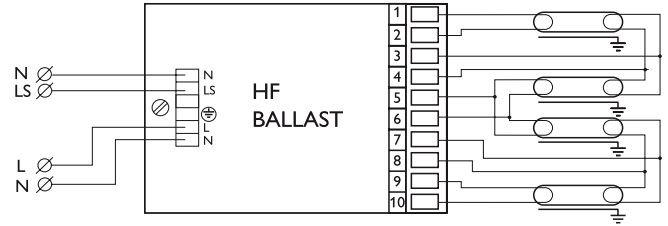
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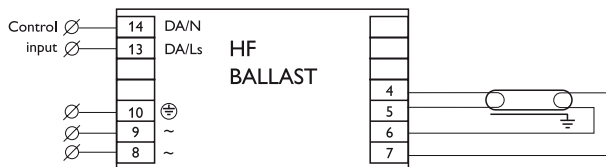
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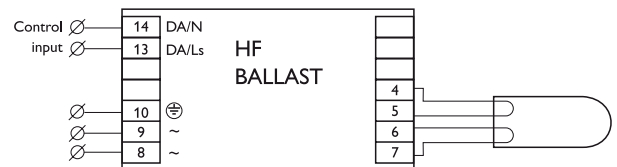
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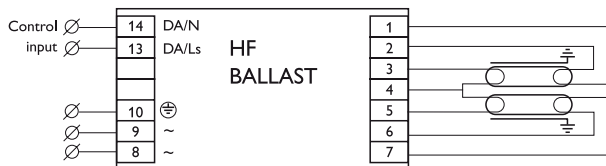
HF-Regulator II Touch and DALI 1xTL5



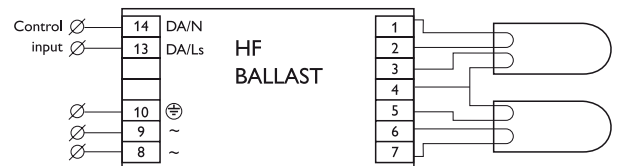
HF-Regulator II Touch and DALI 1xPL-L



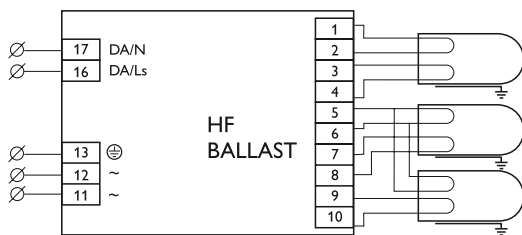
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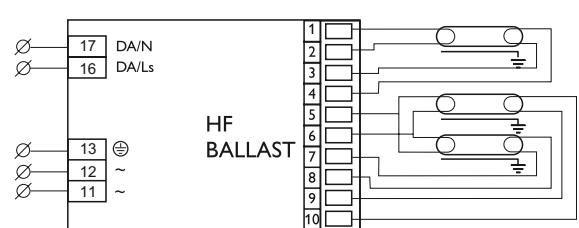
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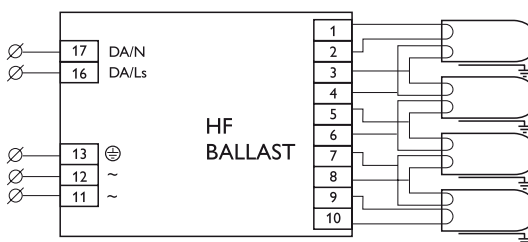
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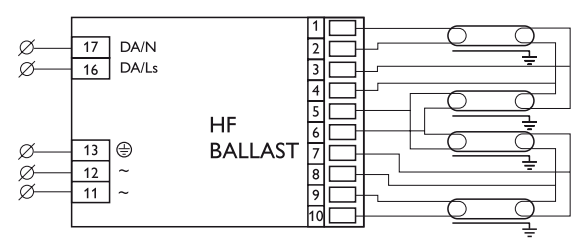
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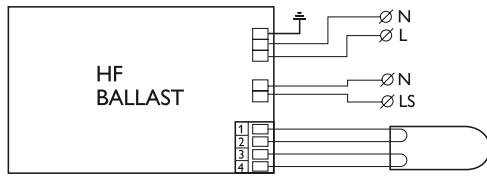
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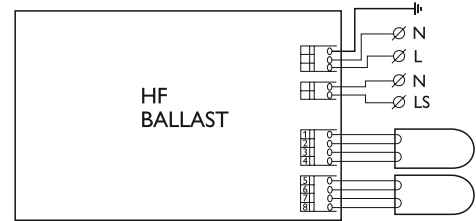
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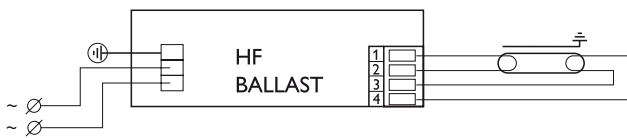
HF-Regulator Touch and Dim 1xPL-T/C



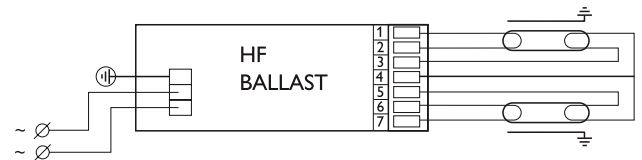
HF-Regulator Touch and Dim 2xPL-T/C



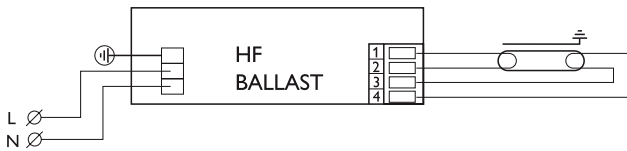
HF-Performer Intelligent 1xTL5 HE/HO



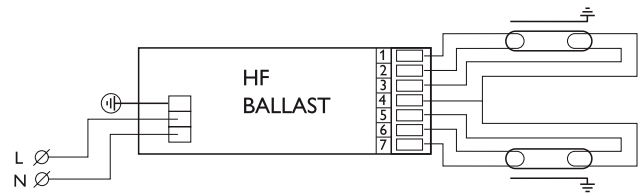
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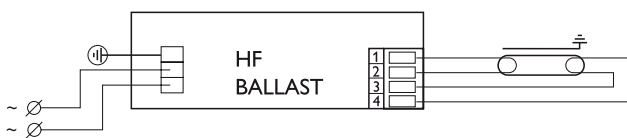
HF-Performer 1xTL5



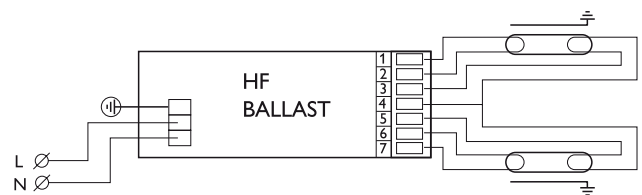
HF-Performer 2xTL5



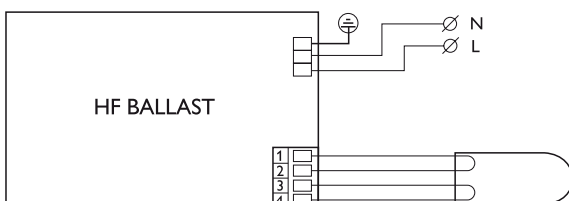
HF-Performer (flat) 1xTL5



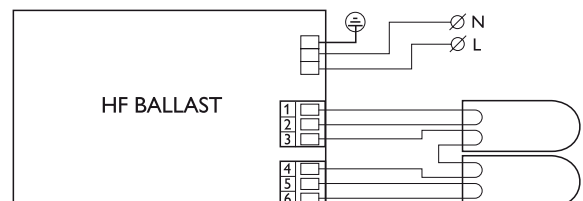
HF-Performer (flat) 2xTL5



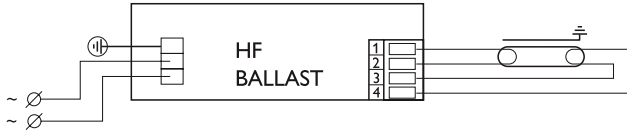
HF-Performer 1xTL5 Circular



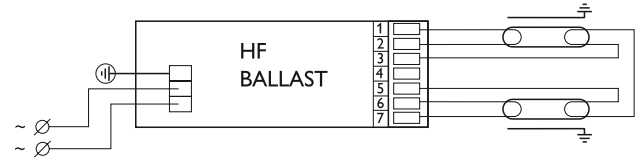
HF-Performer 2xTL5 Circular



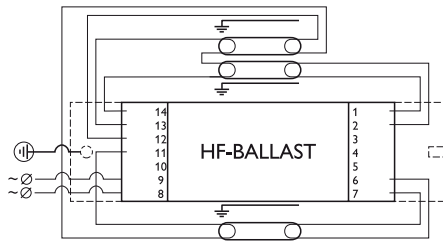
HF-Performer II (flat) 1xTL5



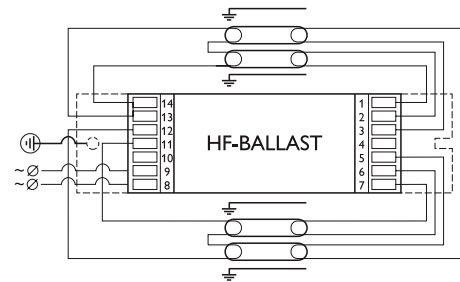
HF-Performer II (flat) 2xTL5



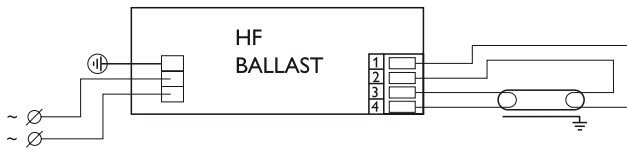
HF-Performer II (flat) 3xTL5/PL-L



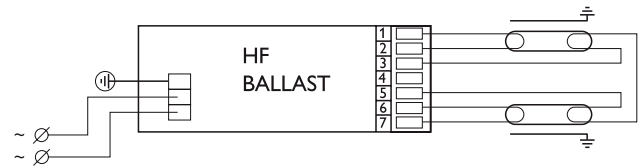
HF-Performer II (flat) 4xTL5/PL-L



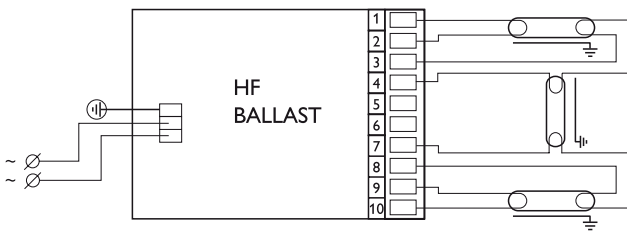
HF-Performer II 1xTL-D



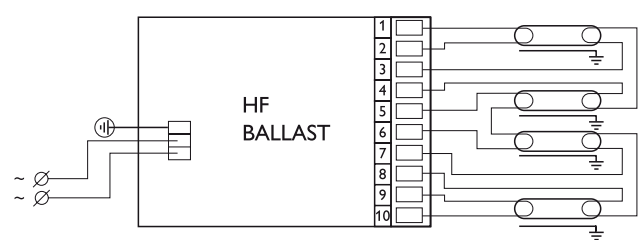
HF-Performer II 2xTL-D



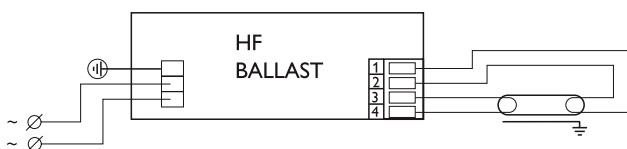
HF-Performer II 3xTL-D



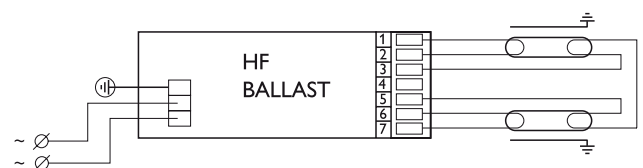
HF-Performer II 4xTL-D



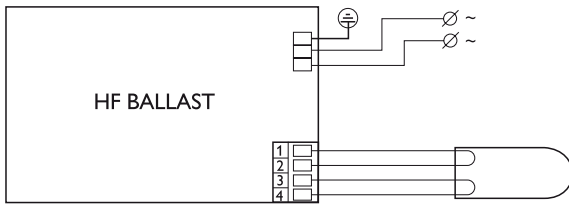
HF-Performer II Xtreme 1xTL5/TL-D



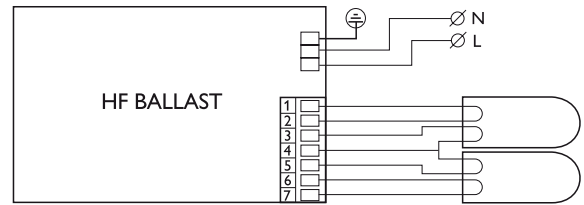
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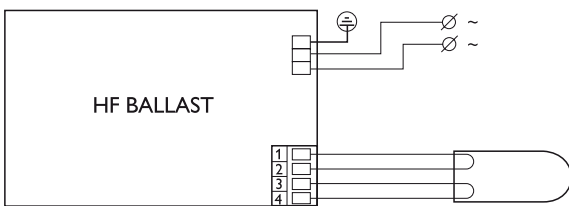
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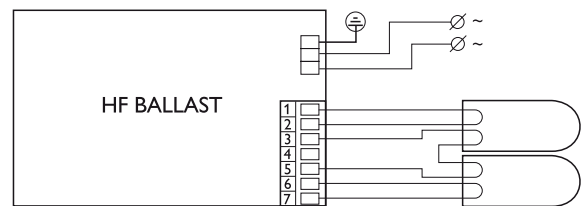
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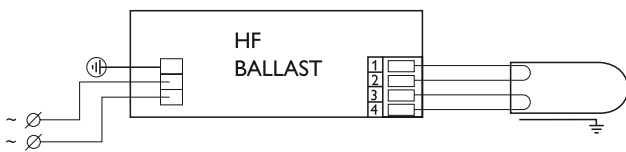
HF-Performer II 1xPL-T/C/R/L/TL5C



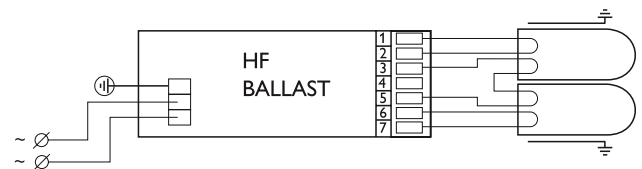
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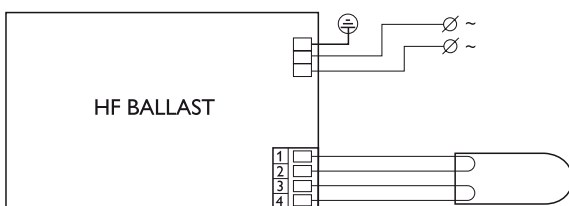
HF-Performer II 1xPL-L



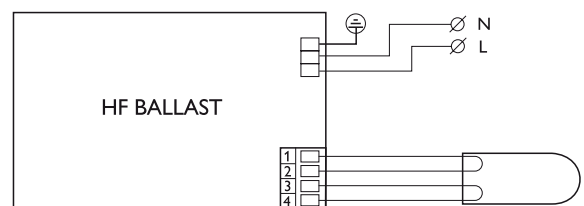
HF-Performer II 2xPL-L



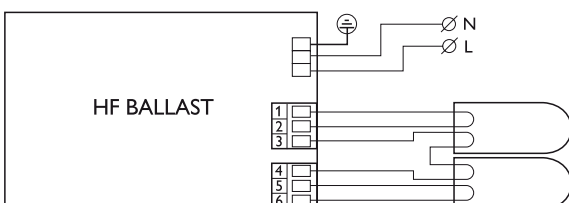
HF-Performer 1xPL-T/C/PL-L



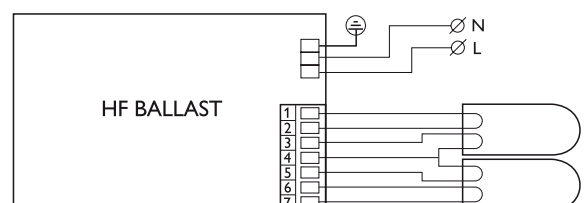
HF-Performer 157 PL-T & 138 PL-Q



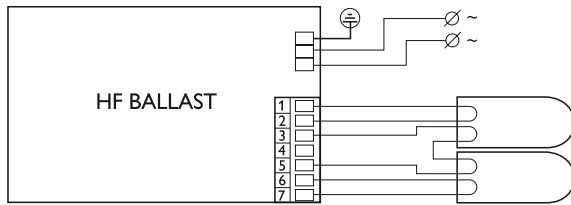
HF-Performer 213 PL-T/C



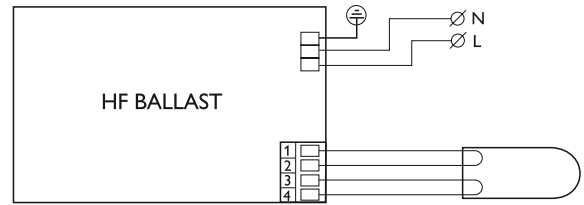
HF-Performer 218 PL-T/C



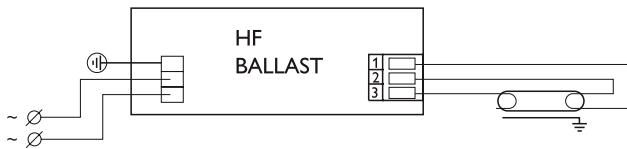
HF-Performer 2 26-42 PL-T/C & 257 PL-T



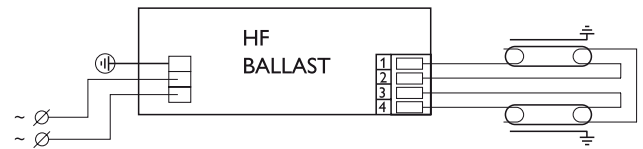
HF-Performer PL-H



HF-BASIC II 1xTL-D



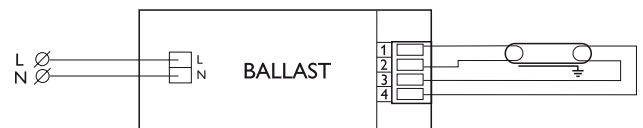
HF-BASIC II 2xTL-D



HF-Matchbox RED



HF-Matchbox Blue



HF-Matchbox Blue



Fluorescent electromagnetic
EM TL fluorescent



Product Description

- Long-life electromagnetic ballasts with low power losses for use with TL, TL-D, TL-E, TL-U, PL-C, PL-T and PL-L fluorescent lamps

Features and Benefits

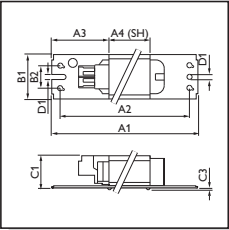
- Reliable electrical and mechanical performance
- Compact dimensions
- Optimum lamp performance under optimum temperature conditions
- ENEC approved, complies with:

- Safety EN 61347-2-8
- Performance IEC/EN 60921
- Tw marking 130°C (Average lifetime 10 years continuous operation)
- Fully approved by major authorities
- Quick, easy wiring: double-insert contacts for solid core wire 0.5-1.0 mm², strip length 9 mm (+/-1mm), insulation diameter max. 2.6 mm

- Prepared for automatic wiring
- Embossed mounting plate for noise reduction

Applications

- Ideal for the following applications:
 - All Indoor applications, e.g. warehouses, offices, shops, supermarkets, hotels, hospitals
 - Airports, railway stations
 - Outdoor applications, e.g. road lighting, tunnels, car parkings, residential areas

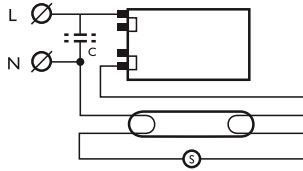


Dim. no.	A1 nom.	A2 nom.	A3 nom.	A4 nom.	B1 nom.	B2 nom.	C1 nom.	C3 nom.	D1 nom.
1	155.0	140.0	54.0	53	39.0	20.0	28.0	1.5	4.2
2	155.0	140.0	54.0	63	39.0	20.0	28.0	1.5	4.2

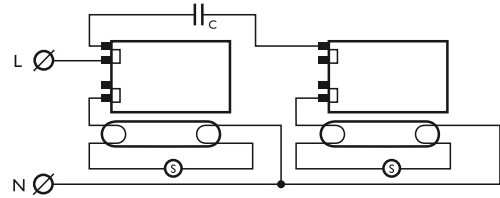
Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...
	(V)	(Hz)					
BTA 18W TL/TL-D/TL-U C DI	240	50	1	UNP / 32	32	BTA18	915313 30
BTA 36W TL/TL-D C DI	240	50	2	UNP / 32	32	BTA36	915450 30

Wiring Diagram

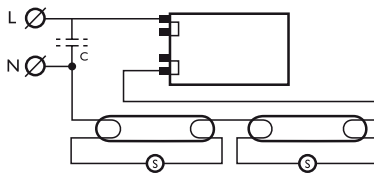
EM TL fluorescent



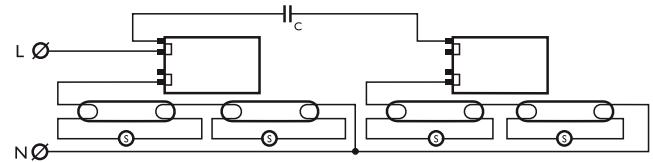
EM TL fluorescent



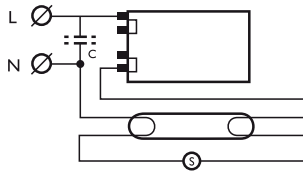
EM TL fluorescent 30W & 36W



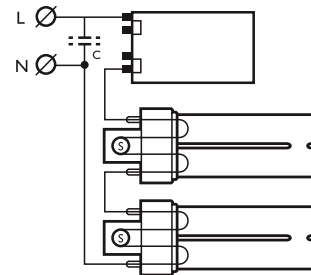
EM TL fluorescent 30W & 36W



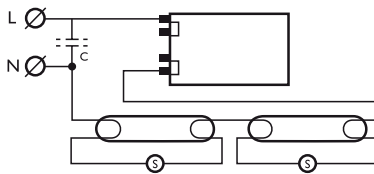
EM mini 8W & 13W



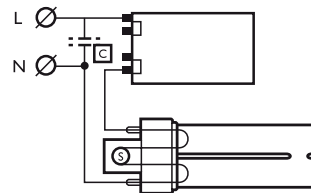
EM mini 11W & 13W



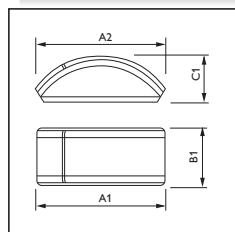
EM mini 13W



EM mini 13W, 18W & 26W



Halogen Electronic Transformer Primaline Halogen Transformers



Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	110	45	33

Product Description

- High-Frequency electronic transformer for operation with 12V halogen lamps, available in 70W, 105W and 150W versions

Features and Benefits

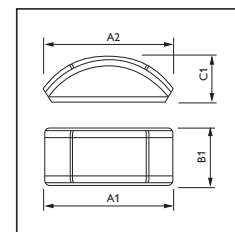
- Fits in smallest downlighting halogen application
- Possibility to connect two lamps for 70W and 105W and to connect 3 lamps for 150W
- Possibility to loop through one transformer to another for the 150W

- Unique compact, lightweight design
- Fully IEC compliant
- Dimmable with Philips-approved Leading and Trailing Edge dimmers
- Safe operation due to protection circuits:
 - in case of short circuit at the output
 - in case of excessive loads
 - in case of excessive temperatures
- Constant output voltage:

- constant light level in case of undervoltage
- full service life in case of overvoltage

Application

- Indoor residential use including living rooms and decorative and accent lighting
- Professional applications including retail, offices, conference rooms and exhibitions



Dim. no.	A1 nom.	B1 nom.	C1 nom.
2	145	51	33

Type	Line Voltage	Line Frequency	Rated Ballast-Lamp Power	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(W)						
Primaline 105 50-105	230-240	50/60	50-105	1	1CT / 50	50	PLINEHAL105	912688 30	65.43
Primaline 150 70-150	230-240	50/60	70-150	2	1CT / 50	50	PLINEHAL150	912701 30	97.57
Primaline 70 35-70	230-240	50/60	35-70	1	1CT / 50	50		912664 30	

Certaline Halogen Transformers



Product Description

- Electronic halogen transformer for low voltage halogen lamps the range include Certaline 60W 230-240V and Certaline 105W 230-240V

Product Features and Benefits

- Extremely compact dimensions for the 60W model

- Optimal operation even at high ambient temperatures Ta 40 °C for 60W model and Ta 45 °C for 105W model
- Suitable for independent operation thanks to its robust strain relief
- Compliant to IEC norms
- Possibility to dim with trailing edge dimmer (end phase cut dimmer)
- 3 levels of protection: protected against over-voltage, over-temperature and short circuit

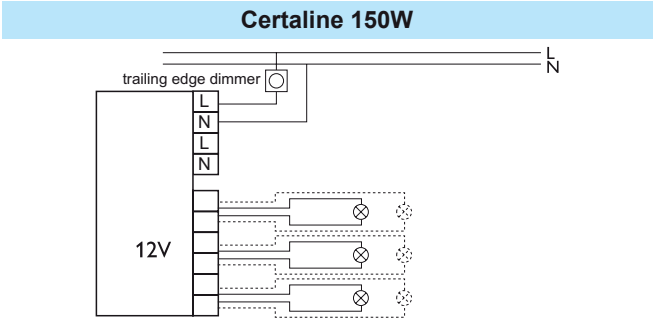
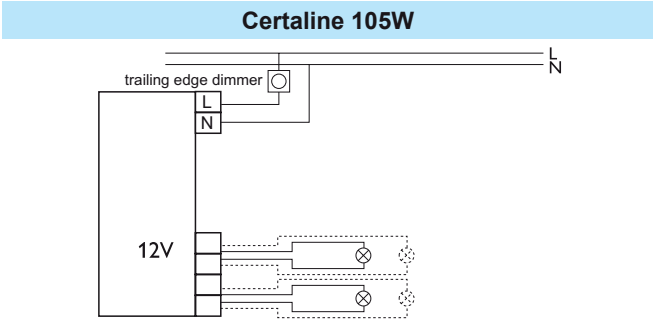
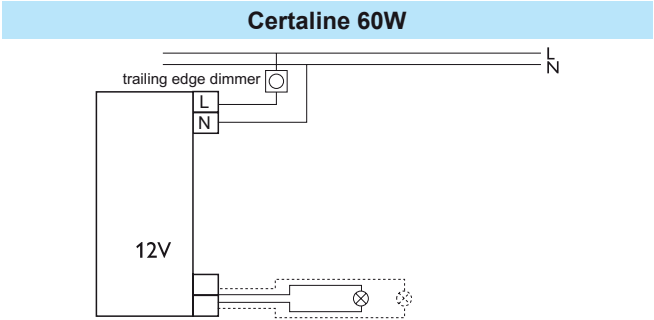
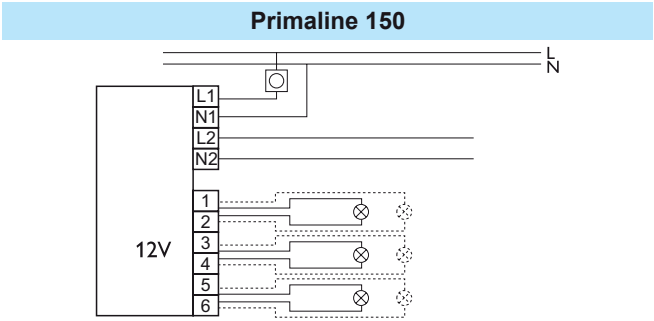
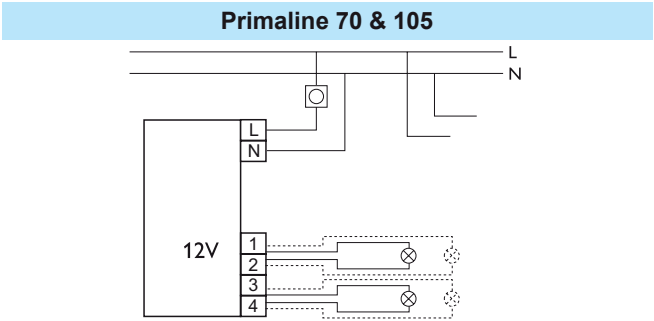
- SELV (Safety Extra Low Voltage)
- Possibility to connect two lamps for the 105W model thanks to its double output connections

Application

- Indoor residential use including living rooms and decorative and accent lighting
- Professional applications including retail, offices, conference rooms and exhibitions

Type	Line Voltage	Line Frequency	Rated Ballast-Lamp Power	Packing type/ Packing configuration	Packs per outer box	Ordering number 8711500...
	(V)	(Hz)	(W)			
Certaline 60W 20-60	230-240	50/60	20-60	1CT / 100	100	913784 30
Certaline 105W 35-105	230-240	50/60	35-105	1CT / 100	100	913807 30
Certaline 150W 50-150	230-240	50/60	50-150	1CT / 50	50	913852 30

Wiring Diagram



LED

Electronic Driver

Xtanium LED Drivers Indoor



Product Description

- Designed specifically to optimally power Luxeon™ high-power LEDs
- Also perfectly operate the Philips LED-based systems, including LED Module System and LED String
- Dimming with LED driver 25W (1-10V) does not affect LED life
- Maximum freedom for system designers
- Constant DC current output for optimum operation and long life of high-power LEDs
- Long operating life (50.000 hours) matches that of LEDs
- Meet CE and ENEC approbation requirements
- Hazard-free – can be installed in virtually any location

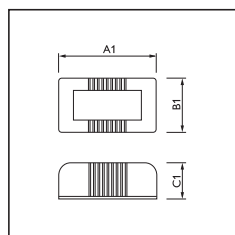
Features and Benefits

- Slim, compact housings (12W and 17W types) – matches spatially unobtrusive LED light sources

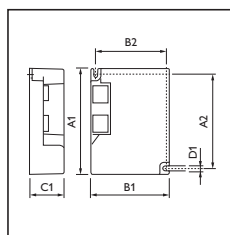
- Insulated construction plus limited output voltage and current for safe operation
- Dimming driver (25W) allows variation of LED output from 5% to 100%

Applications

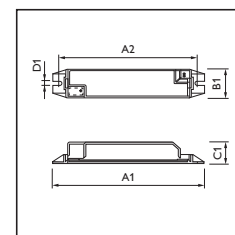
- Channel letter/contour lighting
- Architectural lighting
- Orientation (path) lighting
- Retail/theme lighting
- Entertainment lighting
- Emergency and security lighting



Dim. no.	A1	B1	C1
1	65.0	35.0	23.0



Dim. no.	A1	A2	B1	B2	C1	D1
2	83.0	73.4	77.0	67.4	33.8	4.4



Dim. no.	A1	A2	B1	C1	D1
3	132.0	120.0	30.0	22.0	4.4

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration	Packs per outer box	National Order Code	Ordering number	Nett Trade Price per Piece (€)
	(V)	(Hz)						
LED Driver Indoor 4W/0.35A	100-255	50/60	1	1CT / 100	100	XLPD4W	8710163 062181 30	33.60
LED Driver Indoor 8W/0.70A	100-255	50/60	1	1CT / 100	100	XLPD8W	8710163 062228 30	30.36
LED Driver DIM 25W/1.05A-24V	230	50	2	UNP / 12	12		8711500 927408 30	
LED Driver Indoor 12W/0.35A-33V	230	50	3	UNP / 10	10	XTM12WLED	8711500 749963 30	
LED Driver Indoor 25W/1.05A-24V	230	50	2	UNP / 12	12	XTM25WLED	8711500 927361 30	112.70

Xtanium LED Drivers Outdoor



Product Description

- Designed specifically to optimally power Luxeon™ high-power LEDs
- Also perfectly operate the Philips LED-based systems, including LED Module System and LED String
- IP66 Rating for outdoor use
- Maximum freedom for system designers
- Constant DC current output for optimum operation and long life of high-power LEDs
- Long operating life (50.000 hours) matches that of LEDs
- Meet CE and ENEC approbation requirements

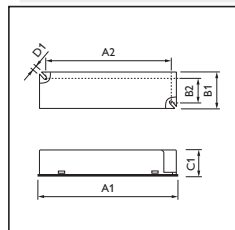
Features and Benefits

- Slim, compact housings (12W and 17W types) – matches spatially unobtrusive LED light sources

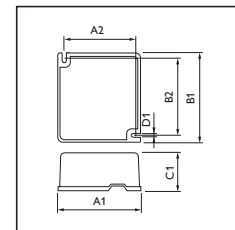
- Insulated construction plus limited output voltage and current for safe operation
- Hazard-free – can be installed in virtually any location

Applications

- Channel letter/contour lighting
- Architectural lighting
- Orientation (path) lighting



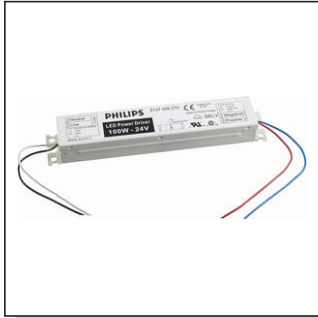
Dim. no.	A1	A2	B1	B2	C1	D1
1	240.0	225.0	43.2	30.0	29.5	4.4



Dim. no. 2

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
	(V)	(Hz)						
							930453 30	
							930958 30	
LED Driver Outdoor 67W/2.80A-24V	230	50	1	UNP / 20	20	XTM67WLEDIP66	931207 30	64.53
LED Driver Outdoor 80W/3.15A-24V	230	50	1	UNP / 20	20		931245 30	
LED Driver Outdoor 40W/1.75A-24V	230	50	2	UNP / 12	12		912732 30	

LED Power Drivers Outdoor



Product Description

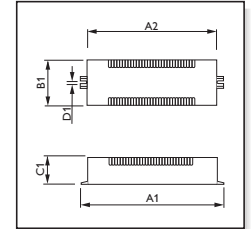
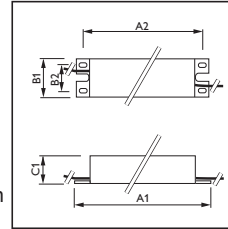
- Power supply for all the Philips LED-based systems, including LED String

Features and Benefits

- Long operating life (50.000 hours) matches that of LEDs
- Meet CE and selv approbation requirements
- Hazard-free – can be installed in virtually any location

Application

- Channel letter/contour lighting
- Architectural lighting
- Orientation (path) lighting



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	241	228.6	43	26.6	30	4.4

Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	140	130	37	18.5	25	4.4

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
	(V)	(Hz)						
LED Power Driver Outd. 100-240V 100W 24V	100-240	50/60	1	UNP / 10	10		911964 30	
LED Power Driver Outd. 100-240V 20W 24V	100-240	50/60	2	UNP / 10	10	LPD-20WLED	911940 30	142.28
LED Power Driver Outd. 100-240V 60W 24V	100-240	50/60	1	UNP / 10	10		911469 30	

Xitanium LED Driver Outdoor High Efficiency



Product Description

- The Xitanium™ drivers are designed specifically to optimally power Luxeon™ high power LEDs
- The constant DC current output provides the long life and optimum operation of high power LEDs. Up to 106 leds can be connected in series to the Xitanium 150W

Features and Benefits

- Thanks to its high output voltage a large number of LEDs (up to 106 leds) can be connected to the xitanium 150W outdoor driver in series.
- High efficiency >90%
- IP 65 which makes it suitable for most applications Install and forget thanks to its 50k hours lifetime

- Universal mains
- Overload protection
- No load protection
- Over temperature protection

Application

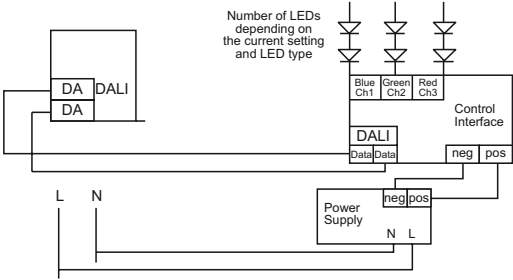
- Ideal for outdoor applications with leds including outdoor residential area lighting, parking lighting, architectural lighting

Ordering number 8727900...

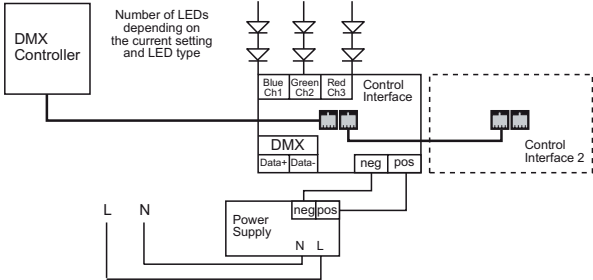
809176 00

Wiring Diagram

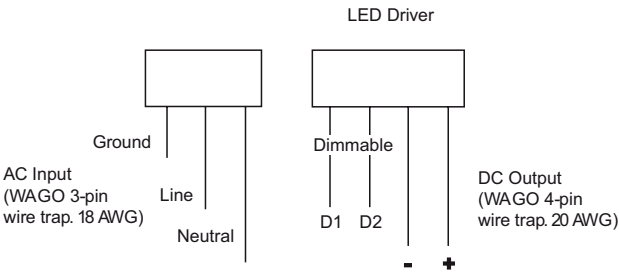
LED CI Ambiscene DALI



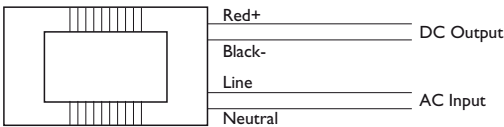
LED CI Ambiscene DMX



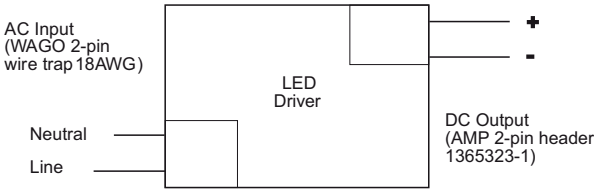
Xitanium LED Driver Indoor 25W



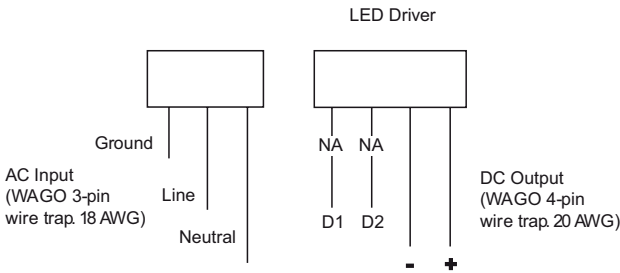
Xitanium LED Driver Indoor 4W & 8W



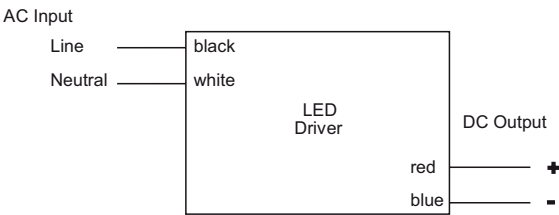
Xitanium LED Driver Indoor 12W & 17W



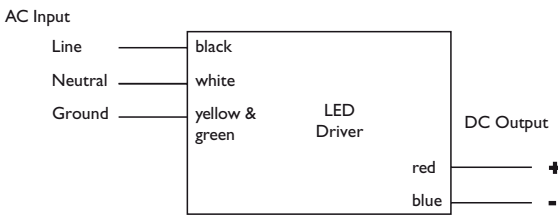
Xitanium LED Driver Indoor 40W



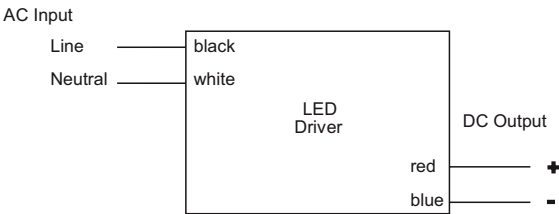
Xitanium LED Driver Outdoor 12W, 17W, 67W & 80W



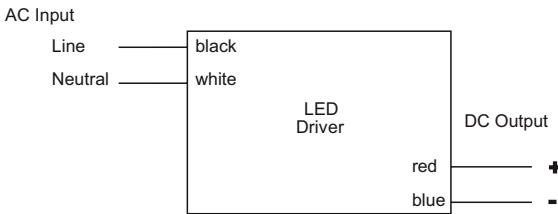
Xitanium LED Driver Outdoor 40W



LED Power Driver Outdoor



Xitanium LED Driver Outdoor High Efficiency



Lighting Controls

Lighting Control Components



Product Description

- The Philips ActiLume lighting control system consists of a small, lightweight sensor and controller, designed for easy integration into luminaires.
- ActiLume is a true Plug and Play solution for open plan (up to 9 luminaires) or cell offices (e.g. 4 luminaires).
- Used in a master and slave luminaire concept, easy to use and easy to install.
- Specific application brochures are available to help specify and apply the system in an optimal way.

- Commissioning is optional for other application modes than cell office or open plan. Using this method, functions can be changed without consequences for the electrical installation

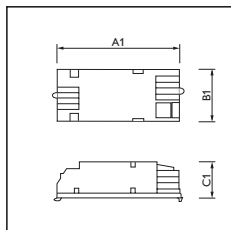
Features and Benefits

- Philips ActiLume is a DALI based lighting control system designed for maximum comfort and energy savings of up to 75% (in fully automatic mode and when used in combination with Philips HF-REGULATORII Touch and DALI ballasts). This to achieve a quick return on investment
- ActiLume is a Plug & Play system, therefore no specific lighting control training is needed. Moreover, the system is supported with simple, dedicated application and installation sheets
- The ActiLume system consists out of three state-of-art miniature sensors combined with a controller containing a series of pre-programmed modes
- The two most applied modes, cell or open plan offices, can be selected via a simple push on the service button
- The light sensor is sensitive for visible radiation (matching the human eye) providing automatic savings with daylight depending regulation, without any visible discomfort for the user
- The movement detector is very sensitive to human movements and is combined with extended delays to provide optimal functionality in an office environment
- Semi automatic solutions can be created by connecting a mains rated springback switch to the controller or by using an infrared remote control unit. In this way the settings can be manually overruled according to personal preferences
- In addition ActiLume offers the possibility to choose specific modes specially developed in line with new legislation, which makes the system very versatile for use. These modes can be recalled by using a simple mode selection tool IRT8098/00
- It is easy to change a specific application setting by selecting another mode on the advanced mode selection tool IRT8099/00

- The ActiLume controller contains two DALI outputs. These outputs are pre-programmed (factory setting) as a window and corridor row with a fixed light offset
- The system can control maximum nine ballasts and can be extended with two additional movement detectors, extension sensor type LRM8118/00
- Factory light level setting is at 600 lux at a reflection factor of 0.3

Applications

- The ActiLume system is designed for all office applications, from open plan to cell offices, lobbies or toilets, and from corridor to small meeting rooms
- It offers specific comfort modes, e.g. for schools, light-lines and direct/indirect lighting concepts
- It even contains a specific comfort mode combining maximum energy savings and additional comfort based on a practical EN 12464 solution (mode 4, 5 or 9)



A1	B1	C1
nom.	nom.	nom.
79.4	30.0	21.0

Type	Packing type/Packing configuration	Packs per outer box	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
LCC 1653/00 Actilume	UNP / 48	48	LCC1653	910424 30	135.45

General-purpose Products

Packs per outer box	Ordering number 8711559...
8	517070 99

Lighting Technology

Fundamentals of Light and Colour

1. Radiation

Radiation is the emission and transmission of energy in the form of electro-magnetic waves of a specific frequency and wavelength. The propagation velocity of the electro-magnetic waves in vacuum is approx. 300,000 km/s independent of the frequency. In radioparent gases, fluids and solid bodies the propagation velocity is always less than in vacuum. Most physical phenomena related to the propagation of radiation can be explained with the theory of electro-magnetic waves. Interactions between matter and radiation though are explained with quantum theory. It states that energy is emitted and absorbed only in elementary quantities by so called quanta or photons. Examples of phenomena taken from quantum theory are photo electric, chemical or biological effects.

2. Optical radiation

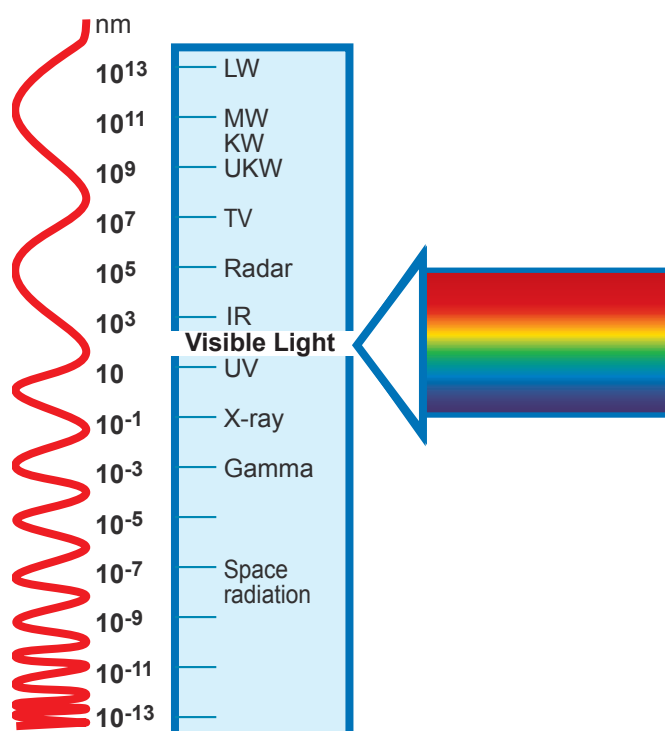
Optical radiation represents a small part of the spectrum of electro-magnetic waves of about 1 nm to 1 mm wavelength. It comprises visible radiation, which stimulates the sensation

of brightness in the eye and is called light as well as the two adjacent kinds of radiation in the spectrum.

These two are ultra-violet radiation (UV) in the direction of shorter wavelengths and infrared radiation (IR) in the direction of longer wavelengths. The behaviour of the various kinds of optical radiation is largely similar, they can all be generated by artificial radiation sources and directed using optical modules. Optical radiation is subdivided as follows, taking into account the fact that the boundaries cannot be clearly defined and that, in the case of light, they depend on the individual person's visual faculties:

Ultra-violet radiation:	Infrared radiation:
UV-C 100 nm – 280 nm	IR-A 780 nm – 1,4 µm
UV-B 280 nm – 315 nm	IR-B 1,4 µm – 3,0 µm
UV-A 315 nm – 380 nm	IR-C 3,0 µm – 1,0 mm
Visible radiation:	
Light 380 nm – 780 nm	

Wavelength and Radiation



UV-C radiation has a bactericide effect and causes erythem (redness of the skin) and conjunctivitis. Radiation with wavelengths under 200 nm generates ozone from oxygen. UV-B radiation causes erythem and generates vitamin D in the body. UV-A radiation tans the skin without causing a sunburn. It stimulates certain substances to generate fluorescence and is therefore used to analyse cheques and bank notes as well as to create decorative effects in advertising. Infrared radiation (IR) is being absorbed by material and transformed into heat especially in the shortwave range.

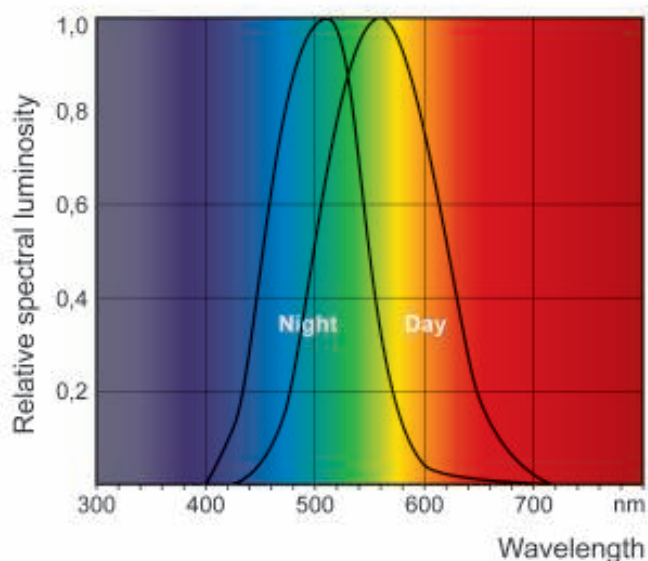
The spectrum of visible radiation (light) can be subdivided into various wavelength ranges, causing certain colour sensations in the human eye:

violet	380 nm – 436 nm	yellow	566 nm – 589 nm
blue	436 nm – 495 nm	orange	589 nm – 627 nm
green	495 nm – 566 nm	red	627 nm – 780 nm

3. Spectral luminosity of the eye

The human eye exhibits various sensitivities to visible radiation depending on its wavelength. Although possessing the same efficiency, a light stimulus of 555 nm e.g. is perceived as much brighter than light stimuli of 400 nm (violet) or 700 nm (red). The CIE has defined the spectral luminosity $V(\lambda)$ for the normal sighted eye in daylight and $V'(\lambda)$ for sight during the night depending on the respective wavelength.

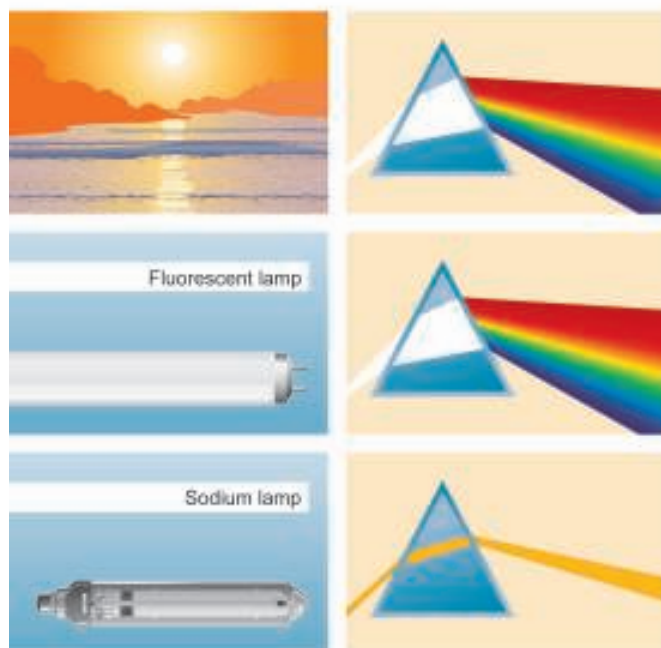
Spectral Luminosity



4. Spectrum

White sunlight is made up of electro-magnetic waves of various lengths. Guiding a narrow beam of sunlight through a glass prism displays a colour spectrum similar to the one we see in a rainbow. During the generation of a rainbow the numerous raindrops in the air act as prisms breaking up the sunlight. Each colour represents a distinctive wavelength. All light waves taken together create the impression of white light.

Light Source and Spectrum



Coloured objects are perceived in their true colour only if the respective colour is present in the spectrum of the light source too. This is the case e.g. with the sun, incandescent and fluorescent lamps with good colour rendering qualities. If the light of a low pressure sodium lamp e.g. is guided through a glass prism though, only yellow radiation can be perceived as the spectrum of this light source lacks all colours except yellow.

5. Fading of materials

Fading of e.g. textiles is an effect of photo chemical processes caused by the absorption of radiation energy. The amount of change in colour depends on the intensity of the illuminance the material is exposed to, the duration of time the material is exposed to the radiation, the temperature and the spectral formation of the radiation; the shorter the wavelength the higher the energy of the radiation. The fading effect can be slowed down by reducing the illuminance, by switching on the light source for short periods of time only, and by using light sources emitting little shortwave radiation.

The fading risk can be calculated using the following formula:

$$FR = 0,02 \times DF \times E \times t$$

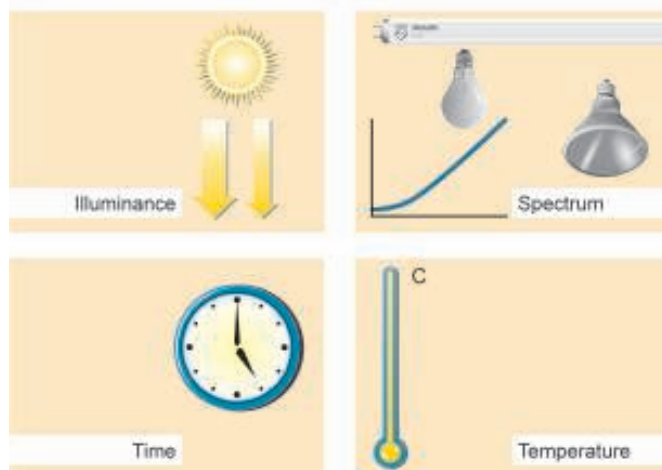
FR = Fading risk DF = Damage factor

E = Illuminance (lx) t = Time (hrs)

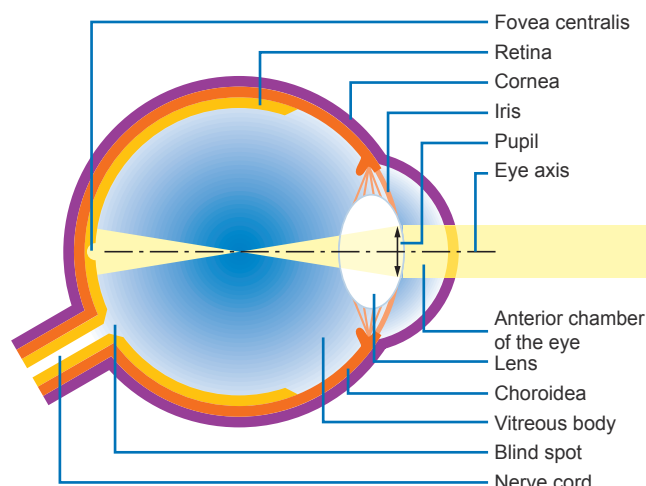
A FR of 100 represents the exposure to light in a shop window during summer with bright sunshine for one hour.

Type of lighting	Damage factor
Daylight through 4 mm window glass	0,43 – 0,68
Incandescent lamps	0,08
Halogen lamps open	0,20
Halogen lamps with envelope or UV block	0,12
SDW-T lamps	0,10
Metal halide lamps open	0,50
Metal halide lamps with envelope	0,25
Light colour fluorescent lamps	
/827	0,20
/830	0,20
/840	0,21
/865	0,26
/930	0,16
/940	0,18
/950	0,26
/33-640	0,27

Fading and Discolouration of materials through light



The Eye — A Camera



6. Black body

The black body is an ideal thermal radiator which absorbs all occurring radiation. It neither transmits nor reflects radiation. Its radiation characteristics are known in detail and can be precisely calculated for all wavelengths and temperatures. The major part of the radiation is emitted in the infrared range. The radiance increases considerably with rising temperatures, causing a shift of the maximum to the shorter wavelengths. Efficient light generation with thermal radiators therefore requires the highest possible temperatures, using materials with high fusion temperatures.

7. The eye

The clear transparent cornea accounts for the major part of the eye's refractive power, making it possible to create an image of the perceived object on the retina. The anterior chamber of the eye gives the lens the required room for accommodation. The iris functions as aperture and the pupil restricts the light incidence. The retina contains the receptors for the light stimulus. These are on the one hand 130 million rods enabling vision even in twilight and at night without colour perception though. On the other hand, the 7 million cones of the retina enable vision in daylight and the perception of colours. The lens' radius of curvature is variable and can thus adapt the eye to the respective distance of vision. At the spot where the nerve cord exits the eye the retina contains neither rods nor cones, it is therefore also called blind spot. At the level of the optical axis there is a high concentration of cones. This designates the area of sharp vision, called fovea centralis.

8. Adaptation

The eye's ability to adjust itself to varying luminances by modifying the pupil's aperture is called adaptation, enabling a constant visual power over a wide range of illuminances. The time sequence of the adaptation depends primarily on the luminance at the beginning and end of the adaptation. If the illuminance changes from light to dark (dark adaptation) the duration of the adaptation is very long (over 30 min.). Light adaptation (from dark to light) is much quicker.

9. Contrast and contrast sensitivity

Objects can be distinguished primarily on the basis of the difference in luminance and colour between the object and its immediate surroundings. Subjective contrast is the evaluation of the difference between two directly consecutive impressions. The objective definition of the luminance contrast L_c is expressed in the following equation:

$$L_c = \frac{L_2 - L_1}{L_1}$$

L_1 = Luminance of the background

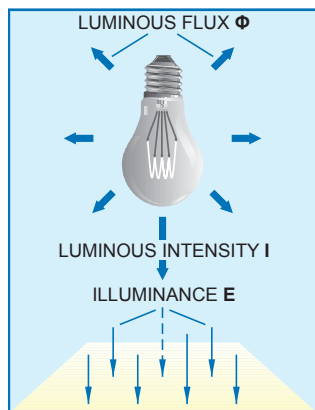
L_2 = Luminance of the object

The contrast sensitivity expresses the least possible luminance contrast the eye can discern. Contrast sensitivity is influenced by the luminance, the adaptation of the eye and other ambient conditions such as glare from light sources in the visual field.

The perception of colour is caused by visible radiation stimulating the receptive system of the eye. The colour stimulus originates either directly from a light source or an object being illuminated or shone through. Object colours are generated by illumination and depend on the respective light's spectrum as well as the object's degree of spectral reflectance. The chromaticity diagram enables the exact determination of each colour utilizing the two colour value coordinates x and y . The diagram was defined by the international lighting commission in 1931. To this end a graph representing the spectrum from 380 nm (violet) to 520 nm (green) and 780 nm (red) was placed in a cross-plot containing x - and y -coordinates. This spectrum locus is being closed by the purple boundary. The chromaticity diagram includes all real colours. Achromatic in the colorimetric sense is situated at the centre of the chromaticity diagram with the chromaticity coordinates $x = y = 0.333$. The graph in the chromaticity diagram contains the temperature values in Kelvin of a black body being heated to the respective temperature (Planck's radiation). The light colours of the various light sources are described by the x - and y -values. The temperature values (colour temperature) designate the light colour of a light source. A light source outside the Planckian locus is described by the most similar colour temperature with the aid of an auxiliary diagram containing lines transverse to the Planckian locus (Judd lines).

Lighting Technology Units and Formulas

1. Variables and units in lighting technology



Variable	Symbol	Unit	Definition
Luminous flux	Φ	Lumen (lm)	The light of a light source
Luminous intensity	I	Candela (cd)	Intensity of the light output in a specific direction (luminous flux/solid angle)
Illuminance	E	Lux (lx)	Luminous flux incident on a surface area divided by the size of the surface area
Luminance	L	cd/m ² cd/cm ²	Luminous intensity of a light emitting surface divided by the size of the perceived surface or: the brightness of a diffuse reflecting surface, determined by multiplying illuminance with reflectance divided by p

2. Operating ratios in lighting technology

Variable	Symbol	Ratio	Definition
Luminous efficacy of a light source	η	$\eta = \frac{\Phi_{Lp}}{P}$	Emitted luminous flux divided by the power input of the lamps
Light output ratio	η_{LB}	$\eta_{LB} = \frac{\Phi_L (t_L)}{\Sigma \Phi_{Lp}}$	Ratio of the total flux of the luminaire, measured under specific practical conditions, to the sum of the individual luminous fluxes of the lamps operating outside the luminaire under specific conditions
Utilance	η_R	$\eta_R = \frac{\Phi_N}{\Sigma \Phi_L}$	Ratio of a lighting installations' luminous flux on the utilized area to the total flux emitted to the room by the luminaires
Utilization factor	η_B	$\eta_B = \frac{\Phi_N}{\Sigma \Phi_{Lp}}$ $\eta_B = \eta_R \cdot \eta_{LB}$	Emitted luminous flux on the utilized area divided by the total flux of all the lamps in a lighting installation

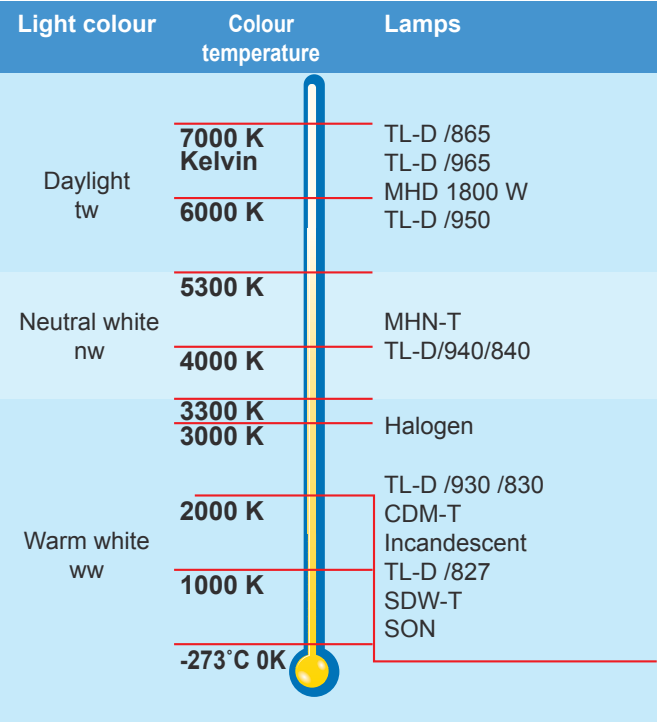
Lighting Technology

Lighting Requirements

1. Light colour

Light colour is a lamp's own colour. The most similar colour temperature (Kelvin) is used to identify the respective light colour. All lamps with a most similar colour temperature of over 5300 K belong to the group of daylight white (tw) light sources, like e.g. daylight white fluorescent lamps. High pressure mercury lamps and "white" fluorescent lamps belong to the group of lamps with neutral white (nw) light colours with colour temperatures between 3300 K and 5300 K. Incandescent lamps and "warm tint" fluorescent lamps belong to the group of lamps with warm white (ww) light colours with a colour temperature under 3300 K.

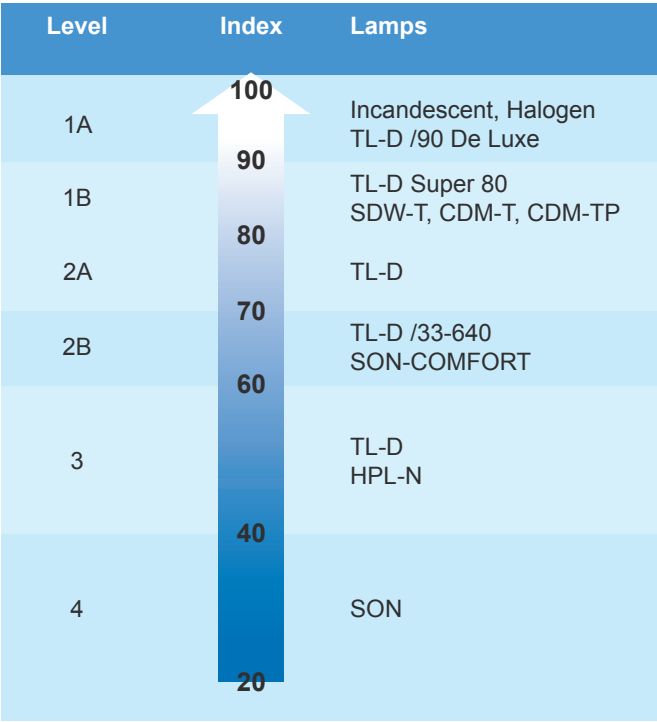
Quality Index — Light Colour



2. Colour rendering

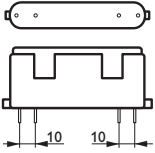
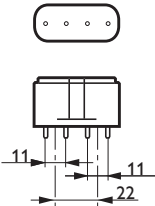
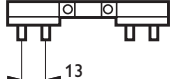
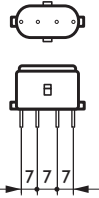
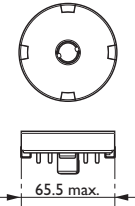
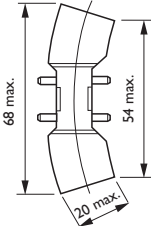
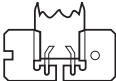
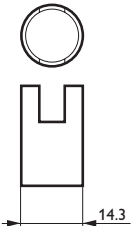
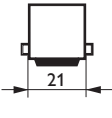
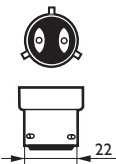
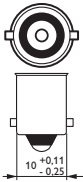
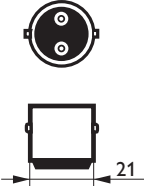
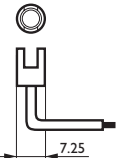
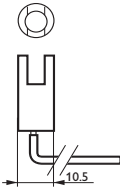
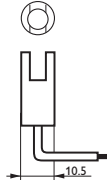
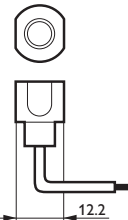
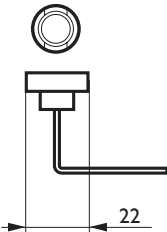
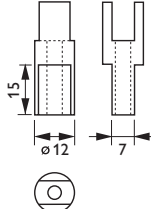
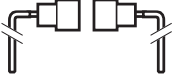
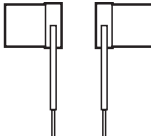
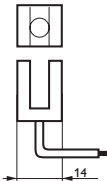
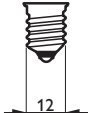
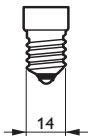
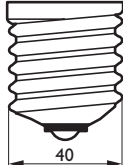
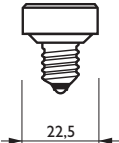
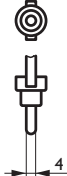
The general colour rendering index R_a , derived from a set of eight test colours taken from everyday life, is used to evaluate the colour rendering characteristics of a lamp. Its theoretical maximum value is 100. The lower the colour rendering index the worse the colour rendering characteristics of the lamp. For practical purposes the colour rendering indices are divided into different levels. DIN EN 12464-1 states six of these levels. Lamps of level 1A are used in applications requiring a colour rendering as close as possible to the natural appearance, e.g. in the printing trade, museums, textile and leather goods shops.

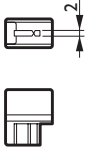
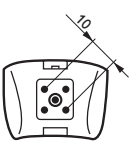
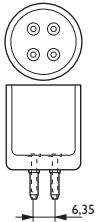
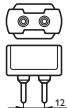
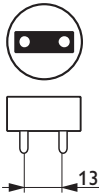
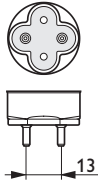
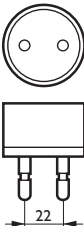
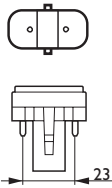
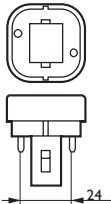
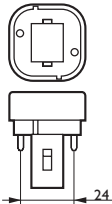
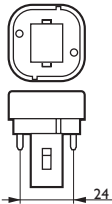
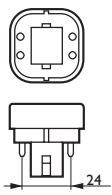
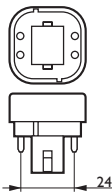
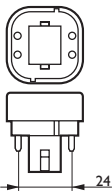
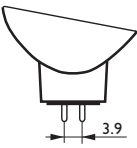
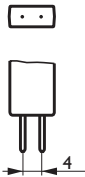
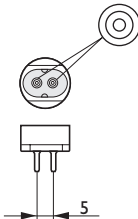
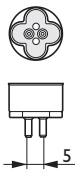
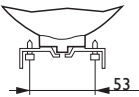
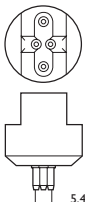
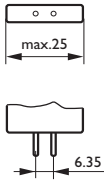
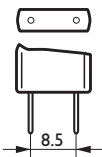
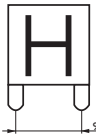
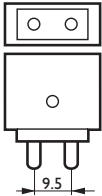
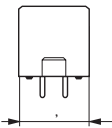
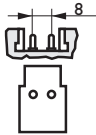
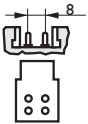
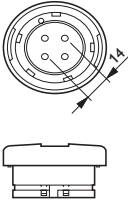
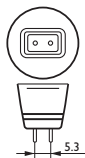
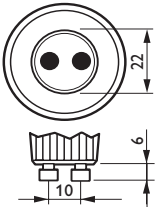
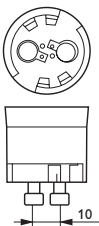
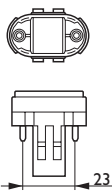
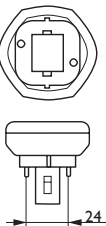
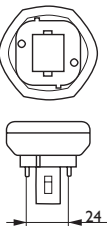
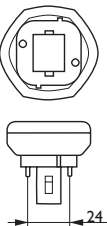
Quality Index — Colour Rendering



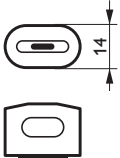
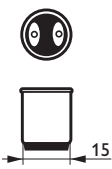
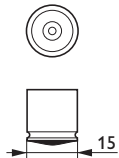
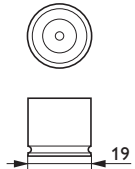
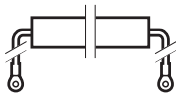
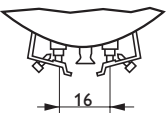
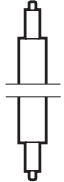
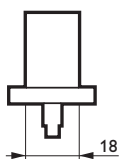
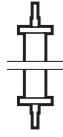
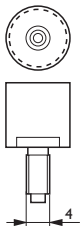
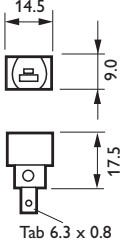
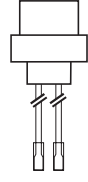
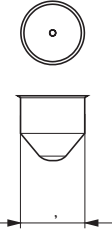
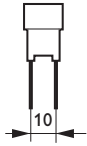
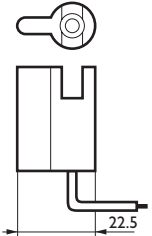
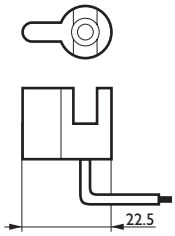
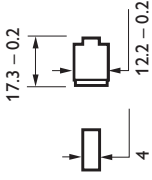
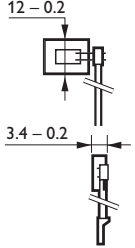
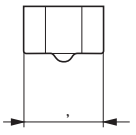
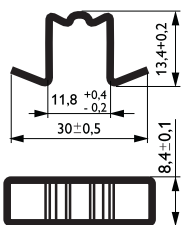
Lamps of level 1B belong to the 3-band fluorescent lamps predominantly installed in administrative buildings, schools, industrial and sports facilities. Lamps of level 2A still have good colour rendering characteristics. Lamps of level 3 are used for applications in heavy industry where colour rendering is not that important. Lamps of colour rendering level 4 are not to be utilized indoors with the exception of high pressure sodium lamps ($R_a=20$) in specific applications. The colour rendering characteristics of the lamps required for the various kinds of rooms and applications are stated in accordance with the levels in DIN EN 12464-1.

Cap-Base Overview

2G10	2G11	2G13	2G7	2G8-1	2GX13	4 Pin Single Ended
						
A26/14	B14.5	B15/B15d	B15s/BA15s	B21s	B22/B22d	B22d-3
						
B9.5	BA9s	BA15d	BA20d	BA20s	BA21d	BY22d
						
C7s/CX7s	C10.5 Cable	C10.5I/C10.5s	C14x	C22	Cable	Cap-Cable
						
Cap-Cable Ring	Ceramic Cap-Cable	Ceramic 15.8X14.7	CU	E10-13	E12	E14
						
E26	E27	E39	E40	EZ10	FA4	FA6
						

FC2	G10q	G10.2q	G12	G13	G13 TL-D Eco	G13 Xtra/Xtreme
						
G22	G23	G24d-1	G24d-2	G24d-3	G24q-1	G24q-2
						
G24q-3	G3.9	G38	G4	G5	G5 Xtra	G5.3
						
G53	G5.3-4.8	G54x17q	G6.35/GX6.35/GY6.35	G8.5	G9	G9.5
						
GQ9.5	GR8	GR10q	GR14q-1	GU4	GU5.3	GU10
						
GX10	GX12-1	GX16d	GX23	GX24d-1	GX24d-2	GX24d-3
						

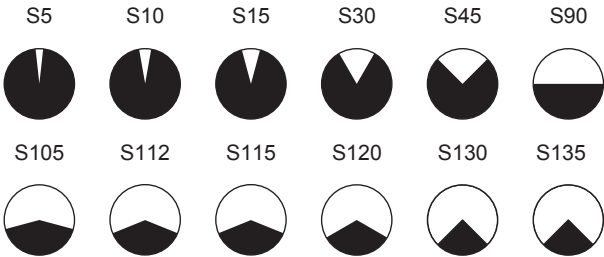
GX24q-1	GX24q-2	GX24q-3	GX24q-4	GX24q-5	GX5	GX7.9
GX8.5	GX9.5	GX95/26	GY16	GY22	GY3.8	GY5.3
GY9.5	GZ4	GZ10	GZ6.35	GZ9.5	GZX/GZY/GZZ 9.5	K12x30s
M4/Multipurpose	P28s	P30s	P32d	P43t.38	PG12-1/PGX12-1	PG12-2/PGX12-2
PG22	PGJ4.1	PGJ5	PGJ5.1/PGJX5.0	PKX22s	(P)SFc	PX22d
PX28s	PY20s	RDC/R17d	R18s	R7s	RX7s	S14d

S14s	S15	S15d	S15s	S19	S19s	S25.5x60mm
						
S30x70/SFA7.5-2	Screw Term	SFA21-12	SFC18.5-6	SFC10.4	SFC10.4-15.8	SFC15.5-6
						
SFC11	Single Pin	SK9	SK15	SK32	SK32 28x42	Special
						
SV8.5	T-Click	THS-L	THS-S	U	V/VB	W21x95d
						
X528	X/X-Clip	Y	Z			
						

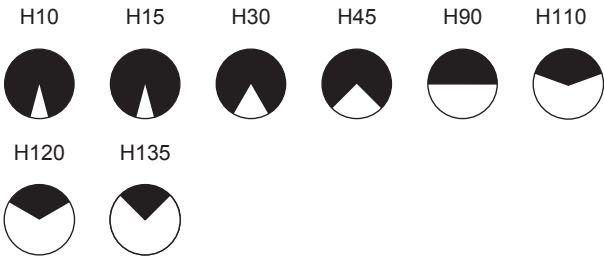
Operating Positions

 permitted  non permitted

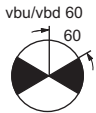
S = vertical (base down)



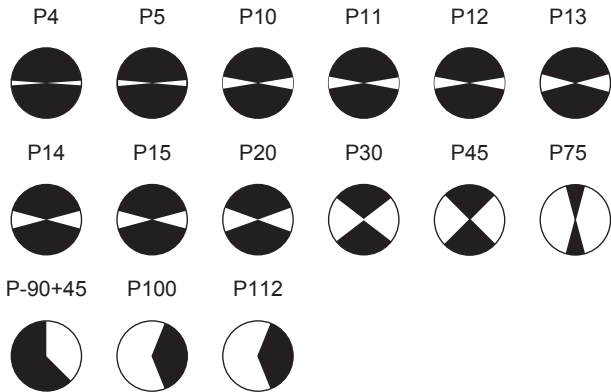
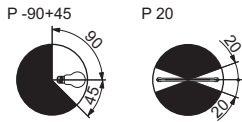
H = vertical (base up)



VBV/VBD = vertical (base up/base down)



P = horizontal



Universal



ILCOS Overview

ILCOS	Commercial product name	Page
FBB-12/27/1b-230/240-B22	Softone ESaver 12W WW BC 230-240V B45	62
FBB-12/27/1b-230/240-B22	Softone ESaver 12W WW BC 230-240V K	62
FBB-12/27/1b-230/240-E14	Softone ESaver 12W WW SES 230-240V B45	62
FBB-12/27/1b-230/240-E27	Softone ESaver 12W WW ES 230-240V B45	62
FBB-5/27/1b-230/240-B22	Softone ESaver 5W WW BC 230-240V K	62
FBB-5/27/1b-230/240-E14	Softone ESaver 5W WW SES 230-240V B38	62
FBB-8/27/1b-230/240-B22	Softone ESaver 8W WW BC 230-240V K	62
FBB-8/27/1b-230/240-E14	Softone ESaver 8W WW SES 230-240V B42	62
FBB-8/27/1b-230/240-E14	Softone ESaver 8W WW SES 230-240V K	62
FBB-8/27/1b-230/240-E27	Softone ESaver 8W WW ES 230-240V K	62
FBG-12/27/1b-230/240-B22	Softone ESaver 12W WW BC 230-240V T60	61
FBG-12/27/1b-230/240-E27	Softone ESaver 12W WW ES 230-240V T60	61
FBG-16/27/1b-230/240-B22	Softone ESaver 16W WW BC 230-240V T60	61
FBG-16/27/1b-230/240-E27	Softone ESaver 16W WW ES 230-240V T60	61
FBG-20/27/1b-230/240-B22	Softone ESaver 20W WW BC 230-240V T65	61
FBG-20/27/1b-230/240-E27	Softone ESaver 20W WW ES 230-240V T65	61
FBG-5/27/1b-230/240-E27	Softone ESaver 5W WW ES 230-240V T60 1PF	61
FBG-7/27/1b-230/240-E14	Softone ESaver 7W WW SES 230-240V T45	61
FBG-8/27/1b-230/240-B22	Softone ESaver 8W WW BC 230-240V T60	61
FBG-8/27/1b-230/240-E27	Softone ESaver 8W WW ES 230-240V T60	61
FBG-9/27/1b-230/240-B22	Nightlight ESaver 9W WW BC 230-240V A65	63
FBT 15/27/1b-230/240-B22	MASTER PL-Electronic 15W/827 BC 230-240V	57
FBT 15/27/1b-230/240-B22	MASTER PL-Electronic 20W/827 BC 230-240V	57
FBT 15/27/1b-230/240-E27	MASTER PL-Electronic 15W/827 ES 230-240V	57
FBT 20/27/1b-230/240-E27	MASTER PL-Electronic 20W/827 ES 230-240V	57
FBT 23/27/1b-230/240-B22	MASTER PL-Electronic 23W/827 BC 230-240V	57
FBT 23/27/1b-230/240-E27	MASTER PL-Electronic 23W/827 ES 230-240V	57
FBT 27/27/1b-230/240-E27	MASTER PL-Electronic 27W/827 ES 230-240V	57
FBT 35/27/1b-230/240-E27	MASTER PL-Electronic 33W/827 ES 230-240V	57
FBT 11/27/1b-230/240-B22	Genie ESaver 11W/827 BC 220-240V	59
FBT 11/27/1b-230/240-E14	MASTER PL-Electronic 11W/827 SES 230-240V	57
FBT 11/27/1b-230/240-E27	Genie ESaver 11W/827 ES 220-240V	59
FBT 11/27/1b-230/240-E27	MASTER PL-Electronic 11W/827 ES 230-240V	57
FBT 14/27/1b-230/240-B22	Genie ESaver 14W/827 BC 220-240V	59
FBT 15/27/1b-230/240-B22	MASTER PL-Electronic Automatic 15W/827 BC	60
FBT 15/27/1b-230/240-E27	MASTER PL-Electronic Automatic 15W/827 ES	60
FBT 15/27/1b-230/240-E27	MASTER PL-Electronic Polar 15W/827 ES	60
FBT 16/27/1b-230/240-B22	PL-Electronic 16W/827 BC 230-240V	58
FBT 18/27/1b-230/240-B22	Genie ESaver 18W/827 BC 220-240V	59
FBT 18/27/1b-230/240-E27	Genie ESaver 18W/827 ES 220-240V	59
FBT 20/27/1b-220/240-E27	PAR38 Downlighter ESaver 20W WW 220-240V	64
FBT 20/27/1b-230/240-E14	Downlighter ESaver 7W WW SES R50	64
FBT 20/27/1b-230/240-E27	MASTER PL-Electronic Polar 20W/827 ES	60
FBT 20/27/1b-230/240-GU10	Downlighter ESaver 7W WW GU10 R50	64
FBT 23/27/1b-230/240-E27	PAR38 Downlighter ESaver 23W WW 220-240V	64
FBT 23/27/1b-230/270-E27	MASTER PL-Electronic Polar 23W/827 ES	60
FBT 5/27/1b-230/240-E14	MASTER PL-Electronic 5W/827 SES 230-240V	57
FBT 5/27/1b-230/240-E27	Genie ESaver 5W/827 ES 220-240V	59
FBT 5/27/1b-230/240-E27	MASTER PL-Electronic 5W/827 ES 230-240V	57
FBT 8/27/1b-230/240-B22	Genie ESaver 8W/827 BC 220-240V	59
FBT 8/27/1b-230/240-B22	MASTER PL-Electronic 8W/827 BC 230-240V	57
FBT 8/27/1b-230/240-B22	PL-Electronic 8W/827 BC 230-240V	58
FBT 8/27/1b-230/240-E14	MASTER PL-Electronic 8W/827 SES 230-240V	57
FBT 8/27/1b-230/240-E27	Genie ESaver 8W/827 ES 220-240V	59
FBT 8/27/1b-230/240-E27	MASTER PL-Electronic 8W/827 ES 230-240V	57
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FD-13/40/1B-E-G5	MASTER TL Mini Super 80 13W/840	51
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FD-15/30/1B-E-G13	MASTER TL-D Super 80 15W/830	30
FD-15/35/3-E-G13	TL-D 15W/35-535	40
FD-15/40/1B-E-G13	MASTER TL-D Super 80 15W/840	30
FD-15/41/2B-E-G13	TL-D 15W/33-640	40
FD-16/30/1B-E-G13-26/604	MASTER TL-D Eco 16W/830	29
FD-16/40/1B-E-G13-26/604	MASTER TL-D Eco 16W/840	29
FD-16/65/1B-E-G13-26/604	MASTER TL-D Eco 16W/865	29
FD-18/170/1B-E-G13	MASTER TL-D ActiViva Active 18W	38
FD-18/27/1B-E-G13	MASTER TL-D Super 80 18W/827	30
FD-18/30/1A-E-G13	MASTER TL-D 90 De Luxe 18W/930 1SL	39
FD-18/30/1B-E-G13	MASTER TL-D Super 80 18W/830	30
FD-18/30/1B-E-G13	MASTER TL-D Xtra 18W/830	33
FD-18/30/1B-E-G13	MASTER TL-D Xtra Polar 18W/830 T12	34
FD-18/30/1B-E-G13	MASTER TL-D Xtra Secura 18W/830	35
FD-18/30/1B-E-G13	MASTER TL-D Xtreme 18W/830	36
FD-18/30/1B-E-G13	MASTER TL-D Xtreme Polar 18W/830	37
FD-18/30/1B-E-G13	MASTER TL-D Xtreme Secura 18W/830	38
FD-18/35/1B-E-G13	MASTER TL-D Super 80 18W/835	30
FD-18/35/3-E-G13	TL-D 18W/35-535	40
FD-18/35/3-E-G13	TL-D 18W/35-535 OEM	40
FD-18/38/1A-E-G13	MASTER TL-D 90 De Luxe 18W/940 1SL	39
FD-18/40/1B-E-G13	MASTER TL-D Secura 18W/840	31
FD-18/40/1B-E-G13	MASTER TL-D Super 80 18W/840	30
FD-18/40/1B-E-G13	MASTER TL-D Xtra 18W/840	33
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FD-18/40/1B-E-G13	MASTER TL-D Xtra Polar 18W/840 T12	34
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FD-18/40/1B-E-G13	MASTER TL-D Xtreme Secura 18W/840	38
FD-18/41/2B-E-G13	TL-D 18W/33-640	40
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More data see next column

(continued)

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FD-18/65/1A-E-G13	MASTER TL-D 90 Graphica 18W/965	40
FD-18/65/1B-E-G13	MASTER TL-D Super 80 18W/865	30
FD-18/65/1B-E-G13	MASTER TL-D Xtreme 18W/865	36
FD-18/80/1B-E-G13	MASTER TL-D ActiViva Natural 18W	38
FD-20/41/2B-LC/N-Fa6	TL-X XL 20W/33-640	50
FD-23/40/1B-E-G13	MASTER TL-D Super 80 23W/840	30
FD-30/30/1B-E-G13	MASTER TL-D Super 80 30W/830	30
FD-30/30/1B-E-G13	MASTER TL-D Xtra 30W/830	33
FD-30/30/1B-E-G13	MASTER TL-D Xtra Secura 30W/830	35
FD-30/35/3-E-G13	TL-D 30W/35-535	40
FD-30/40/1B-E-G13	MASTER TL-D Super 80 30W/840	30
FD-30/40/1B-E-G13	MASTER TL-D Xtra 30W/840	33
FD-30/40/1B-E-G13	MASTER TL-D Xtra Secura 30W/840	35
FD-30/41/2B-E-G13	TL-D 30W/33-640	40
FD-32/30/1B-E-G13-26/1200	MASTER TL-D Eco 32W/830	29
FD-32/40/1B-E-G13-26/1200	MASTER TL-D Eco 32W/840	29
FD-32/65/1B-E-G13-26/1200	MASTER TL-D Eco 32W/865	29
FD-36/170/1B-E-G13	MASTER TL-D ActiViva Active 36W	38
FD-36/27/1B-E-G13	MASTER TL-D Super 80 36W/827	30
FD-36/30/1A-E-G13	MASTER TL-D 90 De Luxe 36W/930 1SL	39
FD-36/30/1B-E-G13	MASTER TL-D Super 80 1m 36W/830	30
FD-36/30/1B-E-G13	MASTER TL-D Super 80 36W/830	30
FD-36/30/1B-E-G13	MASTER TL-D Xtra 36W/830	33
FD-36/30/1B-E-G13	MASTER TL-D Xtra Polar 36W/830 T12	34
FD-36/30/1B-E-G13	MASTER TL-D Xtra Secura 36W/830	35
FD-36/30/1B-E-G13	MASTER TL-D Xtreme 36W/830	36
FD-36/30/1B-E-G13	MASTER TL-D Xtreme Polar 36W/830	37
FD-36/30/1B-E-G13	MASTER TL-D Xtreme Secura 36W/830	38
FD-36/35/1B-E-G13	MASTER TL-D Super 80 36W/835	30
FD-36/35/3-E-G13	TL-D 36W/35-535	40
FD-36/35/3-E-G13	TL-D 36W/35-535 OEM	40
FD-36/38/1A-E-G13	MASTER TL-D 90 De Luxe 36W/940 1SL	39
FD-36/40/1B-E-G13	MASTER TL-D Secura 36W/840	31
FD-36/40/1B-E-G13	MASTER TL-D Super 80 1m 36W/840	30
FD-36/40/1B-E-G13	MASTER TL-D Super 80 36W/840	30
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FDH-49/30/1B-L/P-G5-16/1450	MASTER TL5 HO Xtra 49W/830	46
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FDH-49/65/1B-L/P-G5-16/1450	MASTER TL5 HO 49W/865	44
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FDH-80/40/1B-L/P-G5-16/1450	MASTER TL5 HO TOP 80W/840	47
FDH-80/40/1B-L/P-G5-16/1450	MASTER TL5 HO Xtra 80W/840	46
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FSM-18/27/1B-E-GX24q=2	MASTER PL-T 18W/827/4P	74
FSM-18/27/1B-I-GX24d=2	MASTER PL-T 18W/827/2P	73
FSM-18/30/1B-E-GX24q=2	MASTER PL-T 18W/830/4P	74
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FSM-18/30/1B-I-GX24d=2	MASTER PL-T 18W/830/2P	73
FSM-18/40/1B-E-GX24q=2	MASTER PL-T 18W/840/4P	74
FSM-18/40/1B-E-GX24q=2	MASTER PL-T TOP 18W/840/4P	75
FSM-18/40/1B-I-GX24d=2	MASTER PL-T 18W/840/2P	73
FSM-26/27/1B-E-GX24q=3	MASTER PL-T 26W/827/4P	74
FSM-26/27/1B-I-GX24d=3	MASTER PL-T 26W/827/2P	73
FSM-26/30/1B-E-GX24q=3	MASTER PL-T 26W/830/4P	74
FSM-26/30/1B-E-GX24q=3	MASTER PL-T TOP 26W/830/4P	75
FSM-26/30/1B-I-GX24d=3	MASTER PL-T 26W/830/2P	73
FSM-26/40/1B-E-GX24q=3	MASTER PL-T 26W/840/4P	74
FSM-26/40/1B-E-GX24q=3	MASTER PL-T TOP 26W/840/4P	75
FSM-26/40/1B-I-GX24d=3	MASTER PL-T 26W/840/2P	73
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FSM6H-14/40/1B-L-P-GR14q=1	MASTER PL-R Eco 14W/840/4P	67
FSM6H-17/30/1B-L-P-GR14q=1	MASTER PL-R Eco 17W/830/4P	67
FSM6H-17/40/1B-L-P-GR14q=1	MASTER PL-R Eco 17W/840/4P	67
FSM6H-57/27/1B-L-P-GX24q=5	MASTER PL-T 57W/827/4P	74
FSM6H-57/27/1B-L-P-GX24q=5	MASTER PL-T TOP 57W/827/4P	75
FSM6H-57/30/1B-L-P-GX24q=5	MASTER PL-T 57W/830/4P	74
FSM6H-57/30/1B-L-P-GX24q=5	MASTER PL-T TOP 57W/830/4P	75
FSM6H-57/30/1B-L-P-GX24q=5	MASTER PL-T Xtra 57W/830/4P	76
FSM6H-57/40/1B-L-P-GX24q=5	MASTER PL-T 57W/840/4P	74
FSM6H-57/40/1B-L-P-GX24q=5	MASTER PL-T TOP 57W/840/4P	75
FSM6H-60/30/1B-L-P-2G8=1	MASTER PL-H 60W/830/4P	80
FSM6H-60/40/1B-L-P-2G8=1	MASTER PL-H 60W/840/4P	80
FSM6H-85/30/1B-L-P-2G8=1	MASTER PL-H 85W/830/4P	80
FSM6H-85/40/1B-L-P-2G8=1	MASTER PL-H 85W/840/4P	80
FSMH-32/27/1B-L-P-GX24q=3	MASTER PL-T 32W/827/4P	74
FSMH-32/27/1B-L-P-GX24q=3	MASTER PL-T TOP 32W/827/4P	75
FSMH-32/30/1B-L-P-GX24q=3	MASTER PL-T 32W/830/4P	74
FSMH-32/30/1B-L-P-GX24q=3	MASTER PL-T TOP 32W/830/4P	75
FSMH-32/30/1B-L-P-GX24q=3	MASTER PL-T Xtra 32W/830/4P	76
FSMH-32/40/1B-L-P-GX24q=3	MASTER PL-T 32W/840/4P	74
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FSMH-42/30/1B-L-P-GX24q=4	MASTER PL-T 42W/830/4P	74
FSMH-42/30/1B-L-P-GX24q=4	MASTER PL-T TOP 42W/830/4P	75
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FSQ-13/40/1B-E-G24q=1	MASTER PL-C 13W/840/4P	71
FSQ-13/40/1B-I-G24d=1	MASTER PL-C 13W/840/2P	70
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FSQ-18/30/1B-E-G24q=2	MASTER PL-C 18W/830/4P	71
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FSQ-18/30/1B-I-G24d=2	MASTER PL-C 18W/830/2P	70
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FSQ-26/30/1B-I-G24d=3	MASTER PL-C Xtra 26W/830/2P	72
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FSQ-26/40/1B-E-G24q=3	MASTER PL-C Xtra 26W/840/4P	73
FSQ-26/40/1B-I-G24d=3	MASTER PL-C 26W/840/2P	70
FSQ-26/40/1B-I-G24d=3	MASTER PL-C Xtra 26W/840/2P	72
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FSS-38/30/1B-E-GR10q	PL-Q 38W/830/4P	81
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HAGS-35-230-GU10-51/20	Halogen Twist 2yr 50W GZ10 240V 40D	143
HAGS-35-230-GU10-51/20	Twistline Alu 2000h 50W GU10 240V 20D	142
HAGS-35-240-GU10-51/40	Twistline Alu 2000h 50W GU10 240V 40D	142
HAGS-50-12-GU5.3-50/36	Brilliantline Alu 50W GU5.3 12V MR16 36D	132
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HDG//RS-500-120-R7s-114,2	Plusline Small 500W R7s 120V	152
HDG//RS-500-240-R7s-114,2	Plusline Small 500W R7s 240V	152
HDG//RS-750-240-R7s-185,7	Plusline Large 750W R7s 240V	153
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HEGPAR-50-230-E27-63/10	HalogenA PAR20 50W ES 240V 10D	144
HEGPAR-50-230-E27-63/10	HalogenA PAR20 50W ES 240V 25D	144
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HRGI-35-12-GU5.3-35/36	Accentline 35W GU5.3 12V 36D	133
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HRGI-50-12-GU5.3-35/36	Halogen Dichroic 2yr 35W GU5.3 12V 36D	135
HRGI-50-12-GU5.3-50/10	Accentline 50W GU5.3 12V 10D	133
HRGI-50-12-GU5.3-50/24	Accentline 50W GU5.3 12V 24D	133
HRGI-50-12-GU5.3-50/36	Accentline 50W GU5.3 12V 36D	133
HRGI-50-12-GU5.3-50/36	Halogen Dichroic 2yr 50W GU5.3 12V	135
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HRGS-30-12-GU5.3-50/36	MASTERLine ES 30W GU5.3 12V 36D	130
HRGS-30-12-GU5.3-50/60	MASTERLine ES 30W GU5.3 12V 60D	130
HRGS-30-12-GU5.3-50/8	MASTERLine ES 30W GU5.3 12V 8D	130
HRGS-35-12-GU4-35/10	Brilliantline Dichroic 35W GU4 12V MR11 10D	132
HRGS-35-12-GU4-35/30	Brilliantline Dichroic 35W GU4 12V MR11 30D	132
HRGS-35-12-GU5.3-50/10	Brilliantline Dichroic 35W GU5.3 12V MR16 10D	132
HRGS-35-12-GU5.3-50/24	Brilliantline Dichroic 35W GU5.3 12V MR16 24D	132
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MRS/UB-35/30/1B-H-GX8.5	MASTERCcolour CDM-R111 35W/830 GX8.5 24D	90
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MRS/UB-70/30/1B-H-GX8.5	MASTERCcolour CDM-R111 70W/830 GX8.5 24D	90
MRS/UB-70/30/1B-H-GX8.5	MASTERCcolour CDM-R111 70W/830 GX8.5 40D	90
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MRS/UB-70/42/1A-H-E27	MASTERCcolour CDM-R 70W/942 ES PAR30L 30D	91
MRS/UB-70/42/1A-H-E27	MASTERCcolour CDM-R 70W/942 ES PAR30L 40D	91
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MT-150/28/1B-H-E40	MASTER CityWhite CDO-TT 150W/828 GES	102
MT-150/30/1A-H-G12	MASTERCcolour CDM-T Elite 150W/930 G12	85
MT-150/30/1B-H-G12	MASTERCcolour CDM-T 150W/830 G12	87
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MT-2000/46/2B-H-E40-/H	HPI-T 2000W/646 GES 220V	110
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MT-70/30/1A-H-G12	MASTERCcolour CDM-T Elite 70W/930 G12	85
MT-70/30/1B-H-G12	MASTERCcolour CDM-T 70W/830 G12	87
MT-70/30/1B-H-G8.5	MASTERCcolour CDM-TC 70W/830 G8.5	88
MT-70/30/1B-H-G8.5	MASTERCcolour CDM-TC Elite 70W/930 G8.5	85
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1000MHNLA842	MASTER MHN-LA 1000W/842 230V XWH UNP 1	108
1000MHNLA956	MASTER MHN-LA 1000W/956 230V XWH UNP 1	108
1000SON	SON 1000W/220 E40 1SL 6	106
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100ESR80BZP	Reflector 100W E27 240V E80 80D 1BL 10	187
100ESR80SPBZP	Reflector 100W E27 240V NR80 25D 1BL 10	187
100ESR80SPZP	Reflector 100W E27 240V NR80 25D 1CT 30	187
100ESR80ZP	Reflector 100W E27 240V E80 80D 1CT 30	187
100ESR95SPP	Reflector 100W E27 240V NR95 20D 1CT 30	187
100SDWT	MASTER SDW-T 100W/825 PG12-1 1SL 12	93
100SDWTG	MASTER SDW-TG Mini 100W/825 GX12-1 1CT 12	93
100SON	SON 100W/220 E40 1SL 12	106
100SONPLUS	MASTER SON PIA Plus 100W/220 E40 1SL 12	104
100SONT	SON-T 100W/220 E40 1SL 12	106
100SONTPLUS	MASTER SON-T PIA Plus 100W/220 E40 1SL 12	104
105BCECO30CL1CT	EcoClassic30 105W B22 240V A60 CL 1CT 10	148
105ESEC030CL1CT	EcoClassic30 105W E27 240V A60 CL 1CT 10	148
105ESEC030FR1CT	EcoClassic30 105W E27 240V A60 FR 1CT 10	148
10PLC8272PIN	MASTER PL-C 10W/827/2P 1CT 5X10CC	70
10PLC8274PIN	MASTER PL-C 10W/827/4P 1CT 5X10CC	71
10PLC8302PIN	MASTER PL-C 10W/830/2P 1CT 5X10CC	70
10PLC8304PIN	MASTER PL-C 10W/830/4P 1CT 5X10CC	71
10PLC8402PIN	MASTER PL-C 10W/840/2P 1CT 5X10CC	70
10PLC8404PIN	MASTER PL-C 10W/840/4P 1CT 5X10CC	71
110100BC2PCP	Standard 100W B22 125-130V A55 FR 2CT 12X5F	177
110100ES2PCP	Standard 100W E27 125-130V A55 FR 2CT 12X5F	177
11060BC2PCP	Standard 60W B22 125-130V A55 FR 2CT 12X5F	177
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110SONH	SON H 110W/220 E27 220V SLV 1SL 24	107
115120ESPAR38	PAR38 120W E27 115V SP 12D 1CT 12	187
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11BCGENIE8Y40W	Genie ESaver 11W/827 B22 220-240V 1CT 40	59
11ESGENIE8Y	Genie ESaver 11W/827 E27 220-240V 1PH 6	59
11ESGENIE8Y40W	Genie ESaver 11W/827 E27 220-240V 1CT 40	59
11ESPLE	MASTER PL-Electronic 11W/827 E27 230-240V 1CT 10BOX	57
11ESR63REFL1P	Downlighter ESaver 11W WW E27 1CT 6	64
11PLS8272PINB	MASTER PL-S 11W/827/2P 1CT 5X10CC	68
11PLS8274PINB	MASTER PL-S 11W/827/4P 1CT 5X10CC	69
11PLS8402PINB	MASTER PL-S 11W/840/2P 1CT 5X10CC	68
11PLS8404PINB	MASTER PL-S 11W/840/4P 1CT 5X10CC	69
11ESPLE	MASTER PL-Electronic 11W/827 E14 230-240V 1CT 10BOX	57
12058	Traffic Halogen 12058 50W GY6.35 12V 1CT 10X10F	174
12060BCRSP1PCP	Reinforced Construction 60W B22 120V A60 FR 1CT 20	182
120830VHO	MASTER TL5 VHO TOP 120W/830 1SL 20	47
120830VHOIP	MASTER TL5 VHO TOP 120W/830 UNP 40	47
120840VHO	MASTER TL5 VHO TOP 120W/840 1SL 20	47
120840VHOIP	MASTER TL5 VHO TOP 120W/840 UNP 40	47
120ESPAR38FLZ	PAR38 120W E27 240V FL 30D 1CT 6	187
120ESPAR38Z	PAR38 120W E27 240V SP 12D 1CT 6	187
120K1	Plusline Small 500W R7s 120V 1BB 10X10BOX	152
120K4	Plusline Large 1000W R7s 120V 1CT 10	153
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125ESHPLN	HPL-N 125W/542 E27 SG SLV 24	113
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125HPLCOM	HPL Comfort 125W/534 E27 SG SLV 24	112
12BCCANDLE8Y	Softone ESaver 12W WW B22 230-240V K 1PP 6	62
12BCSOFT8Y	Softone ESaver 12W WW B22 230-240V T60 1PH 6	61
12ESSOFT8Y	Softone ESaver 12W WW E27 230-240V T60 1PH 6	61
12ESCCANDLEB45	Softone ESaver 12W WW E14 230-240V B45 1PF 10	62
13078	Capsuleline 20W G4 12V CL 4000h 1CT 10X10F	139
13089	Capsuleline 100W GY6.35 24V CL 3000h 1CT 10X10F	139
13090	Capsuleline 50W GY6.35 24V CL 4000h 1CT 10X10F	139
13091	Capsuleline 20W G4 24V CL 4000h 1CT 10X10F	139
13100	Capsuleline 100W GY6.35 12V CL 4000h 1CT 10X10F	139
13101	Capsuleline 75W GY6.35 12V CL 4000h 1CT 10X10F	139
13102	Capsuleline 50W GY6.35 12V CL 4000h 1CT 10X10F	139
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13117	13117 150W GX5.3 17V 1CT 10X5F	136
13139	13139 75W G26.35 12V 1CT 10X5F	136
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13195Z98	13195Z/98 1000W 220-250V REFL UNP 10	171
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13230X98	13230X/98 3000W 380-420V REFL UNP 10	171
13245X98	13245X/98 2000W 400V REFL UNP 10	171
13284Q	Capsuleline 10W G4 12V CL 4000h 1CT 10X10F	139
1333	TL Mini 13W/33-640 1FM 10X25CC	51
1335	TL Mini 13W/35-535 1FM 10X25CC	51
13289	13289 50W GX5.3 13.8V 1CT 10X5F	137
13528	13528 15W G24 6V 1CT 10X5F	135
13561Y00	13561Y/00 1200W 144V CL 1CT 10	171
13568Y00	13568Y/00 1600W 144V CL 1CT 10	171
135SOXPLUS	SOX Plus 135W BY22d 1SL 12	112
13713X	13713X 1000W 235V CL UNP 10	171
13713X98	13713X/98 1000W 235V REFL UNP 10	171
13713Z98	13713Z/98 1000W 235V REFL UNP 10	171
13765X	13765X 2000W 400V CL UNP 10	171
1384	MASTER TL Mini Super 80 13W/840 1FM 10X25CC	51
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13908R	13908R 300W 230V CL 1CT 10	171
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13PLC8272PIN	MASTER PL-C 13W/827/2P 1CT 5X10CC	70
13PLC8274PIN	MASTER PL-C 13W/827/4P 1CT 5X10CC	71
13PLC8302PIN	MASTER PL-C 13W/830/2P 1CT 5X10CC	70
13PLC8304PIN	MASTER PL-C 13W/830/4P 1CT 5X10CC	71
13PLC8402PIN	MASTER PL-C 13W/840/2P 1CT 5X10CC	70
13PLC8404PIN	MASTER PL-C 13W/840/4P 1CT 5X10CC	71
13PLT8272PINCS	MASTER PL-T 13W/827/2P 1CT 5X10CC	73
13PLT8274PINCS	MASTER PL-T 13W/827/4P 1CT 5X10CC	74
13PLT8302PINCS	MASTER PL-T 13W/830/2P 1CT 5X10CC	73
13PLT8304PINCS	MASTER PL-T 13W/830/4P 1CT 5X10CC	74
13PLT8402PINCS	MASTER PL-T 13W/840/2P 1CT 5X10CC	73
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140ESEC030FR1CT	EcoClassic30 140W E27 240V A60 FR 1CT 10	148
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14565	Capsuleline 10W G4 12V CL 2000h 1CT 10X10F	139
14566	Capsuleline 20W G4 12V CL 2000h 1CT 10X10F	139
14567	Capsuleline 50W GY6.35 12V CL 2000h 1CT 10X10F	139
14578	MASTERLine ES 20W GU5.3 12V 8D 1CT 4X5F	130
14579	MASTERLine ES 20W GU5.3 12V 36D 1CT 4X5F	130
14580	MASTERLine ES 30W GU5.3 12V 8D 1CT 4X5F	130
14581	MASTERLine ES 30W GU5.3 12V 24D 1CT 4X5F	130
14582	MASTERLine ES 30W GU5.3 12V 36D 1CT 4X5F	130
14583	MASTERLine ES 30W GU5.3 12V 60D 1CT 4X5F	130
14584	MASTERLine ES 35W GU5.3 12V 8D 1CT 4X5F	130
14585	MASTERLine ES 35W GU5.3 12V 24D 1CT 4X5F	130
14586	MASTERLine ES 35W GU5.3 12V 36D 1CT 4X5F	130
14587	MASTERLine ES 35W GU5.3 12V 60D 1CT 4X5F	130
14588	MASTERLine ES 45W GU5.3 12V 8D 1CT 4X5F	130
14589	MASTERLine ES 45W GU5.3 12V 24D 1CT 4X5F	130
14590	MASTERLine ES 45W GU5.3 12V 36D 1CT 4X5F	130
14591	MASTERLine ES 45W GU5.3 12V 60D 1CT 4X5F	130
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14635	Aluline 111 50W G53 12V 24D 1CT 6X1F	134
14641	Aluline 111 75W G53 12V 8D 1CT 6X1F	134
14642	Aluline 111 75W G53 12V 24D 1CT 6X1F	134
14643	Aluline 111 75W G53 12V 45D 1CT 6X1F	134
14644	Aluline 111 100W G53 12V 8D 1CT 6X1F	134
14645	Aluline 111 100W G53 12V 24D 1CT 6X1F	134
14646	Aluline 111 100W G53 12V 45D 1CT 6X1F	134
14656	Diamondline 35W 4100K GU5.3 12V 10D 1CT 10X5F	133
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14668	Diamondline 50W 4100K GU5.3 12V 10D 1CT 10X5F	133
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14835IP	MASTER TL5 HE 14W/835 UNP 40	42
14840	MASTER TL5 HE 14W/840 1SL 40	42
14840IP	MASTER TL5 HE 14W/840 UNP 40	42
14840TL5SEC	MASTER TL5 HE Secura 14W/840 UNP 40	43
14865	MASTER TL5 HE 14W/865 1SL 40	42
14865IP	MASTER TL5 HE 14W/865 UNP 40	42
14880ACTIVIVA	MASTER TL5 HE ActiViva Natural 14W 1SL 40	48
14BCGENIE8Y40W	Genie ESaver 14W/827 B22 220-240V 1CT 40	59
14PLR830ECO	MASTER PL-R Eco 14W/830/4P 1CT 5X10CC	67
15004Z	15004Z 1500W 235V UNP 10	170
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150CDMT830	MASTERCoulour CDM-T 150W/830 G12 1CT 12	87
150CDMT830MP	MASTERCoulour CDM-T 150W/830 G12 1CT 12	87
150CDMT942	MASTERCoulour CDM-T 150W/942 G12 1CT 12	87
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150CDMTD942	MASTERCoulour CDM-TD 150W/942 RX7s 1CT 12	89
150CDMTLITE930	MASTERCoulour CDM-T Elite 150W/930 G12 1CT 12	85
150CDMTP830	MASTERCoulour CDM-TP 150W/830 PGX12-2 1CT 12	89
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150SONCOM	SON Comfort 150W/621 E40 1SL 12	107
150SONPLUS	MASTER SON PIA Plus 150W/220 E40 1SL 12	104
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15BCBLUEP	Party 15W B22 220-240V A55 BL 1CT 15	183
15BCGREENP	Party 15W B22 220-240V A55 GR 1CT 15	183
15BCPLE	MASTER PL-Electronic 15W/827 B22 230-240V 1CT 6	57
15BCREDP	Party 15W B22 220-240V A55 RE 1CT 15	183
15BCYELLOWP	Party 15W B22 220-240V A55 YE 1CT 15	183
15ESBLUEP	Party 15W E27 220-240V A55 BL 1CT 15	183
15ESGREENP	Party 15W E27 220-240V A55 GR 1CT 15	183
15ESPLE	MASTER PL-Electronic 15W/827 E27 230-240V 1CT 6	57
15ESSIZP	Deco 15W E27 240V T29 CL 1CT 10X10F	181
15ESSOZP	Appliance 15W E14 230-240V T22 CL OV 1CT 10X10F	184
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16840	MASTER TL-D HF Super 80 16W/840 1SL 25	32
16840TLDECO	MASTER TL-D Eco 16W/840 1SL 25	29
16865TLDECO	MASTER TL-D Eco 16W/865 1SL 25	29
16BCPLEUPRO	PL-Electronic 16W/827 B22 230-240V 1CT 15	58
16BCSOFT8Y	Softone ESaver 16W WW B22 230-240V T60 1PH 6	61
16ESSOFT8Y	Softone ESaver 16W WW E27 230-240V T60 1PH 6	61
16ESSOFT8Y40W	Softone ESaver 16W WW E27 230-240V T60 1PH 40	61
16PLQ8272PIN	PL-Q 16W/827/2P 1CT 10	80
16PLQ8274PIN	PL-Q 16W/827/4P 1CT 10	81
16PLQ8302PIN	PL-Q 16W/830/2P 1CT 10	80
16PLQ8304PIN	PL-Q 16W/830/4P 1CT 10	81
16PLQ8352PIN	PL-Q 16W/835/2P 1CT 10	80
16PLQ8354PIN	PL-Q 16W/835/4P 1CT 10	81
1800MHNSA956	MASTER MHN-SA 1800W/956 (P)SFC 230V UNP 1	108
1800MHNSA956R	MASTER MHN-SA 1800W/956 230V XW UNP 1	108
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1833	TL-D 18W/33-640 1SL 25	40
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18032	Twistline Alu 3000h 50W GU10 240V 50D 1CT 10X5F	141
18034	Twistline Dichroic 3000h 50W GZ10 240V 25D 1CT 10X5F	142
18036	Twistline Dichroic 3000h 50W GZ10 240V 50D 1CT 10X5F	142
18042	Twistline Alu 2000h 35W GU10 240V 40D 1CT 50	142
18045	Twistline Alu 2000h 50W GU10 240V 40D 1CT 10X5F	142
18073	Twistline Alu 2000h 50W GU10 240V 20D 1CT 10X5F	142
18075	Halogen Twist 2yr 50W GZ10 240V 40D 1CT 10X5F	143
18078	Halogen Twist 2yr 50W GZ10 240V 20D 1CT 10X5F	143
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18162	MASTERCapsule 45W GY6.35 12V IR 1CT 5X10F	138
18163	MASTERCapsule 60W GY6.35 12V IR 1CT 5X10F	138
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18830	MASTER TL-D Super 80 18W/830 1SL 25	30
18830IP	MASTER TL-D Super 80 18W/830 UNP 25	30
18830R	MASTER TL-D Reflex 18W/830 1SL 25	32
18830XTRA	MASTER TL-D Xtra 18W/830 1SL 25	33
18830XTRAPOLAR	MASTER TL-D Xtra Polar 18W/830 T12 1SL 10	34
18830XTRASEC	MASTER TL-D Xtra Secura 18W/830 1SL 25	35
18830XTREME	MASTER TL-D Xtreme 18W/830 1SL 25	36
18830XTREMESEC	MASTER TL-D Xtreme Secura 18W/830 1SL 25	38
18830XTREMEPOLAR	MASTER TL-D Xtreme Polar 18W/830 1SL 10	37
18835	MASTER TL-D Super 80 18W/835 1SL 25	30
18840	MASTER TL-D Super 80 18W/840 1SL 25	30
18840BSEC	MASTER TL-D Secura 18W/840 1SL 25	31
18840IP	MASTER TL-D Super 80 18W/840 UNP 25	30
18840R	MASTER TL-D Reflex 18W/840 1SL 25	32
18840XTRA	MASTER TL-D Xtra 18W/840 1SL 25	33
18840XTRAPOLAR	MASTER TL-D Xtra Polar 18W/840 T12 1SL 10	34
18840XTRASEC	MASTER TL-D Xtra Secura 18W/840 1SL 25	35
18840XTREME	MASTER TL-D Xtreme 18W/840 1SL 25	36
18840XTREMESEC	MASTER TL-D Xtreme Secura 18W/840 1SL 25	38
18840XTREMEPOLAR	MASTER TL-D Xtreme Polar 18W/840 1SL 10	37
18865	MASTER TL-D Super 80 18W/865 1SL 25	30
18865RFECO	MASTER TL-D Reflex 18W/865 1SL 25	32
18865XTRA	MASTER TL-D Xtra 18W/865 1SL 25	33
18865XTREME	MASTER TL-D Xtreme 18W/865 1SL 25	36
18880ACTIVIVA	MASTER TL-D ActiViva Natural 18W 1SL 25	38
18930DLP	MASTER TL-D 90 De Luxe 18W/930 1SL SLV 10	39
18940DLP	MASTER TL-D 90 De Luxe 18W/940 1SL SLV 10	39
18950DLP	MASTER TL-D 90 De Luxe 18W/950 1SL SLV 10	39
18950GP	MASTER TL-D 90 Graphica 18W/950 1SL 10	40
18965DLP	MASTER TL-D 90 De Luxe 18W/965 1SL SLV 10	39
18965GP	MASTER TL-D 90 Graphica 18W/965 1SL 10	40
18BCGENIE8Y	Genie ESaver 18W/827 B22 220-240V 1PH 6	59
18BCGENIE8Y40W	Genie ESaver 18W/827 B22 220-240V 1CT 40	59
18ESGENIE8Y	Genie ESaver 18W/827 E27 220-240V 1PH 6	59
18ESGENIE8Y40W	Genie ESaver 18W/827 E27 220-240V 1CT 40	59
18PLC8272PIN	MASTER PL-C 18W/827/2P 1CT 5X10CC	70
18PLC8274PIN	MASTER PL-C 18W/827/4P 1CT 5X10CC	71
18PLC8302PIN	MASTER PL-C 18W/830/2P 1CT 5X10CC	70
18PLC8302PXTRA	MASTER PL-C Xtra 18W/830/2P 1CT 5X10CC	72
18PLC8304PIN	MASTER PL-C 18W/830/4P 1CT 5X10CC	71
18PLC8304PXTRA	MASTER PL-C Xtra 18W/830/4P 1CT 5X10CC	72
18PLC8352PIN	MASTER PL-C 18W/835/2P 1CT 5X10CC	70
18PLC8402PIN	MASTER PL-C 18W/840/2P 1CT 5X10CC	70
18PLC8402PXTRA	MASTER PL-C Xtra 18W/840/2P 1CT 5X10CC	72
18PLC8404PIN	MASTER PL-C 18W/840/4P 1CT 5X10CC	71
18PLC8404PXTRA	MASTER PL-C Xtra 18W/840/4P 1CT 5X10CC	72
18PLL830	MASTER PL-L 18W/830/4P 1CT 25	77
18PLL835	MASTER PL-L 18W/835/4P 1CT 25	77
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18PLL865	MASTER PL-L 18W/865/4P 1CT 25	77
18PLT8272PINC	MASTER PL-T 18W/827/2P 1CT 5X10CC	73
18PLT8274PINC	MASTER PL-T 18W/827/4P 1CT 5X10CC	74
18PLT8302PINC	MASTER PL-T 18W/830/2P 1CT 5X10CC	73
18PLT8304PINC	MASTER PL-T 18W/830/4P 1CT 5X10CC	74
18PLT8304PINTOP	MASTER PL-T TOP 18W/830/4P 1CT 5X10CC	75
18PLT8402PINC	MASTER PL-T 18W/840/2P 1CT 5X10CC	73
18PLT8404PINC	MASTER PL-T 18W/840/4P 1CT 5X10CC	74
18PLT8404PINTOP	MASTER PL-T TOP 18W/840/4P 1CT 5X10CC	75
2000HPIT	HPI-T 2000W/646 E40 220V CRP 4	110
2000MHNFC740	MASTER MHN-FC 2000W/740 400V XW UNP 1	109
2000MHNLA842	MASTER MHN-LA 2000W/842 400V XWH UNP 1	108
2000MHNLA956	MASTER MHN-LA 2000W/956 400V XWH UNP 1	108
2000MHNLA956	MASTER MHN-SA 2000W/956 400V XW UNP 1	108
2000MHNBS956	MHN-SB 2000W/956 400V K12s-7 WH UNP 1	109
20BCPLE	MASTER PL-Electronic 20W/827 B22 230-240V 1CT 6	57
20BCSOFT8Y	Softone ESaver 20W WW B22 230-240V T65 1PH 6	61
20BCSOFT8Y40W	Softone ESaver 20W WW B22 230-240V T65 1PH 40	61
20CDMR11183010	MASTERCoulour CDM-R111 20W/830 GX8.5 10D 1CT 6	90
20CDMR11183024	MASTERCoulour CDM-R111 20W/830 GX8.5 24D 1CT 6	90
20CDMRM83010	MASTERCoulour CDM-R Mini 20W/830 GX10 MR16 10D 1CT 6	92
20CDMRM83025	MASTERCoulour CDM-R Mini 20W/830 GX10 MR16 25D 1CT 6	92
20CDMRM83040	MASTERCoulour CDM-R Mini 20W/830 GX10 MR16 40D 1CT 6	92
20CDMT830	MASTERCoulour CDM-T 20W/830 G12 1CT 12	87
20CDMT830	MASTERCoulour CDM-T 20W/830 G12 1CT 12	88
20CDMT830	MASTERCoulour CDM-Tm Mini 20W/830 PGJ5 1CT 12	86
20ESPLE	MASTER PL-Electronic 20W/827 E27 230-240V 1CT 6	57
20ESSOFT8Y	Softone ESaver 20W WW E27 230-240V T65 1PH 6	61
20PAR38CFL	PAR38 Downlighter ESaver 20W WW 220-240V 1CT 6	64
20PAREFL	MASTER PAR20 E 20W E27 240V 25D 1CT 4X3F	143
20PARESP	MASTER PAR20 E 20W E27 240V 10D 1CT 4X3F	143
210CDMTLITE930	MASTERCoulour CDM-TMW Elite 210W/930 1CT 12	86
21817ACTIVIVA	MASTER TL5 HE ActiViva Active 21W 1SL 40	48
21830	MASTER TL5 HE 21W/830 1SL 40	42
21830IP	MASTER TL5 HE 21W/830 UNP 40	42
21835IP	MASTER TL5 HE 21W/835 UNP 40	42
21840	MASTER TL5 HE 21W/840 1SL 40	42
21840IP	MASTER TL5 HE 21W/840 UNP 40	42
21865	MASTER TL5 HE 21W/865 1SL 40	42
21880ACTIVIVA	MASTER TL5 HE ActiViva Natural 21W 1SL 40	48
220SONH	SON H 220W/220 E40 1SL 12	107
22TL5C830	MASTER TL5 Circular 22W/830 1CT 10	50

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	22TLC840	MASTER TL5 Circular 22W/840 1CT 10	50
	23840	MASTER TL-D Super 80 23W/840 1SL 25	30
	23BCPLE	MASTER PL-Electronic 23W/827 B22 230-240V 1CT 6	57
	23ESPLE	MASTER PL-Electronic 23W/827 E27 230-240V 1CT 6	57
	23PAR38CFL	PAR38 Downlighter ESaver 23W WW 220-240V 1CT 6	64
	2440ESCP	Standard ELV 40W E27/BRC 24W A60 CL 1CT 12X10F	183
	24817ACTIVIVA	MASTER TL5 HO ActiViva Active 24W 1SL 40	48
	24827	MASTER TL5 HO 24W/827 1SL 40	44
	24830	MASTER TL5 HO 24W/830 1SL 40	44
	24830IP	MASTER TL5 HO 24W/830 UNP 40	44
	24840	MASTER TL5 HO 24W/840 1SL 40	44
	24840IP	MASTER TL5 HO 24W/840 UNP 40	44
	24840TL5SEC	MASTER TL5 HO Secura 24W/840 UNP 40	45
	24865	MASTER TL5 HO 24W/865 1SL 40	44
	24880ACTIVIVA	MASTER TL5 HO ActiViva Natural 24W 1SL 40	48
	24940	MASTER TL5 HO 90 De Luxe 24W/940 1SL 15	48
	24965	MASTER TL5 HO 90 De Luxe 24W/965 1SL 15	48
	24PLL830	MASTER PL-L 24W/830/4P 1CT 25	77
	24PLL830POLAR	MASTER PL-L Polar 24W/830/4P 1CT 25	78
	24PLL830XTRA	MASTER PL-L Xtra 24W/830/4P 1CT 25	79
	24PLL830XTRAPOL	MASTER PL-L Xtra Polar 24W/830/4P 1CT 25	79
	24PLL835	MASTER PL-L 24W/835/4P 1CT 25	77
	24PLL840	MASTER PL-L 24W/840/4P 1CT 25	77
	24PLL840POLAR	MASTER PL-L Polar 24W/840/4P 1CT 25	78
	24PLL840XTRA	MASTER PL-L Xtra 24W/840/4P 1CT 25	79
	24PLL840XTRAPOL	MASTER PL-L Xtra Polar 24W/840/4P 1CT 25	79
	24PLL865	MASTER PL-L 24W/865/4P 1CT 25	79
	24TL5BLUE	MASTER TL5 HO Colored 24W Blue 1SL 15	49
	24TL5GREEN	MASTER TL5 HO Colored 24W Green 1SL 15	49
	24TL5RED	MASTER TL5 HO Colored 24W Red 1SL 15	49
	250CDMT830	MASTERCoulour CDM-T 250W/830 G12 1CT 12	87
	250CDMT942	MASTERCoulour CDM-T 250W/942 G12 1CT 12	87
	250CDOTT828	MASTER CityWhite CDO-TT 250W/828 E40 1SL 12	102
	250HPIPLUSBU	MASTER HPI Plus 250W/745 BU E40 1SL 12	111
	250HPIPLUSBUP	MASTER HPI Plus 250W/745 BU-P E40 1SL 12	111
	250HPIPLUSDBU	MASTER HPI Plus 250W/767 BU E40 1SL 12	111
	250HPITPLUS	MASTER HPI-T Plus 250W/645 E40 1SL 12	110
	250HPLCOM	HPL Comfort 250W E40 HG CRP 12	112
	250HPLN	HPL-N 250W/542 E40 HG 1SL 12	113
	250HPLR	HPL-R 250W E40 HG CRP 5	113
	250MHNTD	MHN-TD 250W/842 FC2 1CT 12	94
	250SON	SON 250W/220 E40 1SL 12	106
	250SONCOM	SON Comfort 250W/621 E40 1SL 12	107
	250SONPLUS	MASTER SON PIA Plus 250W/220 E40 1SL 12	104
	250SONT	SON-T 250W/220 E40 1SL 12	106
	250SONTCOM	SON-T Comfort 250W/621 E40 1SL 12	107
	250SONTMF	MASTER SON-T PIA Hg-Free 250W/221 E40 1SL 12	105
	2589	TL-D 25W Aquarelle SLV 25	41
	25BCC2PZP	Standard 25W B22 240V B35 CL 2CT 2X10T/WL	179
	25BCL2P	Standard 25W B22 240V P45 CL 2CT 12X5F	180
	25BCP10PZP	Standard 25W B22 240V A55 FR F10 12	177
	25BCP1PZP	Standard 25W B22 240V A55 FR 1CT 12X10F	177
	25BCSCWH2P	Softone 25W B22 240V B35 WH 2CT 2X10T/WL	178
	25CDMI83010	MASTERCoulour CDM-i 25W/830 E27 PAR38 10D 1CT 6	92
	25CDMI83025	MASTERCoulour CDM-i 25W/830 E27 PAR38 25D 1CT 6	92
	25CDMI83040	MASTERCoulour CDM-i 25W/830 E27 PAR38 40D 1CT 6	92
	25CLICKCL	Clickline 25W G9 240V CL 1CT 10X10F	151
	25SESOZP	Appliance 25W E14 230-240V T25 CL OV 1CT 10X10F	184
	26PLC8272PIN	MASTER PL-C 26W/827/2P 1CT 5X10CC	70
	26PLC8274PIN	MASTER PL-C 26W/827/4P 1CT 5X10CC	71
	26PLC8302PIN	MASTER PL-C 26W/830/2P 1CT 5X10CC	70
	26PLC8302PXTRA	MASTER PL-C Xtra 26W/830/2P 1CT 5X10CC	72
	26PLC8304PIN	MASTER PL-C 26W/830/4P 1CT 5X10CC	71
	26PLC8304PXTRA	MASTER PL-C Xtra 26W/830/4P 1CT 5X10CC	73
	26PLC8352PIN	MASTER PL-C 26W/835/2P 1CT 5X10CC	70
	26PLC8354PIN	MASTER PL-C 26W/835/4P 1CT 5X10CC	71
	26PLC8402PIN	MASTER PL-C 26W/840/2P 1CT 5X10CC	70
	26PLC8402PXTRA	MASTER PL-C Xtra 26W/840/2P 1CT 5X10CC	72
	26PLC8404PIN	MASTER PL-C 26W/840/4P 1CT 5X10CC	71
	26PLC8404PXTRA	MASTER PL-C Xtra 26W/840/4P 1CT 5X10CC	73
	26PLC8652PIN	MASTER PL-C 26W/865/2P 1CT 5X10CC	70
	26PLT8272PINCS	MASTER PL-T 26W/827/2P 1CT 5X10CC	74
	26PLT8274PINCS	MASTER PL-T 26W/827/4P 1CT 5X10CC	73
	26PLT8302PINCS	MASTER PL-T 26W/830/2P 1CT 5X10CC	73
	26PLT8304PINCS	MASTER PL-T 26W/830/4P 1CT 5X10CC	74
	26PLT8304PINTOP	MASTER PL-T TOP 26W/830/4P 1CT 5X10CC	75
	26PLT8402PINCS	MASTER PL-T 26W/840/2P 1CT 5X10CC	73
	26PLT8404PINCS	MASTER PL-T 26W/840/4P 1CT 5X10CC	74
	26PLT8404PINTOP	MASTER PL-T TOP 26W/840/4P 1CT 5X10CC	75
	27ESPLE	MASTER PL-Electronic 27W/827 E27 230-240V 1CT 6	57
	28817ACTIVIVA	MASTER TL5 HE ActiViva Active 28W 1SL 40	49
	28830	MASTER TL5 HE 28W/830 1SL 40	42
	28830IP	MASTER TL5 HE 28W/830 UNP 40	42
	28835	MASTER TL5 HE 28W/835 1SL 40	42
	28835IP	MASTER TL5 HE 28W/835 UNP 40	42
	28840	MASTER TL5 HE 28W/840 1SL 40	42
	28840IP	MASTER TL5 HE 28W/840 UNP 40	42
	28840TL5SEC	MASTER TL5 HE Secura 28W/840 UNP 40	43
	28865IP	MASTER TL5 HE 28W/865 UNP 40	42
	28880ACTIVIVA	MASTER TL5 HE ActiViva Natural 28W 1SL 40	49
	28BCCCECO30CL	EcoClassic30 28W B22 240V B35 CL 1CT 15	149
	28BCCCECO30FR	EcoClassic30 28W B22 240V B35 FR 1CT 15	149
	28BCCCECO30FR	EcoClassic30 28W B22 240V A60 FR 1CT 10	148
	28BCECO30CT1CT	EcoClassic30 28W B22 240V A60 CL 1CT 10	148

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	28PLQ8274PIN	PL-Q 28W/827/4P 1CT 10	81
	28PLQ8304PIN	PL-Q 28W/830/4P 1CT 10	81
	28PLQ8354PIN	PL-Q 28W/835/4P 1CT 10	81
	28PLQ8404PIN	PL-Q 28W/840/4P 1CT 10	81
	28SESECECO30CL	EcoClassic30 28W E14 240V B35 CL 1CT 15	149
	28SESECECO30FR	EcoClassic30 28W E14 240V B35 FR 1CT 15	149
	28SESECECO30FR	EcoClassic30 28W E27 240V A60 FR 1CT 10	148
	3003	TL-D 30W Aquacoral SLV 6	41
	3033	TL-D 30W/33-640 1SL 25	40
	3035	TL-D 30W/35-535 1SL 25	40
	28865	MASTER TL5 HE 28W/865 1SL 40	42
	30830	MASTER TL-D Super 80 30W/830 1SL 25	30
	30830XTRA	MASTER TL-D Xtra 30W/830 1SL 25	33
	30830XTRASEC	MASTER TL-D Xtra Secura 30W/830 1SL 25	35
	30840	MASTER TL-D Super 80 30W/840 1SL 25	30
	30840XTRA	MASTER TL-D Xtra 30W/840 1SL 25	33
	30840XTRASEC	MASTER TL-D Xtra Secura 30W/840 1SL 25	35
	3089	TL-D 30W Aquarelle SLV 6	41
	315CDMTTELITE930	MASTERColour CDM-TMW Elite 315W/930 1CT 12	86
	32830	MASTER TL-D HF Super 80 32W/830 1SL 25	32
	32830TLDECO	MASTER TL-D Eco 32W/830 1SL 25	29
	32840	MASTER TL-D HF Super 80 32W/840 1SL 25	32
	32840TLDECO	MASTER TL-D Eco 32W/840 1SL 25	29
	32865TLDECO	MASTER TL-D Eco 32W/865 1SL 25	29
	32PLT8274PINCS	MASTER PL-T 32W/827/4P 1CT 5X10CC	74
	32PLT8274PINTOP	MASTER PL-T TOP 32W/827/4P 1CT 5X10CC	75
	32PLT8304PINCS	MASTER PL-T 32W/830/4P 1CT 5X10CC	74
	32PLT8304PINTOP	MASTER PL-T TOP 32W/830/4P 1CT 5X10CC	75
	32PLT8304PXTRA	MASTER PL-T Xtra 32W/830/4P 1CT 5X10CC	76
	32PLT8404PINCS	MASTER PL-T 32W/840/4P 1CT 5X10CC	74
	32PLT8404PINTOP	MASTER PL-T TOP 32W/840/4P 1CT 5X10CC	75
	32PLT8404PXTRA	MASTER PL-T Xtra 32W/840/4P 1CT 5X10CC	76
	33ESPLE	MASTER PL-Electronic 33W/827 E27 230-240V 1CT 6	57
	350SONH	SON H 350W/220 E40 1SL 12	107
	35817ACTIVIVA	MASTER TL5 HE ActiViva Active 35W 1SL 40	49
	35830	MASTER TL5 HE 35W/830 1SL 40	42
	35830IP	MASTER TL5 HE 35W/830 UNP 40	42
	35835	MASTER TL5 HE 35W/835 1SL 40	42
	35835IP	MASTER TL5 HE 35W/835 UNP 40	42
	35840	MASTER TL5 HE 35W/840 1SL 40	42
	35840IP	MASTER TL5 HE 35W/840 UNP 40	42
	35840TL5SEC	MASTER TL5 HE Secura 35W/840 UNP 40	43
	35865	MASTER TL5 HE 35W/865 1SL 40	42
	35880ACTIVIVA	MASTER TL5 HE ActiViva Natural 35W 1SL 40	49
	35CDMR11183010	MASTERColour CDM-R111 35W/830 GX8.5 10D 1CT 6	90
	35CDMR11183024	MASTERColour CDM-R111 35W/830 GX8.5 24D 1CT 6	90
	35CDMR11183040	MASTERColour CDM-R111 35W/830 GX8.5 40D 1CT 6	90
	35CDMR11194210	MASTERColour CDM-R111 35W/942 GX8.5 10D 1CT 6	90
	35CDMR11194224	MASTERColour CDM-R111 35W/942 GX8.5 24D 1CT 6	90
	35CDMR11194240	MASTERColour CDM-R111 35W/942 GX8.5 40D 1CT 6	90
	35CDMR830FL	MASTERColour CDM-R 35W/830 E27 PAR30L 30D 1CT 6	91
	35CDMR830FLP20	MASTERColour CDM-R 35W/830 E27 PAR20 30D 1CT 12	91
	35CDMR830SP	MASTERColour CDM-R 35W/830 E27 PAR30L 10D 1CT 6	91
	35CDMR830SP20	MASTERColour CDM-R 35W/830 E27 PAR20 10D 1CT 12	91
	35CDMR942P2010D	MASTERColour CDM-R 35W/942 E27 PAR30 10D 1CT 12	91
	35CDMR942P2030D	MASTERColour CDM-R 35W/942 E27 PAR20 30D 1CT 12	91
	35CDMT830	MASTERColour CDM-T 35W/830 G12 1CT 12	87
	35CDMT942	MASTERColour CDM-T 35W/942 G12 1CT 12	87
	35CDMTC830	MASTERColour CDM-TC 35W/830 G8.5 1CT 12	88
	35CDMTC942	MASTERColour CDM-TC 35W/942 G8.5 1CT 12	88
	35CDMTCCELITE930	MASTERColour CDM-TC Elite 35W/930 G8.5 1CT 12	85
	35CDMTELITE930	MASTERColour CDM-T Elite 35W/930 G12 1CT 12	85
	35CDMTM930	MASTERColour CDM-Tm Mini 35W/930 PGJ5 1CT 12	86
	35S14SPHZP	Philinea 35W S14s 240V T30 WH 1CT 25	182
	35SDWT	MASTER SDW-T 35W/825 PG12-1 1SL 12	93
	35SOXPLUS	SOX Plus 35W BY22d 1SL 12	112
	3635MP	TL-D 36W/35-535 OEM 1SL 25	40
	36817ACTIVIVA	MASTER TL-D ActiViva Active 36W 1SL 25	38
	36830IP	MASTER TL-D Super 80 36W/830 UNP 25	30
	36830R	MASTER TL-D Reflex 36W/830 1SL 25	32
	36830XTRA	MASTER TL-D Xtra 36W/830 1SL 25	33
	36830XTRAPOLAR	MASTER TL-D Xtra Polar 36W/830 T12 1SL 10	34
	36830XTRASEC	MASTER TL-D Xtra Secura 36W/830 1SL 25	35
	36830XTREME	MASTER TL-D Xtreme 36W/830 1SL 25	36
	36830XTREMESEC	MASTER TL-D Xtreme Secura 36W/830 1SL 25	38
	36830XTRMEPOLAR	MASTER TL-D Xtreme Polar 36W/830 1SL 10	37
	36840BSEC	MASTER TL-D Secura 36W/840 1SL 25	31
	36840IP	MASTER TL-D Super 80 36W/840 UNP 25	30
	36840R	MASTER TL-D Reflex 36W/840 1SL 25	32
	36840XTRA	MASTER TL-D Xtra 36W/840 1SL 25	33
	36840XTRAPOLAR	MASTER TL-D Xtra Polar 36W/840 T12 1SL 10	34
	36840XTRASEC	MASTER TL-D Xtra Secura 36W/840 1SL 25	35
	36840XTREME	MASTER TL-D Xtreme 36W/840 1SL 25	36
	36840XTREMESEC	MASTER TL-D Xtreme Secura 36W/840 1SL 25	38
	36840XTRMEPOLAR	MASTER TL-D Xtreme Polar 36W/840 1SL 10	37
	36865XTRA	MASTER TL-D Xtra 36W/865 1SL 25	33
	36865XTREME	MASTER TL-D Xtreme 36W/865 1SL 25	36
	36880ACTIVIVA	MASTER TL-D ActiViva Natural 36W 1SL 25	38
	36930DLP	MASTER TL-D 90 De Luxe 36W/930 1SL SLV 10	39
	36940DLP	MASTER TL-D 90 De Luxe 36W/940 1SL SLV 10	39
	36950DLP	MASTER TL-D 90 De Luxe 36W/950 1SL SLV 10	39
	36950GP	MASTER TL-D 90 Graphica 36W/950 1SL 10	40
	36965DLP	MASTER TL-D 90 De Luxe 36W/965 1SL SLV 10	39
	36965GP	MASTER TL-D 90 Graphica 36W/965 1SL 10	40

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36PLL830	MASTER PL-L 36W/830/4P 1CT 25	77
36PLL830POLAR	MASTER PL-L Polar 36W/830/4P 1CT 25	78
36PLL830XTRA	MASTER PL-L Xtra 36W/830/4P 1CT 25	79
36PLL830XTRAPOL	MASTER PL-L Xtra Polar 36W/830/4P 1CT 25	79
36PLL840	MASTER PL-L 36W/840/4P 1CT 25	77
36PLL840POLAR	MASTER PL-L Polar 36W/840/4P 1CT 25	78
36PLL840XTRA	MASTER PL-L Xtra 36W/840/4P 1CT 25	79
36PLL840XTRAPOL	MASTER PL-L Xtra Polar 36W/840/4P 1CT 25	79
36PLL865	MASTER PL-L 36W/865/4P 1CT 25	77
38830NG	MASTER TL-D Super 80 38W/830 1SL 25	30
38840NG	MASTER TL-D Super 80 38W/840 1SL 25	30
38PLQ8274PIN	PL-Q 38W/827/4P 1CT 10	81
38PLQ8304PIN	PL-Q 38W/830/4P 1CT 10	81
38PLQ8354PIN	PL-Q 38W/835/4P 1CT 10	81
38PLQ8404PIN	PL-Q 38W/840/4P 1CT 10	81
39830IP	MASTER TL5 HO 39W/830 UNP 40	44
39840IP	MASTER TL5 HO 39W/840 UNP 40	44
408	TL 4W BLB FAM 10X25BOX	52
433	TL Mini 4W/33-640 FAM 1FM 10X25CC	51
608	TL 6W BLB FAM 10X25BOX	52
3608	TL-D 36W BLB SLV 25	41
3633	TL-D 36W/33-640 1SL 25	40
3635	TL-D 36W/35-535 1SL 25	40
3889	TL-D 38W Aquarelle SLV 25	41
5761	5761 30W G4 6V 1CT 10X10F	139
5833	TL-D 58W/33-640 1SL 25	40
5835	TL-D 58W/35-535 1SL 25	40
36827	MASTER TL-D Super 80 36W/827 1SL 25	30
36830	MASTER TL-D Super 80 36W/830 1SL 25	30
36835	MASTER TL-D Super 80 36W/835 1SL 25	30
36840	MASTER TL-D Super 80 36W/840 1SL 25	30
36865	MASTER TL-D Super 80 36W/865 1SL 25	30
39827	MASTER TL5 HO 39W/827 1SL 40	44
39830	MASTER TL5 HO 39W/830 1SL 40	44
39840	MASTER TL5 HO 39W/840 1SL 40	44
39865	MASTER TL5 HO 39W/865 1SL 40	44
40032	TL-K 40W/03 Aquacoral SLV 25	164
4003RS	TL 40W Aquacoral RS SLV 25	164
400HPIPLUSBU	MASTER HPI Plus 400W/745 BU E40 1SL 6	111
400HPIPLUSBUP	MASTER HPI Plus 400W/745 BU-P E40 1SL 6	111
400HPIPLUSBUS	MASTER HPI Plus 400W/745 BUS E40 1SL 6	111
400HPIPLUSBUSP	MASTER HPI Plus 400W/745 BUS-P E40 1SL 6	111
400HPIPLUSDBU	MASTER HPI Plus 400W/767 BU E40 1SL 6	111
400HIPITPLUS	MASTER HPI-T Plus 400W/645 E40 1SL 12	110
400HPLCOM	HPL Comfort 400W/534 E40 HG 1SL 6	112
400HPLN	HPL-N 400W/542 E40 HG 1SL 6	113
400SON	SON 400W/220 E40 1SL 12	106
400SONCOM	SON Comfort 400W/621 E40 1SL 12	107
400SONPLUS	MASTER SON PIA Plus 400W/220 E40 1SL 12	104
400SONT	SON-T 400W/220 E40 1SL 12	106
400SONTCOM	SON-T Comfort 400W/621 E40 1SL 12	107
400SONTGP	MASTER GreenPower CG T 400W E40 1SL 12	105
400SONTPLUS	MASTER SON-T PIA Plus 400W/220 E40 1SL 12	104
40102RA	Actinic BL TL-K 40W/10-R SLV 25	165
40102RA	Actinic BL TL-K 40W/10-R SLV 25	165
40BC10PZP	Standard 40W B22 240V A55 CL F10 12	178
40BC1PZP	Standard 40W B22 240V A55 CL 1CT 12X10F	178
40BCC2PZP	Standard 40W B22 240V B35 CL 2CT 2X10T/WL	179
40BCCANDLB35OR	Softone 40W B22 240V B35 AP 2CT 10	178
40BCL2P	Standard 40W B22 240V P45 CL 2CT 12X5F	180
40BCLWH2P	Party 40W B22 240V P45 WH 2CT 2X10T/WL	184
40BCP10PZP	Standard 40W B22 240V A55 FR F10 12	177
40BCSCWH2P	Softone 40W B22 240V B35 WH 2CT 2X10T/WL	178
40BCSWH2PZP	Softone 40W B22 240V T55 WH 2CT 2X10T/WL	177
40BCTWCC2P	Deco 40W B22 240V BW35 CL 2CT 2X10T/WL	179
40CLICKCL	Clickline 40W G9 240V CL 1CT 10X10F	151
40CLICKFR	Clickline 40W G9 240V FR 1CT 10X10F	151
40ES1PZP	Standard 40W E27 240V A55 CL 1CT 12X10F	178
40ESHALR63SPZP	Halogen Spot 2yr 40W E27 240V NR63 30D 1CT 10	145
40ESLWH2P	Standard 40W E27 240V P45 WH 2CT 2X10T/WL	180
40ESP10PZP	Standard 40W E27 240V A55 FR F10 12	177
40ESR63SPZP	Reflector 40W E27 240V NR63 30D 1CT 30	186
40PLL830	MASTER PL-L 40W/830/4P 1CT 25	77
40PLL830XTRA	MASTER PL-L Xtra 40W/830/4P 1CT 25	79
40PLL835	MASTER PL-L 40W/835/4P 1CT 25	77
40PLL840	MASTER PL-L 40W/840/4P 1CT 25	77
40PLL840XTRA	MASTER PL-L Xtra 40W/840/4P 1CT 25	79
40SBCC2PZP	Standard 40W B15 240V B35 CL 2CT 2X10T/WL	179
40SESC2PZP	Standard 40W E14 240V B35 CL 2CT 2X10T/WL	179
40SESCHP	Appliance 40W E14 230-240V T25L CL CH 1CT 5X10F	185
40SESLWH2P	Standard 40W E14 240V P45 WH 2CT 2X10T/WL	180
40SESOZ	Appliance 40W E14 240V P45 CL OV 1CT 10X10F	185
40SESPAR16BP	HalogenA PAR16 40W E14 240V 25D 1BL 10	144
40SESR50SPZP	Reflector 40W E14 240V NR50 30D 1CT 30	186
40SESSCW2P	Softone 40W E14 240V B35 WH 2CT 2X10T/WL	178
40TL5C830	MASTER TL5 Circular 40W/830 1CT 10	50
40TL5C840	MASTER TL5 Circular 40W/840 1CT 10	50
4151800MHNSA956	MASTER MHN-SA 1800W/956 (P)SFC 400V UNP 1	108
4152000HPITN	HPI-T 2000W/642 E40 380V CRP 4	110
49827	MASTER TL5 HO 49W/827 1SL 40	44
49830	MASTER TL5 HO 49W/830 1SL 40	44
49835	MASTER TL5 HO 49W/835 UNP 40	44
49840	MASTER TL5 HO 49W/840 1SL 40	44
49865	MASTER TL5 HO 49W/865 1SL 40	44

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49940	MASTER TL5 HO 90 De Luxe 49W/940 1SL 15	48
49965	MASTER TL5 HO 90 De Luxe 49W/965 1SL 15	48
50830	MASTER TL-D HF Super 80 50W/830 1SL 25	32
50840	MASTER TL-D HF Super 80 50W/840 1SL 25	32
54827	MASTER TL5 HO 54W/827 1SL 40	44
54830	MASTER TL5 HO 54W/830 1SL 40	44
54840	MASTER TL5 HO 54W/840 1SL 40	44
54865	MASTER TL5 HO 54W/865 1SL 40	44
54940	MASTER TL5 HO 90 De Luxe 54W/940 1SL 15	48
54965	MASTER TL5 HO 90 De Luxe 54W/965 1SL 15	48
58827	MASTER TL-D Super 80 58W/827 1SL 25	30
58830	MASTER TL-D Super 80 58W/830 1SL 25	30
58835	MASTER TL-D Super 80 58W/835 1SL 25	30
58840	MASTER TL-D Super 80 58W/840 1SL 25	30
58865	MASTER TL-D Super 80 58W/865 1SL 25	30
42454960	Brilliantline Dichroic 20W GU5.3 12V MR16 10D 1CT 10X5F	132
42471660	Brilliantline Dichroic 20W GU5.3 12V MR16 24D 1CT 10X5F	132
42484660	Brilliantline Dichroic 20W GU5.3 12V MR16 36D 1CT 10X5F	132
42490760	Brilliantline Dichroic 35W GU5.3 12V MR16 10D 1CT 10X5F	132
42493860	Brilliantline Dichroic 35W GU5.3 12V MR16 24D 1CT 10X5F	132
42504160	Brilliantline Dichroic 35W GU5.3 12V MR16 36D 1CT 10X5F	132
42507260	Brilliantline Dichroic 35W GU5.3 12V MR16 60D 1CT 10X5F	132
42510260	Brilliantline Dichroic 50W GU5.3 12V MR16 10D 1CT 10X5F	132
42513360	Brilliantline Dichroic 50W GU5.3 12V MR16 24D 1CT 10X5F	132
42516460	Brilliantline Dichroic 50W GU5.3 12V MR16 36D 1CT 10X5F	132
42519560	Brilliantline Dichroic 50W GU5.3 12V MR16 60D 1CT 10X5F	132
42537960	Brilliantline Dichroic 20W GU4 12V MR11 10D 1CT 10X5F	131
42540960	Brilliantline Dichroic 20W GU4 12V MR11 30D 1CT 10X5F	131
42543060	Brilliantline Dichroic 35W GU4 12V MR11 10D 1CT 10X5F	132
42546160	Brilliantline Dichroic 35W GU4 12V MR11 30D 1CT 10X5F	132
42BCECO30CL1CT	EcoClassic30 42W B22 240V A60 CL 1CT 10	148
42BCECO30FR1CT	EcoClassic30 42W B22 240V A60 FR 1CT 10	148
42ESECO30CL1CT	EcoClassic30 42W E27 240V A60 CL 1CT 10	148
42ESECO30FR1CT	EcoClassic30 42W E27 240V A60 FR 1CT 10	148
42PLT8274PINC	MASTER PL-T 42W/827/4P 1CT 5X10CC	74
42PLT8274PINTOP	MASTER PL-T TOP 42W/827/4P 1CT 5X10CC	75
42PLT8304PINC	MASTER PL-T 42W/830/4P 1CT 5X10CC	74
42PLT8304PINTOP	MASTER PL-T TOP 42W/830/4P 1CT 5X10CC	75
42PLT8304PXTRA	MASTER PL-T Xtra 42W/830/4P 1CT 5X10CC	76
42PLT8404PINC	MASTER PL-T 42W/840/4P 1CT 5X10CC	74
42PLT8404PINTOP	MASTER PL-T TOP 42W/840/4P 1CT 5X10CC	75
42PLT8404PXTRA	MASTER PL-T Xtra 42W/840/4P 1CT 5X10CC	76
45CPOTW628	MASTER CosmoWhite CPO-TW 45W/628 PGZ12 1CT 12	101
49817ACTIVIVA	MASTER TL5 HO ActiViva Active 49W 1SL 40	49
49830IP	MASTER TL5 HO 49W/830 UNP 40	44
49830TOP	MASTER TL5 HO TOP 49W/830 1SL 20	47
49830XTRATL5	MASTER TL5 HO Xtra 49W/830 1SL 20	46
49840IP	MASTER TL5 HO 49W/840 UNP 40	44
49840TL5SEC	MASTER TL5 HO Secura 49W/840 UNP 40	45
49840TOP	MASTER TL5 HO TOP 49W/840 1SL 20	47
49840XTRATL5	MASTER TL5 HO Xtra 49W/840 1SL 20	46
49880ACTIVIVA	MASTER TL5 HO ActiViva Natural 49W 1SL 40	49
5/8ESNIGHT	Nightlight 5/8W E27 220-250V TW 45W/628 PGZ12 1CT 10X10F	184
500IIDE	HalogenA IDE 500W E40 240V CL 1CT 6	151
5060ESCP	Standard ELV 60W E27/BRC 50V A60 CL 1CT 12X10F	183
50ESHALPAR20FL	HalogenA PAR20 50W E27 240V 25D 1CT 15	144
50ESHALPAR20SP	HalogenA PAR20 50W E27 240V 10D 1CT 15	144
50HPLCOM	HPL Comfort 50W/534 E27 SG SLV 24	112
50HPLN	HPL-N 50W/542 E27 SG SLV 24	113
50SDWT	MASTER SDW-T 50W/825 PG12-1 1SL 12	93
50SDWTG	MASTER SDW-TG Mini 50W/825 GX12-1 1CT 12	93
50SONE	SON 50W/220 E27 1SL 24	106
50SONI	SON 50W/220 I E27 1SL 24	106
50SONTPLUS	MASTER SON-T PIA Plus 50W/220 E27 1SL 12	104
51830TLDECO	MASTER TL-D Eco 51W/830 1SL 25	29
51840TLDECO	MASTER TL-D Eco 51W/840 1SL 25	29
51865TLDECO	MASTER TL-D Eco 51W/865 1SL 25	29
53BCECO30CL1CT	EcoClassic30 53W B22 240V A60 CL 1CT 10	148
53ESECO30CL1CT	EcoClassic30 53W E27 240V A60 CL 1CT 10	148
53ESECO30FR1CT	EcoClassic30 53W E27 240V A60 FR 1CT 10	148
54817ACTIVIVA	MASTER TL5 HO ActiViva Active 54W 1SL 40	49
54830IP	MASTER TL5 HO 54W/830 UNP 40	44
54830TOP	MASTER TL5 HO TOP 54W/830 1SL 20	47
54830XTRATL5	MASTER TL5 HO Xtra 54W/830 1SL 20	46
54840IP	MASTER TL5 HO 54W/840 UNP 40	44
54840TL5SEC	MASTER TL5 HO Secura 54W/840 UNP 40	45
54840TOP	MASTER TL5 HO TOP 54W/840 1SL 20	47
54840XTRATL5	MASTER TL5 HO Xtra 54W/840 1SL 20	46
54880ACTIVIVA	MASTER TL5 HO ActiViva Natural 54W 1SL 40	49
54TL5BLUE	MASTER TL5 HO Colored 54W Blue 1SL 15	49
54TL5GREEN	MASTER TL5 HO Colored 54W Green 1SL 15	49
54TL5RED	MASTER TL5 HO Colored 54W Red 1SL 15	49
55PLL830	MASTER PL-L 55W/830/4P 1CT 25	77
55PLL830POLAR	MASTER PL-L Polar 55W/830/4P 1CT 25	78
55PLL830XTRA	MASTER PL-L Xtra 55W/830/4P 1CT 25	79
55PLL830XTRAPOL	MASTER PL-L Xtra Polar 55W/830/4P 1CT 25	79
55PLL835	MASTER PL-L 55W/835/4P 1CT 25	77
55PLL840	MASTER PL-L 55W/840/4P 1CT 25	77
55PLL840POLAR	MASTER PL-L Polar 55W/840/4P 1CT 25	78
55PLL840XTRA	MASTER PL-L Xtra 55W/840/4P 1CT 25	79
55PLL840XTRAPOL	MASTER PL-L Xtra Polar 55W/840/4P 1CT 25	79
55PLL865	MASTER PL-L 55W/865/4P 1CT 25	77
55SOXPLUS	SOX Plus 55W BY22d 1SL 12	112
55TL5C830	MASTER TL5 Circular 55W/830 1CT 10	50

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	55TLC840	MASTER TL5 Circular 55W/840 1CT 10	50
	57PLT8274PINCS	MASTER PL-T 57W/827/4P 1CT 5X10CC	74
	57PLT8274PINTOP	MASTER PL-T TOP 57W/827/4P 1CT 5X10CC	75
	57PLT8304PINCS	MASTER PL-T 57W/830/4P 1CT 5X10CC	74
	57PLT8304PINTOP	MASTER PL-T TOP 57W/830/4P 1CT 5X10CC	75
	57PLT8304PXTRA	MASTER PL-T Xtra 57W/830/4P 1CT 5X10CC	76
	57PLT8404PINCS	MASTER PL-T 57W/840/4P 1CT 5X10CC	74
	57PLT8404PINTOP	MASTER PL-T TOP 57W/840/4P 1CT 5X10CC	75
	57PLT8404PXTRA	MASTER PL-T Xtra 57W/840/4P 1CT 5X10CC	76
	58817ACTIVIVA	MASTER TL-D ActivViva Active 58W 1SL 25	38
	58830IP	MASTER TL-D Super 80 58W/830 UNP 25	30
	58830R	MASTER TL-D Reflex 58W/830 1SL 25	32
	58830XTRA	MASTER TL-D Xtra 58W/830 1SL 25	33
	58830XTRAPOLAR	MASTER TL-D Xtra Polar 58W/830 T12 1SL 10	34
	58830XTRASEC	MASTER TL-D Xtra Secura 58W/830 1SL 25	35
	58830XTREME	MASTER TL-D Xtreme 58W/830 1SL 25	36
	58830XTREMESEC	MASTER TL-D Xtreme Secura 58W/830 1SL 25	38
	58830XTRMEPOLAR	MASTER TL-D Xtreme Polar 58W/830 1SL 10	37
	58840BSEC	MASTER TL-D Secura 58W/840 1SL 25	31
	58840IP	MASTER TL-D Super 80 58W/840 UNP 25	30
	58840R	MASTER TL-D Reflex 58W/840 1SL 25	32
	58840XTRA	MASTER TL-D Xtra 58W/840 1SL 25	33
	58840XTRAPOLAR	MASTER TL-D Xtra Polar 58W/840 T12 1SL 10	34
	58840XTRASEC	MASTER TL-D Xtra Secura 58W/840 1SL 25	35
	58840XTREME	MASTER TL-D Xtreme 58W/840 1SL 25	36
	58840XTREMESEC	MASTER TL-D Xtreme Secura 58W/840 1SL 25	38
	58840XTRMEPOLAR	MASTER TL-D Xtreme Polar 58W/840 1SL 10	37
	58865RFECO	MASTER TL-D Reflex 58W/865 1SL 25	32
	58865XTRA	MASTER TL-D Xtra 58W/865 1SL 25	33
	58865XTREME	MASTER TL-D Xtreme 58W/865 1SL 25	36
	58880ACTIVIVA	MASTER TL-D ActivViva Natural 58W 1SL 25	38
	58930DLP	MASTER TL-D 90 De Luxe 58W/930 1SL SLV 10	39
	58940DLP	MASTER TL-D 90 De Luxe 58W/940 1SL SLV 10	39
	58950DLP	MASTER TL-D 90 De Luxe 58W/950 1SL SLV 10	39
	58950GP	MASTER TL-D 90 Graphica 58W/950 1SL 10	40
	58965DLP	MASTER TL-D 90 De Luxe 58W/965 1SL SLV 10	39
	58965GP	MASTER TL-D 90 Graphica 58W/965 1SL 10	40
	5ESGENIE8Y	Genie ESaver 5W/827 E27 220-240V 1PH 6	59
	5ESPLE	MASTER PL-Electronic 5W/827 E27 230-240V 1CT 10BOX	57
	5ESSOFT8Y	Softone ESaver 5W WW E27 230-240V T60 1PF 1PH 6	61
	5PLS8272PINB	MASTER PL-S 5W/827/2P 1CT 5X10CC	68
	5PLS8274PINB	MASTER PL-S 5W/827/4P 1CT 5X10CC	69
	5PLS8404PINB	MASTER PL-S 5W/840/4P 1CT 5X10CC	69
	5SESCANDLEMINI	Softone ESaver 5W WW E14 230-240V B38 1PH 10	62
	5SESPLE	MASTER PL-Electronic 5W/827 E14 230-240V 1CT 10BOX	57
	600SONTGP	MASTER GreenPower CG T 600W E40 1SL 12	105
	600SONTPLUS	MASTER SON-T PIA Plus 600W/220 E40 1SL 12	104
	60BC10PZP	Standard 60W B22 240V A55 CL F10 12	178
	60BC1PZP	Standard 60W B22 240V A55 CL 1CT 12X10F	178
	60BCC2PZP	Standard 60W B22 240V B35 CL 2CT 2X10T/WL	179
	60BCP10PZP	Standard 60W B22 240V A55 FR F10 12	177
	60BCR63SPZP	Reflector 60W B22 240V NR63 3OD 1CT 30	186
	60BCRSP1PZP	Reinforced Construction 60W B22 230V A60 FR 1CT 20	182
	60BCSBL2PZP	Softone 60W B22 240V T55 AZ 2CT 6X10F	177
	60BCSCWH2P	Softone 60W B22 240V B35 WH 2CT 2X10T/WL	178
	60BCSG95WHZP	Softone 60W B22 240V G95 WH 1CT 10	181
	60BCSLWH2P	Party 60W B22 240V P45 WH 2CT 2X10T/WL	184
	60BCSRO2PZP	Softone 60W B22 240V T55 RO 2CT 2X10T/WL	177
	60BCSTE2PZP	Softone 60W B22 240V T55 TE 2CT 2X10T/WL	177
	60BCSCWH2PZP	Softone 60W B22 240V T55 WH 2CT 2X10T/WL	177
	60CLICKCL	Clickline 60W G9 240V CL 1CT 10X10F	151
	60CLICKFR	Clickline 60W G9 240V FR 1CT 10X10F	151
	60CPOTW728	MASTER CosmoWhite CPO-TW 60W/728 PG12 1CT 12	101
	60ES10PZP	Standard 60W E27 240V A55 CL F10 12	178
	60ES1PZP	Standard 60W E27 240V A55 CL 1CT 12X10F	178
	60ESHALR63SPZP	Halogen Spot Zyr 60W E27 240V NR63 3OD 1CT 10	145
	60ESLWH2P	Standard 60W E27 240V P45 WH 2CT 2X10T/WL	180
	60ESP10PZP	Standard 60W E27 240V A55 FR F10 12	177
	60ESR63SPZP	Reflector 60W E27 240V NR63 3OD 1CT 30	186
	60ESR80SPZP	Reflector 60W E27 240V NR80 25D 1CT 30	187
	60ESR80ZP	Reflector 60W E27 240V E80 80D 1CT 30	187
	60ESRSP1PEP	Reinforced Construction 60W E27 230V A60 FR 1CT 20	182
	60PLH830	MASTER PL-H 60W/830/4P 1CT 10	80
	60PLH840	MASTER PL-H 60W/840/4P 1CT 10	80
	60S14SPHZP	Philinea 60W S14s 240V T30 WH 1CT 125	182
	60SBCC1PZ	Standard 60W B15 240V B35 CL 1CT 10X10F	179
	60SESLWH2P	Standard 60W E14 240V P45 WH 2CT 2X10T/WL	180
	60TLC5C830	MASTER TL5 Circular 60W/830 1CT 10	50
	60TLC5C840	MASTER TL5 Circular 60W/840 1CT 10	50
	633	TL Mini 6W/33-640 1FM 10X25CC	51
	635	TL Mini 6W/35-535 1FM 10X25CC	51
	63830TLDECO	MASTER TL-D Eco 63W/830 1SL 25	29
	63840TLDECO	MASTER TL-D Eco 63W/840 1SL 25	29
	6423	6423 150W G26.35 15V 1CT 10X5F	136
	6424	Aluline 15W 6V R37 6D CL 1CT 10X5F	134
	6425	Aluline 15W 6V R56 4D CL 1CT 10X5F	134
	6429	Aluline 35W 6V R56 6D CL 1CT 10X5F	134
	6430	Aluline 35W 6V R56 14D CL 1CT 10X5F	134
	6433	Aluline 20W 12V R37 6D CL 1CT 10X5F	134
	6434	Aluline 20W 12V R37 18D CL 1CT 10X5F	134
	6435FR	Aluline 20W 12V R37 32D FR 1CT 10X5F	134
	6438	Aluline 50W 12V R56 10D CL 1CT 10X5F	134
	6439FR	Aluline 50W 12V R56 25D FR 1CT 10X5F	134
	658010RA	TL 80W/10-R SLV 25	160

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6642ECON	Accentline 20W GU5.3 12V 10D 1CT 10X5F	133	
6644ECON	Accentline 20W GU5.3 12V 36D 1CT 10X5F	133	
6645ECON	Accentline 35W GU5.3 12V 10D 1CT 10X5F	133	
6647ECON	Accentline 35W GU5.3 12V 36D 1CT 10X5F	133	
6648ECON	Accentline 50W GU5.3 12V 10D 1CT 10X5F	133	
6649ECON	Accentline 50W GU5.3 12V 24D 1CT 10X5F	133	
6650ECON	Accentline 50W GU5.3 12V 36D 1CT 10X5F	133	
6651ECON	Accentline 50W GU5.3 12V 60D 1CT 10X5F	133	
6653ECON	Halogen Dichroic Zyr 20W GU5.3 12V 1CT 10X5F	135	
6656ECON	Halogen Dichroic Zyr 35W GU5.3 12V 1CT 10X5F	135	
6659ECON	Halogen Dichroic Zyr 50W GU5.3 12V 1CT 10X5F	135	
6834/8H	6834/8H 100W GZ6.35 12V 1CT 10X5F	137	
68SONH	SON H 68W/220 E27 1SL 24	107	
6993P	6993P 650W GX9.5 230V 1CT 10	157	
6995BP	6995I/BP 1000W GY9.5 240V 1CT 10	154	
BCCANDLE8Y	Softone ESaver 5W WW B22 230-240V K 1CT 6	62	
700HPLN	HPL-N 700W/542 E40 HG 1SL 6	113	
7015TXO	7015TXO 750W GX9.5 100V 1CT 10	154	
7033	TL-D 70W/33-640 1SL 25	40	
7035	TL-D 70W/35-535 1SL 25	40	
70830	MASTER TL-D Super 80 70W/830 1SL 25	30	
70830XTRA	MASTER TL-D Xtra 70W/830 1SL 25	33	
70830XTREME	MASTER TL-D Xtreme 70W/830 1SL 25	36	
70835	MASTER TL-D Super 80 70W/835 1SL 25	30	
70840	MASTER TL-D Super 80 70W/840 1SL 25	30	
70840XTRA	MASTER TL-D Xtra 70W/840 1SL 25	33	
70840XTREME	MASTER TL-D Xtreme 70W/840 1SL 25	36	
70BCECO30CL1CT	EcoClassic30 70W B22 240V A60 CL 1CT 10	148	
70BCECO30FR1CT	EcoClassic30 70W B22 240V A60 FR 1CT 10	148	
70CDMR11183010	MASTERCoulour CDM-R111 70W/830 GX8.5 10D 1CT 6	90	
70CDMR11183024	MASTERCoulour CDM-R111 70W/830 GX8.5 24D 1CT 6	90	
70CDMR11183040	MASTERCoulour CDM-R111 70W/830 GX8.5 40D 1CT 6	90	
70CDMR11194224	MASTERCoulour CDM-R111 70W/942 GX8.5 24D 1CT 6	90	
70CDMR830FLP30	MASTERCoulour CDM-R 70W/830 E27 PAR30L 40D 1CT 6	91	
70CDMR830SPP30	MASTERCoulour CDM-R 70W/830 E27 PAR30L 10D 1CT 6	91	
70CDMR942P3010	MASTERCoulour CDM-R 70W/942 E27 PAR30L 10D 1CT 6	91	
70CDMR942P3030	MASTERCoulour CDM-R 70W/942 E27 PAR30L 30D 1CT 6	91	
70CDMR942P3040	MASTERCoulour CDM-R 70W/942 E27 PAR30L 40D 1CT 6	91	
70CDMT830	MASTERCoulour CDM-T 70W/830 G12 1CT 12	87	
70CDMT942	MASTERCoulour CDM-T 70W/942 G12 1CT 12	87	
70CDMTC830	MASTERCoulour CDM-TC 70W/830 G8.5 1CT 12	88	
70CDMTC942	MASTERCoulour CDM-TC 70W/942 G8.5 1CT 12	88	
70CDMTECELITE930	MASTERCoulour CDM-TC Elite 70W/930 G8.5 1CT 12	85	
70CDMTD830	MASTERCoulour CDM-TD 70W/830 RX7s 1CT 12	89	
70CDMTD942	MASTERCoulour CDM-TD 70W/942 RX7s 1CT 12	89	
70CDMTELITE930	MASTERCoulour CDM-T Elite 70W/930 G12 1CT 12	85	
70CDMTP830	MASTERCoulour CDM-TP 70W/830 PG12-2 1CT 12	89	
70CDMTP942	MASTERCoulour CDM-TP 70W/942 PG12-2 1CT 12	89	
70CDOET828	Master CityWhite CDO-ET 70W/828 E27 1SL 24	102	
70CDOET828ELKIT	BeneKit CDO-ET 70W E27 EL KIT 4	103	
70CDOET828EMKIT	BeneKit CDO-ET 70W E27 EM KIT 4	103	
70CDOTT828	MASTER CityWhite CDO-TT 70W/828 E27 1SL 12	102	
70CDOTT828EMKIT	BeneKit CDO-TT 70W E27 EM KIT 4	103	
70ESECO30CL1CT	EcoClassic30 70W E27 240V A60 CL 1CT 10	148	
70ESECO30FR1CT	EcoClassic30 70W E27 240V A60 FR 1CT 10	148	
70MHNTD	MHN-TD 70W/842 RX7s 1CT 12	94	
70MHWTD	MHN-TD 70W/730 RX7s 1CT 12	94	
70SONE	SON 70W/220 E27 1SL 24	106	
70SONI	SON 70W/220 I E27 1SL 24	106	
70SONIPLUS	MASTER SON PIA Plus 70W/220 I E27 1SL 24	104	
70SONT	SON-T 70W/220 E27 1SL 12	106	
70SONTPLUS	MASTER SON-T PIA Plus 70W/220 E27 1SL 12	104	
750W80VFASFTFIT	Hi-Brite 750W FastFit 1CT 10	158	
75BCP10PZP	Standard 75W B22 240V A55 FR F10 12	177	
75ESR80SPZP	Reflector 75W E27 240V NR80 25D 1CT 30	187	
75PAR30SFL	HalogenA PAR30S 75W E27 240V 30D 1CT 15	145	
75PAR30SSP	HalogenA PAR30S 75W E27 240V 10D 1CT 15	145	
7787LL	7787LL 400W G6.35 36V 1CT 3X8F	140	
7804	7804 900W GY9.5 230V 1CT 10	146	
7GU10MINI	Downlighter ESaver 7W WW GU10 R50 1CT 10	64	
7PLS8272PINB	MASTER PL-S 7W/827/2P 1CT 5X10CC	68	
7PLS8274PINB	MASTER PL-S 7W/827/4P 1CT 5X10CC	69	
7PLS8402PINB	MASTER PL-S 7W/840/2P 1CT 5X10CC	68	
7PLS8404PINB	MASTER PL-S 7W/840/4P 1CT 5X10CC	69	
7SESR50MINI	Downlighter ESaver 7W VW E14 R50 1CT 10	64	
80827IP	MASTER TL5 HO 80W/827 UNP 40	44	
80830	MASTER TL5 HO 80W/830 1SL 40	44	
80830TOP	MASTER TL5 HO TOP 80W/830 1SL 20	47	
80830XTRATL5	MASTER TL5 HO Xtra 80W/830 1SL 20	46	
80840	MASTER TL5 HO 80W/840 1SL 40	44	
80840IP	MASTER TL5 HO 80W/840 UNP 40	44	
80840TL5SEC	MASTER TL5 HO Secura 80W/840 UNP 40	45	
80840TOP	MASTER TL5 HO TOP 80W/840 1SL 20	47	
80840XTRATL5	MASTER TL5 HO Xtra 80W/840 1SL 20	46	
80865	MASTER TL5 HO 80W/865 1SL 40	44	
80ESHPLN	HPL-N 80W/542 E27 SG 1SL 24	113	
80ESPAR38BLU	PAR38 Colours 80W E27 240V BL 1CT 12	188	
80ESPAR38FLZ	PAR38 80W E27 240V FL 30D 1CT 6	187	
80ESPAR38GR	PAR38 Colours 80W E27 240V GR 1CT 12	188	
80ESPAR38RE	PAR38 Colours 80W E27 240V RE 1CT 12	188	
80ESPAR38YEL	PAR38 Colours 80W E27 240V YE 1CT 12	188	
80ESPAR38Z	PAR38 80W E27 240V SP 12D 1CT 6	187	
80HPLCOM	HPL Comfort 80W/534 E27 SG 1SL 24	112	
80PLL830	MASTER PL-L 80W/830/4P 1CT 15	70	

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HIDDV100	HID-DV 1-10V 100 /S SON 220-240V 50/60Hz UNP 10	200
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LEDCAWHITE	DecoLED 1W E14 WH 230-240V B40 1BC 10	16
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LS2HP CABLE	LS hp cable 4xAWG24 UNP 1	9, 26
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MLED7NR634240	MASTER LEDspotMV 7W 4200K 230V NR63 40D 1CT 6	12
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BMH 35 L407-ITS 230/240V 50Hz BC1-118 UNP	8711500 748454 30	205
BMH 70 L407-ITS 230/240V 50Hz BC1-118 UNP	8711500 748911 31	205
Brilliantline Alu 20W GU5.3 12V MR16 36D 1CT	8711500 430724 60	132
Brilliantline Alu 35W GU5.3 12V MR16 36D 1CT	8711500 430755 60	132
Brilliantline Alu 50W GU5.3 12V MR16 36D 1CT	8711500 430793 60	132
Brilliantline Dichroic 20W GU4 12V MR11 10D 1CT	8711500 425379 60	131
Brilliantline Dichroic 20W GU4 12V MR11 30D 1CT	8711500 425409 60	131
Brilliantline Dichroic 20W GU5.3 12V MR16 10D 1CT	8711500 424549 60	132
Brilliantline Dichroic 20W GU5.3 12V MR16 24D 1CT	8711500 424716 60	132
Brilliantline Dichroic 20W GU5.3 12V MR16 36D 1CT	8711500 424846 60	132
Brilliantline Dichroic 35W GU4 12V MR11 10D 1CT	8711500 425430 60	132
Brilliantline Dichroic 35W GU4 12V MR11 30D 1CT	8711500 425461 60	132
Brilliantline Dichroic 35W GU5.3 12V MR16 10D 1CT	8711500 424907 60	132
Brilliantline Dichroic 35W GU5.3 12V MR16 24D 1CT	8711500 424938 60	132
Brilliantline Dichroic 35W GU5.3 12V MR16 36D 1CT	8711500 425041 60	132
Brilliantline Dichroic 35W GU5.3 12V MR16 60D 1CT	8711500 425072 60	132
Brilliantline Dichroic 50W GU5.3 12V MR16 10D 1CT	8711500 425102 60	132
Brilliantline Dichroic 50W GU5.3 12V MR16 24D 1CT	8711500 425133 60	132
Brilliantline Dichroic 50W GU5.3 12V MR16 36D 1CT	8711500 425164 60	132
Brilliantline Dichroic 50W GU5.3 12V MR16 60D 1CT	8711500 425195 60	132
BSL 100 L307 230/240V 50Hz BC1-118 UNP	8711500 915306 30	203
BSL 35 L307 230/240V 50Hz BC1-118 UNP	8711500 919052 30	203
BSL 35 L327 230/240V 50Hz BC1-118 UNP	8711500 744142 30	203
BSL 50 L307-LT 230/240V 50Hz BC1-118 UNP	8711500 920355 31	203
BSN 100 L407-ITS 230/240V 50Hz BC1-123 UNP	8711500 747747 30	205
BSN 100/150 L407-TS 230/240V 50Hz UNP	8711500 063915 30	206
BSN 150 L407-I 230/240V 50Hz BC2-134 UNP	8711500 738479 30	205
BSN 150 L407-ITS 230/240V 50Hz BC2-134 UNP	8711500 739087 30	205
BSN 250 L307-TS 230/240V 50Hz BC2-160 UNP	8711500 737311 30	206
BSN 250 L407-I 230/240V 50Hz BC2-160 UNP	8711500 738516 30	205
BSN 250 L407-ITS 230/240V 50Hz BC2-160 UNP	8711500 739162 30	205
BSN 250/400 L407-TS 230/240V 50Hz UNP	8711500 060433 30	206
BSN 400 L407-ITS 230/240V 50Hz BC3-166 UNP	8711500 538635 30	205
BSN 50 L407-I 230/240V 50Hz BC1-118 UNP	8711500 918994 30	205
BSN 50 L407-ITS 230/240V 50Hz BC1-118 UNP	8711500 536129 30	205
BSN 50/70 L407-TS 230/240V 50Hz BC1-118 UNP	8711500 539403 31	206
BSN 50/70 L427-TS 230/240V 50Hz BC1-118 UNP	8711500 539380 31	206
BSN 600 L407-ITS 230/240V 50Hz BC3-166 UNP	8711500 538802 30	205
BSN 70 L307 230/240V 50Hz BC1-118 UNP	8711500 919007 31	206
BSN 70 L307-TS 230/240V 50Hz BC1-118 UNP	8711500 917171 31	206
BSN 70 L407-ITS 230/240V 50Hz BC1-118 UNP	8711500 535832 30	205
BSN 70 L427-ITS 230/240V 50Hz BC1-118 UNP	8711500 749529 40	205
BSN 70/100 L407-TS 230/240V 50Hz BC1-123 UNP	8711500 060495 30	206
BSX 131 H96 220-240V 50Hz CW-178/78 1CT	8711500 919786 99	210
BSX 135 H96 220-240V 50Hz CW-149/67 1CT	8711500 920072 99	210
BSX 18 L82 240V 50Hz BC0-155 UNP	8711500 915580 30	209
BSX 180 H96 220-240V 50Hz CW-178/78 1CT	8711500 939005 99	210
BSX 35/55 L204 240V 50Hz BC1-118 UNP	8711500 915177 30	209
BSX 35/55 L82 240V 50Hz BC0-196 UNP	8711500 920539 30	209
BSX 91 H96 220-240V 50Hz CW-149/67 1CT	8711500 920393 99	210
BTA 18W 240V C UNP	8711500 915313 30	246
BTA 36W 240V C UNP	8711500 915450 30	246
Capsuline 100W GY6.35 12V CL 4000h 1CT	8711500 402158 50	139
Capsuline 100W GY6.35 24V CL 3000h 1CT	8711500 409645 50	139
Capsuline 10W G4 12V CL 2000h 1CT	8711500 412980 50	139
Capsuline 10W G4 12V CL 4000h 1CT	8711500 409706 50	139
Capsuline 20W G4 12V CL 2000h 1CT	8711500 412997 50	139
Capsuline 20W G4 12V CL 4000h 1CT	8711500 402103 50	139
Capsuline 20W G4 24V CL 4000h 1CT	8711500 409621 50	139
Capsuline 20W GY6.35 12V CL 4000h 1CT	8711500 402196 50	139
Capsuline 35W GY6.35 12V CL 4000h 1CT	8711500 402189 50	139
Capsuline 50W GY6.35 12V CL 2000h 1CT	8711500 412959 50	139
Capsuline 50W GY6.35 12V CL 4000h 1CT	8711500 402172 50	139
Capsuline 50W GY6.35 24V CL 4000h 1CT	8711500 409638 50	139
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Certaline 150W 230-240V 50/60Hz 1CT	8711500 913852 30	248
Certaline 60W 230-240V 50/60Hz 1CT	8711500 913784 30	248
Clickline 25W G9 240V CL 1CT	8711500 429759 50	151
Clickline 40W G9 240V CL 1CT	8711500 429810 50	151
Clickline 40W G9 240V FR 1CT	8711500 429841 50	151
Clickline 60W G9 240V CL 1CT	8711500 429872 50	151
Clickline 60W G9 240V FR 1CT	8711500 429902 50	151
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CSLS 100 SDW-T 220-240V 50/60Hz UNP	8711500 908704 30	203
CSLS 35 SDW-T 220-240V 50/60Hz UNP	8711500 911124 30	203
CSLS 50 SDW-T 220-240V 50/60Hz UNP	8711500 908087 30	203
Deco 15W ES 240V T29 CL 1CT	8711500 324122 50	181
Deco 15W SES 230-240V T25 CL 1CT	8711500 042279 50	181
Deco 40W BC 240V BW35 CL 2CT	8711500 379921 35	179
DecoLED 1W ES CW 230-240V G50 1BC	8727900 536355 25	16
DecoLED 1W GU10 BL 230-240V 1BC	8727900 536041 25	16
DecoLED 1W SES BL 230-240V PAR16 1BC	8727900 536133 25	16
DecoLED 1W SES CW 230-240V PAR16 1BC	8727900 536157 25	16
DecoLED 1W SES GR 230-240V B40 1BC	8727900 536928 25	16
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DecoLED 1W SES RE 230-240V B40 1BC	8727900 536935 25	16
DecoLED 1W SES RE 230-240V PAR16 1BC	8727900 536119 25	16
DecoLED 1W SES WH 230-240V B40 1BC	8727900 536966 25	16
DecoLED 1W SES WH 230-240V PAR16 1BC	8727900 536164 25	16
DecoLED 1W SES YE 230-240V B40 1BC	8727900 536942 25	16
DecoLED 1W SES YE 230-240V PAR16 1BC	8727900 536140 25	16
DecoLED Outdoor 1.5W BC CC 230-240V G60 1CT	8727900 535167 25	15
DecoLED Outdoor 1.5W ES CC 230-240V G60 1CT	8727900 535099 25	15
DecoLED Outdoor 1W BC BL 230-240V G50 1CT	8727900 535143 25	15
DecoLED Outdoor 1W BC CW 230-240V G50 1CT	8727900 535174 25	15
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DecoLED Outdoor 1W BC RE 230-240V G50 1CT	8727900 535129 25	15
DecoLED Outdoor 1W BC WH 230-240V G50 1CT	8727900 535181 25	15
DecoLED Outdoor 1W BC YE 230-240V G50 1CT	8727900 535150 25	15
DecoLED Outdoor 1W ES CW 230-240V G50 1CT	8727900 535105 25	15
DecoLED Outdoor 1W ES WH 230-240V G50 1CT	8727900 535112 25	15
Diamondline 35W 4100K GU5.3 12V 10D 1CT	8711500 428813 60	133
Diamondline 35W 4100K GU5.3 12V 24D 1CT	8711500 428844 60	133
Diamondline 35W 4100K GU5.3 12V 36D 1CT	8711500 428875 60	133
Diamondline 50W 4100K GU5.3 12V 10D 1CT	8711500 428905 60	133
Diamondline 50W 4100K GU5.3 12V 24D 1CT	8711500 428936 60	133
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Downlighter ESaver 7W WW SES R50 1CT	8727900 212006 25	64
Downlighter ESaver 8W WW ES 1CT	8711500 797988 10	64
EcoClassic30 105W BC 240V A60 CL 1CT	8727900 251906 25	148
EcoClassic30 105W ES 240V A60 CL 1CT	8727900 251821 25	148
EcoClassic30 105W ES 240V A60 FR 1CT	8727900 251869 25	148
EcoClassic30 140W BC 230V A60 CL 1CT	8727900 252576 25	148
EcoClassic30 140W BC 230V A60 FR 1CT	8727900 252583 25	148
EcoClassic30 140W ES 240V A60 FR 1CT	8727900 252590 25	148
EcoClassic30 18W BC 240V B35 CL 1CT	8727900 862645 00	149
EcoClassic30 18W BC 240V BW35 CL 1CT	8727900 863765 00	149
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EcoClassic30 28W BC 240V A60 CL 1CT	8727900 252859 25	148
EcoClassic30 28W BC 240V A60 FR 1CT	8727900 252866 25	148
EcoClassic30 28W BC 240V B35 CL 1CT	8727900 252736 20	149
EcoClassic30 28W BC 240V B35 FR 1CT	8727900 253023 20	149
EcoClassic30 28W BC 240V P45 CL 1CT	8727900 862966 01	150
EcoClassic30 28W ES 240V A60 FR 1CT	8727900 252842 25	148
EcoClassic30 28W ES 240V P45 CL 1CT	8727900 863000 01	150
EcoClassic30 28W SES 240V B35 CL 1CT	8727900 252712 20	149
EcoClassic30 28W SES 240V B35 FR 1CT	8727900 252729 20	149
EcoClassic30 42W BC 240V A60 CL 1CT	8727900 251876 25	148
EcoClassic30 42W BC 240V A60 FR 1CT	8727900 251913 25	148
EcoClassic30 42W BC 240V BW35 CL 1CT	8727900 863802 00	149
EcoClassic30 42W BC 240V P45 CL 1CT	8727900 862980 01	150
EcoClassic30 42W ES 240V A60 CL 1CT	8727900 251791 25	148
EcoClassic30 42W ES 240V A60 FR 1CT	8727900 251838 25	148
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EcoClassic30 53W ES 240V A60 FR 1CT	8727900 251845 25	148
EcoClassic30 70W BC 240V A60 CL 1CT	8727900 251890 25	148
EcoClassic30 70W BC 240V A60 FR 1CT	8727900 251937 25	148
EcoClassic30 70W ES 240V A60 CL 1CT	8727900 251814 25	148
EcoClassic30 70W ES 240V A60 FR 1CT	8727900 251852 25	148
EcoHalo Twist 35W GU10 230V MR16 50D 1CT	8727900 864045 00	141
EcoHalo Twist 35W GU10 240V MR16 50D 1CT	8727900 864175 00	141
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Genie ESaver 11W/827 ES 220-240V 1PH	8711500 801197 10	59
Genie ESaver 14W/827 BC 220-240V 1CT	8711500 801425 55	59
Genie ESaver 18W/827 BC 220-240V 1CT	8711500 801432 55	59
Genie ESaver 18W/827 BC 220-240V 1PH	8711500 801258 10	59
Genie ESaver 18W/827 ES 220-240V 1CT	8711500 801395 55	59
Genie ESaver 18W/827 ES 220-240V 1PH	8711500 801210 10	59
Genie ESaver 5W/827 ES 220-240V 1PH	8711500 801173 10	59
Genie ESaver 8W/827 BC 220-240V 1CT	8711500 801401 55	59
Genie ESaver 8W/827 ES 220-240V 1PH	8711500 801180 10	59
Halogen Dichroic 2yr 20W GU5.3 12V 1CT	8711500 648822 25	135
Halogen Dichroic 2yr 35W GU5.3 12V 1CT	8711500 413093 60	135
Halogen Dichroic 2yr 35W GU5.3 12V 36D 1CT	8727900 252439 60	135
Halogen Dichroic 2yr 50W GU5.3 12V 1CT	8711500 413130 60	135
Halogen Dichroic 2yr 50W GU5.3 12V 36D 1CT	8727900 252446 60	135
Halogen Spot 2yr 40W ES 240V NR63 30D 1CT	8711500 648822 25	145
Halogen Spot 2yr 60W ES 240V NR63 30D 1CT	8711500 648846 25	145
Halogen Twist 2yr 50W GZ10 240V 20D 1CT	8711500 428417 60	143
Halogen Twist 2yr 50W GZ10 240V 40D 1CT	8711500 428448 60	143
HalogenA IDE 1000W GES 240V CL 1CT	8711500 491299 10	151
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HalogenA PAR16 40W SES 240V 25D 1BL	8711500 438614 25	144
HalogenA PAR20 50W ES 240V 10D 1CT	8711500 494887 20	144
HalogenA PAR20 50W ES 240V 25D 1CT	8711500 494900 20	144
HalogenA PAR30S 75W ES 240V 10D 1CT	8711500 504425 20	145
HalogenA PAR30S 75W ES 240V 30D 1CT	8711500 504401 20	145
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HF-Basic 158 TL-D EII 220-240V 50/60Hz UNP	8711500 931566 30	233
HF-Basic 236 TL-D EII 220-240V 50/60Hz UNP	8711500 931580 30	233
HF-Basic 258 TL-D EII 220-240V 50/60Hz UNP	8711500 931603 30	233
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HF-M BLUE 109 LH TL/PL-S 230-240V UNP	8711500 536808 30	234
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HF-M BLUE 118 SH PL-C/PL-T 230-240V UNP	8711500 746160 30	235
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HF-M RED 114 SH TL/TL5 230-240V UNP	8711500 931405 30	234
HF-M RED 124 SH TL/TL5/PL-L 230-240V UNP	8711500 910400 30	234
HF-Matchbox BLUE 114 LH TL/PL-S/PL-C 230-240V UNP	8711500 536822 30	235
HF-Matchbox RED 118 SH PL-C/PL-T 230-240V UNP	8711500 928023 30	234
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HF-Performer 1 13-17 PL-T/C/R EII 220-240V UNP	8711500 914071 30	233
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HF-Performer 1 26-42 PL-T/C 220-240V 50/60Hz UNP	8711500 749352 30	232
HF-Performer 1 95-120 TL5 EII 220-240V 50/60Hz UNP	8711500 914828 30	232
HF-Performer 113 PL-T/C 220-240V 50/60Hz UNP	8711500 749451 30	232
HF-Performer 118 PL-T/C EII 220-240V 50/60Hz UNP	8711500 914033 30	233
HF-Performer 118 TL-D EII 220-240V 50/60Hz UNP	8711500 934086 30	230
HF-Performer 136 PL-L EII 220-240V 50/60Hz UNP	8711500 063700 30	231
HF-Performer 136 TL-D EII 220-240V 50/60Hz UNP	8711500 931467 30	230
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HF-Performer 170 TL-D EII 220-240V 50/60Hz UNP	8711500 934116 30	230
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HF-Performer 2 13-17 PL-T/C/R EII 220-240V UNP	8711500 914095 30	233
HF-Performer 2 14-35 TL5 HE EII 220-240V 50/60Hz UNP	8711500 910233 30	229
HF-Performer 2 22-42 PL-T/C/L/TL5C EII 220-240V UNP	8711500 913999 30	233
HF-Performer 2 24-39 TL5 HO EII 220-240V 50/60Hz UNP	8711500 910257 30	229
HF-Performer 2 95-120 TL5 EII 220-240V 50/60Hz UNP	8711500 914842 30	229
HF-Performer 218 PL-T/C 220-240V 50/60Hz UNP	8711500 749680 30	232
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HF-Performer 218 TL-D EII 220-240V 50/60Hz UNP	8711500 934130 30	230
HF-Performer 236 PL-L EII 220-240V 50/60Hz UNP	8711500 060518 30	232
HF-Performer 236 TL-D EII 220-240V 50/60Hz UNP	8711500 931504 30	230
HF-Performer 240 PL-L EII 220-240V 50/60Hz UNP	8711500 060594 30	232
HF-Performer 249 TL5 HO EII 220-240V 50/60Hz UNP	8711500 910271 30	229
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HF-Performer 258 TL-D EII 220-240V 50/60Hz UNP	8711500 931528 30	230
HF-Performer 270 TL-D EII 220-240V 50/60Hz UNP	8711500 058638 30	230
HF-Performer 280 TL5/PL-L EII 220-240V 50/60Hz UNP	8711500 060167 30	229
HF-Performer 3/414 TL5 EII 220-240V 50/60Hz UNP	8711500 059840 30	229
HF-Performer 3/418 TL-D EII 220-240V 50/60Hz UNP	8711500 931641 30	230
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HF-Performer Xtreme 136 TL-D EII 220-240V 50/60Hz UNP	8711500 912008 30	231
HF-Performer Xtreme 154 TL5 EII 220-240V 50/60Hz UNP	8711500 914293 30	231
HF-Performer Xtreme 158 TL-D EII 220-240V 50/60Hz UNP	8711500 912046 30	231
HF-Performer Xtreme 180 TL5 EII 220-240V 50/60Hz UNP	8711500 914408 30	231
HF-Performer Xtreme 236 TL-D EII 220-240V 50/60Hz UNP	8711500 912022 30	231
HF-Performer Xtreme 249 TL5 EII 220-240V 50/60Hz UNP	8711500 914279 30	231
HF-Performer Xtreme 254 TL5 EII 220-240V 50/60Hz UNP	8711500 914316 30	231
HF-Performer Xtreme 258 TL-D EII 220-240V 50/60Hz UNP	8711500 912060 30	231
HF-Performer Xtreme 280 TL5 EII 220-240V 50/60Hz UNP	8711500 914422 30	231
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MASTER CityWhite CDO-ET 100W/828 GES 1SL	8711500 206794 30	102
MASTER CityWhite CDO-ET 150W/828 GES 1SL	8711500 205483 15	102
MASTER CityWhite CDO-ET 70W/828 ES 1SL	8711500 205445 30	102
MASTER CityWhite CDO-TT 100W/828 GES 1SL	8711500 206817 15	102
MASTER CityWhite CDO-TT 150W/828 GES 1SL	8711500 205360 15	102
MASTER CityWhite CDO-TT 250W/828 GES 1SL	8711500 209054 15	102
MASTER CityWhite CDO-TT 50W/828 ES 1SL	8727900 800296 00	102
MASTER CityWhite CDO-TT 70W/828 ES 1SL	8711500 205469 15	102
MASTER CosmoWhite CPO-TW 140W/728 PGZ12 1CT	8711500 208538 15	101
MASTER CosmoWhite CPO-TW 45W/628 PGZ12 1CT	8711500 211194 15	101
MASTER CosmoWhite CPO-TW 60W/728 PGZ12 1CT	8711500 208514 15	101
MASTER CosmoWhite CPO-TW 90W/728 PGZ12 1CT	8711500 211217 15	101
MASTER GreenPower CG T 400W GES 1SL	8711500 201966 15	105
MASTER GreenPower CG T 600W GES 1SL	8711500 202024 15	105
MASTER HPI Plus 250W/745 BU GES 1SL	8711500 181145 15	111
MASTER HPI Plus 250W/745 BU-P GES 1SL	8711500 211477 15	111
MASTER HPI Plus 250W/767 BU GES 1SL	8711500 207395 15	111
MASTER HPI Plus 400W/745 BU GES 1SL	8711500 182524 10	111
MASTER HPI Plus 400W/745 BU-P GES 1SL	8711500 211439 10	111
MASTER HPI Plus 400W/745 BUS GES 1SL	8711500 181114 10	111
MASTER HPI Plus 400W/745 BUS-P GES 1SL	8711500 211453 10	111
MASTER HPI Plus 400W/767 BU GES 1SL	8711500 207371 10	111
MASTER HPI-T Plus 250W/645 GES 1SL	8711500 179890 15	110
MASTER HPI-T Plus 400W/645 GES 1SL	8711500 179906 15	110
MASTER LEDbulb 6W ES 2700K 230V A55 1CT	8727900 853537 00	11
MASTER LEDbulb 7W BC 2700K 230V A60 1CT	8727900 866513 00	11
MASTER LEDbulb 7W ES 2700K 230V A55 1CT	8727900 867503 00	11
MASTER LEDbulb 7W ES 2700K 230V A60 1CT	8727900 853056 00	11
MASTER LEDbulb 7W ES 3000K 230V A55 1CT	8727900 867404 00	11
MASTER LEDbulb 7W ES 4200K 230V A55 1CT	8727900 867381 00	11
MASTER LEDspot 11W 2700K 230V PAR30S 25D 1CT	8727900 853018 00	13
MASTER LEDspot 16W 2700K 230V PAR38 25D 1CT	8727900 852998 00	13
MASTER LEDspot 16W 2700K 230V PAR38 OD 1CT	8727900 853032 00	13
MASTER LEDspotMV 3-35W GU10 3000K 25D 1CT	8727900 852974 00	12
MASTER LEDspotMV 7-35W GU10 2700K 25D 1CT	8727900 867671 00	12
MASTER LEDspotMV 7-35W GU10 2700K 40D 1CT	8727900 867725 00	12
MASTER LEDspotMV 7-35W GU10 3000K 25D 1CT	8727900 867565 00	12
MASTER LEDspotMV 7-35W GU10 3000K 40D 1CT	8727900 867640 00	12
MASTER LEDspotMV 7-35W GU10 4200K 25D 1CT	8727900 867527 00	12
MASTER LEDspotMV 7-35W GU10 4200K 40D 1CT	8727900 867589 00	12
MASTER LEDspotMV 7-50W GU10 2700K 25D 1CT	8727900 860337 00	12
MASTER LEDspotMV 7-50W GU10 2700K 40D 1CT	8727900 860351 00	12
MASTER LEDspotMV 7-50W GU10 3000K 25D 1CT	8727900 860399 00	12
MASTER LEDspotMV 7-50W GU10 3000K 40D 1CT	8727900 860412 00	12
MASTER LEDspotMV 7-50W GU10 4200K 25D 1CT	8727900 860436 00	12
MASTER LEDspotMV 7-50W GU10 4200K 40D 1CT	8727900 860450 00	12
MASTER LEDspotMV 7W 2700K 230V NR63 25D 1CT	8727900 867442 00	12
MASTER LEDspotMV 7W 2700K 230V NR63 40D 1CT	8727900 867480 00	12
MASTER LEDspotMV 7W 3000K 230V NR63 25D 1CT	8727900 867749 00	12
MASTER LEDspotMV 7W 3000K 230V NR63 40D 1CT	8727900 867787 00	12
MASTER LEDspotMV 7W 4200K 230V NR63 25D 1CT	8727900 867428 00	12
MASTER LEDspotMV 7W 4200K 230V NR63 40D 1CT	8727900 867466 00	12
MASTER MHN-FC 1000W/740 230V XW UNP	8711500 214249 00	109
MASTER MHN-FC 2000W/740 400V XW UNP	8711500 213495 00	109
MASTER MHN-LA 1000W/842 230V XWH UNP	8711500 200785 00	108
MASTER MHN-LA 1000W/956 230V XWH UNP	8711500 200778 00	108
MASTER MHN-LA 2000W/842 400V XWH UNP	8711500 200747 00	108
MASTER MHN-LA 2000W/956 400V XWH UNP	8711500 200730 00	108
MASTER MHN-SA 1800W/956 (P)SFC 230V UNP	8711500 200754 00	108
MASTER MHN-SA 1800W/956 (P)SFC 400V UNP	8711500 200761 00	108
MASTER MHN-SA 1800W/956 230V XW UNP	8711500 201065 00	108
MASTER MHN-SA 2000W/956 400V XW UNP	8711500 200792 00	108
MASTER PAR20 E 20W ES 240V 10D 1CT	8711500 412393 17	143
MASTER PAR20 E 20W ES 240V 25D 1CT	8711500 412379 17	143
MASTER PL-C 10W/827/2P 1CT	8711500 706812 70	70
MASTER PL-C 10W/827/4P 1CT	8711500 623256 70	71
MASTER PL-C 10W/830/2P 1CT	8711500 707246 70	70
MASTER PL-C 10W/830/4P 1CT	8711500 623294 70	71
MASTER PL-C 10W/840/2P 1CT	8711500 704986 70	70
MASTER PL-C 10W/840/4P 1CT	8711500 623300 70	71
MASTER PL-C 13W/827/2P 1CT	8711500 620811 70	70
MASTER PL-C 13W/827/4P 1CT	8711500 623263 70	71
MASTER PL-C 13W/830/2P 1CT	8711500 620842 70	70
MASTER PL-C 13W/830/4P 1CT	8711500 623317 70	71
MASTER PL-C 13W/840/2P 1CT	8711500 620866 70	70

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MASTER PL-C 13W/840/4P 1CT	8711500 623324 70	71
MASTER PL-C 18W/827/2P 1CT	8711500 620880 70	70
MASTER PL-C 18W/827/4P 1CT	8711500 623270 70	71
MASTER PL-C 18W/830/2P 1CT	8711500 620910 70	70
MASTER PL-C 18W/830/4P 1CT	8711500 623331 70	71
MASTER PL-C 18W/835/2P 1CT	8711500 866462 70	70
MASTER PL-C 18W/840/2P 1CT	8711500 620934 70	70
MASTER PL-C 18W/840/4P 1CT	8711500 623348 70	71
MASTER PL-C 26W/827/2P 1CT	8711500 620958 70	70
MASTER PL-C 26W/827/4P 1CT	8711500 623287 70	71
MASTER PL-C 26W/830/2P 1CT	8711500 620989 70	70
MASTER PL-C 26W/830/4P 1CT	8711500 623355 70	71
MASTER PL-C 26W/835/2P 1CT	8711500 866509 70	70
MASTER PL-C 26W/835/4P 1CT	8711500 866530 70	71
MASTER PL-C 26W/840/2P 1CT	8711500 621009 70	70
MASTER PL-C 26W/840/4P 1CT	8711500 623362 70	71
MASTER PL-C 26W/865/2P 1CT	8711500 635310 70	70
MASTER PL-C Xtra 18W/830/2P 1CT	8711500 898951 70	72
MASTER PL-C Xtra 18W/830/4P 1CT	8711500 950338 70	72
MASTER PL-C Xtra 18W/840/2P 1CT	8711500 950307 70	72
MASTER PL-C Xtra 18W/840/4P 1CT	8711500 950369 70	72
MASTER PL-C Xtra 26W/830/2P 1CT	8711500 898838 70	72
MASTER PL-C Xtra 26W/830/4P 1CT	8711500 898890 70	73
MASTER PL-C Xtra 26W/840/2P 1CT	8711500 898869 70	72
MASTER PL-C Xtra 26W/840/4P 1CT	8711500 898920 70	73
MASTER PL-Electronic 11W/827 ES 230-240V 1CT	8711500 263681 25	57
MASTER PL-Electronic 11W/827 SES 230-240V 1CT	8711500 263773 25	57
MASTER PL-Electronic 15W/827 BC 230-240V 1CT	8711500 752055 10	57
MASTER PL-Electronic 15W/827 ES 230-240V 1CT	8711500 751423 10	57
MASTER PL-Electronic 20W/827 BC 230-240V 1CT	8711500 752062 10	57
MASTER PL-Electronic 20W/827 ES 230-240V 1CT	8711500 751430 10	57
MASTER PL-Electronic 23W/827 BC 230-240V 1CT	8711500 752079 10	57
MASTER PL-Electronic 23W/827 ES 230-240V 1CT	8711500 751447 10	57
MASTER PL-Electronic 27W/827 ES 230-240V 1CT	8711500 543851 10	57
MASTER PL-Electronic 33W/827 ES 230-240V 1CT	8711500 659996 10	57
MASTER PL-Electronic 5W/827 ES 230-240V 1CT	8711500 263537 25	57
MASTER PL-Electronic 5W/827 SES 230-240V 1CT	8711500 263568 25	57
MASTER PL-Electronic 8W/827 BC 230-240V 1CT	8711500 263636 25	57
MASTER PL-Electronic 8W/827 ES 230-240V 1CT	8711500 263582 25	57
MASTER PL-Electronic 8W/827 SES 230-240V 1CT	8711500 263667 25	57
MASTER PL-Electronic Automatic 15W/827 BC 1CT	8727900 260618 10	60
MASTER PL-Electronic Automatic 15W/827 ES 1CT	8727900 260601 10	60
MASTER PL-Electronic Polar 15W/827 ES 1CT	8711500 660459 10	60
MASTER PL-Electronic Polar 20W/827 ES 1CT	8711500 660039 10	60
MASTER PL-Electronic Polar 23W/827 ES 1CT	8711500 660053 10	60
MASTER PL-H 120W/830/4P 1CT	8711500 264039 25	80
MASTER PL-H 120W/840/4P 1CT	8711500 264053 25	80
MASTER PL-H 60W/830/4P 1CT	8711500 264077 25	80
MASTER PL-H 60W/840/4P 1CT	8711500 264091 25	80
MASTER PL-H 85W/830/4P 1CT	8711500 264114 25	80
MASTER PL-H 85W/840/4P 1CT	8711500 264237 25	80
MASTER PL-L 18W/830/4P 1CT	8711500 706683 40	77
MASTER PL-L 18W/835/4P 1CT	8711500 643285 40	77
MASTER PL-L 18W/840/4P 1CT	8711500 706690 40	77
MASTER PL-L 18W/865/4P 1CT	8711500 635143 40	77
MASTER PL-L 24W/830/4P 1CT	8711500 706713 40	77
MASTER PL-L 24W/835/4P 1CT	8711500 643308 40	77
MASTER PL-L 24W/840/4P 1CT	8711500 706720 40	77
MASTER PL-L 24W/865/4P 1CT	8711500 635174 40	77
MASTER PL-L 36W/830/4P 1CT	8711500 706744 40	77
MASTER PL-L 36W/840/4P 1CT	8711500 706751 40	77
MASTER PL-L 36W/865/4P 1CT	8711500 635204 40	77
MASTER PL-L 40W/830/4P 1CT	8711500 610942 40	77
MASTER PL-L 40W/835/4P 1CT	8711500 638656 40	77
MASTER PL-L 40W/840/4P 1CT	8711500 610973 40	77
MASTER PL-L 55W/830/4P 1CT	8711500 615411 40	77
MASTER PL-L 55W/835/4P 1CT	8711500 636652 40	77
MASTER PL-L 55W/840/4P 1CT	8711500 615428 40	77
MASTER PL-L 55W/865/4P 1CT	8711500 261700 40	77
MASTER PL-L 80W/830/4P 1CT	8711500 867087 40	77
MASTER PL-L 80W/835/4P 1CT	8711500 867100 40	77
MASTER PL-L 80W/840/4P 1CT	8711500 867124 40	77
MASTER PL-L Polar 24W/830/4P 1CT	8711500 261540 40	78
MASTER PL-L Polar 24W/840/4P 1CT	8711500 261564 40	78
MASTER PL-L Polar 36W/830/4P 1CT	8711500 261588 40	78
MASTER PL-L Polar 36W/840/4P 1CT	8711500 261601 40	78
MASTER PL-L Polar 55W/830/4P 1CT	8711500 261625 40	78
MASTER PL-L Polar 55W/840/4P 1CT	8711500 261649 40	78
MASTER PL-L Xtra 24W/830/4P 1CT	8711500 267672 40	79
MASTER PL-L Xtra 24W/840/4P 1CT	8711500 267702 40	79
MASTER PL-L Xtra 36W/830/4P 1CT	8711500 897589 40	79
MASTER PL-L Xtra 36W/840/4P 1CT	8711500 897602 40	79
MASTER PL-L Xtra 40W/830/4P 1CT	8711500 267801 40	79
MASTER PL-L Xtra 40W/840/4P 1CT	8711500 267825 40	79
MASTER PL-L Xtra 55W/830/4P 1CT	8711500 897626 40	79
MASTER PL-L Xtra 55W/840/4P 1CT	8711500 897640 40	79
MASTER PL-L Xtra Polar 24W/830/4P 1CT	8711500 267726 40	79
MASTER PL-L Xtra Polar 24W/840/4P 1CT	8711500 267740 40	79
MASTER PL-L Xtra Polar 36W/830/4P 1CT	8711500 267764 40	79
MASTER PL-L Xtra Polar 36W/840/4P 1CT	8711500 267788 40	79
MASTER PL-L Xtra Polar 55W/830/4P 1CT	8711500 267849 40	79
MASTER PL-L Xtra Polar 55W/840/4P 1CT	8711500 267863 40	79
MASTER PL-R Eco 14W/830/4P 1CT	8711500 265951 70	67
MASTER PL-R Eco 14W/840/4P 1CT	8711500 265982 70	67

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MASTER PL-R Eco 17W/830/4P 1CT	8711500 266019 70	67
MASTER PL-R Eco 17W/840/4P 1CT	8711500 266040 70	67
MASTER PL-S 11W/827/2P 1CT	8711500 261014 70	68
MASTER PL-S 11W/827/4P 1CT	8711500 261144 70	69
MASTER PL-S 11W/840/2P 1CT	8711500 261090 70	68
MASTER PL-S 11W/840/4P 1CT	8711500 261229 70	69
MASTER PL-S 5W/827/2P 1CT	8711500 260451 70	68
MASTER PL-S 5W/827/4P 1CT	8711500 260512 70	69
MASTER PL-S 5W/840/4P 1CT	8711500 260543 70	69
MASTER PL-S 7W/827/2P 1CT	8711500 260574 70	68
MASTER PL-S 7W/827/4P 1CT	8711500 260703 70	69
MASTER PL-S 7W/840/2P 1CT	8711500 260659 70	68
MASTER PL-S 7W/840/4P 1CT	8711500 260765 70	69
MASTER PL-S 9W/827/2P 1CT	8711500 260796 70	68
MASTER PL-S 9W/827/4P 1CT	8711500 260901 70	69
MASTER PL-S 9W/830/2P 1CT	8711500 260840 70	68
MASTER PL-S 9W/840/2P 1CT	8711500 260871 70	68
MASTER PL-S 9W/840/4P 1CT	8711500 260963 70	69
MASTER PL-T 13W/827/2P 1CT	8711500 559265 70	73
MASTER PL-T 13W/827/4P 1CT	8711500 559760 70	74
MASTER PL-T 13W/830/2P 1CT	8711500 272119 70	73
MASTER PL-T 13W/830/4P 1CT	8711500 610447 70	74
MASTER PL-T 13W/840/2P 1CT	8711500 559739 70	73
MASTER PL-T 13W/840/4P 1CT	8711500 610478 70	74
MASTER PL-T 18W/827/2P 1CT	8711500 559791 70	73
MASTER PL-T 18W/827/4P 1CT	8711500 559821 70	74
MASTER PL-T 18W/830/2P 1CT	8711500 610508 70	73
MASTER PL-T 18W/830/4P 1CT	8711500 610768 70	74
MASTER PL-T 18W/840/2P 1CT	8711500 610614 70	73
MASTER PL-T 18W/840/4P 1CT	8711500 610997 70	74
MASTER PL-T 26W/827/2P 1CT	8711500 559883 70	73
MASTER PL-T 26W/827/4P 1CT	8711500 559937 70	74
MASTER PL-T 26W/830/2P 1CT	8711500 611024 70	73
MASTER PL-T 26W/830/4P 1CT	8711500 611208 70	74
MASTER PL-T 26W/840/2P 1CT	8711500 611130 70	73
MASTER PL-T 26W/840/4P 1CT	8711500 611253 70	74
MASTER PL-T 32W/827/4P 1CT	8711500 559968 70	74
MASTER PL-T 32W/830/4P 1CT	8711500 611284 70	74
MASTER PL-T 32W/840/4P 1CT	8711500 611314 70	74
MASTER PL-T 42W/827/4P 1CT	8711500 560025 70	74
MASTER PL-T 42W/830/4P 1CT	8711500 611345 70	74
MASTER PL-T 42W/840/4P 1CT	8711500 611376 70	74
MASTER PL-T 57W/827/4P 1CT	8711500 560056 70	74
MASTER PL-T 57W/830/4P 1CT	8711500 611406 70	74
MASTER PL-T 57W/840/4P 1CT	8711500 611451 70	74
MASTER PL-T TOP 18W/830/4P 1CT	8711500 889089 70	75
MASTER PL-T TOP 18W/840/4P 1CT	8711500 889416 70	75
MASTER PL-T TOP 26W/830/4P 1CT	8711500 889447 70	75
MASTER PL-T TOP 26W/840/4P 1CT	8711500 889478 70	75
MASTER PL-T TOP 32W/827/4P 1CT	8711500 611581 70	75
MASTER PL-T TOP 32W/830/4P 1CT	8711500 560230 70	75
MASTER PL-T TOP 32W/840/4P 1CT	8711500 560261 70	75
MASTER PL-T TOP 42W/827/4P 1CT	8711500 272089 70	75
MASTER PL-T TOP 42W/830/4P 1CT	8711500 610041 70	75
MASTER PL-T TOP 42W/840/4P 1CT	8711500 610089 70	75
MASTER PL-T TOP 57W/827/4P 1CT	8711500 560186 70	75
MASTER PL-T TOP 57W/830/4P 1CT	8711500 610225 70	75
MASTER PL-T TOP 57W/840/4P 1CT	8711500 610348 70	75
MASTER PL-T Xtra 32W/830/4P 1CT	8711500 897404 70	76
MASTER PL-T Xtra 32W/840/4P 1CT	8711500 897435 70	76
MASTER PL-T Xtra 42W/830/4P 1CT	8711500 897466 70	76
MASTER PL-T Xtra 42W/840/4P 1CT	8711500 897497 70	76
MASTER PL-T Xtra 57W/830/4P 1CT	8711500 897527 70	76
MASTER PL-T Xtra 57W/840/4P 1CT	8711500 897558 70	76
MASTER SDW-T 100W/825 PG12-1 1SL	8711500 734044 15	93
MASTER SDW-T 35W/825 PG12-1 1SL	8711500 734020 15	93
MASTER SDW-T 50W/825 PG12-1 1SL	8711500 734037 15	93
MASTER SDW-TG Mini 100W/825 GX12-1 1CT	8711500 202338 15	93
MASTER SDW-TG Mini 50W/825 GX12-1 1CT	8711500 203236 15	93
MASTER SON PIA Plus 100W/220 GES 1SL	8711500 182258 15	104
MASTER SON PIA Plus 150W/220 GES 1SL	8711500 182289 15	104
MASTER SON PIA Plus 250W/220 GES 1SL	8711500 193445 15	104
MASTER SON PIA Plus 400W/220 GES 1SL	8711500 193452 15	104
MASTER SON PIA Plus 70W/220 I ES 1SL	8711500 204264 30	104
MASTER SON-T PIA Hg-Free 150W/221 GES 1SL	8711500 200617 15	105
MASTER SON-T PIA Hg-Free 250W/221 GES 1SL	8711500 200594 15	105
MASTER SON-T PIA Plus 100W/220 GES 1SL	8711500 192301 15	104
MASTER SON-T PIA Plus 150W/220 GES 1SL	8711500 192295 15	104
MASTER SON-T PIA Plus 400W/220 GES 1SL	8711500 179883 15	104
MASTER SON-T PIA Plus 50W/220 ES 1SL	8711500 192653 15	104
MASTER SON-T PIA Plus 600W/220 GES 1SL	8711500 197429 15	104
MASTER SON-T PIA Plus 70W/220 ES 1SL	8711500 192660 15	104
MASTER TL Mini Super 80 13W/840 1FM	8711500 716859 27	51
MASTER TL Mini Super 80 8W/840 1FM	8711500 716422 27	51
MASTER TL-D 90 De Luxe 18W/930 1SL SLV	8711500 888372 25	39
MASTER TL-D 90 De Luxe 18W/940 1SL SLV	8711500 888396 25	39
MASTER TL-D 90 De Luxe 18W/950 1SL SLV	8711500 888433 25	39
MASTER TL-D 90 De Luxe 18W/965 1SL SLV	8711500 888464 25	39
MASTER TL-D 90 De Luxe 36W/930 1SL SLV	8711500 888563 25	39
MASTER TL-D 90 De Luxe 36W/940 1SL SLV	8711500 888587 25	39
MASTER TL-D 90 De Luxe 36W/950 1SL SLV	8711500 888600 25	39
MASTER TL-D 90 De Luxe 36W/965 1SL SLV	8711500 888624 25	39
MASTER TL-D 90 De Luxe 58W/930 1SL SLV	8711500 888679 25	39
MASTER TL-D 90 De Luxe 58W/940 1SL SLV	8711500 888693 25	39

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MASTER TL-D 90 De Luxe 58W/950 1SL SLV	8711500 888716 25	39
MASTER TL-D 90 De Luxe 58W/965 1SL SLV	8711500 888730 25	39
MASTER TL-D 90 Graphica 18W/950 1SL	8711500 888501 25	40
MASTER TL-D 90 Graphica 18W/965 1SL	8711500 888525 25	40
MASTER TL-D 90 Graphica 36W/950 1SL	8711500 888648 25	40
MASTER TL-D 90 Graphica 36W/965 1SL	8711500 888365 25	40
MASTER TL-D 90 Graphica 58W/950 1SL	8711500 888754 25	40
MASTER TL-D 90 Graphica 58W/965 1SL	8711500 888778 25	40
MASTER TL-D ActiViva Active 18W 1SL	8711500 267306 40	38
MASTER TL-D ActiViva Active 36W 1SL	8711500 267337 40	38
MASTER TL-D ActiViva Active 58W 1SL	8711500 267351 40	38
MASTER TL-D ActiViva Natural 18W 1SL	8711500 951830 40	38
MASTER TL-D ActiViva Natural 36W 1SL	8711500 951854 40	38
MASTER TL-D ActiViva Natural 58W 1SL	8711500 951878 40	38
MASTER TL-D Eco 16W/830 1SL	8711500 268570 40	29
MASTER TL-D Eco 16W/840 1SL	8711500 268617 40	29
MASTER TL-D Eco 16W/865 1SL	8711500 268716 40	29
MASTER TL-D Eco 32W/830 1SL	8711500 264589 40	29
MASTER TL-D Eco 32W/840 1SL	8711500 264626 40	29
MASTER TL-D Eco 32W/865 1SL	8711500 264640 40	29
MASTER TL-D Eco 51W/830 1SL	8711500 264664 40	29
MASTER TL-D Eco 51W/840 1SL	8711500 264701 40	29
MASTER TL-D Eco 51W/865 1SL	8711500 264725 40	29
MASTER TL-D Eco 63W/830 1SL	8711500 268730 40	29
MASTER TL-D Eco 63W/840 1SL	8711500 268754 40	29
MASTER TL-D HF Super 80 16W/830 1SL	8711500 631442 40	32
MASTER TL-D HF Super 80 16W/840 1SL	8711500 631473 40	32
MASTER TL-D HF Super 80 32W/830 1SL	8711500 631503 40	32
MASTER TL-D HF Super 80 32W/840 1SL	8711500 631534 40	32
MASTER TL-D HF Super 80 50W/830 1SL	8711500 631565 40	32
MASTER TL-D HF Super 80 50W/840 1SL	8711500 631596 40	32
MASTER TL-D Reflex 18W/830 1SL	8711500 636447 40	32
MASTER TL-D Reflex 18W/840 1SL	8711500 636478 40	32
MASTER TL-D Reflex 18W/865 1SL	8711500 260291 40	32
MASTER TL-D Reflex 36W/830 1SL	8711500 559494 40	32
MASTER TL-D Reflex 36W/840 1SL	8711500 559531 40	32
MASTER TL-D Reflex 58W/830 1SL	8711500 559579 40	32
MASTER TL-D Reflex 58W/840 1SL	8711500 559623 40	32
MASTER TL-D Reflex 58W/865 1SL	8711500 260338 40	32
MASTER TL-D Secura 18W/840 1SL	8711500 640109 40	31
MASTER TL-D Secura 36W/840 1SL	8711500 640147 40	31
MASTER TL-D Secura 58W/840 1SL	8711500 640185 40	31
MASTER TL-D Super 80 15W/830 1SL	8711500 702791 40	30
MASTER TL-D Super 80 15W/840 1SL	8711500 702807 40	30
MASTER TL-D Super 80 18W/827 1SL	8711500 631626 40	30
MASTER TL-D Super 80 18W/830 1SL	8711500 631657 40	30
MASTER TL-D Super 80 18W/830 UNP	8711500 610546 40	30
MASTER TL-D Super 80 18W/835 1SL	8711500 631688 40	30
MASTER TL-D Super 80 18W/840 1SL	8711500 631718 40	30
MASTER TL-D Super 80 18W/840 UNP	8711500 610126 40	30
MASTER TL-D Super 80 18W/865 1SL	8711500 631770 40	30
MASTER TL-D Super 80 1m 36W/830 1SL	8711500 558749 40	30
MASTER TL-D Super 80 1m 36W/840 1SL	8711500 558770 40	30
MASTER TL-D Super 80 23W/840 1SL	8711500 558701 40	30
MASTER TL-D Super 80 30W/830 1SL	8711500 631831 40	30
MASTER TL-D Super 80 30W/840 1SL	8711500 631862 40	30
MASTER TL-D Super 80 36W/827 1SL	8711500 631923 40	30
MASTER TL-D Super 80 36W/830 1SL	8711500 631954 40	30
MASTER TL-D Super 80 36W/830 UNP	8711500 610171 40	30
MASTER TL-D Super 80 36W/835 1SL	8711500 631985 40	30
MASTER TL-D Super 80 36W/840 1SL	8711500 632012 40	30
MASTER TL-D Super 80 36W/840 UNP	8711500 610188 40	30
MASTER TL-D Super 80 36W/865 1SL	8711500 632074 40	30
MASTER TL-D Super 80 38W/830 1SL	8711500 558800 40	30
MASTER TL-D Super 80 38W/840 1SL	8711500 558831 40	30
MASTER TL-D Super 80 58W/827 1SL	8711500 632104 40	30
MASTER TL-D Super 80 58W/830 1SL	8711500 632135 40	30
MASTER TL-D Super 80 58W/830 UNP	8711500 610195 40	30
MASTER TL-D Super 80 58W/835 1SL	8711500 632166 40	30
MASTER TL-D Super 80 58W/840 1SL	8711500 632197 40	30
MASTER TL-D Super 80 58W/840 UNP	8711500 610294 40	30
MASTER TL-D Super 80 58W/865 1SL	8711500 632258 40	30
MASTER TL-D Super 80 70W/830 1SL	8711500 615985 40	30
MASTER TL-D Super 80 70W/835 1SL	8711500 642738 40	30
MASTER TL-D Super 80 70W/840 1SL	8711500 615923 40	30
MASTER TL-D Xtra 18W/830 1SL	8711500 544988 40	33
MASTER TL-D Xtra 18W/840 1SL	8711500 558626 40	33
MASTER TL-D Xtra 18W/865 1SL	8711500 892812 40	33
MASTER TL-D Xtra 30W/830 1SL	8711500 895325 40	33
MASTER TL-D Xtra 30W/840 1SL	8711500 895363 40	33
MASTER TL-D Xtra 36W/830 1SL	8711500 558718 40	33
MASTER TL-D Xtra 36W/840 1SL	8711500 558763 40	33
MASTER TL-D Xtra 36W/865 1SL	8711500 892836 40	33
MASTER TL-D Xtra 58W/830 1SL	8711500 558886 40	33
MASTER TL-D Xtra 58W/840 1SL	8711500 558909 40	33
MASTER TL-D Xtra 58W/865 1SL	8711500 892850 40	33
MASTER TL-D Xtra 70W/830 1SL	8711500 895486 40	33
MASTER TL-D Xtra 70W/840 1SL	8711500 895523 40	33
MASTER TL-D Xtra Polar 18W/830 T12 1SL	8711500 893031 25	34
MASTER TL-D Xtra Polar 18W/840 T12 1SL	8711500 893055 25	34
MASTER TL-D Xtra Polar 36W/830 T12 1SL	8711500 893154 25	34
MASTER TL-D Xtra Polar 36W/840 T12 1SL	8711500 893178 25	34
MASTER TL-D Xtra Polar 58W/830 T12 1SL	8711500 893277 25	34
MASTER TL-D Xtra Polar 58W/840 T12 1SL	8711500 893291 25	34

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MASTER TL-D Xtra Secura 18W/830 1SL	8711500 889737 40	35
MASTER TL-D Xtra Secura 18W/840 1SL	8711500 889751 40	35
MASTER TL-D Xtra Secura 30W/830 1SL	8711500 951199 40	35
MASTER TL-D Xtra Secura 30W/840 1SL	8711500 951212 40	35
MASTER TL-D Xtra Secura 36W/830 1SL	8711500 889812 40	35
MASTER TL-D Xtra Secura 36W/840 1SL	8711500 889836 40	35
MASTER TL-D Xtra Secura 58W/830 1SL	8711500 889898 40	35
MASTER TL-D Xtra Secura 58W/840 1SL	8711500 889911 40	35
MASTER TL-D Xtreme 18W/830 1SL	8711500 544926 40	36
MASTER TL-D Xtreme 18W/840 1SL	8711500 544964 40	36
MASTER TL-D Xtreme 18W/865 1SL	8711500 892751 40	36
MASTER TL-D Xtreme 36W/830 1SL	8711500 558664 40	36
MASTER TL-D Xtreme 36W/840 1SL	8711500 558688 40	36
MASTER TL-D Xtreme 36W/865 1SL	8711500 892775 40	36
MASTER TL-D Xtreme 58W/830 1SL	8711500 558824 40	36
MASTER TL-D Xtreme 58W/840 1SL	8711500 558862 40	36
MASTER TL-D Xtreme 58W/865 1SL	8711500 892799 40	36
MASTER TL-D Xtreme 70W/830 1SL	8711500 895509 40	36
MASTER TL-D Xtreme 70W/840 1SL	8711500 895547 40	36
MASTER TL-D Xtreme Polar 18W/830 1SL	8711500 892973 25	37
MASTER TL-D Xtreme Polar 18W/840 1SL	8711500 892997 25	37
MASTER TL-D Xtreme Polar 36W/830 1SL	8711500 893093 25	37
MASTER TL-D Xtreme Polar 36W/840 1SL	8711500 893116 25	37
MASTER TL-D Xtreme Polar 58W/830 1SL	8711500 893215 25	37
MASTER TL-D Xtreme Polar 58W/840 1SL	8711500 893239 25	37
MASTER TL-D Xtreme Secura 18W/830 1SL	8711500 889690 40	38
MASTER TL-D Xtreme Secura 18W/840 1SL	8711500 889713 40	38
MASTER TL-D Xtreme Secura 36W/830 1SL	8711500 889775 40	38
MASTER TL-D Xtreme Secura 36W/840 1SL	8711500 889799 40	38
MASTER TL-D Xtreme Secura 58W/830 1SL	8711500 889850 40	38
MASTER TL-D Xtreme Secura 58W/840 1SL	8711500 889874 40	38
MASTER TL5 Circular 22W/830 1CT	8711500 640956 25	50
MASTER TL5 Circular 22W/840 1CT	8711500 642219 25	50
MASTER TL5 Circular 40W/830 1CT	8711500 640970 25	50
MASTER TL5 Circular 40W/840 1CT	8711500 642233 25	50
MASTER TL5 Circular 55W/830 1CT	8711500 642790 25	50
MASTER TL5 Circular 55W/840 1CT	8711500 642516 25	50
MASTER TL5 Circular 60W/830 1CT	8711500 642592 25	50
MASTER TL5 Circular 60W/840 1CT	8711500 642615 25	50
MASTER TL5 HE 14W/830 1SL	8711500 639387 55	42
MASTER TL5 HE 14W/830 UNP	8711500 610638 55	42
MASTER TL5 HE 14W/835 1SL	8711500 707659 55	42
MASTER TL5 HE 14W/835 UNP	8711500 610645 55	42
MASTER TL5 HE 14W/840 1SL	8711500 639400 55	42
MASTER TL5 HE 14W/840 UNP	8711500 610669 55	42
MASTER TL5 HE 14W/865 1SL	8711500 710093 55	42
MASTER TL5 HE 14W/865 UNP	8711500 610683 55	42
MASTER TL5 HE 21W/830 1SL	8711500 639424 55	42
MASTER TL5 HE 21W/830 UNP	8711500 610706 55	42
MASTER TL5 HE 21W/835 UNP	8711500 610713 55	42
MASTER TL5 HE 21W/840 1SL	8711500 639448 55	42
MASTER TL5 HE 21W/840 UNP	8711500 610720 55	42
MASTER TL5 HE 21W/865 1SL	8711500 710116 55	42
MASTER TL5 HE 28W/830 1SL	8711500 639462 55	42
MASTER TL5 HE 28W/830 UNP	8711500 610812 55	42
MASTER TL5 HE 28W/835 1SL	8711500 710048 55	42
MASTER TL5 HE 28W/835 UNP	8711500 610874 55	42
MASTER TL5 HE 28W/840 1SL	8711500 639486 55	42
MASTER TL5 HE 28W/840 UNP	8711500 610904 55	42
MASTER TL5 HE 28W/865 1SL	8711500 710154 55	42
MASTER TL5 HE 28W/865 UNP	8711500 610928 55	42
MASTER TL5 HE 35W/830 1SL	8711500 639509 55	42
MASTER TL5 HE 35W/830 UNP	8711500 611031 55	42
MASTER TL5 HE 35W/835 1SL	8711500 710062 55	42
MASTER TL5 HE 35W/835 UNP	8711500 611048 55	42
MASTER TL5 HE 35W/840 1SL	8711500 639523 55	42
MASTER TL5 HE 35W/840 UNP	8711500 611055 55	42
MASTER TL5 HE 35W/865 1SL	8711500 710185 55	42
MASTER TL5 HE ActiViva Active 14W 1SL	8711500 267429 55	48
MASTER TL5 HE ActiViva Active 21W 1SL	8711500 267467 55	48
MASTER TL5 HE ActiViva Active 28W 1SL	8711500 267597 55	49
MASTER TL5 HE ActiViva Active 35W 1SL	8711500 267658 55	49
MASTER TL5 HE ActiViva Natural 14W 1SL	8711500 267405 55	48
MASTER TL5 HE ActiViva Natural 21W 1SL	8711500 267443 55	48
MASTER TL5 HE ActiViva Natural 28W 1SL	8711500 267566 55	49
MASTER TL5 HE ActiViva Natural 35W 1SL	8711500 267610 55	49
MASTER TL5 HE Secura 14W/840 UNP	8711500 954763 55	43
MASTER TL5 HE Secura 28W/840 UNP	8711500 952158 55	43
MASTER TL5 HE Secura 35W/840 UNP	8711500 952196 55	43
MASTER TL5 HO 24W/827 1SL	8711500 643087 55	44
MASTER TL5 HO 24W/830 1SL	8711500 639585 55	44
MASTER TL5 HO 24W/830 UNP	8711500 636980 55	44
MASTER TL5 HO 24W/840 1SL	8711500 639608 55	44
MASTER TL5 HO 24W/840 UNP	8711500 637048 55	44
MASTER TL5 HO 24W/865 1SL	8711500 643933 55	44
MASTER TL5 HO 39W/827 1SL	8711500 643100 55	44
MASTER TL5 HO 39W/830 1SL	8711500 639622 55	44
MASTER TL5 HO 39W/830 UNP	8711500 637161 55	44
MASTER TL5 HO 39W/840 1SL	8711500 639646 55	44
MASTER TL5 HO 39W/840 UNP	8711500 637222 55	44
MASTER TL5 HO 39W/865 1SL	8711500 643872 55	44
MASTER TL5 HO 49W/827 1SL	8711500 643124 55	44
MASTER TL5 HO 49W/830 1SL	8711500 639547 55	44
MASTER TL5 HO 49W/830 UNP	8711500 637529 55	44

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MASTER TL5 HO 49W/835 UNP	8711500 891105 55	44
MASTER TL5 HO 49W/840 1SL	8711500 639561 55	44
MASTER TL5 HO 49W/840 UNP	8711500 637581 55	44
MASTER TL5 HO 49W/865 1SL	8711500 643896 55	44
MASTER TL5 HO 54W/827 1SL	8711500 643148 55	44
MASTER TL5 HO 54W/830 1SL	8711500 643162 55	44
MASTER TL5 HO 54W/830 UNP	8711500 637345 55	44
MASTER TL5 HO 54W/840 1SL	8711500 643186 55	44
MASTER TL5 HO 54W/840 UNP	8711500 637406 55	44
MASTER TL5 HO 54W/865 1SL	8711500 643919 55	44
MASTER TL5 HO 80W/827 UNP	8711500 263292 55	44
MASTER TL5 HO 80W/830 1SL	8711500 710406 55	44
MASTER TL5 HO 80W/840 1SL	8711500 710451 55	44
MASTER TL5 HO 80W/840 UNP	8711500 644381 55	44
MASTER TL5 HO 80W/865 1SL	8711500 710475 55	44
MASTER TL5 HO 90 De Luxe 24W/940 1SL	8711500 868954 20	48
MASTER TL5 HO 90 De Luxe 24W/950 1SL	8711500 890641 20	48
MASTER TL5 HO 90 De Luxe 24W/965 1SL	8711500 261304 20	48
MASTER TL5 HO 90 De Luxe 49W/940 1SL	8711500 868978 20	48
MASTER TL5 HO 90 De Luxe 49W/950 1SL	8711500 890627 20	48
MASTER TL5 HO 90 De Luxe 49W/965 1SL	8711500 869722 20	48
MASTER TL5 HO 90 De Luxe 54W/940 1SL	8711500 869050 20	48
MASTER TL5 HO 90 De Luxe 54W/950 1SL	8711500 890665 20	48
MASTER TL5 HO 90 De Luxe 54W/965 1SL	8711500 869838 20	48
MASTER TL5 HO ActiViva Active 24W 1SL	8711500 951755 55	48
MASTER TL5 HO ActiViva Active 49W 1SL	8711500 951816 55	49
MASTER TL5 HO ActiViva Active 54W 1SL	8711500 951779 55	49
MASTER TL5 HO ActiViva Natural 24W 1SL	8711500 951694 55	48
MASTER TL5 HO ActiViva Natural 49W 1SL	8711500 951793 55	49
MASTER TL5 HO ActiViva Natural 54W 1SL	8711500 951717 55	49
MASTER TL5 HO Colored 24W Blue 1SL	8711500 611864 20	49
MASTER TL5 HO Colored 24W Green 1SL	8711500 611840 20	49
MASTER TL5 HO Colored 24W Red 1SL	8711500 611826 20	49
MASTER TL5 HO Colored 54W Blue 1SL	8711500 611949 20	49
MASTER TL5 HO Colored 54W Green 1SL	8711500 611925 20	49
MASTER TL5 HO Colored 54W Red 1SL	8711500 611901 20	49
MASTER TL5 HO Secura 24W/840 UNP	8711500 954800 55	45
MASTER TL5 HO Secura 49W/840 UNP	8711500 952271 55	45
MASTER TL5 HO Secura 54W/840 UNP	8711500 952318 55	45
MASTER TL5 HO Secura 80W/840 UNP	8711500 952356 55	45
MASTER TL5 HO TOP 49W/830 1SL	8711500 266835 05	47
MASTER TL5 HO TOP 49W/840 1SL	8711500 266873 05	47
MASTER TL5 HO TOP 54W/830 1SL	8711500 266934 05	47
MASTER TL5 HO TOP 54W/840 1SL	8711500 266958 05	47
MASTER TL5 HO TOP 80W/830 1SL	8711500 266897 05	47
MASTER TL5 HO TOP 80W/840 1SL	8711500 266910 05	47
MASTER TL5 HO Xtra 49W/830 1SL	8711500 262516 05	46
MASTER TL5 HO Xtra 49W/840 1SL	8711500 262530 05	46
MASTER TL5 HO Xtra 54W/830 1SL	8711500 262320 05	46
MASTER TL5 HO Xtra 54W/840 1SL	8711500 263520 05	46
MASTER TL5 HO Xtra 80W/830 1SL	8711500 262615 05	46
MASTER TL5 HO Xtra 80W/840 1SL	8711500 263032 05	46
MASTER TL5 VHO TOP 120W/830 1SL	8711500 267016 05	47
MASTER TL5 VHO TOP 120W/830 UNP	8711500 267245 55	47
MASTER TL5 VHO TOP 120W/840 1SL	8711500 267030 05	47
MASTER TL5 VHO TOP 120W/840 UNP	8711500 267269 55	47
MASTER TL5 VHO TOP 95W/830 1SL	8711500 266972 05	47
MASTER TL5 VHO TOP 95W/830 UNP	8711500 267177 55	47
MASTER TL5 VHO TOP 95W/840 1SL	8711500 266996 05	47
MASTER TL5 VHO TOP 95W/840 UNP	8711500 267221 55	47
MASTERCapsule 20W GY6.35 12V IR 1CT	8727900 203530 70	138
MASTERCapsule 30W GY6.35 12V IR 1CT	8727900 203547 70	138
MASTERCapsule 45W GY6.35 12V IR 1CT	8727900 203554 70	138
MASTERCapsule 60W GY6.35 12V IR 1CT	8727900 203561 70	138
MASTERCClassic 20W ES 240V B35 FR 1CT	8727900 250411 15	147
MASTERCClassic 20W SBC 240V B35 CL 1CT	8727900 252392 15	147
MASTERCColour CDM-I 25W/830 ES PAR38 10D 1CT	8711500 213167 10	92
MASTERCColour CDM-I 25W/830 ES PAR38 25D 1CT	8711500 213181 10	92
MASTERCColour CDM-I 25W/830 ES PAR38 40D 1CT	8711500 213204 10	92
MASTERCColour CDM-R 35W/830 ES PAR20 10D 1CT	8711500 198082 15	91
MASTERCColour CDM-R 35W/830 ES PAR20 30D 1CT	8711500 198105 15	91
MASTERCColour CDM-R 35W/830 ES PAR30L 10D 1CT	8711500 197016 10	91
MASTERCColour CDM-R 35W/830 ES PAR30L 30D 1CT	8711500 197030 10	91
MASTERCColour CDM-R 35W/942 ES PAR20 10D 1CT	8711500 207852 15	91
MASTERCColour CDM-R 35W/942 ES PAR20 30D 1CT	8711500 207876 15	91
MASTERCColour CDM-R 70W/830 ES PAR30L 10D 1CT	8711500 197054 10	91
MASTERCColour CDM-R 70W/830 ES PAR30L 40D 1CT	8711500 197078 10	91
MASTERCColour CDM-R 70W/942 ES PAR30L 10D 1CT	8711500 207258 10	91
MASTERCColour CDM-R 70W/942 ES PAR30L 30D 1CT	8711500 207296 10	91
MASTERCColour CDM-R 70W/942 ES PAR30L 40D 1CT	8711500 207272 10	91
MASTERCColour CDM-R Mini 20W/830 GX10 MR16 10D 1CT	8727900 800012 00	92
MASTERCColour CDM-R Mini 20W/830 GX10 MR16 25D 1CT	8727900 800036 00	92
MASTERCColour CDM-R Mini 20W/830 GX10 MR16 40D 1CT	8727900 800050 00	92
MASTERCColour CDM-R111 20W/830 GX8.5 10D 1CT	8711500 209474 10	90
MASTERCColour CDM-R111 20W/830 GX8.5 24D 1CT	8711500 209511 10	90
MASTERCColour CDM-R111 35W/830 GX8.5 10D 1CT	8711500 204486 10	90
MASTERCColour CDM-R111 35W/830 GX8.5 24D 1CT	8711500 204509 10	90
MASTERCColour CDM-R111 35W/830 GX8.5 40D 1CT	8711500 204523 10	90
MASTERCColour CDM-R111 35W/942 GX8.5 10D 1CT	8711500 213853 10	90
MASTERCColour CDM-R111 35W/942 GX8.5 24D 1CT	8711500 213877 10	90
MASTERCColour CDM-R111 35W/942 GX8.5 40D 1CT	8711500 213891 10	90
MASTERCColour CDM-R111 70W/830 GX8.5 10D 1CT	8711500 207197 10	90
MASTERCColour CDM-R111 70W/830 GX8.5 24D 1CT	8711500 207210 10	90
MASTERCColour CDM-R111 70W/830 GX8.5 40D 1CT	8711500 207234 10	90

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MASTERCouleur CDM-R111 70W/942 GX8.5 24D 1CT	8711500 213938 10	90
MASTERCouleur CDM-T 150W/830 G12 1CT	8711500 197801 15	87
MASTERCouleur CDM-T 150W/830 G12 1CT	8711500 202215 15	87
MASTERCouleur CDM-T 150W/942 G12 1CT	8711500 200051 15	87
MASTERCouleur CDM-T 20W/830 G12 1CT	8727900 821994 00	87
MASTERCouleur CDM-T 250W/830 G12 1CT	8711500 208019 15	87
MASTERCouleur CDM-T 250W/942 G12 1CT	8711500 211125 15	87
MASTERCouleur CDM-T 35W/830 G12 1CT	8711500 196972 15	87
MASTERCouleur CDM-T 35W/942 G12 1CT	8711500 211262 15	87
MASTERCouleur CDM-T 70W/830 G12 1CT	8711500 196996 15	87
MASTERCouleur CDM-T 70W/942 G12 1CT	8711500 199270 15	87
MASTERCouleur CDM-T Elite 150W/930 G12 1CT	8711500 213129 15	85
MASTERCouleur CDM-T Elite 35W/930 G12 1CT	8711500 208132 15	85
MASTERCouleur CDM-T Elite 70W/930 G12 1CT	8711500 208156 15	85
MASTERCouleur CDM-TC 20W/830 G8.5 1CT	8727900 803600 00	88
MASTERCouleur CDM-TC 35W/830 G8.5 1CT	8711500 200006 15	88
MASTERCouleur CDM-TC 35W/942 G8.5 1CT	8711500 209573 15	88
MASTERCouleur CDM-TC 70W/830 G8.5 1CT	8711500 201676 15	88
MASTERCouleur CDM-TC 70W/942 G8.5 1CT	8711500 212757 15	88
MASTERCouleur CDM-TC Elite 35W/930 G8.5 1CT	8711500 208170 15	85
MASTERCouleur CDM-TC Elite 70W/930 G8.5 1CT	8711500 208194 15	85
MASTERCouleur CDM-TD 150W/830 RX7s 1CT	8711500 197849 15	89
MASTERCouleur CDM-TD 150W/942 RX7s 1CT	8711500 200259 15	89
MASTERCouleur CDM-TD 70W/830 RX7s 1CT	8711500 197825 15	89
MASTERCouleur CDM-TD 70W/942 RX7s 1CT	8711500 200200 15	89
MASTERCouleur CDM-Tm Mini 20W/830 PGJ5 1CT	8711500 207517 15	86
MASTERCouleur CDM-Tm Mini 35W/930 PGJ5 1CT	8711500 211491 15	86
MASTERCouleur CDM-TMW Elite 210W/930 1CT	8727900 801743 00	86
MASTERCouleur CDM-TMW Elite 210W/942 1CT	8727900 801804 00	86
MASTERCouleur CDM-TMW Elite 315W/930 1CT	8727900 801576 00	86
MASTERCouleur CDM-TP 150W/830 PGX12-2 1CT	8711500 201256 15	89
MASTERCouleur CDM-TP 150W/942 PGX12-2 1CT	8711500 201119 15	89
MASTERCouleur CDM-TP 70W/830 PG12-2 1CT	8711500 201270 15	89
MASTERCouleur CDM-TP 70W/942 PG12-2 1CT	8711500 201133 15	89
MASTERLine 111 30W G53 12V 24D 1CT	8711500 411037 10	131
MASTERLine 111 30W G53 12V 8D 1CT	8711500 411013 10	131
MASTERLine 111 45W G53 12V 24D 1CT	8711500 411075 10	131
MASTERLine 111 45W G53 12V 45D 1CT	8711500 411099 10	131
MASTERLine 111 45W G53 12V 8D 1CT	8711500 411051 10	131
MASTERLine 111 60W G53 12V 24D 1CT	8711500 411150 10	131
MASTERLine 111 60W G53 12V 45D 1CT	8711500 411136 10	131
MASTERLine 111 60W G53 12V 8D 1CT	8711500 411112 10	131
MASTERLine ES 20W GU5.3 12V 36D 1CT	8711500 413673 71	130
MASTERLine ES 20W GU5.3 12V 8D 1CT	8711500 413642 71	130
MASTERLine ES 30W GU5.3 12V 24D 1CT	8711500 413758 71	130
MASTERLine ES 30W GU5.3 12V 36D 1CT	8711500 413789 71	130
MASTERLine ES 30W GU5.3 12V 60D 1CT	8711500 413826 71	130
MASTERLine ES 30W GU5.3 12V 8D 1CT	8711500 413703 71	130
MASTERLine ES 35W GU5.3 12V 24D 1CT	8711500 413970 71	130
MASTERLine ES 35W GU5.3 12V 36D 1CT	8711500 424327 71	130
MASTERLine ES 35W GU5.3 12V 60D 1CT	8711500 424358 71	130
MASTERLine ES 35W GU5.3 12V 8D 1CT	8711500 413871 71	130
MASTERLine ES 45W GU5.3 12V 24D 1CT	8711500 424419 71	130
MASTERLine ES 45W GU5.3 12V 36D 1CT	8711500 424440 71	130
MASTERLine ES 45W GU5.3 12V 60D 1CT	8711500 424471 71	130
MASTERLine ES 45W GU5.3 12V 8D 1CT	8711500 424389 71	130
MASTERLine TC 45W G8.5 12V 1CT	8711500 410924 15	138
MASTERLine TC 45W G8.5 12V 1CT	8711500 438973 15	138
MASTERLine TC 60W G8.5 12V 1CT	8711500 439017 15	138
MCFE 20W/03 SLV	8711500 626097 40	164
MHN-SB 2000W/956 400V K12s-7 WH UNP	8711500 206732 00	109
MHN-TD 150W/730 RX7s 1CT	8711500 193506 15	94
MHN-TD 150W/842 RX7s 1CT	8711500 733993 15	94
MHN-TD 250W/842 FC2 1CT	8711500 734006 15	94
MHN-TD 70W/730 RX7s 1CT	8711500 562685 15	94
MHN-TD 70W/842 RX7s 1CT	8711500 733986 15	94
ML 100W ES 225-235V Soft Glass SLV	8711500 180483 30	114
ML 160W ES 235-245V Soft Glass SLV	8711500 181473 30	114
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MSD 150/2 1CT	8711500 213730 45	118
MSD 200 1CT	8711500 193223 45	118
MSD 200/2 1CT	8711500 197467 45	118
MSD 250 1CT	8711500 199775 45	118
MSD 250/2 30H 1CT	8711500 199850 45	118
MSD 575 1CT	8711500 199799 45	119
MSD 700 1CT	8711500 195258 45	119
MSI 1200 UNP	8711500 199447 00	120
MSI 1800 UNP	8711500 201430 00	119
MSI 575 HR/2 1CT	8711500 435774 25	120
MSI 575 UNP	8711500 199430 00	120
MSR 1200 HR 1CT	8711500 191861 45	116
MSR 1200 SA 1CT	8711500 200211 45	114
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MSR 125 HR 1CT	8711500 194961 45	116
MSR 200 HR 1CT	8711500 192370 45	116
MSR 250 HR 1CT	8711500 209788 45	116
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MSR 575 HR 1CT	8711500 190246 45	116
MSR 575 HR P 1CT	8711500 192622 45	116, 117
MSR 575 HR P 1CT	8711500 192622 45	116, 117
MSR 575/2 10H 1CT	8711500 196990 45	115
MSR 6000 HR UNP	8711500 200938 00	116
MSR 700 SA 1CT	8711500 199492 45	114
MSR 700/2 1CT	8711500 200297 45	115
MSR Gold™ 1200 SA/DE UNP	8711500 203496 00	117
MSR Gold™ 1510 SA/DE 1CT	8711500 213365 45	117
MSR Gold™ 300/2 MiniFastFit 1CT	8711500 214355 45	118
MSR Gold™ 700 FastFit 1CT	8727900 300666 45	117
MSR Gold™ 700/2 FastFit 1CT	8727900 300680 45	117
Nightlight 5/8W ES 220-250V P45 FR 1CT	8711500 014122 50	184
Nightlight ESaver 9W WW BC 230-240V A65 1PH	8711500 543325 10	63
Novallure 2W SES 3000K B35 CL 1CT	8727900 852899 00	13
Novallure 2W SES 3000K B35 FR 1CT	8727900 852936 00	13
Novallure 2W SES 3000K P45 CL 1CT	8727900 852912 00	13
Novallure 2W SES 3000K P45 FR 1CT	8727900 852950 00	13
PAR38 120W ES 115V FL 30D 1CT	8711500 380593 15	187
PAR38 120W ES 115V SP 12D 1CT	8711500 380692 15	187
PAR38 120W ES 240V FL 30D 1CT	8711500 380623 10	187
PAR38 120W ES 240V SP 12D 1CT	8711500 380722 10	187
PAR38 80W ES 240V FL 30D 1CT	8711500 380678 10	187
PAR38 80W ES 240V SP 12D 1CT	8711500 380760 10	187
PAR38 Colours 80W ES 240V BL 1CT	8711500 380524 15	188
PAR38 Colours 80W ES 240V GR 1CT	8711500 380548 15	188
PAR38 Colours 80W ES 240V RE 1CT	8711500 380562 15	188
PAR38 Colours 80W ES 240V YE 1CT	8711500 380586 15	188
PAR38 Downlighter ESaver 20W WW 220-240V 1CT	8710163 216713 10	64
PAR38 Downlighter ESaver 23W WW 220-240V 1CT	8710163 216720 10	64
PAR56 300W Multipurpose 12V UW 1CT	8711500 159694 42	188
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Party 15W BC 220-240V A55 GR 1CT	8711500 383242 20	183
Party 15W BC 220-240V A55 RE 1CT	8711500 383259 20	183
Party 15W BC 220-240V A55 YE 1CT	8711500 383266 20	183
Party 15W ES 220-240V A55 BL 1CT	8711500 366924 20	183
Party 15W ES 220-240V A55 GR 1CT	8711500 366948 20	183
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Party 60W BC 240V P45 WH 2CT	8711500 379399 35	184
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PL-Electronic 8W/827 BC 230-240V 1CT	8711500 662392 20	58
PL-Q 16W/827/2P 1CT	8711500 269652 25	80
PL-Q 16W/827/4P 1CT	8711500 269881 25	81
PL-Q 16W/830/2P 1CT	8711500 269874 25	80
PL-Q 16W/830/4P 1CT	8711500 269898 25	81
PL-Q 16W/835/2P 1CT	8711500 269669 25	80
PL-Q 16W/835/4P 1CT	8711500 272065 25	81
PL-Q 28W/827/4P 1CT	8711500 269911 25	81
PL-Q 28W/830/4P 1CT	8711500 269928 25	81
PL-Q 28W/835/4P 1CT	8711500 269676 25	81
PL-Q 28W/840/4P 1CT	8711500 269935 25	81
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PL-Q 38W/835/4P 1CT	8711500 271730 25	81
PL-Q 38W/840/4P 1CT	8711500 271747 25	81
PL-S 11W/10/2P UNP	8711500 952042 65	166
PL-S 9W BLB/2P 1CT	8711500 950901 80	69
Plusline Compact 100W R7s/18 240V 1BB	8711500 058270 26	152
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Plusline ES Compact 120W R7s 230V CL 1BB	8727900 852233 00	150
Plusline ES Compact 48W R7s 230V CL 1BB	8727900 852318 00	150
Plusline ES Compact 80W R7s 230V CL 1BB	8727900 852288 00	150
Plusline ES Small 120W R7s 230V CL 1BB	8727900 852165 00	151
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Plusline ES Small 400W R7s 230V CL 1BB	8727900 853896 00	151, 153
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Plusline Large 1000W R7s 240V 1CT	8711500 055972 25	153
Plusline Large 1500W R7s 240V 1CT	8711500 055996 25	153
Plusline Large 2000W FA4 240V 1CT	8711500 056016 25	153
Plusline Large 750W R7s 240V 1CT	8711500 055958 25	153
Plusline Small 200W R7s 240V 1BB	8711500 058294 26	152
Plusline Small 300W R7s 120V 1BB	8711500 494665 26	152
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Reflector 100W ES 240V E80 80D 1CT	8711500 379924 78	187
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Reflector 100W ES 240V NR80 25D 1CT	8711500 379856 78	187
Reflector 100W ES 240V NR95 20D 1CT	8711500 379825 78	187
Reflector 40W ES 240V NR63 30D 1CT	8711500 379870 78	186
Reflector 40W SES 240V NR50 30D 1CT	8711500 379863 78	186
Reflector 60W BC 240V NR63 30D 1CT	8711500 379894 78	186
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Reflector 60W ES 240V NR63 30D 1CT	8711500 379887 78	186
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Reflector 75W ES 240V NR80 25D 1CT	8711500 379849 78	187
Reinforced Construction 100W BC 230V A65 FR 1CT	8711500 138255 05	182
Reinforced Construction 60W BC 120V A60 FR 1CT	8711500 100993 05	182
Reinforced Construction 60W BC 230V A60 FR 1CT	8711500 068811 05	182
Reinforced Construction 60W ES 230V A60 FR 1CT	8711500 090195 05	182
S10 4-65W SIN 220-240V WH EUR 1NO	8711500 697691 31	161
S10 4-65W SIN 220-240V WH EUR UNP	8711500 697691 28	161
S10E 18-75W SIN 220-240V BL 1NO	8711500 764973 26	161
S12 115/140W 220-240V UNP	8711500 903792 26	162
S12 115/140W 220-240V UNP	8711500 903792 28	162
S12 80-140W 220-240V UNP	8711500 765055 28	162
S16 70-125W 240V 1NO	8711500 750105 31	162
S16 70-125W 240V UNP	8711500 750105 28	162
S16 70-125W 240V UNP	8711500 903563 28	162
S16 70-125W 240V UNP	8711500 903563 31	162
S2 4-22W SER 220-240V WH EUR BOX 1NO	8711500 697509 31	161
S2 4-22W SER 220-240V WH EUR UNP	8711500 697509 28	161
SDU 01-S 220-240V 50/60Hz UNP	8711500 747280 30	203
SI 51 220-240V 50/60Hz UNP	8711500 915535 30	213
SI 51-S 220-240V 50/60Hz UNP	8711500 747495 30	213
SI 52 220-240V 50/60Hz UNP	8711500 915542 30	213
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Softone 100W BC 240V G95 WH 1CT	8711500 052575 25	181
Softone 100W BC 240V T55 WH 2CT	8711500 378385 35	177
Softone 25W BC 240V B35 WH 2CT	8711500 379245 35	178
Softone 40W BC 240V B35 AP 2CT	8711500 601360 92	178
Softone 40W BC 240V B35 WH 2CT	8711500 034342 35	178
Softone 40W BC 240V T55 WH 2CT	8711500 379436 35	177
Softone 40W SES 240V B35 WH 2CT	8711500 379283 35	178
Softone 60W BC 240V B35 WH 2CT	8711500 364227 35	178
Softone 60W BC 240V G95 WH 1CT	8711500 052568 25	181
Softone 60W BC 240V T55 AZ 2CT	8711500 380425 80	177
Softone 60W BC 240V T55 RO 2CT	8711500 378286 35	177
Softone 60W BC 240V T55 TE 2CT	8711500 378309 35	177
Softone 60W BC 240V T55 WH 2CT	8711500 378279 35	177
Softone ESaver 12W WW BC 230-240V B45 1PF	8727900 260960 25	62
Softone ESaver 12W WW BC 230-240V K 1PP	8711500 662989 10	62
Softone ESaver 12W WW BC 230-240V T60 1PH	8711500 662613 10	61
Softone ESaver 12W WW ES 230-240V B45 1PF	8727900 260953 25	62
Softone ESaver 12W WW ES 230-240V T60 1PH	8711500 662576 10	61
Softone ESaver 12W WW SES 230-240V B45 1PF	8727900 260946 25	62
Softone ESaver 16W WW BC 230-240V T60 1PH	8711500 662620 10	61
Softone ESaver 16W WW ES 230-240V T60 1PH	8711500 662583 10	61
Softone ESaver 16W WW ES 230-240V T60 1PH	8711500 830326 55	61
Softone ESaver 20W WW BC 230-240V T65 1PH	8711500 662637 10	61
Softone ESaver 20W WW BC 230-240V T65 1PH	8711500 830357 55	61
Softone ESaver 20W WW ES 230-240V T65 1PH	8711500 662590 10	61
Softone ESaver 5W WW BC 230-240V K 1CT	8711500 662965 10	62
Softone ESaver 5W WW ES 230-240V T60 1PF 1PH	8711500 662552 10	61
Softone ESaver 5W WW SES 230-240V B38 1PH	8727900 211900 25	62
Softone ESaver 7W WW SES 230-240V T45 1PP	8727900 211863 25	61
Softone ESaver 8W WW BC 230-240V K 1PP	8711500 662972 10	62
Softone ESaver 8W WW BC 230-240V T60 1PH	8711500 662606 10	61
Softone ESaver 8W WW ES 230-240V K 1PP	8711500 662941 10	62
Softone ESaver 8W WW ES 230-240V T60 1PH	8711500 662569 10	61
Softone ESaver 8W WW SES 230-240V B42 1PF	8727900 260854 25	62
Softone ESaver 8W WW SES 230-240V K 1PP	8711500 662866 10	62
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SON 100W/220 GES 1SL	8711500 202390 15	106
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SON 250W/220 GES 1SL	8711500 182043 15	106
SON 400W/220 GES 1SL	8711500 181985 15	106
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SON Comfort 250W/621 GES 1SL	8711500 182197 15	107
SON Comfort 400W/621 GES 1SL	8711500 182227 15	107
SON H 110W/220 ES 220V SLV 1SL	8711500 201867 30	107
SON H 220W/220 GES 1SL	8711500 182074 15	107
SON H 350W/220 GES 1SL	8711500 182135 15	107
SON H 68W/220 ES 1SL	8711500 213990 30	107
SON-T 100W/220 GES 1SL	8711500 184122 45	106
SON-T 100W/220 GES 1SL	8711500 202413 15	106
SON-T 150W/220 GES 1SL	8711500 192271 15	106
SON-T 250W/220 GES 1SL	8711500 179869 15	106
SON-T 400W/220 GES 1SL	8711500 179845 15	106
SON-T 70W/220 ES 1SL	8711500 192677 15	106
SON-T Comfort 150W/621 GES 1SL	8711500 192288 15	107
SON-T Comfort 250W/621 GES 1SL	8711500 179852 15	107
SON-T Comfort 400W/621 GES 1SL	8711500 179869 15	107
SOX 180W BY22d 1SL	8711500 179814 10	111
SOX Plus 135W BY22d 1SL	8711500 194756 15	112
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SOX Plus 55W BY22d 1SL	8711500 194718 15	112
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Standard 100W BC 125-130V A55 FR 2CT	8711500 363923 71	177
Standard 100W BC 240V A55 CL F10	8711500 377050 15	178
Standard 100W BC 240V A55 FR F10	8711500 377067 15	177
Standard 100W ES 125-130V A55 FR 2CT	8711500 363992 71	177
Standard 100W ES 240V A55 FR F10	8711500 377074 15	177
Standard 150W BC 240V A65 CL 1CT	8711500 048905 05	178
Standard 150W ES 240V A65 FR 1CT	8711500 048936 05	177
Standard 25W BC 240V A55 FR 1CT	8711500 360915 84	177
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Standard 25W BC 240V B35 CL 2CT	8711500 072450 35	179
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Standard 40W BC 240V A55 CL 1CT	8711500 361035 84	178
Standard 40W BC 240V A55 CL F10	8711500 376992 15	178
Standard 40W BC 240V A55 FR F10	8711500 377005 15	177
Standard 40W BC 240V B35 CL 2CT	8711500 014276 35	179
Standard 40W BC 240V P45 CL 2CT	8711500 365774 71	180
Standard 40W ES 240V A55 CL 1CT	8711500 359247 84	178
Standard 40W ES 240V A55 FR F10	8711500 377012 15	177
Standard 40W ES 240V P45 WH 2CT	8711500 379375 35	180
Standard 40W SBC 240V B35 CL 2CT	8711500 380371 35	179
Standard 40W SES 240V B35 CL 2CT	8711500 378521 35	179
Standard 40W SES 240V P45 WH 2CT	8711500 379382 35	180
Standard 60W BC 125-130V A55 FR 2CT	8711500 363770 71	177
Standard 60W BC 240V A55 CL 1CT	8711500 361172 84	178
Standard 60W BC 240V A55 CL F10	8711500 377029 15	178
Standard 60W BC 240V A55 FR F10	8711500 377036 15	177
Standard 60W BC 240V B35 CL 2CT	8711500 014160 35	179
Standard 60W ES 125-130V A55 FR 2CT	8711500 363824 71	177
Standard 60W ES 240V A55 CL 1CT	8711500 359346 84	178
Standard 60W ES 240V A55 CL F10	8711500 385413 15	178
Standard 60W ES 240V A55 FR F10	8711500 377043 15	177
Standard 60W ES 240V P45 WH 2CT	8711500 379405 35	180
Standard 60W SBC 240V B35 CL 1CT	8711500 018199 50	179
Standard 60W SES 240V P45 WH 2CT	8711500 379412 35	180
Standard 75W BC 240V A55 FR F10	8711500 385420 15	177
Standard ELV 40W E27/BRC 24V A60 CL 1CT	8711500 022936 84	183
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SU 20-S 220-240V 50/60Hz UNP	8711500 537874 30	213
SU 40-S 220-240V 50/60Hz UNP	8711500 537911 30	213
SUD 10-S 220-240V 50/60Hz UNP	8711500 931443 30	213
SUD 40-S 220-240V 50/60Hz UNP	8711500 930354 30	213
SX 131 220-240V 50/60Hz UNP	8711500 915894 30	213
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TL 100W/10-R SLV	8711500 612816 40	165
TL 140W/03 Super Actinic 1SL	8711500 720948 40	164
TL 140W/10 SLV	8711500 705600 40	165
TL 40W Aquacoral RS SLV	8711500 626066 40	164
TL 4W BLB FAM	8711500 951014 27	52
TL 4W/08 FAM	8711500 704399 27	52
TL 6W BLB FAM	8711500 950987 27	52
TL 80W/10-R SLV	8711500 612625 40	165
TL Mini 13W/33-640 1FM	8711500 704757 27	51
TL Mini 13W/35-535 1FM	8711500 716675 27	51
TL Mini 4W/33-640 FAM 1FM	8711500 615688 27	51
TL Mini 6W/33-640 1FM	8711500 715838 27	51
TL Mini 6W/35-535 1FM	8711500 715937 27	51
TL Mini 8W/29-530 FAM	8711500 716071 27	51
TL Mini 8W/33-640 1FM	8711500 704733 27	51
TL-D 14W Aquarelle SLV	8711500 642530 40	41
TL-D 15W/33-640 1SL	8711500 702777 40	40
TL-D 15W/35-535 1SL	8711500 618634 40	40
TL-D 18W BLB SLV	8711500 951113 40	41
TL-D 18W/33-640 1SL	8711500 702661 40	40
TL-D 18W/35-535 1SL	8711500 729002 40	40
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TL-D 30W Aquarelle SLV	8711500 620279 10	41
TL-D 30W/33-640 1SL	8711500 702821 40	40
TL-D 30W/35-535 1SL	8711500 618603 40	40
TL-D 36W BLB SLV	8711500 727428 40	41
TL-D 36W BLB SLV	8711500 951151 40	41
TL-D 36W/33-640 1SL	8711500 702708 40	40
TL-D 36W/35-535 1SL	8711500 704580 40	40
TL-D 36W/35-535 OEM 1SL	8711500 704405 40	40
TL-D 38W Aquarelle SLV	8711500 628718 40	41
TL-D 58W/33-640 1SL	8711500 702746 40	40
TL-D 58W/35-535 1SL	8711500 700704 40	40
TL-D 70W/33-640 1SL	8711500 618375 40	40
TL-D 70W/35-535 1SL	8711500 615862 40	40
TL-K 40W/03 Aquacoral SLV	8711500 723536 40	164
TL-X XL 20W/33-640 1SL	8711500 261359 40	50
TL-X XL 40W/33-640 1SL	8711500 261373 40	50
TL-X XL 65W/33-640 1SL	8711500 261397 40	50
Traffic Halogen 12058 50W GY6.35 12V 1CT	8711500 474735 60	174
Traffic Halogen 12345 20W G4 12V 1CT	8711500 410016 50	174
Traffic Halogen 13512 50W GY6.35 12V 1CT	8711500 410436 50	174
TUV PL-S 9W/4P 1CT	8711500 710833 80	164
Twistline Alu 2000h 35W GU10 240V 40D 1CT	8711500 652805 65	142
Twistline Alu 2000h 50W GU10 240V 20D 1CT	8711500 428509 60	142
Twistline Alu 2000h 50W GU10 240V 40D 1CT	8711500 428561 60	142
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