



Lamps & Lighting Electronics Catalogue 2010

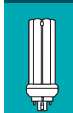
Includes WEEE fee indicator







PHILIPS



sense and simplicity


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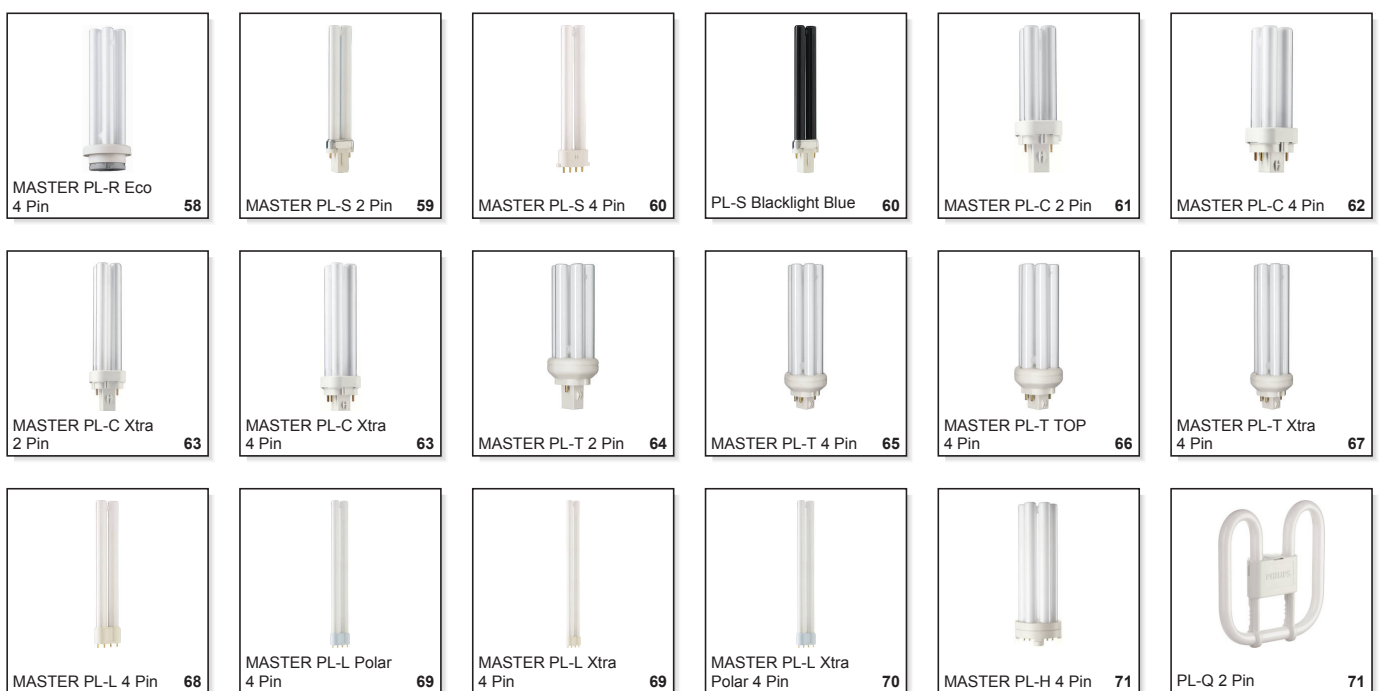
Fluorescent Lamps (continued)



Compact Fluorescent Integrated



Compact Fluorescent Non Integrated



Compact Fluorescent Non Integrated (continued)



PL-Q 4 Pin 72

Compact High Intensity Discharge



MASTERColour CDM-T Elite 76



MASTERColour CDM-TC Elite 76



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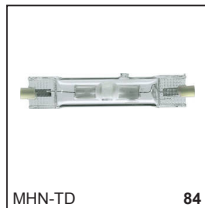
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High Intensity Discharge Lamps



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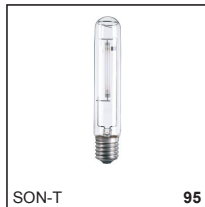
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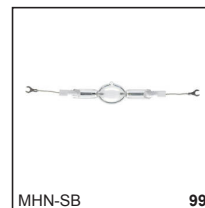
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HPI-T 100



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High Intensity Discharge Lamps (continued)



Halogen Lamps



Halogen Lamps (continued)



Starters for Fluorescent Lamps



UV



InfraRed



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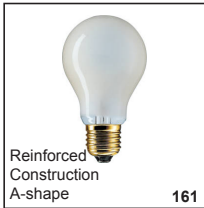
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Appliance Oven P45 162



Appliance Cooker Hood Tubular 163



Reflector diam 39 mm 163



Reflector diam 50 mm 164



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Reflector diam 80/90/95/125 mm 165



PAR38 165



















































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PAR56 166



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Indoor Luminaires



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rated 224



Smart Bollard LED 225



SmartFlood LED 226

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.co.uk/lighting

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

(City of Lyon, France)



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!



www.asimpleswitch.com

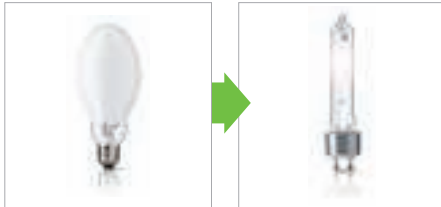


asimpleswitch.com

Some examples of our lighting solutions to be greener and to help save costs:

Street lighting

HPL



CosmoPolis

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

Retail lighting

Halo

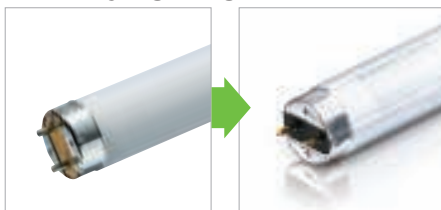


LEDs

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

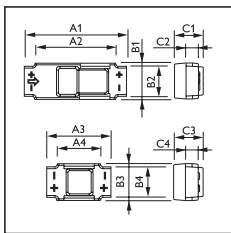
- Philips Green product
- High energy efficiency; up to 80% savings compared with fluorescent and neon lighting
- RoHS compliant – mercury and lead free
- The LED product portfolio is continuously updated. Please consult our website www.philips.com/signage for the latest information

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 (W)	Beam angle (°)	Luminous Flux per meter (lm/m)	Packing type/Packing configuration		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
Affinium LED string lp w6300 P10	0.114	105	64	UNP / 1	1	LS2-WHITE	763750 00	2,525.23
Affinium LED string lp red P10	0.221	130	70	UNP / 1	1	LS2-RED	763675 00	2,525.23
Affinium LED string lp blue P10	0.233	130	32	UNP / 1	1	LS2-BLUE	763712 00	2,525.23
Affinium LED string lp green P10	0.233	110	63	UNP / 1	1	LS2-GREEN	763736 00	2,525.23



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

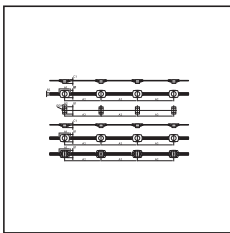
- Guaranteed performance and service based on proven system reliability:
 - long lifetime of LEDs and all other components
 - exhaustive system testing
 - outdoor-proof to IP66 (both system and components)
 - excellent heat management
 - high customer satisfaction together with low service call rates 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 (W)	Luminous Flux per meter (lm/m)	Packing type/Packing configuration	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
Affinium LED string hp Green P17	0.72	130	UNP / 1	LS2-HP P17 GR	805857 00	2,145.33
Affinium LED string hp w3000 P17	0.72	130	UNP / 1	LS2-HP P17W3000	805871 00	2,525.23
Affinium LED string hp w6300 P17	0.8	130	UNP / 1	LS2-HP P17W6300	805864 00	2,525.23
Affinium LED string hp blue P17	0.8	130	UNP / 1	LS2-HP P17 BL	815559 00	2,145.33

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

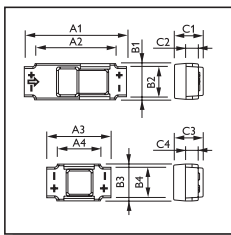
- Energy consumption only around 4 W/m (e.g. red LEDs) for substantial savings in operating costs
- High reliability and long lifetime of LED strings offer savings in maintenance costs
- Both the LED strings and drivers are maintenance-free for up to 50,000 hours
- Lumen maintenance 50% at 50,000 hours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

Product Benefits

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

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		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (€)
	(W)	(°)	(lm/m)					
Affinium LED string kit 2m w3000	0.114	105	50	UNP / 10	10	LEDSTKIT2WWW	764443 30	153.00
Affinium LED string kit 2m w6300	0.114	105	58	UNP / 10	10	LEDSTKIT2W	764184 30	145.00
Affinium LED string kit 6m w3000	0.114	105	50	UNP / 5	5	LEDSTKIT6WWW	764467 30	329.00
Affinium LED string kit 6m w6300	0.114	105	58	UNP / 5	5	LEDSTKIT6W	764283 30	312.50
Affinium LED string kit 2m amber	0.221	130	45	UNP / 10	10	LEDSTKIT2A	764122 30	145.00
Affinium LED string kit 2m red	0.221	130	70	UNP / 10	10	LEDSTKIT2R	764108 30	145.00
Affinium LED string kit 6m amber	0.221	130	45	UNP / 5	5	LEDSTKIT6A	764221 30	312.50
Affinium LED string kit 6m red	0.221	130	70	UNP / 5	5	LEDSTKIT6R	764207 30	312.50
Affinium LED string kit 2m blue	0.233	130	28	UNP / 10	10	LEDSTKIT2B	764146 30	145.00
Affinium LED string kit 2m green	0.233	130	63	UNP / 10	10	LEDSTKIT2G	764160 30	145.00
Affinium LED string kit 6m blue	0.233	130	28	UNP / 5	5	LEDSTKIT6B	764245 30	312.50
Affinium LED string kit 6m green	0.233	130	63	UNP / 5	5	LEDSTKIT6G	764269 30	312.50

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

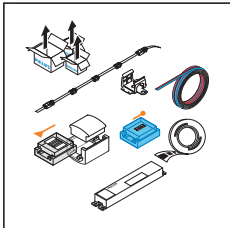
- Double-sided adhesive tape pads have been tested for use on stainless steel, aluminium and PMMA


- 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		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece
connector xtend	UNP / 10	10	LS2-CONNECTOR	763972 30	(£) 7.08
extension cable 4-wire	UNP / 1	1	LS2-CABLE	763934 00	260.72
Mounting Clip	UNP / 200	200	LS2-CLIP	763910 30	0.45
mounting tape 210 pads	UNP / 1	1	LS2-TAPE	764016 00	89.39

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

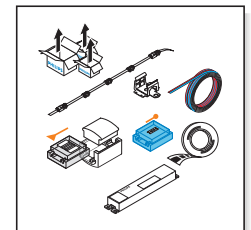
- Philips dedicated mounting clips must be used to attach Affinium LED string high power to the backplate.


Product Benefits

- Easy installation
- Solid, reliable connections

Application

- Channel letters



Type	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
connector end cap	UNP / 10	10	LS2-ENDCON	8711559 763996 30	(£) 7.08
LS hp mounting clip	UNP	62	LS2-HP M CLIP	8727900 805895 00	1.04
LS hp connector end cap	UNP / 10	10	LS2-HP ENDCAP	8727900 805932 00	7.08

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. MASTER LEDbulbs 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

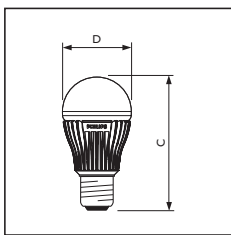
- Dimmable down to 10%
- Retrofit and compatible with existing fixtures with E27 holder for easy installation
- Free of mercury and hazardous materials

Product Benefits

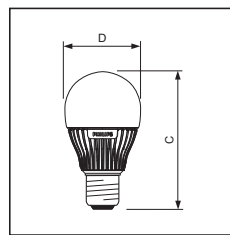
- Glow effect – warm light all around with the MASTER LEDbulb 7 W
- Soft, warm light and elegant image with the MASTER LEDbulb 6 W
- 80% energy saving

Applications

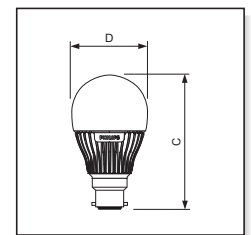
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells



Dim. no.	C nom.	D nom.
1	106	55





Dim. no.	C nom.	D nom.
2	108.9	60

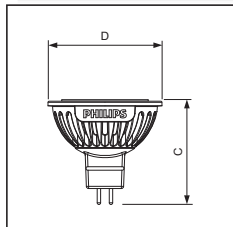


Dim. no.	C nom.	D nom.
3	108.9	60

MASTER LEDbulb 230V

Wattage (W)	Cap-Base	Bulb	Colour Code	Colour Temperature (K)	Luminous Flux (lm)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
6	ES	A55	WW	2700	240	45000	1	1CT / 6	6	MLEDD6WA552700	853537 00	37.73	yes
6	ES	A55	CW	4200	280	45000	1	1CT / 6	6	MLEDD7A554200	867381 00	51.88	yes
7	ES	A60	WW	2700	400	25000	2	1CT / 6	6	MLEDD7WA602700	853056 00	51.88	yes
7	BC	A60	WW	2700	400	25000	3	1CT / 6	6	MLEDD7WA60B2227	866513 00	51.88	yes

MASTER LEDspot LV



C	D
nom.	nom.
46.02	50.1

Product description

Delivering a warm, halogen/ incandescent-like accent beam, MASTER LEDspot MR16 lamp is an ideal retrofit solution for spot and general lighting applications in the hospitality industry. It is particularly suited to public areas such as receptions, lobbies, corridors, stairwells and washrooms, where the light is on all the time. The robustly designed MASTER LEDspot MR16 has a 24° beam angle for a clearly defined beam spread. There is no UV or IR in the

beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.).

Product Features

- Retrofit
- Lower maintenance cost due to 22 times longer lifetime
- 24° beam angle for a clearly defined beam spread
- UV- and IR-free light for less heat and protection for heat-sensitive objects
- Free of mercury and hazardous materials

Product Benefits

- Warm white light
- Up to 80% energy saving compared with a typical 20W halogen lamp

Applications

- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells, washrooms, reception areas



MASTER LEDspotLV 12V

Wattage	Cap-Base	Bulb	Colour Code		Colour Temperature	Luminous Flux	Luminous Intensity	Average Lifetime	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece	
(W)				(°)	(K)	(lm)	(cd)	(h)					(£)	
4	GU5.3	MR16	WW	24	2700	140	600	45000	1CT / 10	10	MLEDD4WGU532700	819564 00	43.58	yes
4	GU5.3	MR16	WH	24	3000	160	650	45000	1CT / 10	10	MLEDD4WGU533000	819588 00	43.58	yes

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

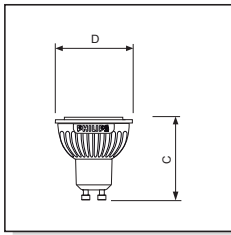
- Retrofit and compatible with most existing fixtures with GU10 or E27 holder for easy installation
- Free of mercury and hazardous materials

Product Benefits

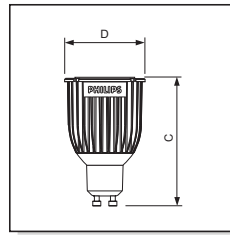
- 85% energy saving
- Return on investment within one year

Applications

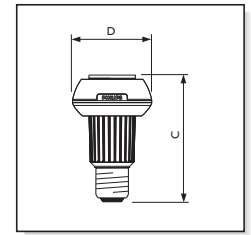
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells



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 (W)	Cap-Base	Bulb	Colour Code	Beam Angle (°)	Colour Temperature (K)	Luminous Flux (lm)	Luminous Intensity (cd)	Average Lifetime (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)	
3	GU10	Reflector	WH	25	3000	105	550	22000	1	1CT / 10	10	MLED3WGU103025	852974 00	37.04	yes
7	GU10	Reflector	WW	25	2700	250	1000	40000	2	1CT / 6	6	MLED7GU1052725	860337 00	56.71	yes
7	GU10	Reflector	WW	40	2700	250	400	40000	2	1CT / 6	6	MLED7GU1052740	860351 00	56.71	yes
7	GU10	Reflector	WH	25	3000	270	1150	40000	2	1CT / 6	6	MLED7GU1053025	860399 00	56.71	yes
7	GU10	Reflector	WH	40	3000	270	540	40000	2	1CT / 6	6	MLED7GU1053040	860412 00	56.71	yes
7	GU10	Reflector	CW	25	4200	270	1150	40000	2	1CT / 6	6	MLED7GU1054225	860436 00	56.71	yes
7	GU10	Reflector	CW	40	4200	270	540	40000	2	1CT / 6	6	MLED7GU1054240	860450 00	56.71	yes
7	ES	NR63	CW	25	4200	230	800	45000	3	1CT / 6	6	MLEDD7NR634225	867428 00	47.73	yes
7	ES	NR63	WW	25	2700	180	575	45000	3	1CT / 6	6	MLEDD7NR632725	867442 00	47.73	yes
7	ES	NR63	CW	40	4200	220	320	45000	3	1CT / 6	6	MLEDD7NR634240	867466 00	47.73	yes
7	ES	NR63	WW	40	2700	180	230	45000	3	1CT / 6	6	MLEDD7NR632740	867480 00	47.73	yes
7	GU10	Reflector	CW	25	4200	230	800	45000	2	1CT / 6	6	MLEDD7GU104225	867527 00	46.69	yes
7	GU10	Reflector	WH	25	3000	180	575	45000	2	1CT / 6	6	MLEDD7GU103025	867565 00	46.69	yes
7	GU10	Reflector	CW	40	4200	220	320	45000	2	1CT / 6	6	MLEDD7GU104240	867589 00	46.69	yes
7	GU10	Reflector	WH	40	3000	180	230	45000	2	1CT / 6	6	MLEDD7GU103040	867640 00	46.69	yes
7	GU10	Reflector	WW	25	2700	180	575	45000	2	1CT / 6	6	MLEDD7GU102725	867671 00	46.69	yes
7	GU10	Reflector	WW	40	2700	180	230	45000	2	1CT / 6	6	MLEDD7GU102740	867725 00	46.69	yes

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

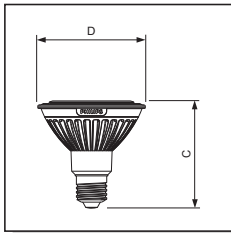
- Retrofit and compatible with existing fixtures with E27 holder for easy installation
- Free of mercury and hazardous materials

Product Benefits

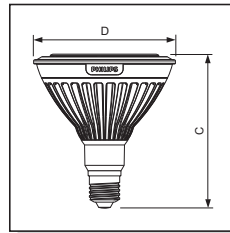
- Warm white light
- 80% energy saving

Applications

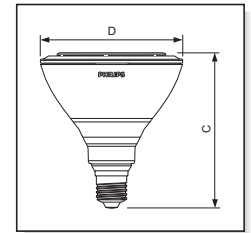
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells



Dim. no.	C nom.	D nom.
1	90	92.1



Dim. no.	C nom.	D nom.
2	131	121.5



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

MASTER LEDspot 230V

Wattage (W)	Cap-Base	Bulb	Colour Code	Colour Temperature (°)	Colour Temperature (K)	Luminous Flux (lm)	Luminous Intensity (cd)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)		
11	ES	PAR30S	WH	25	2700	430	1880	45000	1	1CT / 10	10	MLED11WPAR30S27	853018 00	83.42	yes
16	ES	PAR38	WH	25	2700	600	2800	45000	2	1CT / 10	10	MLED16WPAR3827	852998 00	93.79	yes
16	ES	PAR38	WH	25	2700	600	2800	22000	3	1CT / 10	10	MLED16WPAR38OD	853032 00	98.13	yes

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

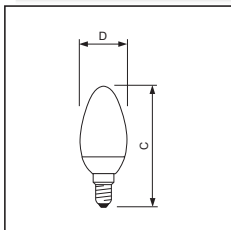
- 80% energy saving
- Classical slender shape and crystal-clear bulb, fitting all existing fixtures with E14 holders – enhances original design concept of chandelier

Application

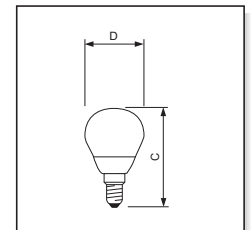
- Hospitality applications and in the home
- Chandelier, wall scone or modern luminaire

Product Benefits

- Sparkling warm light



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



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

Novallure 230-240V

Wattage (W)	Cap-Base	Bulb	Colour Code	Colour Temperature (K)	Luminous Flux (lm)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)		
2	SES	B35	WH	3000	50	15000	1	1CT / 10	10	LEDB35E14CL3000	852899 00	33.95	yes
2	SES	P45	WH	3000	50	15000	2	1CT / 10	10	LEDP45E14CL3000	852912 00	33.95	yes
2	SES	B35	WH	3000	50	15000	1	1CT / 10	10	LEDB35E14FR3000	852936 00	33.95	yes
2	SES	P45	WH	3000	50	15000	2	1CT / 10	10	LEDP45E14FR3000	852950 00	33.95	yes

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

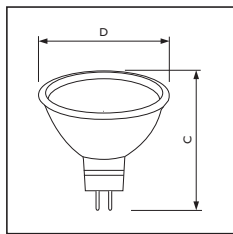
Product Benefits

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

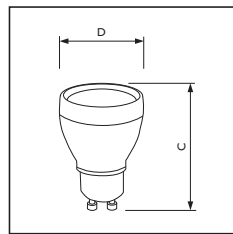
- User safety ensured by no risk of touching live (MV) components, e.g. when removing lamp from fitting

Application

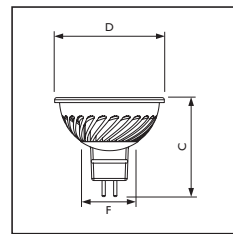
- Accent, decorative and task lighting
- Illumination of small objects within short distances (< 1 m) in shops, hotels, restaurants etc.
- Highlighting heat-sensitive objects, e.g. in culinary shops, art galleries, museums, libraries etc
- Especially suited for use in locations where minimum maintenance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



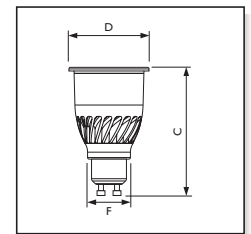
Dim. no.	C nom.	D nom.
1	45.8	50.5



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



Dim. no.	C nom.	D nom.
3	45.6	50.5

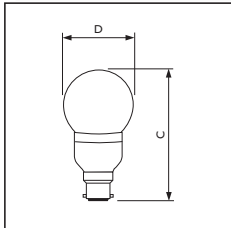


Dim. no.	C nom.	D nom.
4	81.0	50.3

AccentLED

Wattage (W)	Voltage (V)	Cap-Base	Bulb	Colour Code	Beam Angle (°)	Luminous Flux (lm)	Luminous Intensity (cd)	Average Lifetime (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)	RoHS
2	12	GU5.3	MR16	RE	10	21		35000	1	1CT / 10	ACCENTLEDREGU5	535532 25	56.31	yes
2	12	GU5.3	MR16	GR	10	16		35000	1	1CT / 10	ACCENTLEDGRGU5	535549 25	56.31	yes
2	12	GU5.3	MR16	YE	10	10		35000	1	1CT / 10	ACCENTLEDYEGU5	535563 25	56.31	yes
2	230-240	GU10		RE	10	11		35000	2	1CT / 10	ACCENTLEDREGU10	535570 25	56.31	yes
2	230-240	GU10		GR	10	12		35000	2	1CT / 10	ACCENTLEDGRGU10	535587 25	56.31	yes
2	230-240	GU10		CW	10	10	284	35000	2	1CT / 10	ACCLEDGU10CW	535013 25	56.31	yes
2	230-240	GU10		WW	10	10	240	35000	2	1CT / 10	ACCLEDGU10WW	535020 25	56.31	yes
2	230-240	GU10		BL	10	3		35000	2	1CT / 10	ACCENTLEDBLGU10	535594 25	56.31	yes
2	230-240	GU10		YE	10	4		35000	2	1CT / 10	ACCENTLEDYEGU10	535600 25	56.31	yes
2	12	GU5.3	MR16	BL	10	4		35000	1	1CT / 10	ACCENTLEDBLGU5	535556 25	56.31	yes
4	12	GU5.3	MR16	WW	10	31	730	35000	3	1CT / 10	ACCLED4WWR16WW	536249 25	91.21	yes
4	12	GU5.3	MR16	CW	10	41	1000	35000	3	1CT / 10	ACCLED4WWR16CW	536256 25	91.21	yes
4	230-240	GU10		WW	10	31	730	35000	4	1CT / 10	ACCLED4WGU10WW	536263 25	79.68	yes
4	230-240	GU10		CW	10	45	1000	35000	4	1CT / 10	ACCLED4WGU10CW	536270 25	79.68	yes

DecoLED Outdoor Lamps



Dim. no.	C nom.	D nom.
1	100	60
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

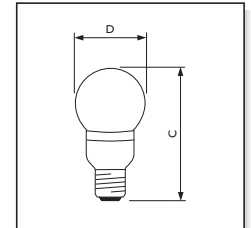
Product Benefits

- 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 (W)	Cap-Base	Bulb	Colour Code	Luminous Flux (lm)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
1	BC	G50	CW	6	20000	1	1CT / 10	10	LEDODB22CW	535174 25	44.95	yes
1	BC	G50	WH	5	20000	1	1CT / 10	10	LEDODB22WH	535181 25	44.95	yes
1	ES	G50	CW	6	20000	3	1CT / 10	10	LEDODE27CW	535105 25	44.95	yes
1	ES	G50	WH	5	20000	3	1CT / 10	10	LEDODE27WH	535112 25	44.95	yes
1.5	BC	G60	CC		20000	2	1CT / 10	10	LEDODB22CC	535167 25	49.22	yes
1.5	ES	G60	CC		20000	4	1CT / 10	10	LEDODE27CC	535099 25	49.22	yes

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

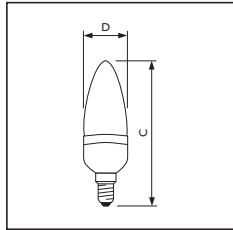
Product Benefits

- Very low power consumption

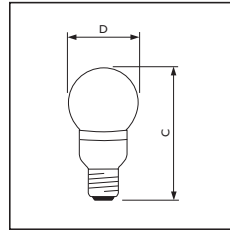
- Extremely long lifetime of 20,000 hours (colored lamps) and long lifetime of 6,000 hours (white lamps)
- Colored light creates attractive decorative effects

Application

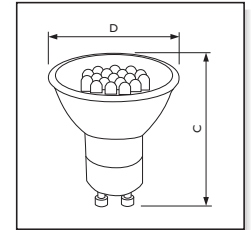
- Accent and decorative lighting (not for general lighting)
- Indoor use in halls, landings, kitchens etc. in recessed ceiling or floor luminaires
- Outdoor use in enclosed (IP44) luminaires



Dim. no.	C nom.	D nom.
1	128	42



Dim. no.	C nom.	D nom.
2	100	50



Dim. no.	C nom.	D nom.
3	57	50

DecoLED 230-240V

Wattage (W)	Cap-Base	Bulb	Colour Code	Beam Angle (°)	Luminous Flux (lm)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration	Box	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)	RoHS
1	SES	B40	RE		2.5	20000	1	/ 10	10	LEDCANRED	536935 25	44.95	yes
1	SES	B40	YE		2	20000	1	/ 10	10	LEDCANYELLOW	536942 25	44.95	yes
1	SES	B40	WH		5	20000	1	/ 10	10	LEDCANWHITE	536966 25	44.95	yes
1	ES	G50	CW		6	20000	2	/ 10	10	LEDRNDCOWH	536355 25	44.95	yes
1	GU10	Reflector	BL	15	4	20000	3	/ 10	10	LEDGU10BLUE	536041 25	44.95	yes

LED Cooler System

LED cooler modules 310



Product Description

- Affinium LED cooler modules for replacement of traditional tubular fluorescent lamps in cooler cabinets
- The wide range includes modules for the display of dairy products, cheese and meat
- 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

- Low energy consumption: tremendous savings compared to traditional fluorescent lighting
- Ideal for high-quality display lighting without flickering, color differences or non-functioning units as with traditional fluorescent lighting
- LCM Neutral White modules are replacement for TL-D / TL-5 840 lamps and are ideal for dairy products as milk and yoghurt or any merchandise which requires a daylight color
- LCM Warm White modules are replacement for TL-D/TL-5 830 lamps and are ideal for products which requires daylight color
- LCM Warm White RED modules have a spectral distribution optimally tuned to provide a good appearance of the food, especially meat
- Guaranteed performance and proven system reliability: three-year Philips system guarantee

- Module lifetime rated at 50,000 hrs (70% lumen maintenance)
- Operating temperature –30 to +30°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 cooler lighting
- A much better visual impression of the merchandise on display by reducing dark spots
- The thinnest and most unobtrusive LED profile (13mm) in the market
- 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

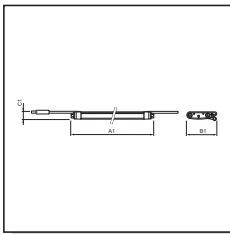
- Philips Green Flagship product
- High energy efficiency; tremendous savings compared with fluorescent lighting
- RoHS compliant – mercury and lead free
- Covered by WEEE (Waste Electrical and Electronic Equipment)

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



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

Type	Wattage (W)	Colour Rendering Index (Ra)	Average Lifetime (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
Affinium LCM310 mounting set shelf	8	75	50000	1	UNP / 50	50	LCM310 M SET SH	848533 00	2.48
Value-plus LCM310 900mm(35") NW	11	75	50000	2	UNP / 5	5	LCM310VA 900NW	846287 00	375.66
Value-plus LCM310 1200mm(47") NW	12	85	50000	1	UNP / 5	5	LCM310VA 1200NW	846263 00	435.77
Value-plus LCM310 900mm(35") WW	18	85	50000	2	UNP / 5	5	LCM310VA 900WW	846324 00	525.93
Value-plus LCM310 1200mm(47") WW	20	75	50000	1	UNP / 5	5	LCM310VA 1200WW	846270 00	586.03
Vision-plus LCM310 900mm(35") NW	20	85	50000	1	UNP / 5	5	LCM310VI 900NW	846843 00	375.66
Vision-plus LCM310 900mm(35") WW	30	75	50000	2	UNP / 5	5	LCM310VI 1200NW	846331 00	435.77
Vision-plus LCM310 1200mm(47") NW	30	85	50000	2	UNP / 5	5	LCM310VI 1200WW	846836 00	525.93

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

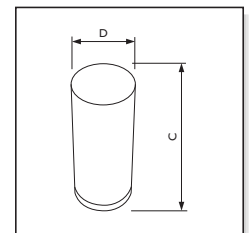
- Available in glass in white
- Available in plastic in six different colors
- Intuitive and innovative tumble switch for easy on and off switching just by shaking the glass
- Long-lasting glow (20 hours)
- Convenient recharging on the induction charger base.

Product Benefits


- Warm, gentle flicker of a normal wax candle gives a romantic ambience
- 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		National Order Code	Ordering number	Nett Trade Price per Piece (£)
IMAGEO LED Candle 3set Red UK	1CT / 5	5	IMAGEOCANDLERED	8727900 809732 00	33.75
IMAGEO LED Candle 3set UK	1CT / 5	5	IMAGEOCANDLEKIT	8711500 799135 36	33.75
IMAGEO LED Candle single White	1CT / 15	15	IMAGEOHOSP1	8711500 799012 20	14.50

IMAGEO AquaLight



Product Description

- Set of three floating candle lamps powered by rechargeable batteries

Product Features

- Shiny white color with a transparent upper part that makes the LED flicker realistically
- Tumble switch for easy on and off switching just by shaking the AquaLight
- Convenient recharging on the induction charger base

Product Benefits

- Warm, gentle flicker of a normal wax candle allows the creation of ambience
- Wireless operation for freedom of placement
- Safe to use and safe on water– no open flames or hot wax, no inconvenient matches and cool to the touch

Application

- Can be used in the bath or the pond
- Suitable for both indoor and outdoor use (water-proof)
- Wireless, portable candles can be placed where needed

Type	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
IMAGEO Aqualight 3set EU	1CT / 5	5	IMAGEOQUALIGHT	270075 36	33.75

SpotOn



Product Description

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

Product Features

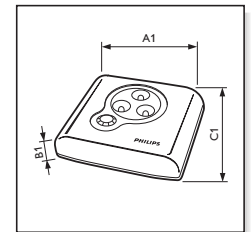
- Movement sensor switches lamp on when it detects movement
- Three ways to install – stick, screw or magnetic
- Easy to open for battery replacement

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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
SpotOn Silver	1BL / 10	10	SPOTONSILVER1BL	818195 25	10.00
SpotOn White	1BL / 10	10	SPOTON1BL	817549 25	10.00

LivingColors



Product Description

- LivingColors is a powerful LED light, that can wash a wall or corner with an infinite range of different shades of light
- The touch sensitive colour wheel controller makes it easy to create the right mood and atmosphere for any occasion

Product Features

- Instant atmosphere with endless colours

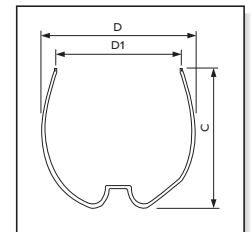
- Remote control with dimmer
- Direct your light at angle

Product Benefits

- Let your interior follow your feelings

Applications

- Home Lighting



C	D	D1
nom.	nom.	nom.
170.9	189.8	152.2

Type	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
LivingColors Crystal Clear UK	1CT / 2	2	LIVCOLCLEAR	270020 00	162.50
LivingColors Black UK	1CT / 2	2	LIVCOLBLACK	270198 47	162.50

LivingColors mini



Product description

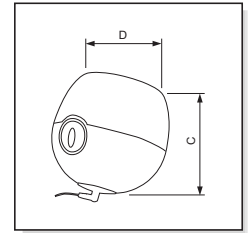
LivingColors is an exciting new form of lighting for the home that enables you to express yourself by creating striking light effects to suit your mood, in the color of choice, with just the press of a button. Simply by using the intuitive, touch-sensitive color wheel on the lamp, you can select one of 256 different colors to create a new atmosphere and bathe your home in truly personal colors whenever you want. With the LivingColor Mini range you have the chance to make your room right up to date with the latest, most exciting trends.

Product Features

- 256 colors possible
- Automatic color changing
- A palette of finishes to match interior fashion
- LED lamp
- Up to 7.5W energy consumption


Product Benefits

- Choose your color with one touch
- Catch the trend
- Lasting Enjoyment
- Low Energy Consumption



C	D	D1
nom.	nom.	nom.
143.43	150	93.75



Type	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
					(£)
LivingColors Mini Glossy White UK	1CT	4	LIVCOLWHITEMINI	536836 45	95.59
LivingColors Mini Glossy Black UK	1CT	4	LIVCOLBLACKMINI	536843 45	95.59
LivingColors Mini Silver UK	1CT	4	LIVCOLSILVMINI	536867 45	95.59

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		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
					(£)
LS hp cable 4xAWG24	UNP / 1	1	LS2HP CABLE	805901 00	N/A

Accessories for GreenPower LED String



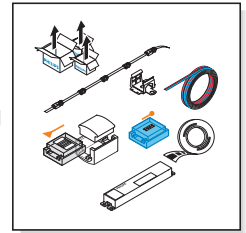
Product Description


- 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		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece
connector xtend	UNP / 10	10	LS2-CONNECTOR	763972 30	7.08
connector end cap	UNP / 10	10	LS2-ENDCON	763996 30	7.08
connector tool	UNP / 1	1	LEDSTRCONNTOOL	765686 00	N/A
extension cable 4-wire	UNP / 1	1	LS2-CABLE	763934 00	260.72
Mounting Clip	UNP / 200	200	LS2-CLIP	763910 30	0.45
mounting tape 1680 pads	UNP / 1	1	LS2 TAPE 1700	764030 00	N/A
mounting tape 210 pads	UNP / 1	1	LS2-TAPE	764016 00	89.39

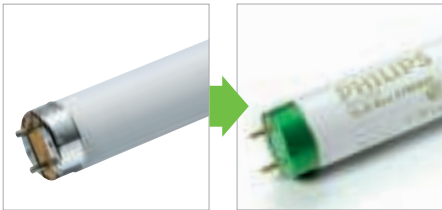
Fluorescent Lamps

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.co.uk/lighting



TL-D MASTER TL-D Eco



- 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

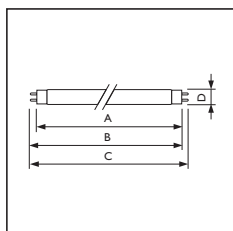
- Simple lamp-for-lamp replacement for more than 10% energy savings

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



Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	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		

- 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

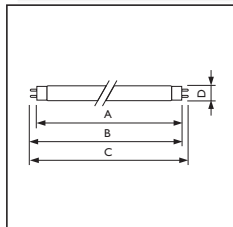
- For use in indoor applications with room temperatures above 20 °C (which implies temperature around the lamp of over 25-35 °C)

- 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)

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 configuration		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	22.84	yes
16W/840	85	4000	A	1300	20000	1	1SL / 25	25	16840TLDECO	268617 40	22.84	yes
16W/865	85	6500	A	1225	20000	1	1SL / 25	25	16865TLDECO	268716 40	22.84	yes
32W/830	85	3000	A	3000	20000	2	1SL / 25	25	32830TLDECO	264589 40	22.84	yes
32W/840	85	4000	A	3000	20000	2	1SL / 25	25	32840TLDECO	264626 40	22.84	yes
32W/865	85	6500	A	2850	20000	2	1SL / 25	25	32865TLDECO	264640 40	22.84	yes
51W/830	85	3000	A	4800	20000	3	1SL / 25	25	51830TLDECO	264664 40	24.88	yes
51W/840	85	4000	A	4800	20000	3	1SL / 25	25	51840TLDECO	264701 40	24.88	yes
51W/865	85	6500	A	4470	20000	3	1SL / 25	25	51865TLDECO	264725 40	24.88	yes
63W/830	85	3000	A	5600	20000	4	1SL / 25	25	63830TLDECO	268730 40	34.84	yes
63W/840	85	4000	A	5600	20000	4	1SL / 25	25	63840TLDECO	268754 40	34.84	yes

MASTER TL-D Super 80



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

Dim. no.	A		B		C		D
	max.	min.	max.	min.	max.	min.	
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		

MASTER TL-D Super 80 G13

Wattage/Colour Code/Version	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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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	19.24	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



- 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
- 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

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.)

Product Description

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

Product Features

- Protective coating around the entire lamp

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

Environment

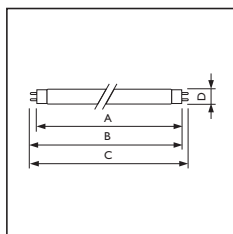
- Good environmental choice because of lowest mercury content and lead-free
- This product is RoHS compliant
- This product is covered by WEEE

Luminaires

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



System

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

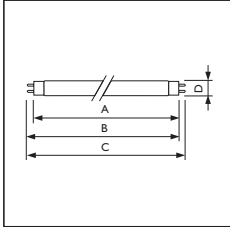
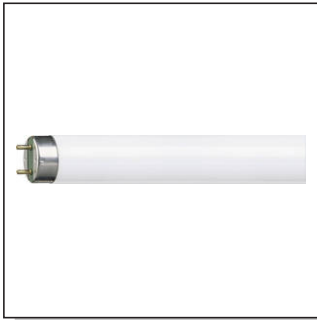


Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
1	589.8	594.5	596.9	604	28		
2	1199.4	1204.1	1206.5	1213.6	28		
3	1500.0	1504.7	1507.1	1514.2	28		

MASTER TL-D Secura G13

Wattage/ Colour Code	Colour Rendering Index (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		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

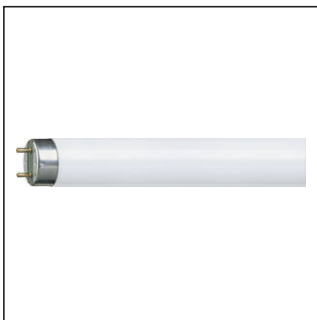
Application

- 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 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		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	24.25	yes
18W/840	85	4000	A	1350	20000	1	1SL / 25	25	18840R	636478 40	24.25	yes
18W/865	85	6500	A	1300	20000	1	1SL / 25	25	18865RFECO	260291 40	24.25	yes
36W/830	85	3000	A	3350	20000	2	1SL / 25	25	36830R	559494 40	27.42	yes
36W/840	85	4000	A	3350	20000	2	1SL / 25	25	36840R	559531 40	27.42	yes
58W/830	85	3000	A	5200	20000	3	1SL / 25	25	58830R	559579 40	32.80	yes
58W/840	85	4000	A	5200	20000	3	1SL / 25	25	58840R	559623 40	32.80	yes
58W/865	85	6500	A	5000	20000	3	1SL / 25	25	58865RFECO	260338 40	32.80	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

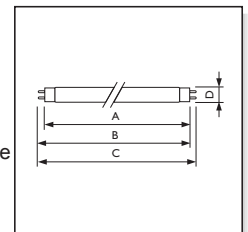
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Good colour rendering
- Creates atmospheres from warm white to cool daylight

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

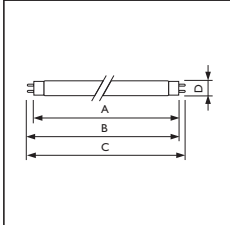


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	589.8	594.5	596.9	604	28
2	1199.4	1204.1	1206.5	1213.6	28
3	1500.0	1504.7	1507.1	1514.2	28

MASTER TL-D HF Super 80 G13

Wattage/ Colour Code	Colour Rendering Index (Ra)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		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	21.16	yes
16W/840	85	4000	A	1400	20000	1	1SL / 25	25	16840	631473 40	21.16	yes
32W/830	85	3000	A	3200	20000	2	1SL / 25	25	32830	631503 40	21.16	yes
32W/840	85	4000	A	3200	20000	2	1SL / 25	25	32840	631534 40	21.16	yes
50W/830	85	3000	A	5000	20000	3	1SL / 25	25	50830	631565 40	22.42	yes
50W/840	85	4000	A	5000	20000	3	1SL / 25	25	50840	631596 40	22.42	yes

MASTER TL-D Xtra



Dim. no.	A		B		C		D
	max.	min.	max.	min.	max.	min.	
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

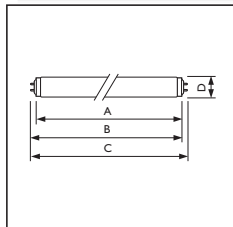
System

- 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 (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		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.	min.	B max.	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 (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	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
18W/830 - Polar	T12	85	3000	A	1350	55000	1	1SL / 10	18830XTRAPOLAR	893031 25	55.53	yes
18W/840 - Polar	T12	85	4000	A	1350	55000	1	1SL / 10	18840XTRAPOLAR	893055 25	55.53	yes
36W/830 - Polar	T12	85	3000	A	3350	55000	2	1SL / 10	36830XTRAPOLAR	893154 25	55.53	yes
36W/840 - Polar	T12	85	4000	A	3350	55000	2	1SL / 10	36840XTRAPOLAR	893178 25	55.53	yes
58W/830 - Polar	T12	85	3000	A	5200	55000	3	1SL / 10	58830XTRAPOLAR	893277 25	60.49	yes
58W/840 - Polar	T12	85	4000	A	5200	55000	3	1SL / 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

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
- 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

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

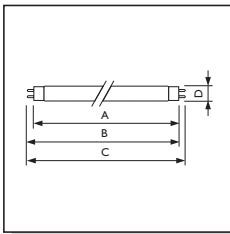
- Food & beverages and pharmaceuticals industry: factories, distribution centres, retail outlets; locations where maintenance costs are high (high ceilings, difficult access)

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

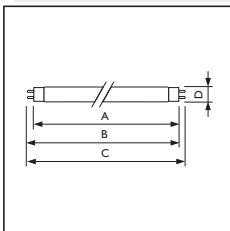


Dim. no.	A	B	C	D
	max.	min. max.	max.	max.
1	589.8	594.5 596.9	604.0	28
2	1199.4	1204.1 1206.5	1213.6	28
3	1500.0	1504.7 1507.1	1514.2	28

MASTER TL-D Xtra Secura 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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
36W/830	85	3000	A	3200	55000	2	1SL / 25	25	36830XTRASEC	889812 40	55.53	yes
36W/840	85	4000	A	3200	55000	2	1SL / 25	25	36840XTRASEC	889836 40	55.53	yes
58W/830	85	3000	A	5100	55000	3	1SL / 25	25	58830XTRASEC	889898 40	60.49	yes
58W/840	85	4000	A	5100	55000	3	1SL / 25	25	58840XTRASEC	889911 40	60.49	yes

MASTER TL-D Xtreme



Dim. no.	A	B	C	D
	max.	min. max.	max.	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

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

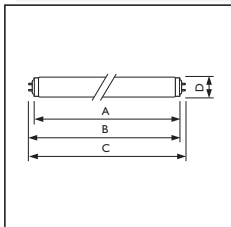
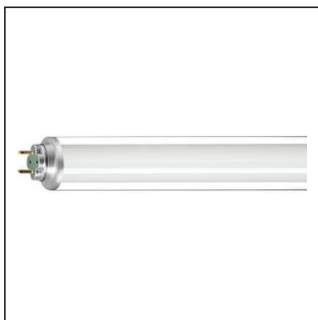
System

- 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 (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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

MASTER TL-D Xtreme Polar



Dim. no.	A		B		C		D	
	max.	min.	max.	max.	max.	max.	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 (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	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/840 - Xtreme Polar	85	4000	A	1350	79000	1	1SL / 10	18840XTRMEPOLAR	892997 25	74.04	yes
36W/840 - Xtreme Polar	85	4000	A	3250	79000	2	1SL / 10	36840XTRMEPOLAR	893116 25	74.04	yes
58W/840 - Xtreme Polar	85	4000	A	5150	79000	3	1SL / 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

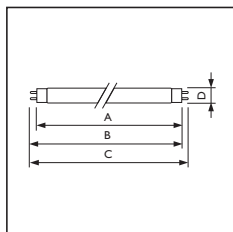
- Food & beverages and pharmaceuticals industry: factories, distribution centres, retail outlets; locations where maintenance and/or process disruption costs are high (high ceilings, difficult access)

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

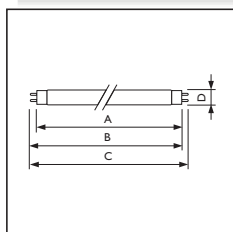


Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
1	589.8	594.5	596.9	604.0	28		
2	1199.4	1204.1	1206.5	1213.6	28		
3	1500.0	1504.7	1507.1	1514.2	28		

MASTER TL-D Xtreme Secura G13

Wattage/ Colour Code	Colour Rendering Index (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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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		B		C		D
	max.	min.	max.	max.	max.	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

- 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

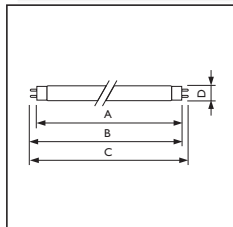
Application

- 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 ActiViva G13

Wattage/Name Extension	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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/Active	82	17000	B	1150	20000	1	1SL / 25	25	18817ACTIVIVA	267306 40	20.49	yes
18W/Natural	82	8000	A	1300	20000	1	1SL / 25	25	18880ACTIVIVA	951830 40	20.49	yes
36W/Active	82	17000	B	2750	20000	2	1SL / 25	25	36817ACTIVIVA	267337 40	20.49	yes
36W/Natural	82	8000	A	3100	20000	2	1SL / 25	25	36880ACTIVIVA	951854 40	20.49	yes
58W/Active	82	17000	B	4500	20000	3	1SL / 25	25	58817ACTIVIVA	267351 40	20.49	yes
58W/Natural	82	8000	A	5000	20000	3	1SL / 25	25	58880ACTIVIVA	951878 40	20.49	yes

MASTER TL-D 90 De Luxe



Dim. no.	A		B		C		D	
	max.	min.	max.	max.	max.	max.	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 (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		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	25.12	yes
18W/940	91	4000	B	1200	20000	1	SLV / 10	10	18940DLP	888396 25	25.12	yes
18W/950	93	5300	B	1200	20000	1	SLV / 10	10	18950DLP	888433 25	25.12	yes
18W/965	92	6500	B	1190	20000	1	SLV / 10	10	18965DLP	888464 25	25.12	yes
36W/930	92	3000	B	2800	20000	2	SLV / 10	10	36930DLP	888563 25	25.12	yes
36W/940	91	4000	B	2970	20000	2	SLV / 10	10	36940DLP	888587 25	25.12	yes
36W/950	93	5300	B	2800	20000	2	SLV / 10	10	36950DLP	888600 25	25.12	yes
36W/965	92	6500	B	2800	20000	2	SLV / 10	10	36965DLP	888624 25	25.12	yes
58W/930	92	3000	B	4350	20000	3	SLV / 10	10	58930DLP	888679 25	26.93	yes
58W/940	91	4000	B	4600	20000	3	SLV / 10	10	58940DLP	888693 25	26.93	yes
58W/950	93	5300	B	4550	20000	3	SLV / 10	10	58950DLP	888716 25	26.93	yes
58W/965	93	6500	B	4550	20000	3	SLV / 10	10	58965DLP	888730 25	26.93	yes

MASTER TL-D 90 Graphica



- 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

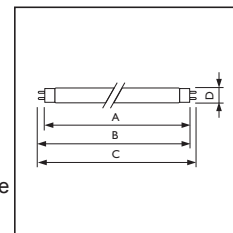
- This product is RoHS compliant
- This product is covered by WEEE

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		B		C		D	
	max.	min.	max.	min.	max.	min.	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

MASTER TL-D 90 Graphica 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		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	32.65	yes
18W/965	98	6500	B	930	20000	1	1SL / 10	10	18965GP	888525 25	32.65	yes
36W/950	98	5300	B	2300	20000	2	1SL / 10	10	36950GP	888648 25	32.65	yes
36W/965	98	6500	B	2100	20000	2	1SL / 10	10	36965GP	888365 25	32.65	yes
58W/950	98	5300	B	3650	20000	3	1SL / 10	10	58950GP	888754 25	35.01	yes
58W/965	98	6500	B	3350	20000	3	1SL / 10	10	58965GP	888778 25	35.01	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

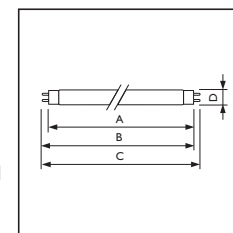
Application

- 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

System

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



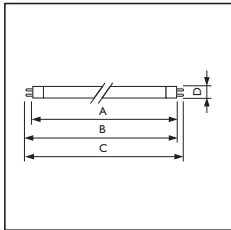
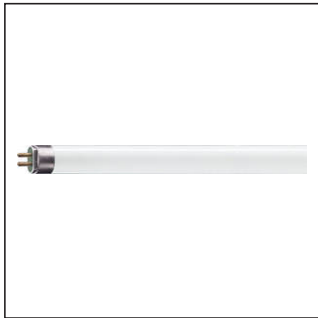
A	B	C	D
589.8	594.5	596.9	604
		28	

TL-D G13

Wattage/Colour Code	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
18W/108	SLV / 25	25	1808	951113 40	44.39	yes

TL5

MASTER TL5 High Efficiency



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

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

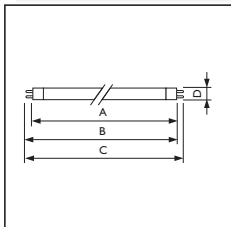
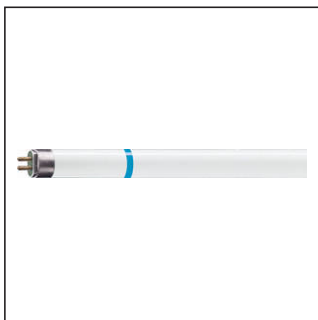
Application

- 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 Rend- ering Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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	14830IP	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	14835IP	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	14840IP	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	14865IP	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	21830IP	610706 55	17.53	yes
21W/835	85	3500	A	1900	101	24000	2	UNP / 40	40	21835IP	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	21840IP	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	28830IP	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	28835IP	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	28840IP	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	28865IP	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	35830IP	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	35835IP	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	35840IP	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		B		C		D
	max.	min.	max.	max.	max.	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 Rend- ering Index (Ra)	Colour Temp- erature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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



- 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 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

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

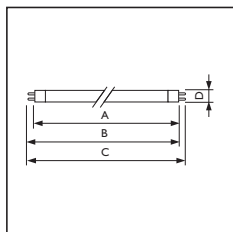
Environment

- 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

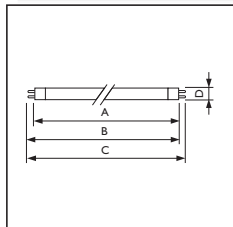
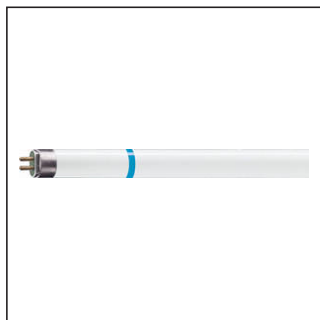


Dim. no.	A		B		C		D
	max.	min.	max.	min.	max.	min.	
1	549.0	553.7	556.1	563.2	563.2	17	
2	849.0	853.7	856.1	863.2	863.2	17	
3	1449.0	1453.7	1456.1	1463.2	1463.2	17	
4	1149.0	1153.7	1156.1	1163.2	1163.2	17	

MASTER TL5 HO G5

Wattage/ Colour Code	Colour Rende- ring Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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		B		C		D
	max.	min.	max.	max.	max.	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 Rend- ring Index (R _a)	Colour Temp- erature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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)

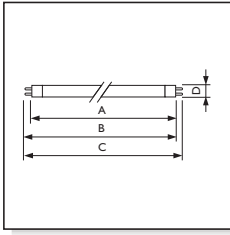
- This product range is RoHS compliant
- This product range is covered by WEEE

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 Rendering Index (R _a)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
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

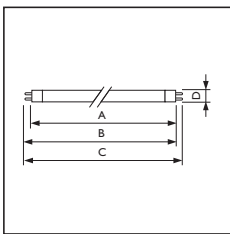
Environment

- 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

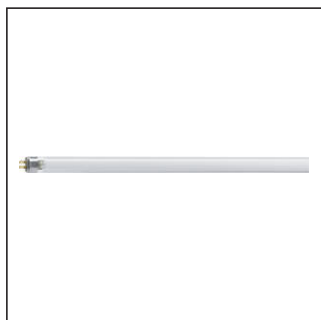
Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
49W/830	85	3000	A	4650	99	24000	1	1SL / 20	20	49830TOP	266835 05	23.50	yes

More data see next page

MASTER TL5 HO TOP G5 (continued)

Wattage/ Colour Code	Colour Rende- ring Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

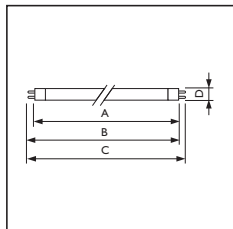
- Allow system miniaturization with maximum luminaire design freedom
- Lower initial investments than any other fluorescent lighting solution, because fewer luminaires are needed
- Optimized for installations which need very high luminous flux
- Good light distribution, beam control, long lifetime and 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

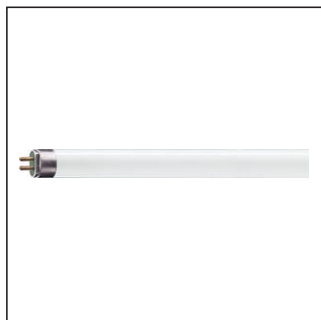


Dim. no.	A		B		C		D
	max.	min.	max.	min.	max.	min.	
1	1149.0	1153.7	1156.1	1163.2	17		
2	1449.0	1453.7	1456.1	1463.2	17		

MASTER TL5 VHO TOP GX5

Wattage/ Colour Code	Colour Rende- ring Index (R _a)	Colour Tem- perature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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	UNP / 40	40	120830VHOIP	267245 55	32.46	yes

MASTER TL5 High Output 90 De Luxe

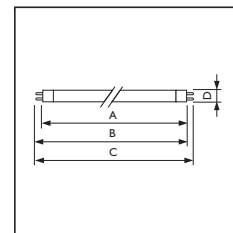


Product Features

- 40% thinner than existing TL-D lamps
- Highly efficient multi-band fluorescent coating in combination with pre-coating 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, hairdressing, museums and shops

Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	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		

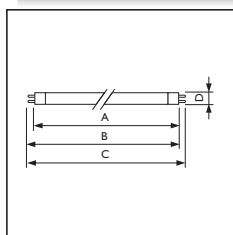
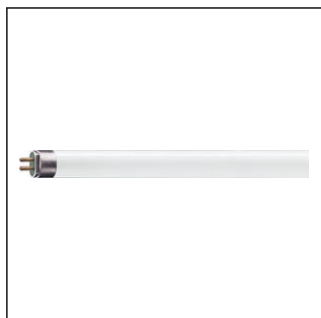
Product Description

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

MASTER TL5 HO 90 De Luxe G5

Wattage/ Colour Code	Colour Rende- ring Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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	24950	890641 20	22.76	yes
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	49950	890627 20	23.28	yes
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	54950	890665 20	23.53	yes
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		B		C		D
	max.	min.	max.	max.	max.	max.	
1	549.0	553.7	556.1	563.2	17		
2	849.0	853.7	856.1	863.2	17		
3	1149.0	1153.7	1156.1	1163.2	17		
4	1449.0	1453.7	1456.1	1463.2	17		

G5

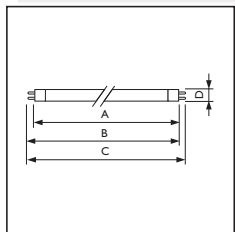
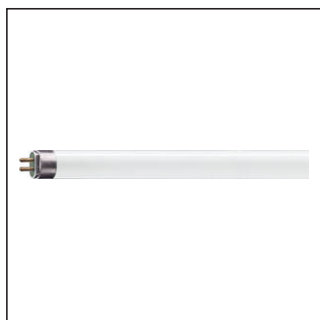
Type	Wattage/ Name Extension	Colour Rende- ring Index (R _a)	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500..	Nett Trade Price per Piece (£)	
MASTER TL5 HE ActiViva	14W/ Active	82	17000	B	850	71	24000	1	1SL / 40	40	14817ACTI- VIVA	267429 55	17.72	yes
MASTER TL5 HE ActiViva	14W/ Natural	82	8000	B	950	78	24000	1	1SL / 40	40	14880ACTI- VIVA	267405 55	17.72	yes
MASTER TL5 HE ActiViva	21W/ Active	82	17000	B	1400	76	24000	2	1SL / 40	40	21817ACTI- VIVA	267467 55	17.72	yes

More data see next page

G5 (continued)

Type	Wattage/ Name Extension	Colour Rende- ring Index (Ra)	Colour Tem- pera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux 25°C EL (lm)	Luminous Efficacy EL Top, 35°C (lm/W)	Life to 50% fail Preheat EL,3h (h)	Dim no.	Packing type/ Packing configuration		National Order Code	Order- ing number 8711500..	Nett Trade Price per Piece (£)	
MASTER TL5 HE ActiViva	21W/ Natural	82	8000	B	1500	83	24000	2	1SL / 40	40	21880ACTI- VIVA	267443 55	17.72	yes
MASTER TL5 HO ActiViva	24W/ Active	82	17000	A	1550	84	24000	1	1SL / 40	40	24817ACTI- VIVA	951755 55	20.50	yes
MASTER TL5 HO ActiViva	24W/ Natural	82	8000	A	1650	84	24000	1	1SL / 40	40	24880ACTI- VIVA	951694 55	15.75	yes
MASTER TL5 HE ActiViva	28W/ Active	82	17000	B	2000	82	24000	3	1SL / 40	40	28817ACTI- VIVA	267597 55	17.72	yes
MASTER TL5 HE ActiViva	28W/ Natural	82	8000	B	2200	89	24000	3	1SL / 40	40	28880ACTI- VIVA	267566 55	17.72	yes
MASTER TL5 HE ActiViva	35W/ Active	82	17000	B	2450	80	24000	4	1SL / 40	40	35817ACTI- VIVA	267658 55	17.72	yes
MASTER TL5 HE ActiViva	35W/ Natural	82	8000	B	2600	85	24000	4	1SL / 40	40	35880ACTI- VIVA	267610 55	17.72	yes
MASTER TL5 HO ActiViva	49W/ Active	82	17000	B	3700	94	24000	4	1SL / 40	40	49817ACTI- VIVA	951816 55	21.18	yes
MASTER TL5 HO ActiViva	49W/ Natural	82	8000	B	4100	94	24000	4	1SL / 40	40	49880ACTI- VIVA	951793 55	16.10	yes
MASTER TL5 HO ActiViva	54W/ Active	82	17000	B	3800	89	24000	3	1SL / 40	40	54817ACTI- VIVA	951779 55	21.98	yes
MASTER TL5 HO ActiViva	54W/ Natural	82	8000	A	4250	89	24000	3	1SL / 40	40	54880ACTI- VIVA	951717 55	16.29	yes

MASTER TL5 Coloured



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

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 ambience, 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 (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

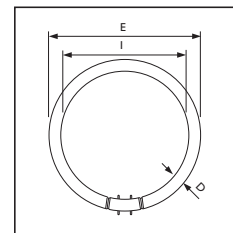
Product Description

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

- 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		E		I	
	min.	max.	min.	max.	min.	max.
1	14	18	220	230	187	197
2	14	18	293	305	260	272
3	14	18	367	379	334	346

MASTER TL5 Circular 2GX13

Wattage/ Colour Code	Colour Rendering Index (Ra)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

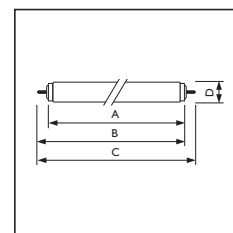
Product Benefits

- 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		B		C		D
	max.	min.	max.	min.	max.	min.	
1	574	589	592.5	611	40.5		
2	1183.5	1198.5	1202	1220.5	40.5		
3	1484.1	1499.1	1502.6	1521.1	40.5		

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 (Ra)	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
20W/33-640	63	4100	B	940	26000	1	1SL / 25	25	TLX2033XL	261359 40	57.75	yes
40W/33-640	63	4100	B	2300	26000	2	1SL / 25	25	TLX4033XL	261373 40	64.17	yes
65W/33-640	63	4100	B	4400	26000	3	1SL / 25	25	TLX6533XL	261397 40	100.53	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

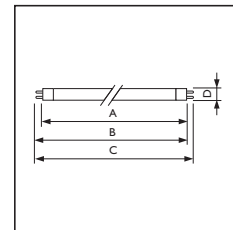
Environment

- 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



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	288.3	293.0	295.4	302.5	16
2	516.9	521.6	524.0	531.1	16

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		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	22.71	yes
13W/840	85	4000	A	1000	8000	2	1FM / 10X25CC	250	1384	716859 27	24.25	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

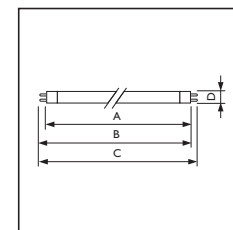
- Creates atmospheres from warm white to cool daylight

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.	B max.	C max.	D max.
1	135.9	140.6	143.0	150.1	16
2	212.1	216.8	219.2	226.3	16
3	288.3	293.0	295.4	302.5	16
4	516.9	521.6	524.0	531.1	16

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		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	13.71	yes
6W/33-640	60	4100	B	260	10000	2	1FM / 10X25CC	250	633	715838 27	13.71	yes
8W/33-640	60	4100	B	410	10000	3	1FM / 10X25CC	250	833	704733 27	13.71	yes
13W/33-640	60	4100	A	930	8000	4	1FM / 10X25CC	250	1333	704757 27	18.42	yes
13W/35-535	55	3500	B	855	8000	4	1FM / 10X25CC	250	1335	716675 27	18.42	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

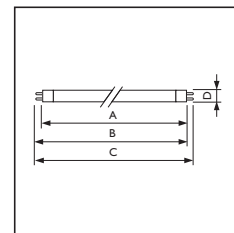
Application

- 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



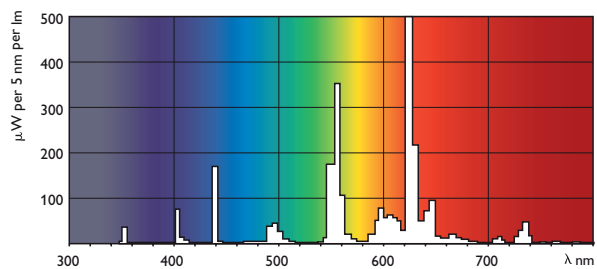
Dim. no.	A max.	A min.	B max.	B min.	C max.	D max.
1	135.9	140.6	143	150.1	16	
2	212.1	216.8	219.2	226.3	16	

TL G5

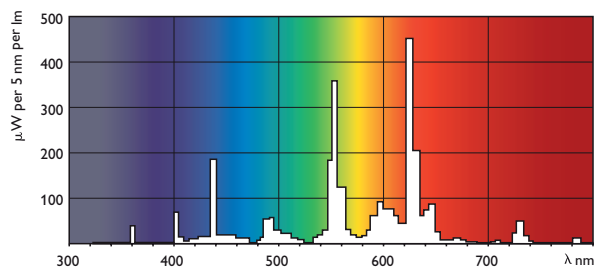
Wattage/Colour Code	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
4W/108	1	FAM / 10X25BOX	250	408	951014 27	20.23	yes
6W/108	2	FAM / 10X25BOX	250	608	950987 27	21.26	yes

Spectral Distribution

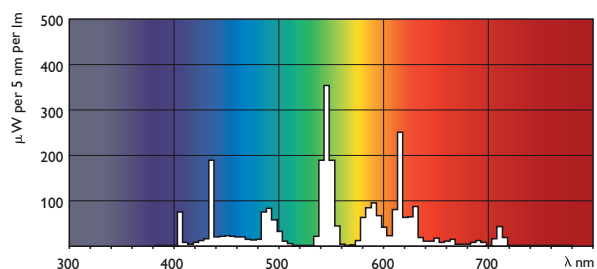
Lightcolour /827



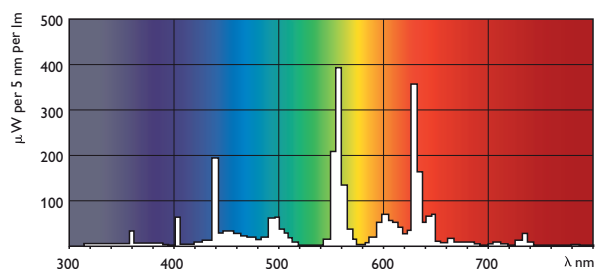
Lightcolour /830



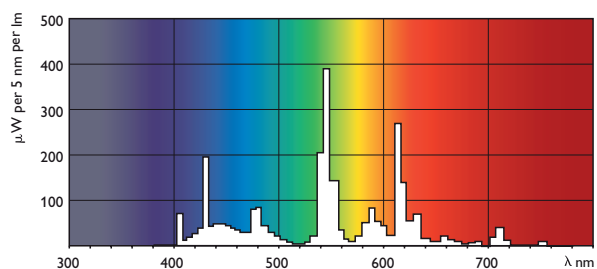
Lightcolour /835



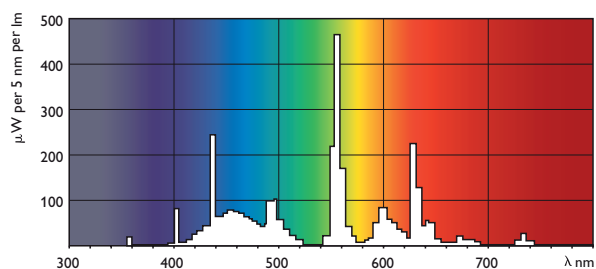
Lightcolour /840



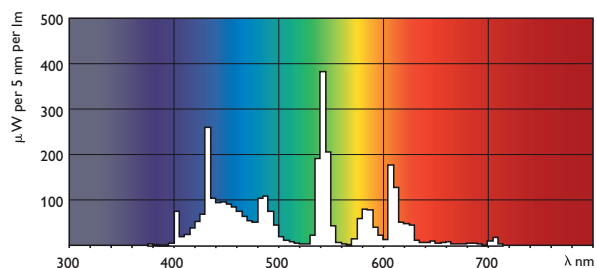
Lightcolour /850



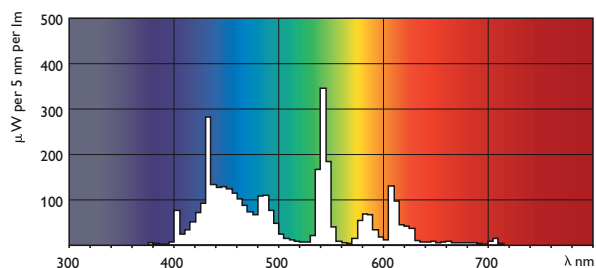
Lightcolour /865



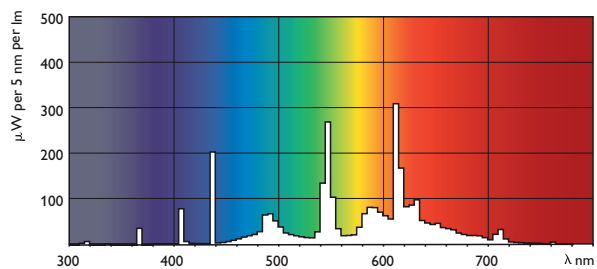
ActiViva Natural (8000K)



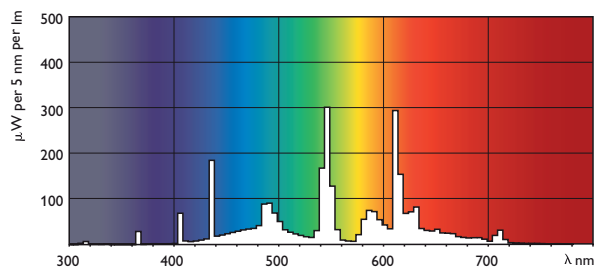
ActiViva Active (17000K)



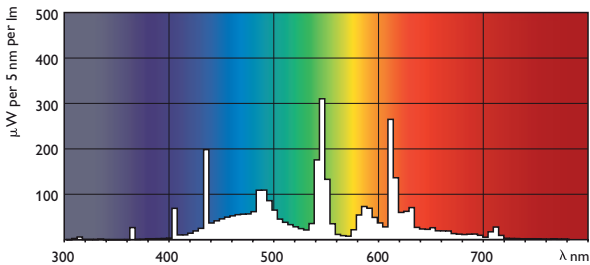
TL-D Lightcolour /930



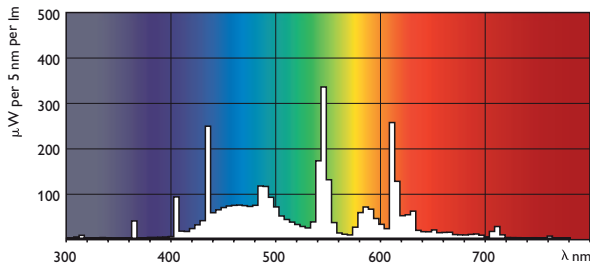
TL-D Lightcolour /940



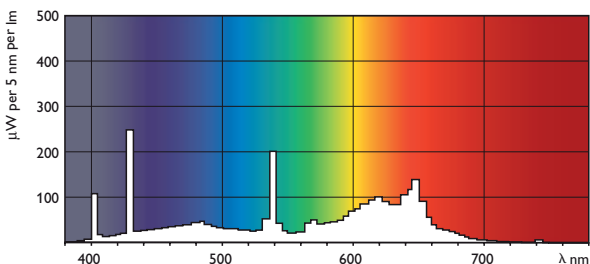
TL-D Lightcolour /950



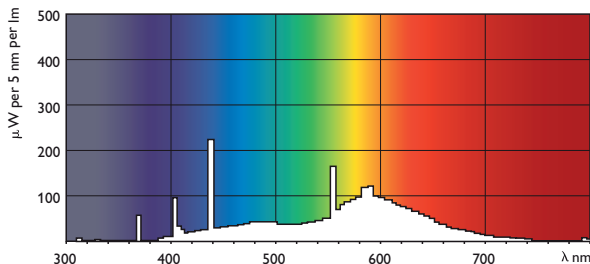
TL-D Lightcolour /965



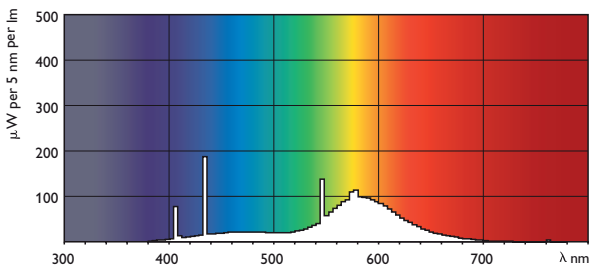
TL-D Lightcolour /79



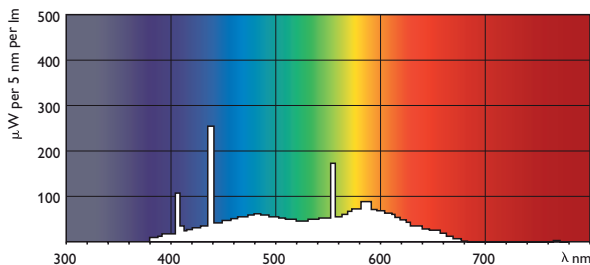
Lightcolour /33-640



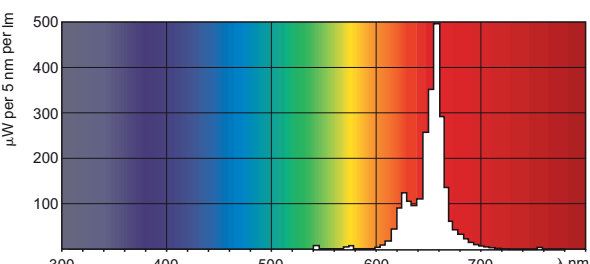
Lightcolour /35-535



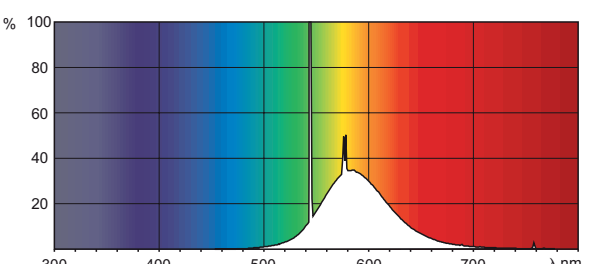
Lightcolour /54-765



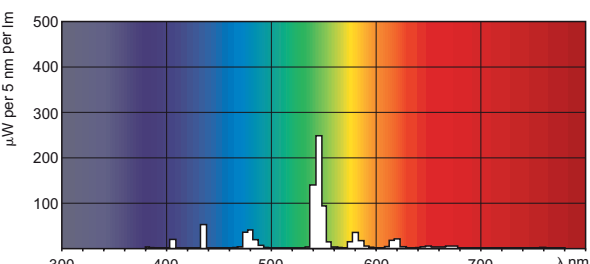
TL-D Lightcolour /15



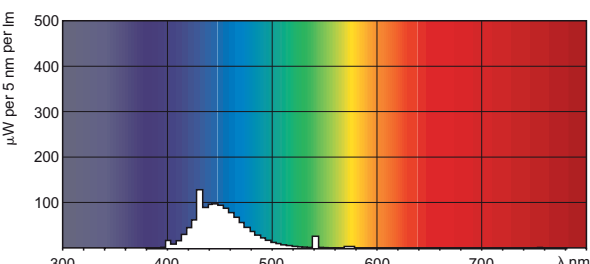
TL-D Lightcolour /16



TL-D Lightcolour /17

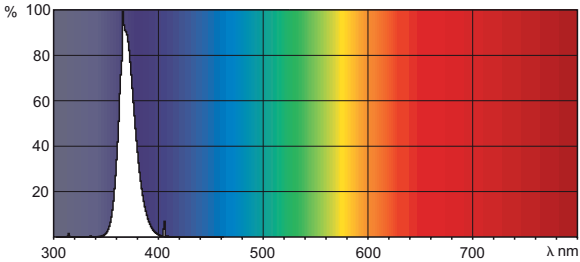


TL-D Lightcolour /18

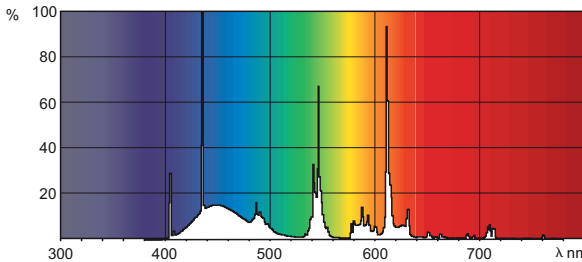


Fluorescent Lamps

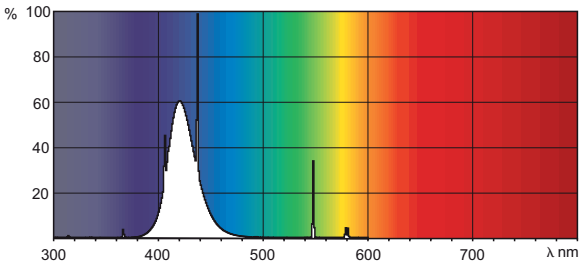
Lightcolour /08



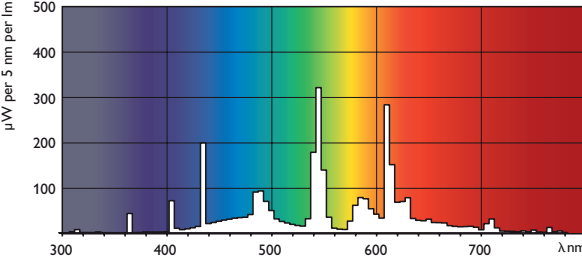
Lightcolour /89



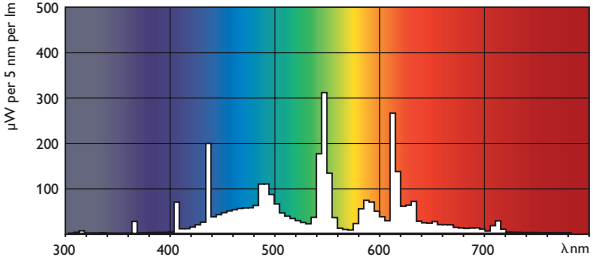
Lightcolour /03



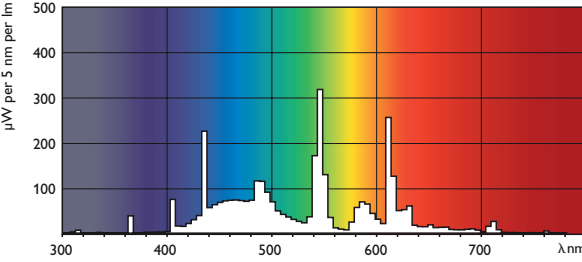
TL5 Lightcolour /940



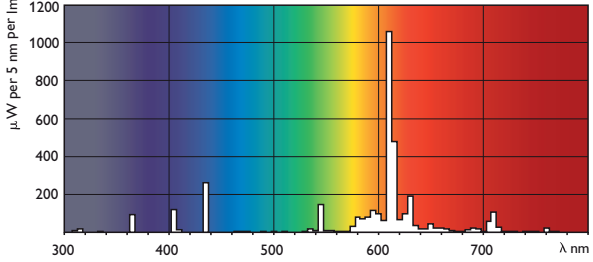
TL5 Lightcolour /950



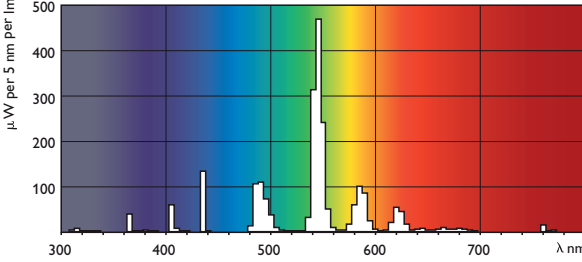
TL5 Lightcolour /965



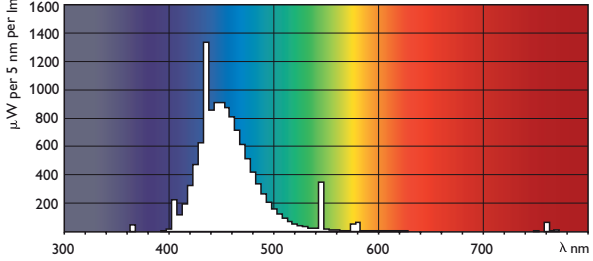
TL5 Lightcolour Red (150)



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)

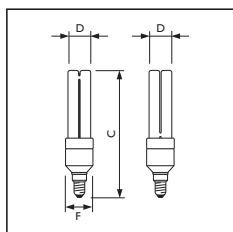
Product Benefits

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

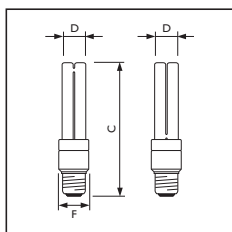
- Smallest dimensions ensuring optimal physical fit
- Highest reliability throughout life which is especially beneficial where lighting is required for longer periods of time and/or where lamp replacement is difficult
- The unique bridged burner results in an excellent run-up time with very high initial 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:

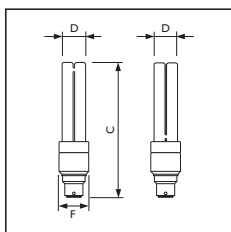
- Designed to replace incandescent lamps in most professional and semi-professional applications
- Mainly indoor (e.g. hotels, restaurants, offices)
- For outdoor applications 3 types (15, 20, 23W) will remain available also in Amalgam with the benefit of virtually constant light output (>90%) over the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



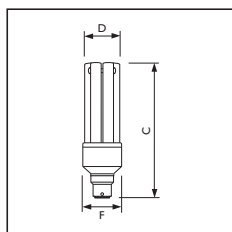
Dim. no.	C	D	F
	max.	max.	max.
1	117.2	28.0	40.3
2	122.2	28.0	40.3
3	144.2	28.0	40.3



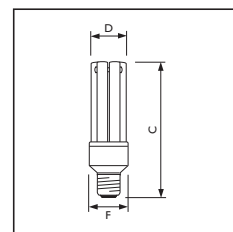
Dim. no.	C	D	F
	max.	max.	max.
4	114.2	28.0	40.3
5	119.2	28.0	40.3
6	141.2	28.0	40.3



Dim. no.	C	D	F
	max.	max.	max.
7	117.4	28.0	40.3
8	139.4	28.0	40.3



Dim. no.	C	D	F
	max.	max.	max.
9	124.7	39.6	48.0
10	135.7	39.6	48.0
11	150.7	39.6	48.0

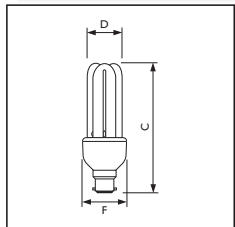


Dim. no.	C	D	F
	max.	max.	max.
12	126.2	39.6	48.0
13	137.2	39.6	48.0
14	152.2	39.6	48.0
15	174.2	39.6	48.0
16	196.2	39.6	48.0

MASTER PL-Electronic 230-240V Warm white

Wattage/ Colour Code	Cap- Base	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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	BC	2700	A	600	15000	8	1CT / 10	10	11BCPLE	263759 25	34.96	Yes
11W/827	SES	2700	A	600	15000	3	1CT / 10	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	9	1CT / 6	6	15BCPLE	752055 10	34.96	yes
15W/827	ES	2700	A	875	20000	12	1CT / 6	6	15ESPLe	751423 10	34.96	yes
20W/827	BC	2700	A	1200	20000	10	1CT / 6	6	20BCPLE	752062 10	34.96	yes
20W/827	ES	2700	A	1200	20000	13	1CT / 6	6	20ESPLe	751430 10	34.96	yes
23W/827	BC	2700	A	1500	20000	11	1CT / 6	6	23BCPLE	752079 10	34.96	yes
23W/827	ES	2700	A	1500	20000	14	1CT / 6	6	23ESPLe	751447 10	34.96	yes
27W/827	ES	2700	A	1800	20000	15	1CT / 6	6	27ESPLe	543851 10	34.96	yes
33W/827	ES	2700	A	2250	20000	16	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 tripe burner technology

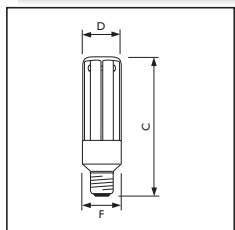
Applications:

- 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 Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
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

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

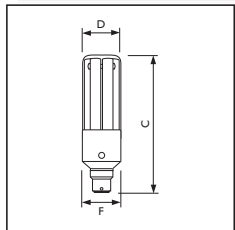
Applications

- 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 Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
15W/827	2700	A	875	15000	1	1CT / 6	6	MPL15ESPOL	660459 10	39.48	yes
20W/827	2700	A	1200	15000	2	1CT / 6	6	MPL20ESPOL	660039 10	39.48	yes
23W/827	2700	A	1485	15000	3	1CT / 6	6	MPL23ESPOL	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

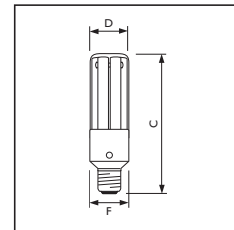
- Virtually constant light output (>90%) over recommended temperature range
- Very low mercury content (≤ 2 mg)

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 Tem- perature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
15W/827	BC	2700	A	900	15000	1	1CT / 6	6	MPL15BCAUTO	260618 10	50.41	yes
15W/827	ES	2700	A	900	15000	2	1CT / 6	6	MPL15ESAUTO	260601 10	50.41	yes

MASTERAmbiance



Product Description

- Energy-saving lamp approximating the shape of a normal incandescent lamp

Product Features

- Professional long-life energy saving alternative to incandescent lamps
- Almost instant, flicker-free start (<1 s)

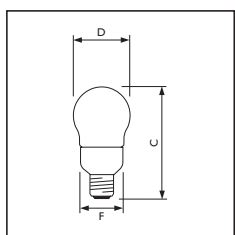
- 80% of nominal light output reached two minutes after switching on
- Almost constant light output (>90%) over recommended temperature range -20 to +40°C

Product Benefits

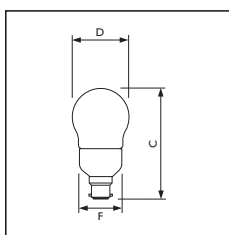
- Light quality and distribution similar to the opalised incandescent lamps
- Gives a soft, diffused light with a high comfort level

Application

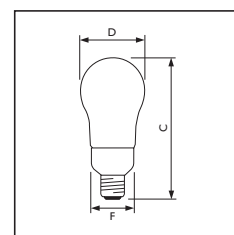
- Designed for incandescent lamp replacement in professional applications (hotels, restaurants, where you want to create an intimate and cosy atmosphere)
- Suitable for applications where lamp is visible
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	F max.
1	121.1	60.8	48.1
2	128.1	65.8	48.1
3	137.1	65.8	48.1





Dim. no.	C max.	D max.	F max.
4	119.4	60.8	48.1



Dim. no.	C max.	D max.	F max.
5	151.6	70.8	48.1

230-240V Warm white

Type	Wattage/ Colour Code	Cap-Base	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MASTERAmbiance	8W/827	ES	2700	A	420	12000	1	1CH / 6	6	9ESAMB MST	871923 00	35.97	yes
MASTERAmbiance	8W/827	BC	2700	A	420	12000	4	1CH / 6	6	9BCAMB MST	871947 00	35.97	yes
MASTERAmbiance	12W/827	ES	2700	A	630	12000	2	1CH / 6	6	12ESAMB MST	468062 00	35.97	yes
MASTERAmbiance	16W/827	ES	2700	A	900	12000	3	1CH / 6	6	16ESAMB MST	468109 00	35.97	yes
MASTERAmbiance	20W/827	ES	2700	A	1200	12000	5	1CH / 6	6	20ESAMB MST	468185 00	35.97	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.

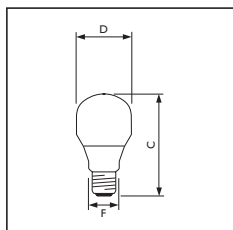
Product Benefits

- 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)

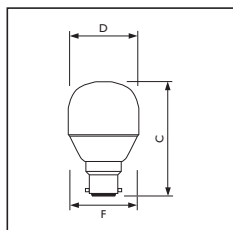
Applications:

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

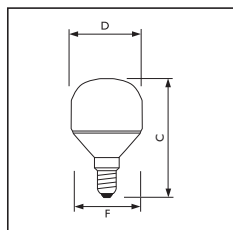
- Ideal replacement for incandescent lamps in places where lights burn for longer periods and where good light effect is important
- Especially suitable for applications where lamp replacement is difficult
- Closed fixtures are required for outdoor applications
- Not suitable for dimming and electronic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



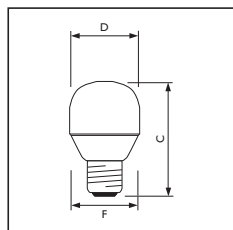
Dim. no.	C max.	D max.	F max.
1	114.0	60.8	46.5
2	129.0	65.8	46.5



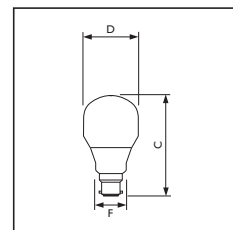
Dim. no.	C max.	D max.	F max.
3	78.5	45.0	44.1



Dim. no.	C max.	D max.	F max.
4	85.0	45.0	44.1



Dim. no.	C max.	D max.	F max.
5	80.0	45.0	44.1



Dim. no.	C max.	D max.	F max.
6	112.5	60.8	46.5
7	127.5	65.8	46.5

Softone ESaver Warm white

Wattage/ Colour Code	Voltage (V)	Cap- Base	Bulb	Colour Tempera- ture (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)	
5W/827	230-240	ES	T60	2700	A	200	8000	1	1PH / 6	6	5ESSOFT8Y	8711500 662552 10	32.71	yes
7W/827	220-240	BC	T45	2700	A	290	8000	3	1PP / 10	10	8BCLUSTRE	8727900 211856 25	32.71	yes
7W/827	220-240	SES	T45	2700	A	290	8000	4	1PP / 10	10	8SESLUSTRE	8727900 211863 25	32.71	yes
7W/827	220-240	ES	T45	2700	A	290	8000	5	1PP / 10	10	8ESLUSTRE	8727900 211849 25	32.71	yes
8W/827	230-240	BC	T60	2700	A	380	8000	6	1PH / 6	6	8BCSOFT8Y	8711500 662606 10	32.71	yes
8W/827	230-240	ES	T60	2700	A	380	8000	1	1PH / 6	6	8ESSOFT8Y	8711500 662569 10	32.71	yes
12W/827	230-240	BC	T60	2700	A	610	8000	6	1PH / 6	6	12BCSOFT8Y	8711500 662613 10	32.71	yes
12W/827	230-240	ES	T60	2700	A	610	8000	1	1PH / 6	6	12ESSOFT8Y	8711500 662576 10	32.71	yes
16W/827	230-240	BC	T60	2700	A	870	8000	6	1PH / 6	6	16BCSOFT8Y	8711500 662620 10	32.71	yes
16W/827	220-240	ES	T60	2700	A	870	8000	1	1PH / 40	40	16ESSOFT8Y40W	8711500 830326 55	32.71	yes
16W/827	220-240	ES	T60	2700	A	870	8000	1	1PH / 6	6	16ESSOFT8Y	8711500 662583 10	32.71	yes
20W/827	230-240	BC	T65	2700	A	1160	8000	7	1PH / 6	6	20BCSOFT8Y	8711500 662637 10	32.71	yes
20W/827	230-240	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%

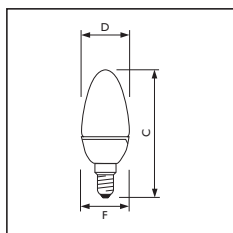
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

Product Benefits

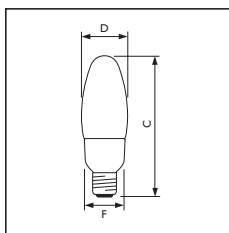
- Light quality and distribution similar to the opalised incandescent lamps
- Gives a soft, diffuse light with a high comfort level

Applications:

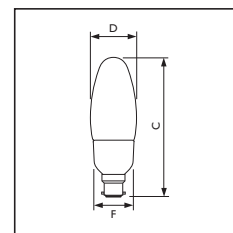
- Designed for replacement of incandescent candle lamps in consumer applications
- Especially for applications where lamps is visible
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	F max.
1	99.0	38.0	38.4



Dim. no.	C max.	D max.	F max.
2	114.0	42.0	42.4
3	120.0	45.0	45.4



Dim. no.	C max.	D max.	F max.
4	119.0	45.0	45.4

Softone 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		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
5W/827	220-240	SES	2700	A	180	8000	1	1PH / 10	10	5SESCANDLEMINI	211900 25	32.71	yes
8W/827	230-240	ES	2700	A	345	10000	2	1PF / 10	10	8ESSOFTPL	260861 25	32.71	yes
8W/827	230-240	SES	2700	A	345	10000	2	1PF / 10	10	8SESCANDMINIB42	260854 25	32.71	yes
12W/827	230-240	SES	2700	A	610	10000	2	1PF / 10	10	12SESCANDLEB45	260946 25	32.71	yes
12W/827	230-240	ES	2700	A	610	10000	3	1PF / 10	10	12SESCANDSOFB45	260953 25	32.71	yes
12W/827	230-240	BC	2700	A	610	10000	4	1PF / 10	10	12BCCANDLSOFB45	260960 25	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

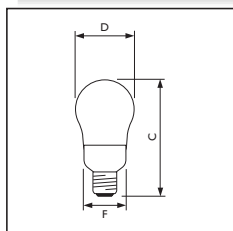
Product Benefits

- Energy-saving general lighting comparable to 40W incandescent lamp

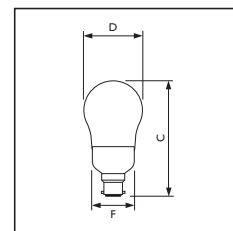
- Night light for safety, comfort and security at very low energy consumption (1W)

Application

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



Dim. no.	C max.	D max.	F max.
1	137.1	65.8	48.2



Dim. no.	C max.	D max.	F max.
2	135.4	65.8	48.2

Nightlight ESaver 230-240V Warm white

Wattage/ Colour Code	Cap-Base	Colour Temperature (K)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
9W/827	ES	2700	A	400	8000	1	1PH / 6	6	9ESNL1P	543202 10	37.38	Yes
9W/827	BC	2700	A	400	8000	2	1PH / 6	6	9BCNL1P	543325 10	37.38	yes

Energy Saver Reflectors

PL-Electronic Reflector R80



Product Description

- Energy-saving lamp approximating the shape of an R80 incandescent reflector lamp
- Professional long-life and energy-saving alternative to incandescent lamps

Product Features

- High light intensity in a specific direction

- 80% of nominal light output reached within 2 minutes of switch-on
- Almost constant light output (>80%) over recommended temperature range (-20 to +55°C), both base-up and base-down


Product Benefits

- 50% energy saving compared with standard incandescent lamps
- Direct replacement for R80 reflector lamps in numerous professional applications
- Light quality and distribution similar to opalised incandescent R80 reflector lamps

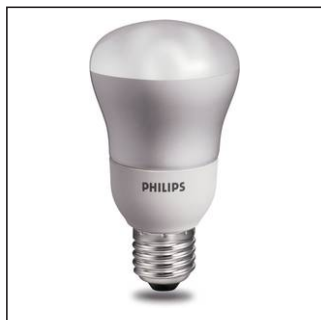
- High reliability, especially important where lighting is used for longer periods and/or where lamp replacement is difficult
- Lifetime independent of number of on/off switching cycles

Applications:

- Direct replacement for R80 reflector lamps in numerous professional applications, e.g. hotels and restaurants as well as horticulture
- Dimming or electronic control devices cannot be used

Type	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
PL-Electronic Reflector R80 20W WW E27 230-240V	1CT / 6	20ESPLERFL	659897 00	38.08	yes

Downlighter ESaver



Product Description

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

Product Features

- Gives directional light

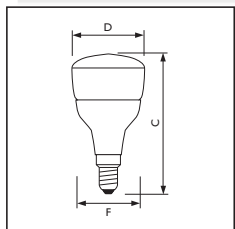
- Longer-life alternative to incandescent lamps (average lifetime up to 6 times longer)
- Not suitable for dimming and electronic devices

Product Benefits

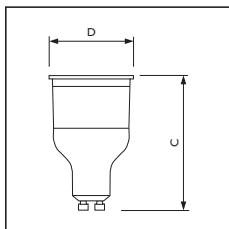
- Saving on energy bills
- Replacements less frequent
- Lower cost of ownership than incandescent / halogen reflectors

Applications:

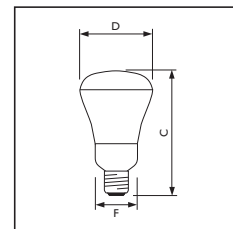
- Primarily indoor, as replacement for incandescent reflectors in downlighters or ES/GU10-based luminaires
- Professional applications – shops, restaurants, cafes
- Consumer applications – desk spotlight lamps, some GU10-based luminaires



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 220-240V Warm white

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

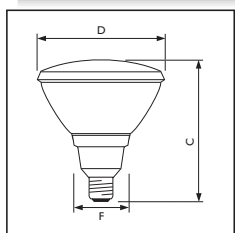
- Lower energy costs due to lower energy consumption

- 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		National Order Code	Ordering number 8710163...	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



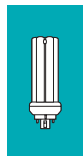
Energy efficient alternative

MASTER PL-R Eco

Energy savings	50%
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For more uplamping possibilities, visit www.philips.co.uk/lighting



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

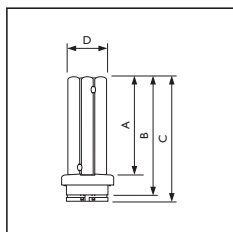
- Most sustainable compact fluorescent solution for comparable lighting solutions
- Up to 50% reduction of CO₂ emissions in application and lower light output depreciation
- Longer service life and lowest mercury content leads to less environmental waste
- Compliant with all RoHS and WEEE requirements: 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

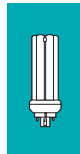
- Only for use with electronic driver enabling high independence of mains supply variations
- Indicated savings only possible with optimized electronic driver and optics



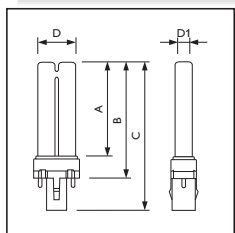
Dim. no.	A max.	B max.	C max.	D max.
1	99.7	120.0	126.6	41.0
2	121.7	142.0	148.6	41.0

MASTER PL-R Eco GR14q-1

Wattage/ Colour Code	Colour Rendering Index (R _a)	Energy Efficiency Label (EEL)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
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	14PLR840ECO	265982 70	35.54	yes
17W/830	82	A	yes	24000	2	1CT / 5X10CC	50	17PLR830ECO	266019 70	35.54	yes
17W/840	82	A	yes	24000	2	1CT / 5X10CC	50	17PLR840ECO	266040 70	35.54	yes



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

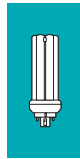
- Designed for use in hotels, restaurants, theatres and homes
- Suitable for use in signs, corridors, security and orientation lighting

System

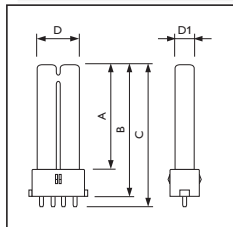
- For use on conventional copper iron ballasts
- Radio interference suppression capacitor is installed

MASTER PL-S /2P G23

Wattage/ Colour Code	Colour Rendering Index (R _a)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimma- ble	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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 Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

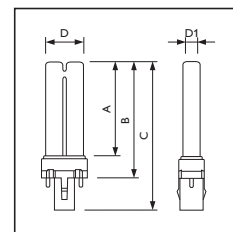
Application

- 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



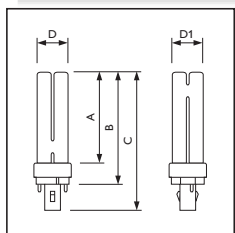
A max.	B max.	C max.	D max.	D1 max.
129	145	167.5	28	13

PL-S 2 Pins G23

Wattage/Colour Code	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
9W/108	1CT / 6X10CC	60	PLS908	950901 80	33.93	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

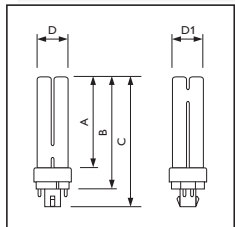
System

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

MASTER PL-C /2P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimmable	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		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 Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimma- ble	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		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/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
18W/827	G24q-2	82	B	1200	yes	13000	3	1CT / 5X10CC	50	18PLC8274PIN	623270 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



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

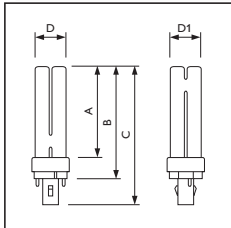
- Good environmental choice because of long reliable life, high-energy efficiency and lowest mercury content
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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



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

MASTER PL-C Xtra /2P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimmable	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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



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

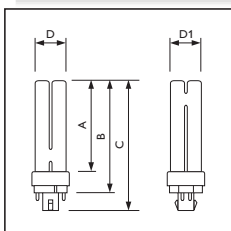
- Recessed or surface-mounted downlighters, wall units, table lamps and pendant lamps
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

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

Application

- Designed for general or supplementary lighting in professional environments



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

MASTER PL-C Xtra /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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
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

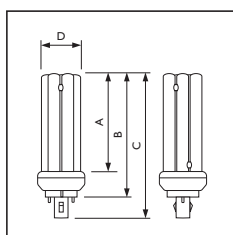
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame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

Application

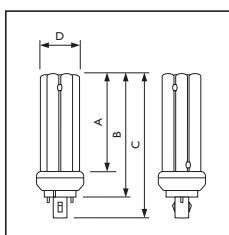
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units

System

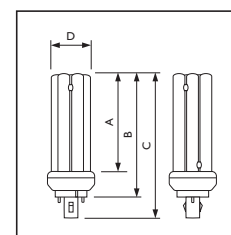
- For use with conventional electromagnetic ballast
- Radio interference suppression capacitor installed



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 Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimmable	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		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

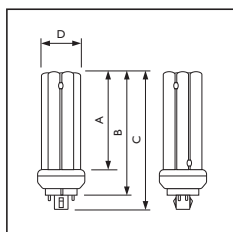
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame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

Application

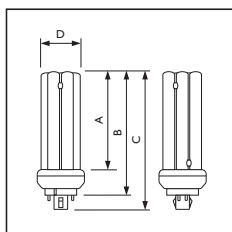
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units, outdoor lighting
- First choice for short switching cycles, emergency lighting and deep dimming

System

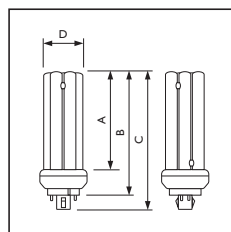
- For use with HF electronic gear enabling controllable light output and high independence of mains supply variations



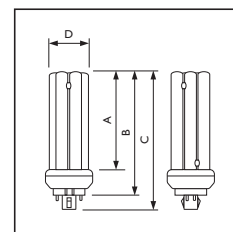
Dim. no.	A max.	B max.	C max.	D max.
1	66.7	91.0	106.7	41.0
2	157.7	182.0	197.7	41.0



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

MASTER PL-T TOP 4 Pin



- 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

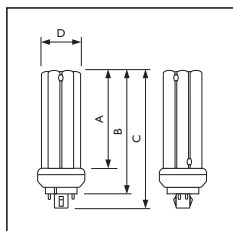
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units
- First choice for long switching cycles and highest light output

System

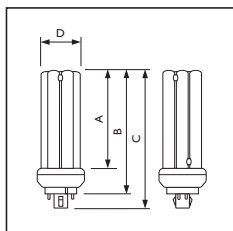
- For use with HF electronic gear enabling controllable light output and high independence of mains supply variations

Product Description

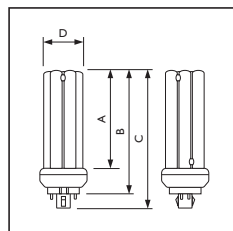
- Energy saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp



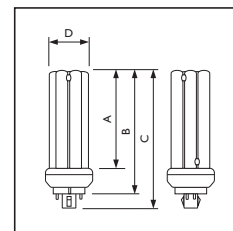
Dim. no.	A max.	B max.	C max.	D max.
1	71.7	96.0	111.7	41



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



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



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

MASTER PL-T TOP /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)		
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 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

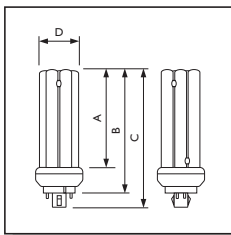
- Ideal for use in recessed or surface mounted downlighters, wall units, outdoor lighting
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

System

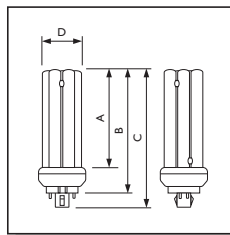
- For use with HF electronic gear enabling high independence of mains supply variations
- Optimized performance for electronic gear with preheat function

Product Description

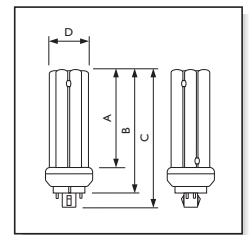
- Energy saving compact fluorescent lamp
- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 6 parallel narrow fluorescent tubes



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

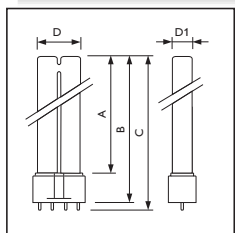


Dim. no.	A max.	B max.	C max.	D max.
3	157.7	182.0	197.7	41.0

MASTER PL-T Xtra /4P

Wattage/ Colour Code	Cap- Base	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimma- ble	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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



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

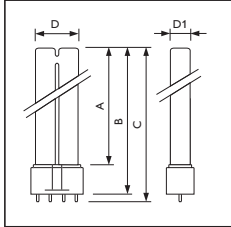
- Separate radio-suppression capacitor required
- Universal application in conventional high-voltage switch-start circuits, low-voltage sequence-start circuits and advanced electronic circuits

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

MASTER PL-L /4P 2G11

Wattage/ Colour Code	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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 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

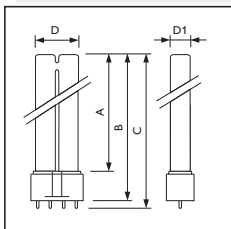
System

- 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 (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

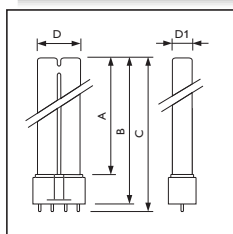
Wattage/ Colour Code	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
24W/830	82	B	1800	yes	36000	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

More data see next page

MASTER PL-L Xtra /4P 2G11 (continued)

Wattage/ Colour Code	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimma- ble	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

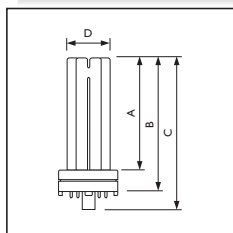
System

- 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 (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimma- ble	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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 (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Dimmable	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		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	42.29	yes
60W/840	82	B	4000	yes	20000	1	1CT / 10	10	60PLH840	264091 25	42.29	yes
85W/830	82	B	6000	yes	20000	2	1CT / 10	10	85PLH830	264114 25	47.39	yes
85W/840	82	B	6000	yes	20000	2	1CT / 10	10	85PLH840	264237 25	47.39	yes
120W/830	82	B	9000	yes	20000	3	1CT / 10	10	120PLH830	264039 25	60.39	yes
120W/840	82	B	9000	yes	20000	3	1CT / 10	10	120PLH840	264053 25	60.39	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

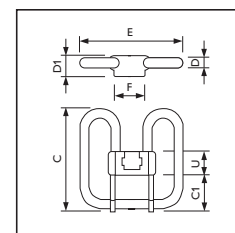
- Ideal for applications such as
 - corridors
 - toilets
 - stairwells
 - reception areas

Luminaires

- Fit both square and round bulkhead luminaires

System

- Operate on separate control gear



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

PL-Q /2P GR8

Wattage/ Colour Code	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EM (lm)	Dimmable	Life to 50% failures EM (h)	Packing type/Packing configuration		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

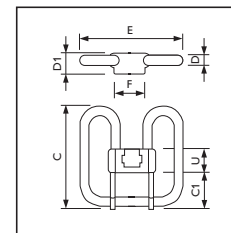
Product Benefits

- 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
	max.	max.	max.	max.	max.	max.	max.
1	141	51	15	27.5	138	41	40
2	207	77	24	33	205	41	49



Luminaires

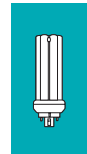
- Fit both square and round bulkhead luminaires

System

- Operate on separate control gear

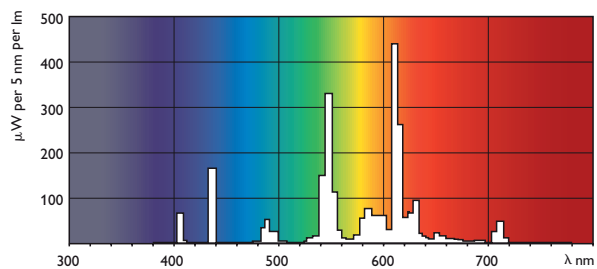
PL-Q /4P GR10q

Wattage/ Colour Code	Colour Rendering Index (Ra)	Energy Efficiency Label (EEL)	Lamp Luminous Flux EL (lm)	Lamp Luminous Flux EM (lm)	Dimma- ble	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

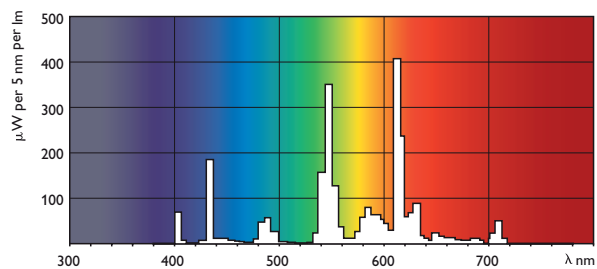


Spectral Distribution

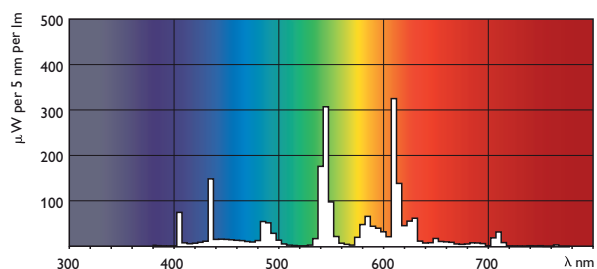
Lightcolour /827



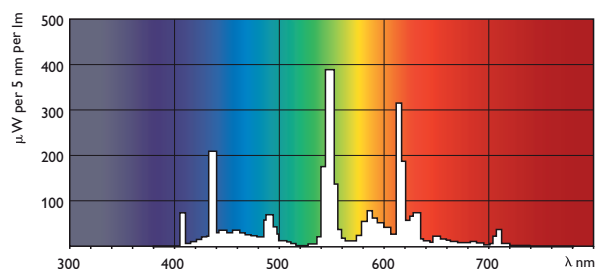
Lightcolour /830



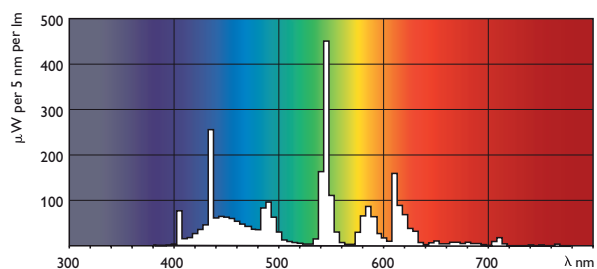
Lightcolour /835



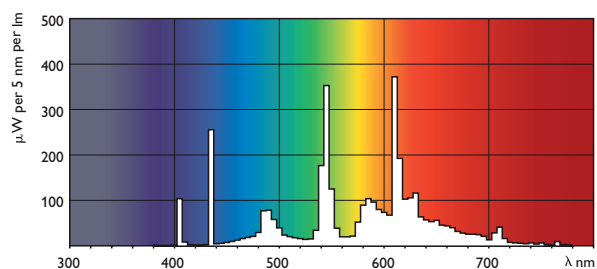
Lightcolour /840



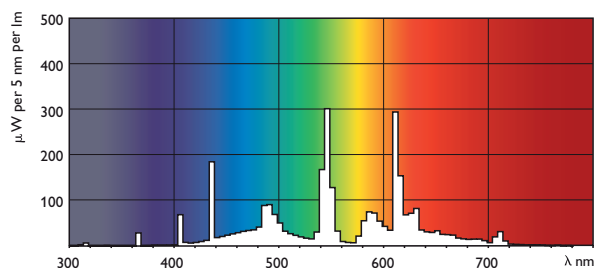
Lightcolour /865



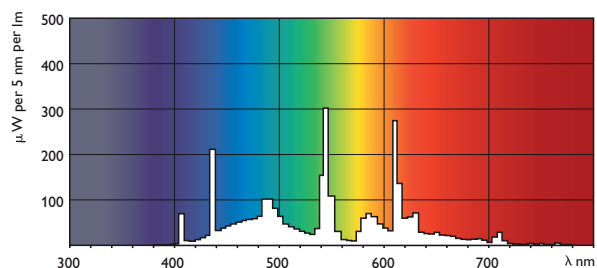
Lightcolour /930



Lightcolour /940



Lightcolour /950



Compact High Intensity Discharge Lamps

Guide to uplamping 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

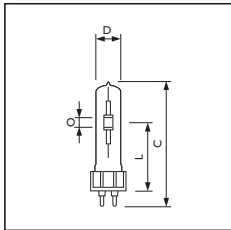
Energy savings	40%
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For more uplamping possibilities, visit www.philips.co.uk/lighting



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 (Ra 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 (Ra 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

- 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

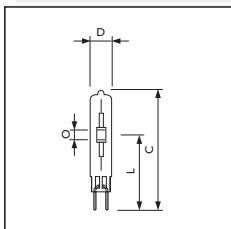
Environment

- Excellent environmental choice because of high energy efficiency and long reliable life

MASTERColour CDM-T Elite G12

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
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	227.04	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 (Ra 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 (Ra 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)

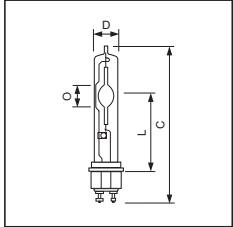
System

- Must be used with electronic gear such as Philips PrimaVision

MASTERColour CDM-TC Elite G8.5

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
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)

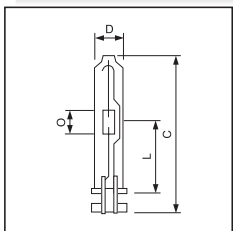
System

- 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		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	210CDMTELITE942	801804 00	255.45	yes
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

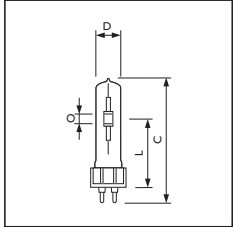
System

- 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		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

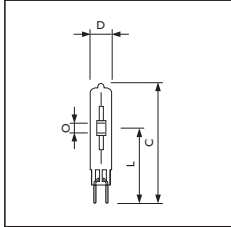
- Must be used in combination with a ballast and an ignitor
- A high-current protection device (thermo-switch) in the gear is mandatory (IEC 1167)
- If there is a constant voltage deviation of more than 3% of the rated voltage, a different ballast rating/tap must be used
- Electronic gear can be used,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

MASTERColour CDM-T G12

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)	
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	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

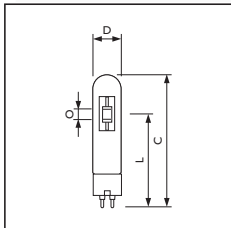
System

- 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 Temperature (K)	Lamp Luminous Flux EL (lm)	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)	
20W/830	3000	1650		any	1	1CT / 12	12	20CDMTC830	8727900 803600 00	181.83	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

MASTERCcolour CDM-TP

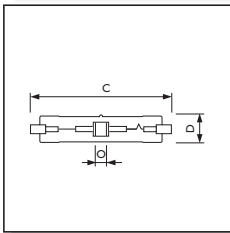
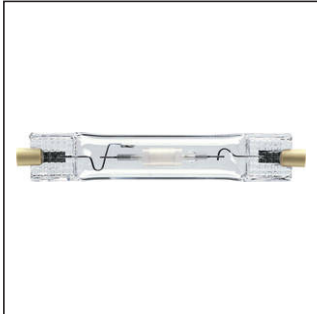
Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)	
70W/830	PG12-2	3000	5800	16000	any	1	1CT / 12	12	70CDMTP830	201270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

More data see next page

MASTERColour CDM-TP (continued)

Wattage/ Colour Code	Cap-Base	Colour Tem- perature (K)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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 +/-45°

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

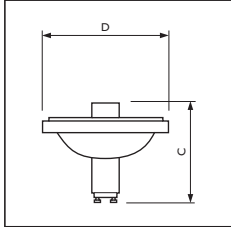
System

- 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 (K)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

MASTERCcolour 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

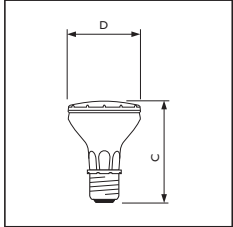
System

- 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

MASTERCcolour CDM-R111 GX8.5

Wattage/ Colour Code	Beam Description (°)	Colour Temperature (K)	Luminous Intensity (cd)	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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	231.48	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

MASTERCcolour 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

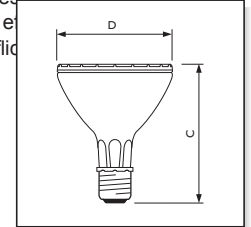
- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

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 and visible flicker

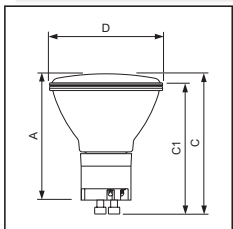


Dim. no.	C nom.	D nom.
2	120	95

MASTERCcolour CDM-R ES

Wattage/ Colour Code	Bulb	Beam Description	Colour Temperature (K)	Luminous Intensity (cd)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
35W/830	PAR20	10 Spot	3000	23000	8000	any	1	1CT / 12	35CDMR830SPP20	198082 15	210.45	yes
35W/830	PAR20	30 Flood	3000	5000	8000	any	1	1CT / 12	35CDMR830FLP20	198105 15	210.45	yes
35W/942	PAR20	10 Spot	4200	21500	9000	any	1	1CT / 12	35CDMR942P2010D	207852 15	210.45	yes
35W/942	PAR20	30 Flood	4200	5000	9000	any	1	1CT / 12	35CDMR942P2030D	207876 15	210.45	yes
35W/830	PAR30L	10 Spot	3000	44000	8000	any	2	1CT / 6	35CDMR830SP	197016 10	210.45	yes
35W/830	PAR30L	30 Flood	3000	7400	8000	any	2	1CT / 6	35CDMR830FL	197030 10	210.45	yes
70W/830	PAR30L	10 Spot	3000	68000	11000	any	2	1CT / 6	70CDMR830SPP30	197054 10	210.45	yes
70W/830	PAR30L	40 Flood	3000	10000	11000	any	2	1CT / 6	70CDMR830FLP30	197078 10	210.45	yes
70W/942	PAR30L	10 Spot	4200	63000	11000	any	2	1CT / 6	70CDMR942P3010	207258 10	210.45	yes
70W/942	PAR30L	30 Flood	4200	13000	11000	any	2	1CT / 6	70CDMR942P3030	207296 10	210.45	yes
70W/942	PAR30L	40 Flood	4200	9000	11000	any	2	1CT / 6	70CDMR942P3040	207272 10	210.45	yes

MASTERCcolour CDM-R Mini



A max.	C max.	C1 max.	D 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

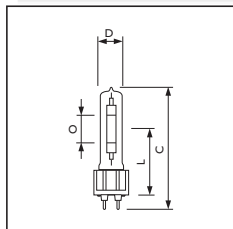
System

- 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

Wattage/ Colour Code	Colour Tempera- ture (°)	Colour Tempera- ture (K)	Lamp Luminous Flux EL (lm)	Luminous Intensity (cd)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
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

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)

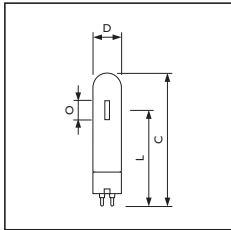
System

- 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
50W/825	2500	2400	10000	any	1	1CT / 12	12	50SDWTG	203236 15	188.34	yes
100W/825	2500	4900	10000	any	2	1CT / 12	12	100SDWTG	202338 15	198.26	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)

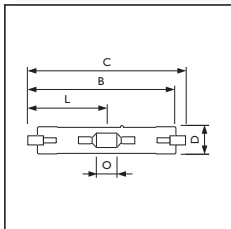
System

- 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
35W/825	2500	1300	15000	any	1	1SL / 12	12	35SDWT	734020 15	158.23	yes
50W/825	2500	2300	15000	any	2	1SL / 12	12	50SDWT	734037 15	165.27	yes
100W/825	2500	5000	15000	any	3	1SL / 12	12	100SDWT	734044 15	174.63	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

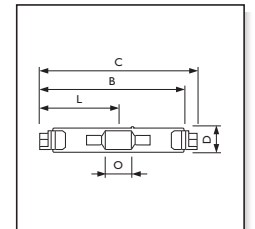
Application

- 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		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	121.72	yes
70W/730	RX7s	3000	6200	9000	p45	1	1CT / 12	12	70MHWTD	562685 15	121.72	yes
150W/842	RX7s	4200	12900	10500	p45	2	1CT / 12	12	150MHNTD	733993 15	121.72	yes

More data see next page

MHN-TD (continued)

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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
150W/730	RX7s	3000	13800	10500	p45	2	1CT / 12	12	150MHWTD	193506 15	121.72	yes
250W/842	FC2	4200	20000	9000	p45	3	1CT / 12	12	250MHNTD	734006 15	147.69	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

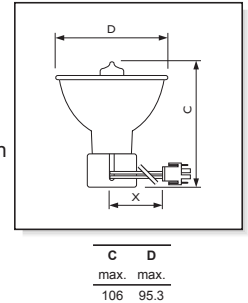
- Decorative outdoor, architectural lighting
- Shops and shop windows

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



Ceramic Cap-Cable

Type	Rated Lamp Wattage (W)	Wattage/ Colour Code	Lamp Luminous Flux EM (lm)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
CDM-SA/R 150W/942	150	150W/942	2750	2750	6000	any	UNP / 1	1	150CDMSAR942	201508 00	562.75	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

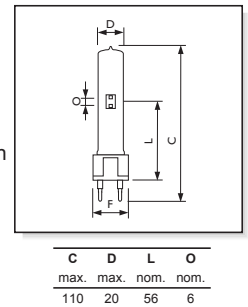
- Decorative outdoor, architectural lighting
- Shops and shop windows

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

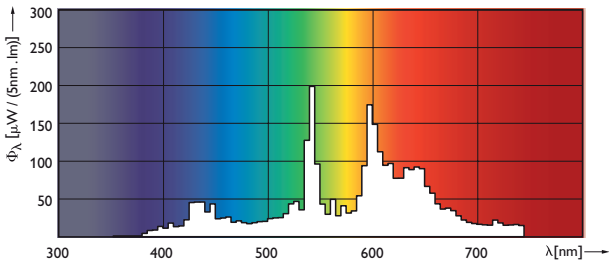


G12

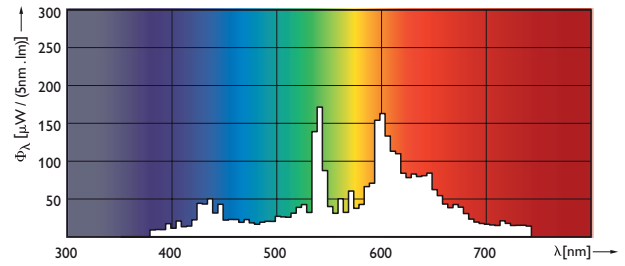
Type	Rated Lamp Wattage (W)	Wattage/ Colour Code	Lamp Luminous Flux EM (lm)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
CDM-SA/T 150W/942	150	150W/942	14000	14000	9000	any	1CT / 12	12	150CDMTSA942	200945 15	229.43	yes

Spectral Distribution

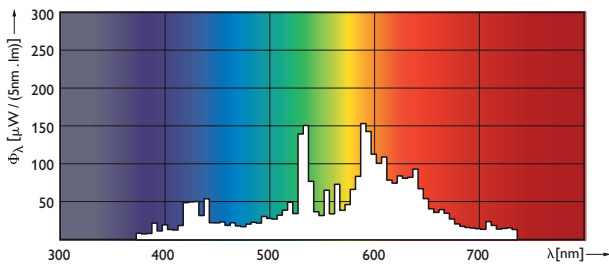
MASTERColour CDM Elite 35W /930



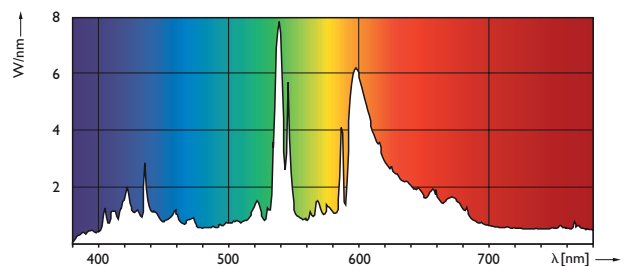
MASTERColour CDM Elite 70W /930



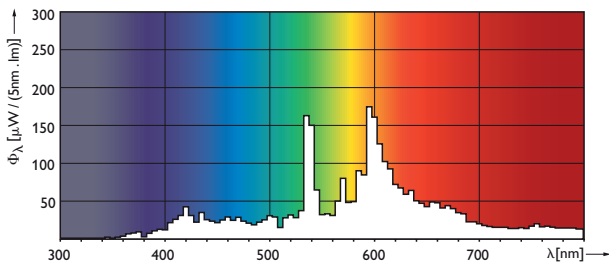
MASTERColour CDM Elite 150W /930



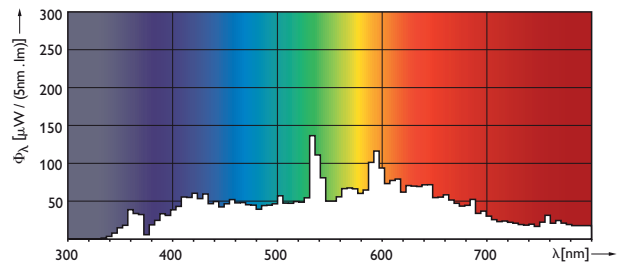
MASTERColour CDM-Tm



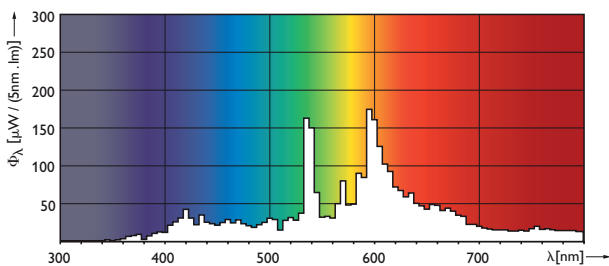
MASTERColour CDM-T /830



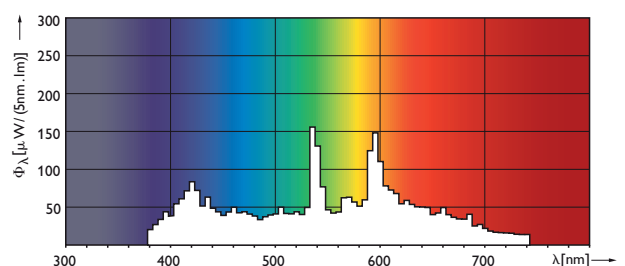
MASTERColour CDM-T /942



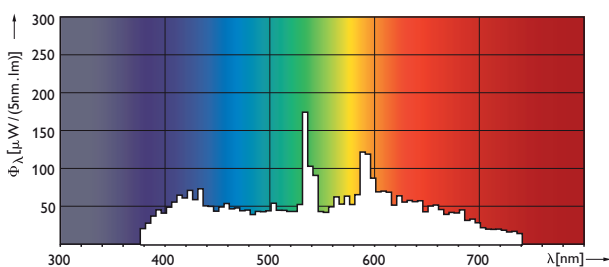
MASTERColour CDM-TC /830



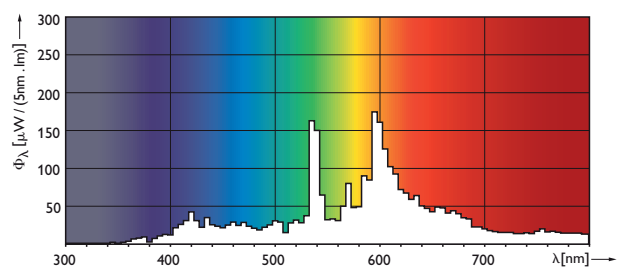
MASTERColour CDM-TC 35W /942



MASTERColour CDM-TC 70W /942

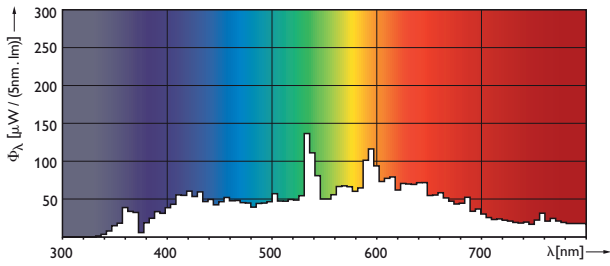


MASTERColour CDM-TP /830

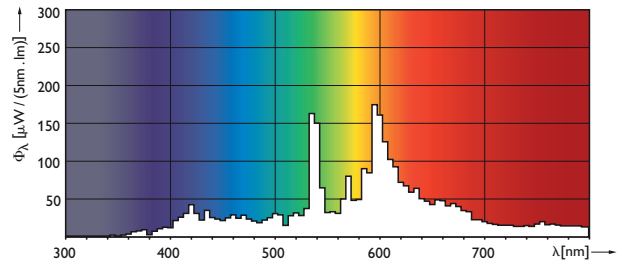


Compact High Intensity Discharge

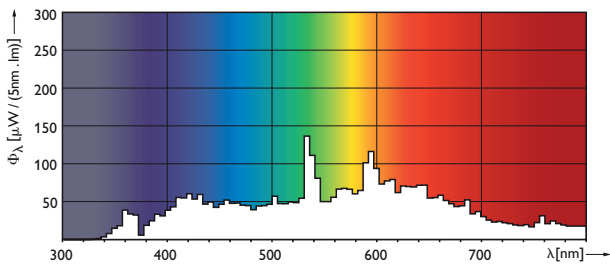
MASTERColour CDM-TP /942



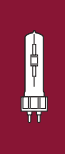
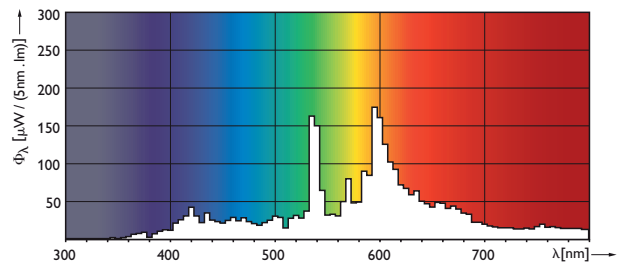
MASTERColour CDM-TD /830



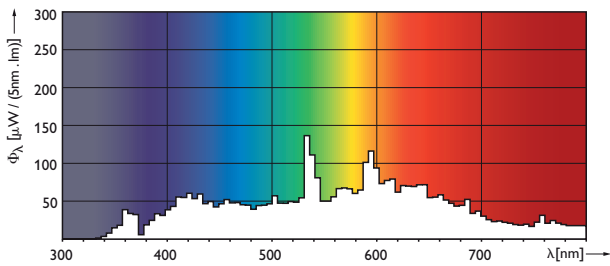
MASTERColour CDM-TD /942



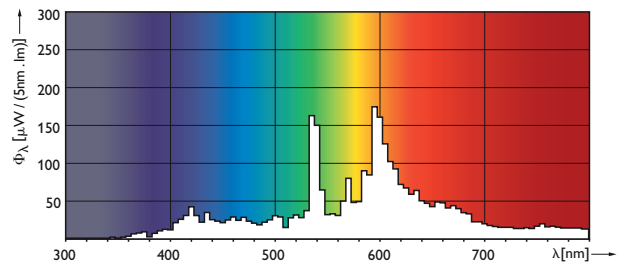
MASTERColour CDM-R111 /830



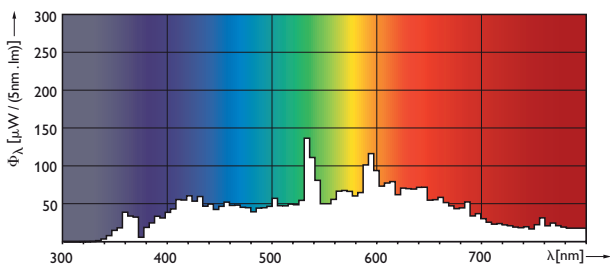
MASTERColour CDM-R111 /942



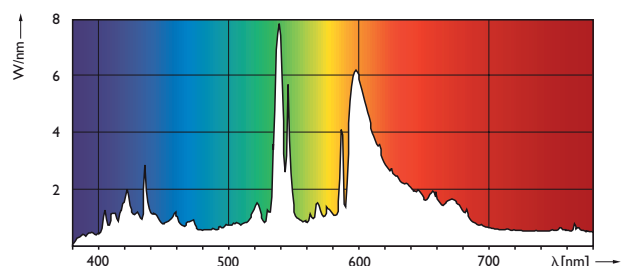
MASTERColour CDM-R /830



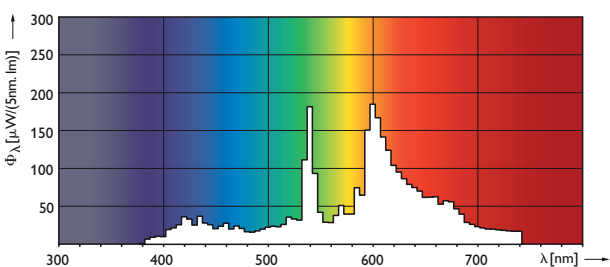
MASTERColour CDM-R /942



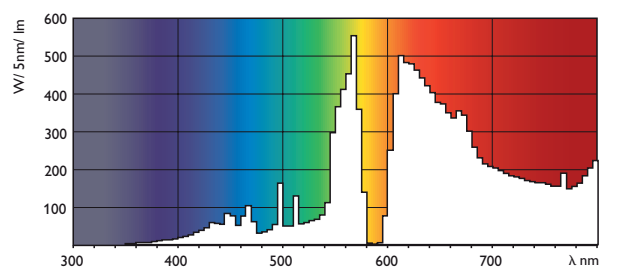
MASTERColour CDM-Rm



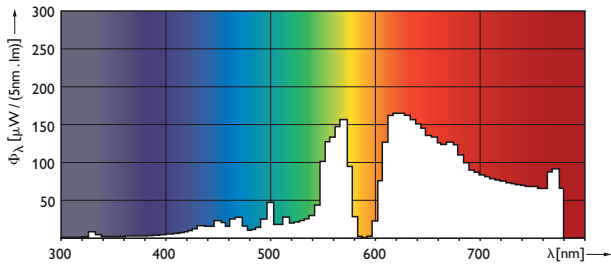
MASTERColour CDM-i 25W /830



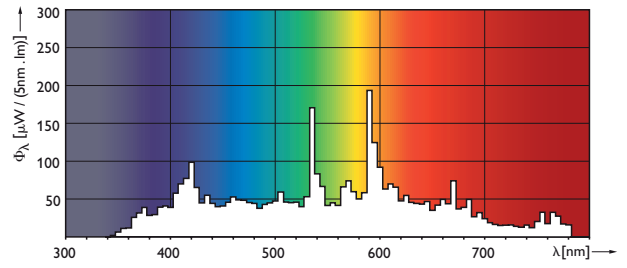
MASTER SDW-TG Mini



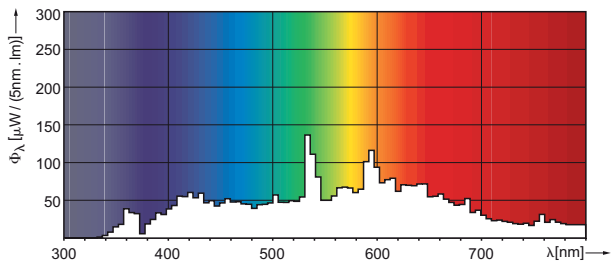
MASTER SDW-T



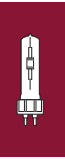
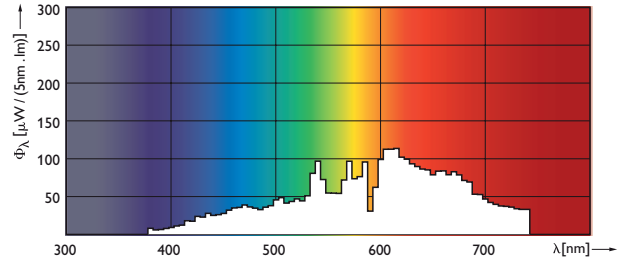
MHN-TD 70W & 150W



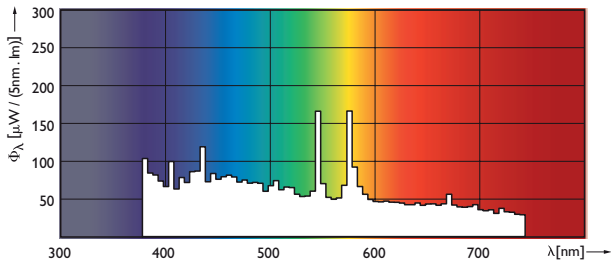
CDM-SA/R & CDM-SA/T /942



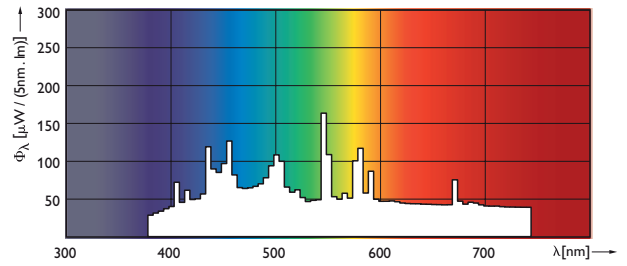
Ceramic ST 250W HR



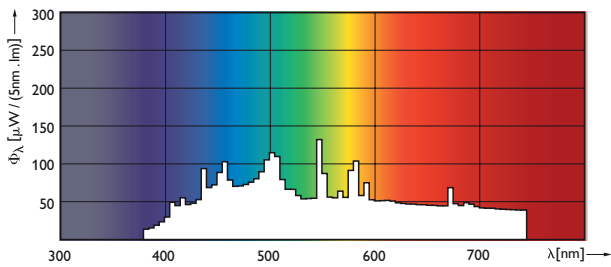
Ceramic ST 500W



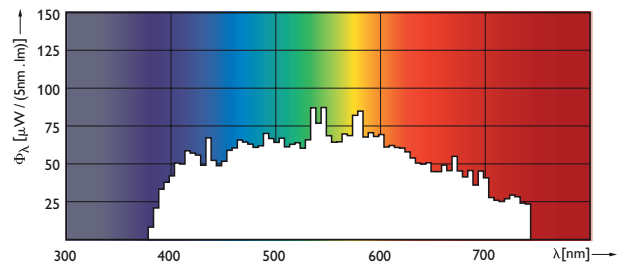
MSA 300



MSA 600



MSA 2500 DE



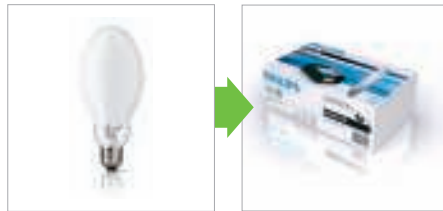
High Intensity Discharge Lamps

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

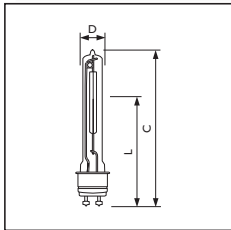
Energy savings	up to 40%
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For more uplamping possibilities, visit www.philips.co.uk/lighting



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

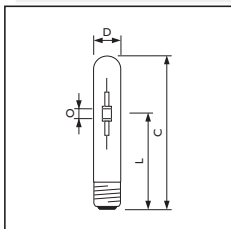
System

- 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(lm)	(h)							(£)	yes
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

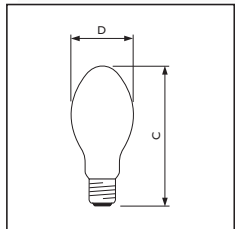
System

- 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 (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)	
50W/828	ES	4150	18000	any	1	1SL / 12	12	50CDOET828	8727900 800296 00	202.76	yes
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

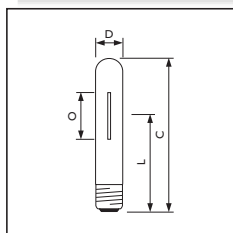
System

- 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 (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
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

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	257	48	158	64
6	283	48	175	83
7	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

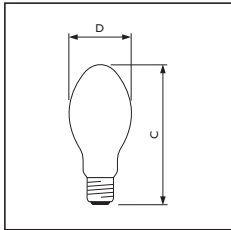
- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities Outdoor and Indoor
- Horticultural lighting

External Ignitor 230V Clear

Type	Wattage/ Colour Code	Cap- Base	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MASTER SON-T PIA Plus	50W/220	ES	4400	28000	any	1	1SL / 12	12	50SONTPLUS	192653 15	132.81	yes
MASTER SON-T PIA Plus	70W/220	ES	6600	28000	any	2	1SL / 12	12	70SONTPLUS	192660 15	132.81	yes
MASTER SON-T PIA Plus	100W/220	GES	10700	32000	any	3	1SL / 12	12	100SONTPLUS	192301 15	154.05	yes
MASTER SON-T PIA Plus	150W/220	GES	17500	32000	any	4	1SL / 12	12	150SONTPLUS	192295 15	161.78	yes
SON-T PIA PLUS	250W/220	GES	33200	32000	any	5	1SL / 12	12	250SONTPLUS	179876 15	221.18	yes
SON-T PIA PLUS	400W/220	GES	56500	32000	any	6	1SL / 12	12	400SONTPLUS	179883 15	284.41	yes
MASTER SON-T PIA Plus	600W/220	GES	90000	28000	any	7	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

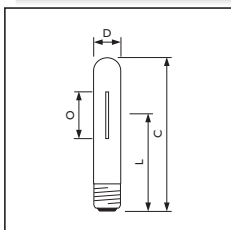
Application

- 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		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

- 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

Environment

- Good environmental choice because of high energy efficiency, long reliable life and mercury free

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		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

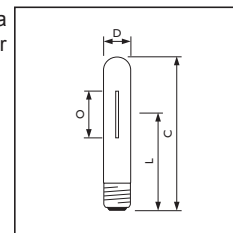
- High lumen maintenance safeguards a constant crop quality and quantity over life

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		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

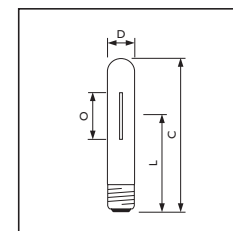
- SON-T Pro is a cost-efficient and reliable solution in High Pressure Sodium

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		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

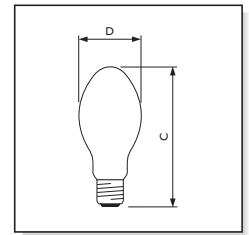
- This product is RoHS compliant
- This product is covered by WEEE

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	D
	max.	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		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

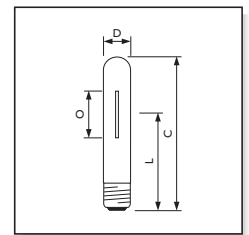
- The ideal balance between colour impression and energy efficacy

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	D	L	O
	max.	max.	nom.	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		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

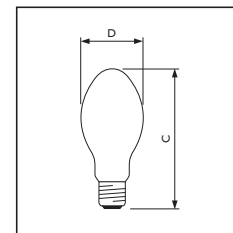
- The ideal balance between colour impression and energy efficacy

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		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

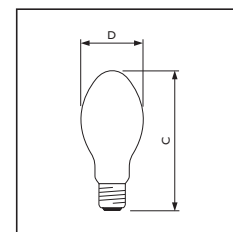
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Commercial and industrial applications



System

- Require an HPL ballast without ignitor

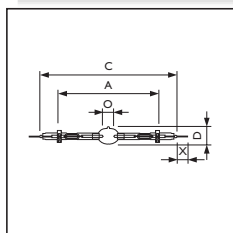
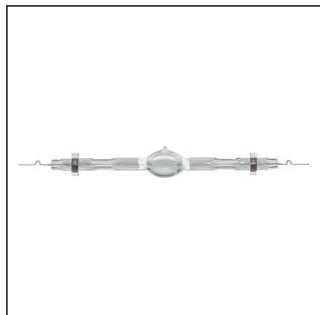


Dim. no.	C max.	D max.
1	164.4	71
2	162	71
3	227	91
4	290	122

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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
68W/220	ES	5000	28000	any	1	1SL / 24	24	68SONH	213990 30	104.25	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

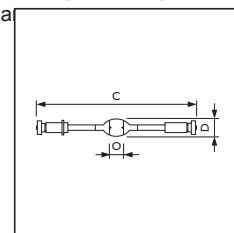
- This product is RoHS compliant
- This product is covered by WEEE

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 (V)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
1800W/956	X830R	230	155000	5000	p15	1	UNP / 1	1	1800MHNSA956R	201065 00	730.13	yes
1800W/956	(P)SFC	230	155000	5000	p15	2	UNP / 1	1	1800MHNSA956	200754 00	730.13	yes
1800W/956	(P)SFC	400	160000	5000	p15	2	UNP / 1	1	4151800MHNSA956	200761 00	730.13	yes
2000W/956	X830R	400	200000	5000	p15	1	UNP / 1	1	2000MHNSA956	200792 00	730.13	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

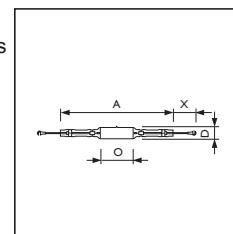
- This product is RoHS compliant.
- This product is covered by WEEE

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

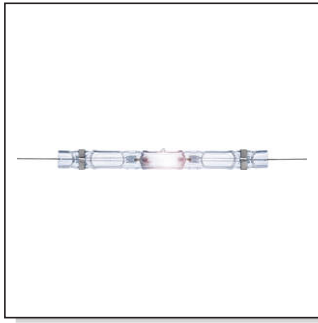


Dim. no.	A nom.	D max.	O nom.	X nom.
1	294	40	40.5	35
2	364	40	108	58

MASTER MHN-LA Clear

Wattage/Colour Code	Cap-Base	Voltage (V)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
1000W/842	X528	230	100000	10000	p5	1	UNP / 1	1	1000MHNLA842	200785 00	524.62	yes
1000W/956	X528	230	90000	10000	p5	1	UNP / 1	1	1000MHNLA956	200778 00	540.84	yes
2000W/842	X528	400	220000	12000	p5	2	UNP / 1	1	2000MHNLA842	200747 00	573.30	yes
2000W/956	X528	400	190000	12000	p5	2	UNP / 1	1	2000MHNLA956	200730 00	589.51	yes

MASTER MHN-FC



Product Description

- Compact quartz metal halide lamps with double pinch

Product Features

- Double-pin 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

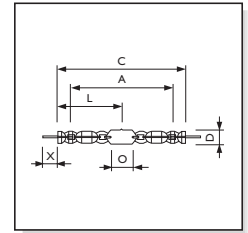
- This product is RoHS compliant
- This product is covered by WEEE

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 (V)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
1000W/740	230	93000	12000	p5	1	UNP / 1	1	MHNFC1000W740	214249 00	417.03	yes
2000W/740	400	210000	14000	p5	2	UNP / 1	1	2000MHNFC740	213495 00	455.78	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

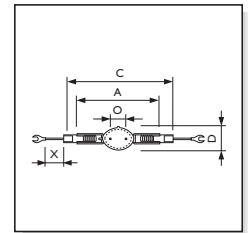
- This product is RoHS compliant
- This product is covered by WEEE

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 (lm)	Life to 50% failures (h)	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
2000W/956	Cable	200000	3000	p15	UNP / 1	1	2000MHNBS956	206732 00	730.13	yes

HPI-T



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

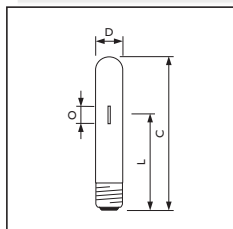
- This product is RoHS compliant
- This product is covered by WEEE

Application

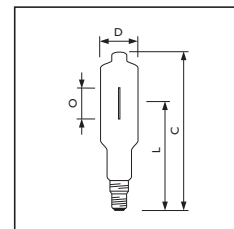
- Sports lighting, floodlighting of buildings and monuments, area lighting e.g. harbours and building sites

Luminaires

- HPI-T lamps require a protective front glass



Dim. no.	C max.	D max.	L nom.	O nom.
1	382	66	240	80



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		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



- 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

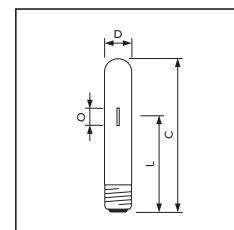
- Sports lighting, floodlighting of buildings and monuments, area lighting e.g. harbours and building sites, canopy lighting e.g. petrol stations, horticultural lighting

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

Product Description

- Quartz metal halide lamps with clear outer bulb

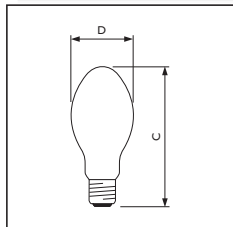
Product Features

- Clear tubular outer bulb

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		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, hypermarkets, shopping malls, DIY stores, churches, airports and train stations

Luminaires

- 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 (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
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

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

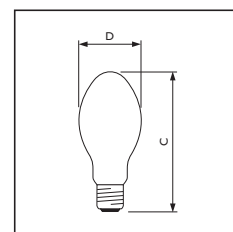
- Creates a comfortable atmosphere at limited investment
- High safety level thanks high light output

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		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	47.88	yes
80W/534	ES	Soft Glass	3600	16000	any	2	1SL / 24	24	80HPLCOM	180902 30	47.88	yes
125W/534	ES	Soft Glass	6200	16000	any	3	SLV / 24	24	125HPLCOM	180995 30	53.81	yes
250W/534	GES	Hard Glass	14200	16000	any	4	CRP / 12	12	250HPLCOM	181022 15	108.71	yes
400W/534	GES	Hard Glass	24200	20000	any	5	1SL / 6	6	400HPLCOM	181053 10	164.75	yes

HPL-N



Product Description

- Standard High Pressure Mercury lamp

Product Features

- 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 Benefits

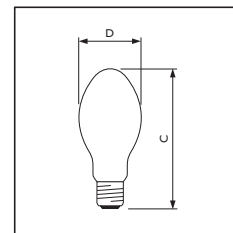
- Good budget alternative

Environment

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

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 (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
50W/542	ES	Soft Glass	1800	16000	any	1	SLV / 24	24	50HPLN	179913 30	46.99	yes
80W/542	ES	Soft Glass	3700	16000	any	2	1SL / 24	24	80ESHPLN	179975 30	46.99	yes
125W/542	ES	Soft Glass	6200	16000	any	3	SLV / 24	24	125ESHPLN	180124 30	53.15	yes
125W/542	GES	Hard Glass	6200	20000	any	4	SLV / 24	24	125GESHPLN	180308 30	57.87	yes
250W/542	GES	Hard Glass	12700	16000	any	5	1SL / 12	12	250HPLN	180605 15	107.60	yes
400W/542	GES	Hard Glass	22000	16000	any	6	1SL / 6	6	400HPLN	180452 10	165.55	yes
700W/542	GES	Hard Glass	38500	12000	any	7	1SL / 6	6	700HPLN	183910 10	303.30	yes
1000W/542	GES	Hard Glass	58500	12000	any	8	CRP / 6	6	1000HPLN	184030 10	395.40	yes

HPL-R



Product Description

- High pressure mercury lamp with internal reflector

Product Features

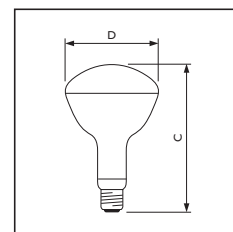
- Equipped with 1 or 2 auxiliary electrodes to ensure quick and reliable ignition
- Cone-shaped hard-glass bulb with an internal reflector directing the light to where it is needed

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 (lm)	Life to 50% failures (h)	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
250	12000	15000	any	CRP / 5	5	250HPLR	183941 26	394.18	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

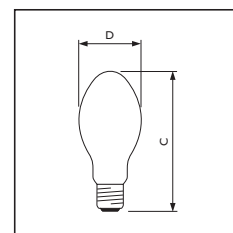
- This product is RoHS compliant
- This product is covered by WEEE

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



C max.	D max.
168	75

ML ES Soft Glass 235-245V Coated

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
160	3000	8000	vbu/vbd30	SLV / 24	24	160ESMLL	181473 30	124.71	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

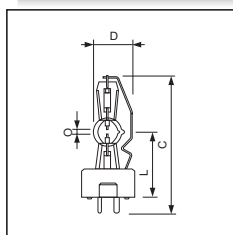
System

- Should preferably be operated on power-stabilised electronic ballasts, although magnetic ballasts can also be used

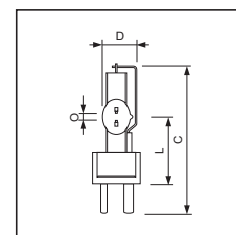


Philips Pinch Protection technology

- **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		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	842.32	yes
MSR 700 SA	700	GY9.5	55000	any	2	1CT / 4	4	MSR700SA	199492 45	979.58	yes
MSR 1200 SA	1200	GY22	96000	any	3	1CT / 4	4	MSR1200SA	200211 45	1,291.55	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

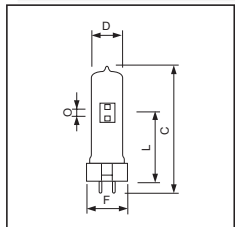
Luminaires

- Must only be operated in closed luminaires, because of the high internal working pressure

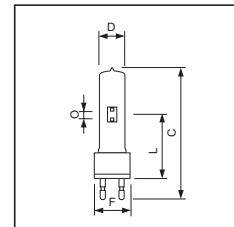
- Luminaires must block the emitted UV radiation, with no radiation spill through ventilation slots

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.	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 (lm)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MSR 400	400	GX9.5	32000	any	1	1CT / 4	4	MSR400	190277 45	780.28	yes
MSR 575/2 10H	575W/2	GX9.5	49000	any	2	1CT / 4	4	MSR5752	198990 45	796.18	yes
MSR 700/2	700W/2	G22	55000	any	3	1CT / 4	4	MSR7002	200297 45	945.00	yes
MSR 1200/2	1200W/2	G22	110000	any	4	1CT / 4	4	MSR12002	200273 45	1, 114.04	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

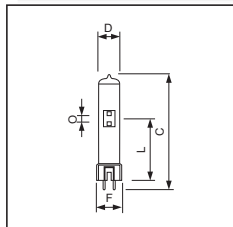
Luminaires

- 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

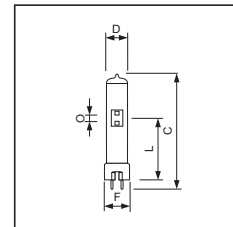


Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
1	77	17	23.5	39	4.0

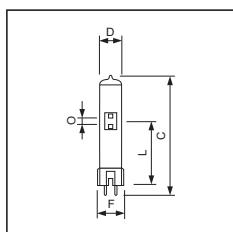


Philips Pinch Protection technology

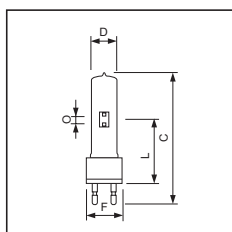
- **Reliability**, through longer lifetime and fewer early failures,
- **Quality**, through excellent storage characteristics and consistent performance over time,
- **Compactness**, allowing more compact design of fixtures and burning positions,



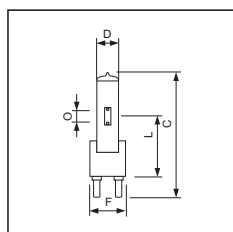
Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
2	80	20	23.5	39	5.0
3	110	23	23.5	59	5.0



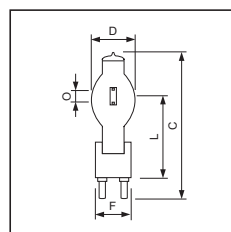
Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
4	110	23	23.5	60	6.0



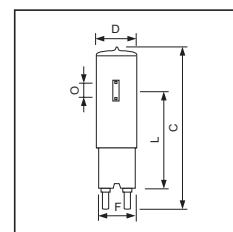
Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
5	145	30	42	70	7.0



Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
6	200	40	65	107	10.0





Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
7	240	60	65	127	14.0
8	255	77	65	142	20.0

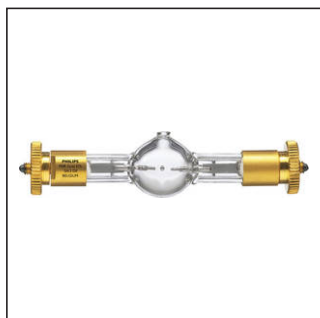


Dim. no.	C max.	D max.	F nom.	L nom.	O nom.
9	378	74	62	210	24.0

Hot Restrike

Type	Wattage/ Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MSR 125 HR	125	GZX9.5	9400	any	1	1CT / 4	4	MSR125HR	194961 45	762.85	yes
MSR 200 HR	200	GZY9.5	15000	any	2	1CT / 4	4	MSR200HR	192370 45	835.77	yes
MSR 250 HR	250	GZY9.5	20000	any	3	1CT / 4	4	MSR250HR	209788 45	962.32	yes
MSR 400 HR	400	GZZ9.5	32000	any	4	1CT / 4	4	MSR400HR	194244 45	914.10	yes
MSR 575 HR	575	G22	49000	any	5	1CT / 4	4	MSR575HR	190246 45	945.00	yes
MSR 1200 HR	1200	G38	110000	any	6	1CT / 4	4	MSR1200HR	191861 45	1,157.38	yes
MSR 2500 HR	2500	G38	240000	any	7	1CT / 4	4	MSR2500HR	191892 45	1,842.30	yes
MSR 4000 HR	4000	G38	380000	any	8	UNP / 1	1	MSR4000HR	194664 00	2,589.55	yes
MSR 6000 HR	6000	GY38	570000	any	9	UNP / 1	1	MSR6000HR	200938 00	8,078.44	yes

MSR Gold™ SA Double Ended



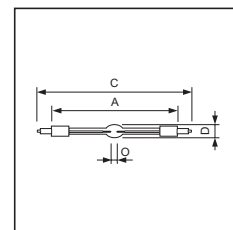
Product Features

- 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





A nom.	C max.	D max.	O nom.
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 (lm)	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
MSR Gold™ 1510 SA/DE	1500	140000	any	1CT / 4	4	MSR1510SADE	213365 45	1,589.84	yes

MSR Gold™ FastFit



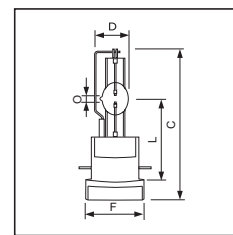
Product Description

- 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

- 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





C	D	F	L	O
max.	max.	nom.	nom.	nom.
112	23.2	41	65	3.8

Product Benefits

- Lamp replacement in just seconds, exchangeable with halogen lamp

FastFit PGJX50

Type	Wattage/ Colour Code	Lamp Luminous Flux EM (lm)	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)	
MSR Gold™ 700/2 FastFit	700W/2	50000	any	1CT / 4	4	MSR700/2FASTFIT	300680 45	269.64	yes
MSR Gold™ 700 FastFit	700	50000	any	1CT / 4	4	MSR700FASTFIT	300666 45	265.65	yes

MSR Gold™ MiniFastFit



Product Description

- FastFit is also available in MSD Gold™, Ceramic ST and Halogen.

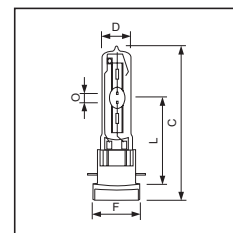
Product Features

- Philips MiniFastFit
- Compact design
- Innovative gold plated pins
- Color temperature >8000K
- Very short arc

- 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

Product Benefits

- Lamp replacement in just seconds

MiniFastFit PGJX28

Type	Wattage/ Colour Code	Lamp Luminous Flux EM (lm)	Burning Position	Packing type/Packing configuration		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	265.65	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

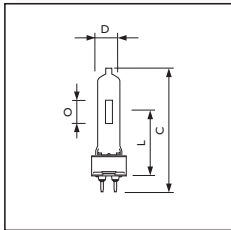
- Optimal light collection
- Low cost of ownership
- Brightness on stage

Application

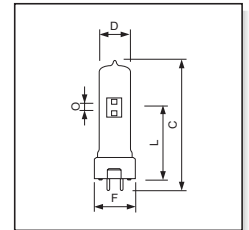
- Studio and disco lighting

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	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(lm)							(£)	yes
150W/2	G12	10500	any	1	1CT / 4	4	MSD150/2	213730 45	239.09	yes
200W/670	GY9.5	13500	any	2	1CT / 4	4	MSD2002	197467 45	788.53	yes
200	GY9.5	13500	any	2	1CT / 4	4	MSD200	193223 45	788.53	yes
250	GY9.5	18000	any	2	1CT / 4	4	MSD250	199775 45	788.53	yes
250W/850	GY9.5	18000	any	2	1CT / 4	4	MSD2502	199850 45	831.11	yes

Architectural MSD



Product Features

- Long lifetime
- Compact arc
- Excellent colour characteristics
- Universal burning position

Product Benefits

- High lumen output
- Low cost of ownership
- Excellent colors

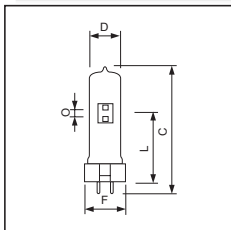
Application

- Display lighting
- Architectural lighting
- Studio and disco lighting
- Fibre-optic lighting

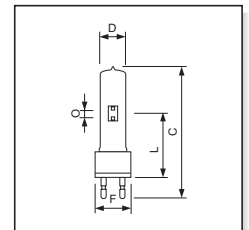
Luminaires

- 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.
1	125	30	35	65	8



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	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
		(lm)							(£)	yes
575	GX9.5	43000	any	1	1CT / 4	4	MSD575	199799 45	1,191.52	yes
700	G22	50500	any	2	1CT / 4	4	MSD700	195258 45	1,055.03	yes
1200	G22	92000	any	3	1CT / 4	4	MSD1200	200358 45	1,194.11	yes

MSI Entertainment MSI (Touring/Stage)



Product Features

- Excellent Colours Characteristics
- High Luminous efficacy

Product Benefits

- Matching colours on the set
- High Light Levels

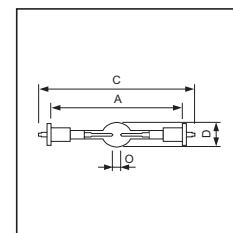
Application

- 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 max.	C max.	D max.	O 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
575	SFC10-4	49000	any	1	UNP / 1	1	MSI575	199430 00	577.40	yes
575	SFC10-4	47000	p15	2	1CT / 10	10	MSI575/2	435774 25	802.37	yes
1200	SFC15.5-6	110000	any	3	UNP / 1	1	MSI1200	199447 00	577.40	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

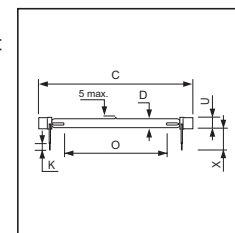
- Strobe lights in discos

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 max.	D max.	O nom.	U nom.	X nom.
1	241	12	158	14.7	115
2	395	12	312	14.7	115
3	540	12	457	14.7	115

Product Description

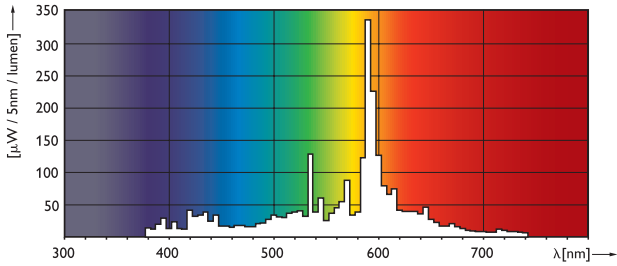
- Linear lamps equipped with special cable connections

XOP Ceramic 15.8x14.7mm

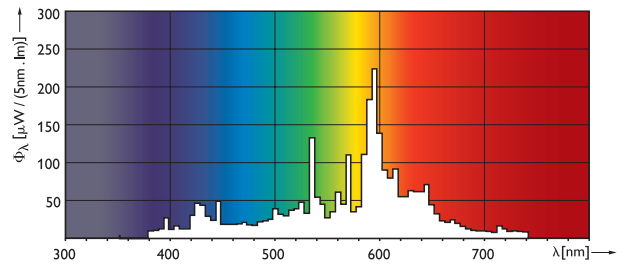
Wattage/Colour Code	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
650	any	1	1CT / 4	4	XOP7	191397 45	149.68	yes
1000	any	2	1CT / 6	6	XOP15	189424 10	187.11	yes
1100	any	3	1CT / 6	6	XOP25	190185 10	203.49	yes

Spectral Distribution

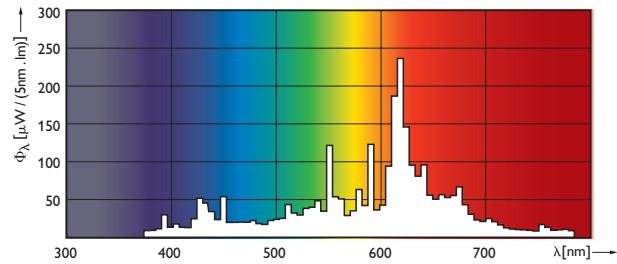
MASTER CosmoWhite CPO-TW 45W



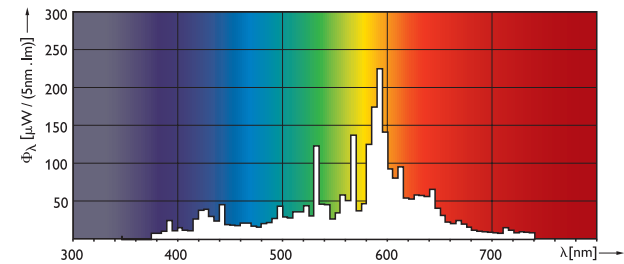
MASTER CosmoWhite CPO-TW 60W



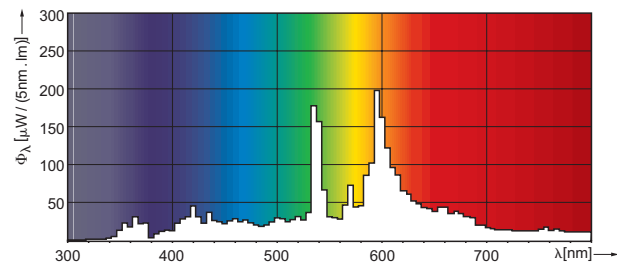
MASTER CosmoWhite CPO-TW 90W



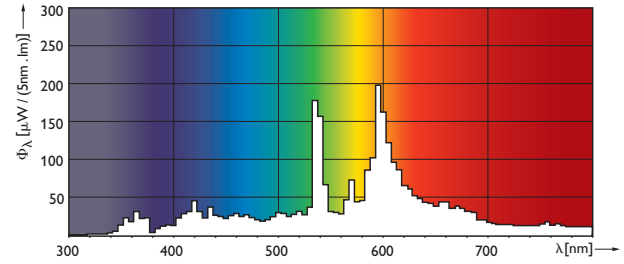
MASTER CosmoWhite CPO-TW 140W



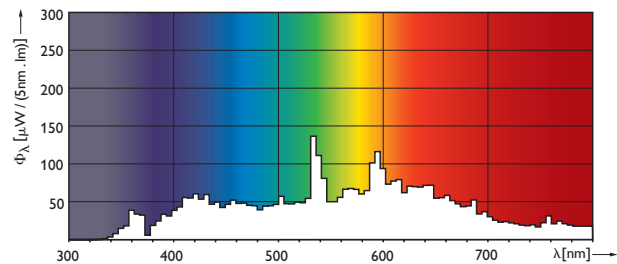
MASTER CityWhite CDO-ET & CDO-TT /828



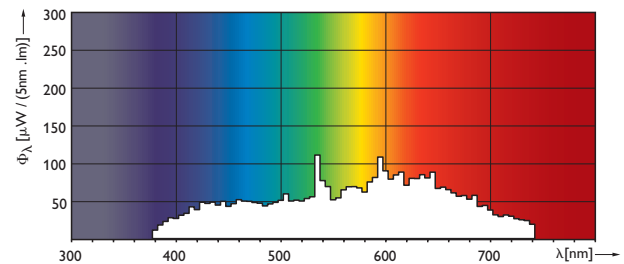
MASTERColour CDM-ET & CDM-TT /830



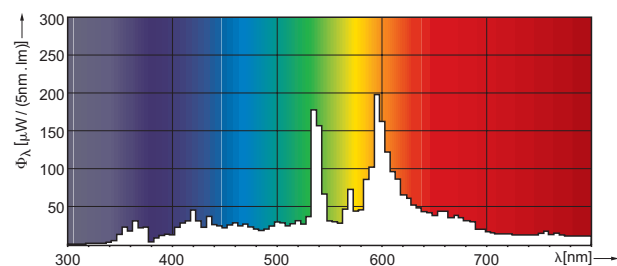
MASTERColour CDM-TT 70W /942



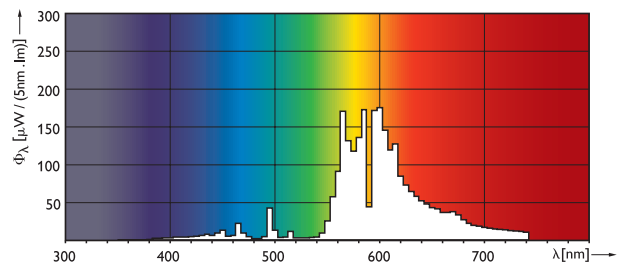
MASTERColour CDM-TT 150W /942



BeneKit

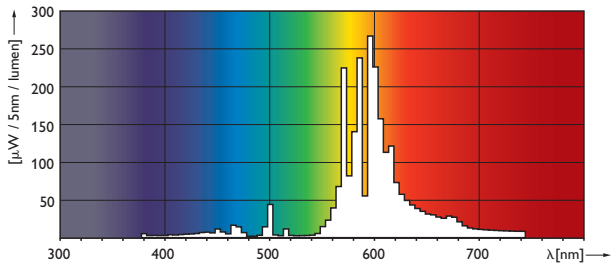


MASTER GreenPower-TD 1000W

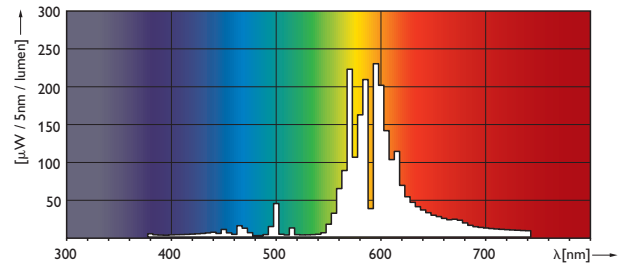


High Intensity Discharge Lamps

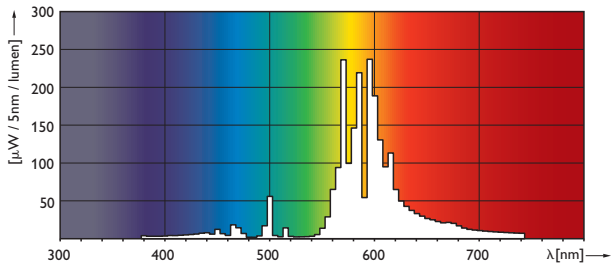
MASTER SON-T PIA Plus 50W & 70W



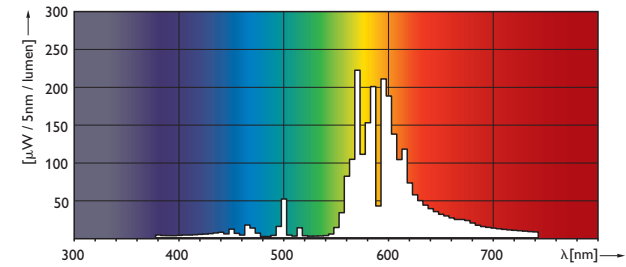
MASTER SON-T PIA Plus 100W, 150W & 250W



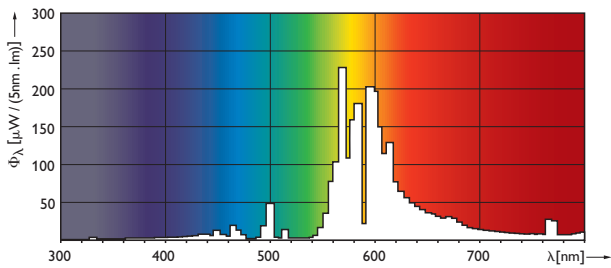
MASTER SON-T PIA Plus 400W



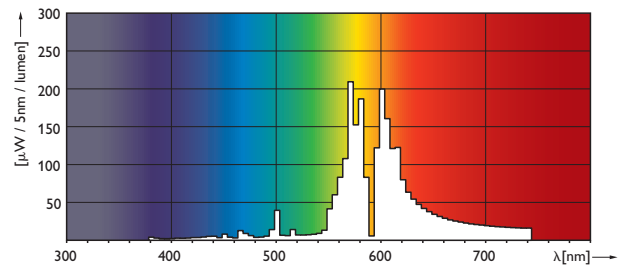
MASTER SON-T PIA Plus 600W



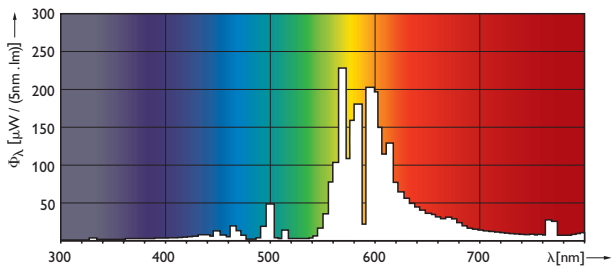
MASTER SON PIA Plus



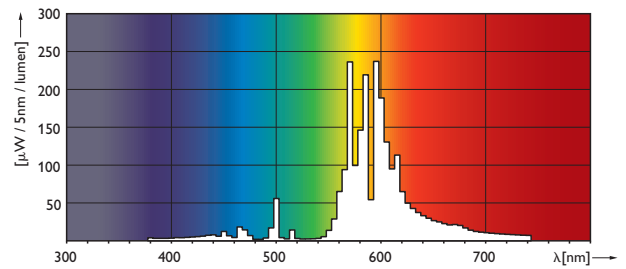
MASTER SON-T PIA Hg-Free



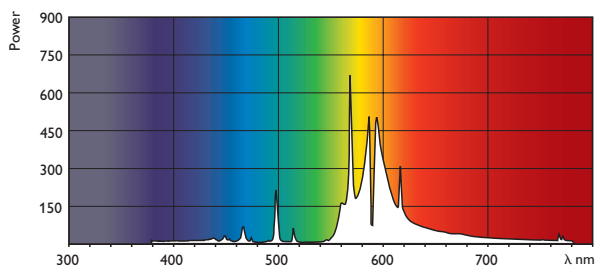
MASTER SON PIA (Hg-Free)



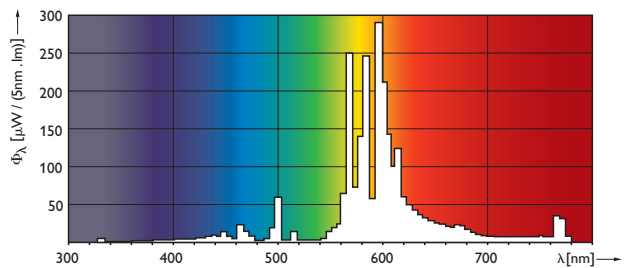
MASTER Agro 400W



MASTER Green Power 600W

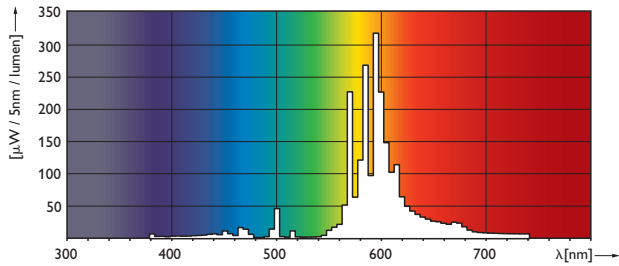


SON-T

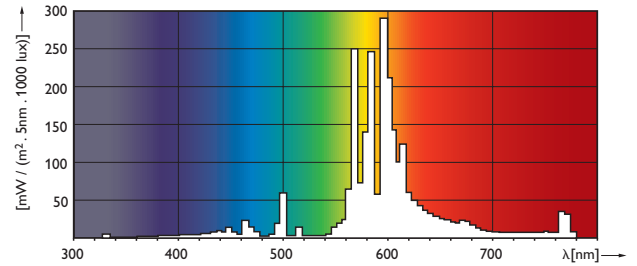


High Intensity Discharge Lamps

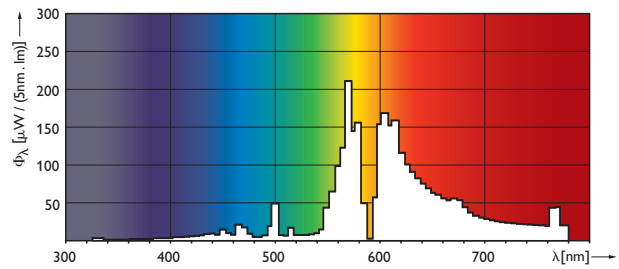
SON I 50W & 70W



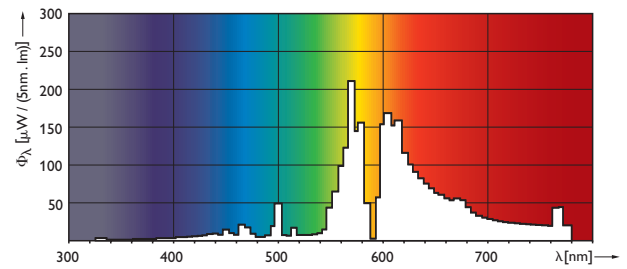
SON



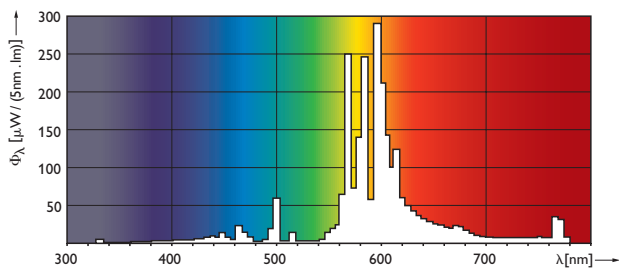
SON-T Comfort



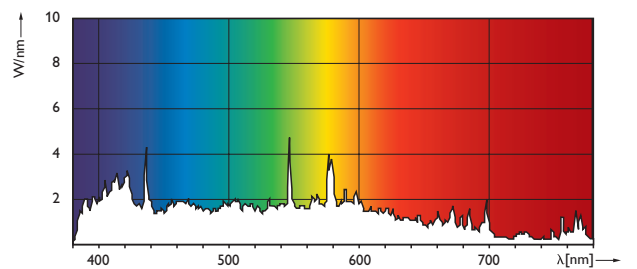
SON Comfort



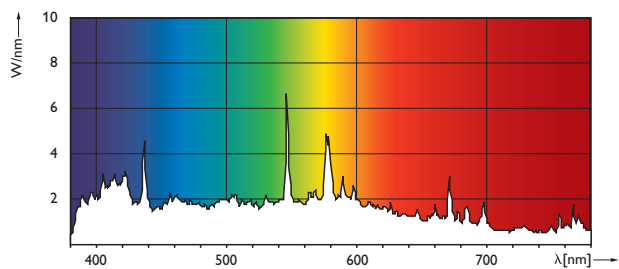
SON-H



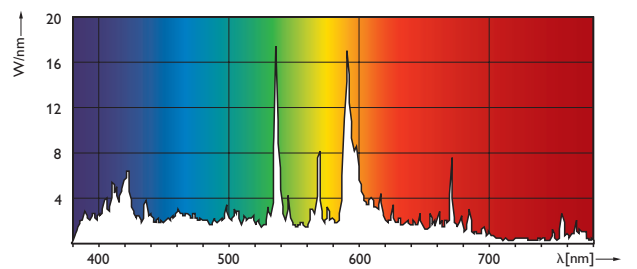
MASTER MHN-SA 1800W 230V



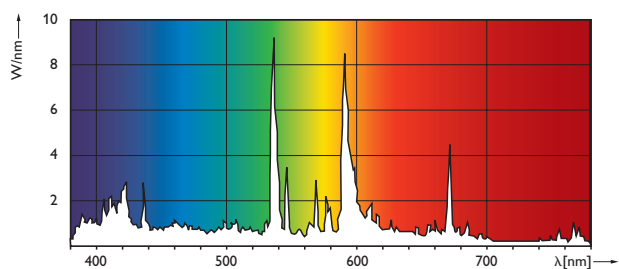
MASTER MHN-SA 1800W 400V /956



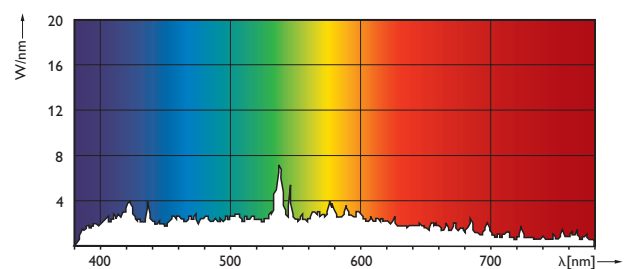
MASTER MHN-SA 2000W /956



MASTER MHN-LA 1000W /842

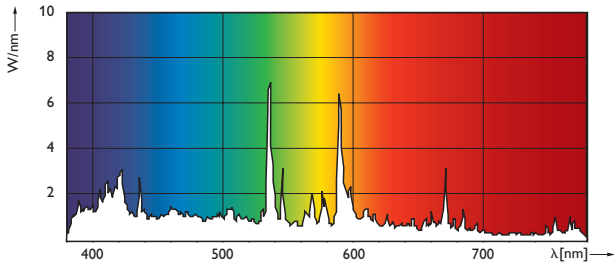


MASTER MHN-LA 2000W /842

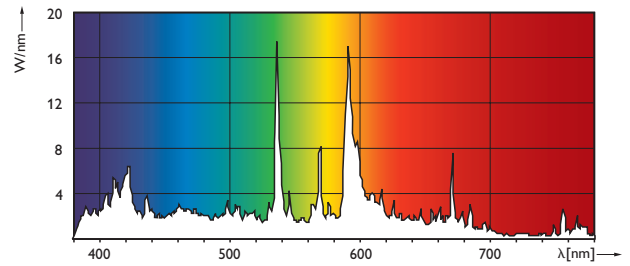


High Intensity Discharge Lamps

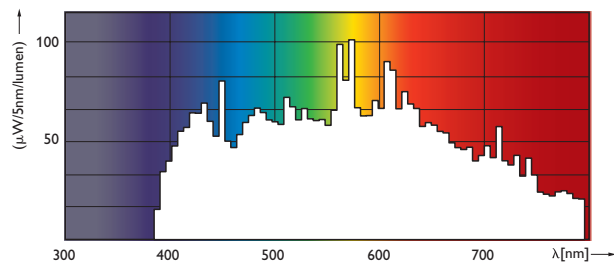
MASTER MHN-LA 1000W /956



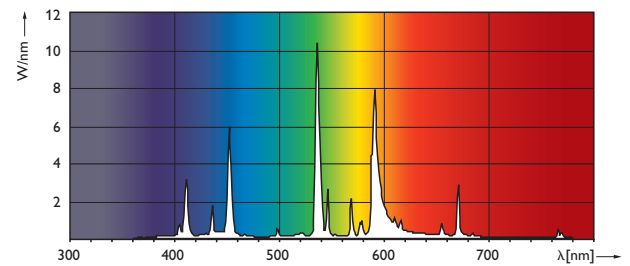
MASTER MHN-LA 2000W /956



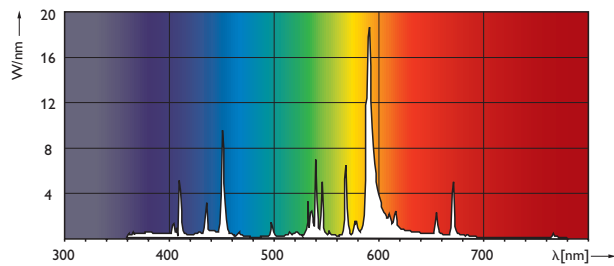
MASTER MHN-SE 2000W /956



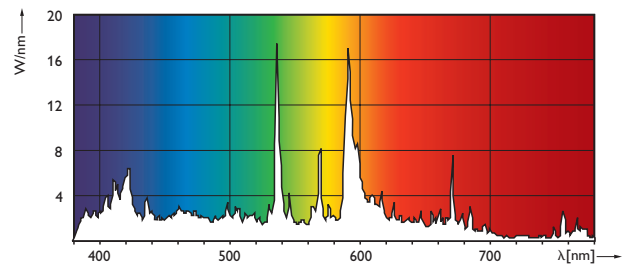
MASTER MHN-FC 1000W /740



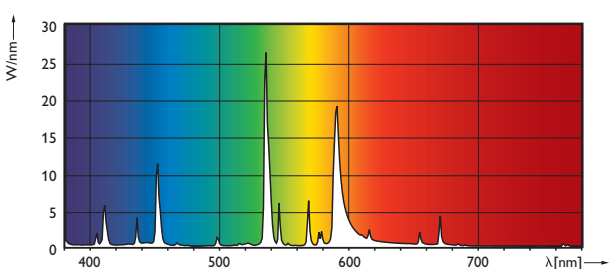
MASTER MHN-FC 2000W /740



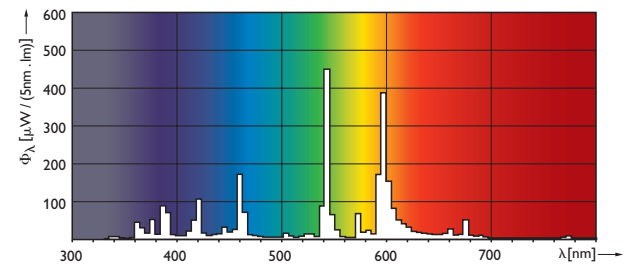
MHN-SB 2000W /956



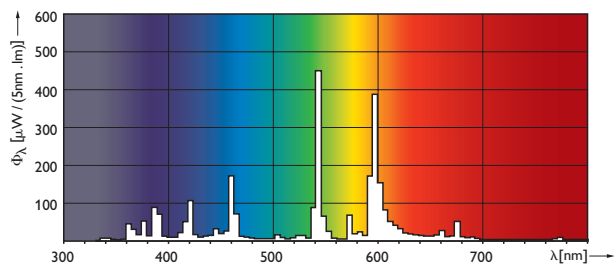
HPI-T 1000W & 2000W



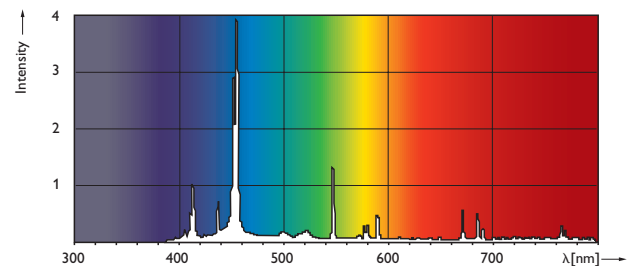
MASTER HPI-T Plus



MASTER HPI Plus

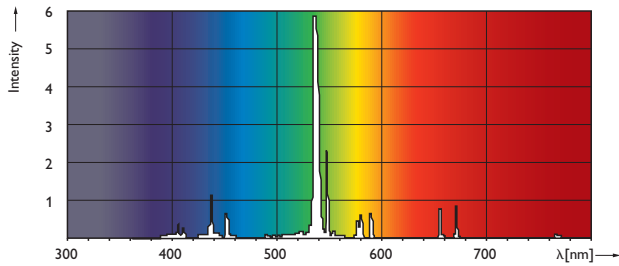


Artcolour MH-T Blue

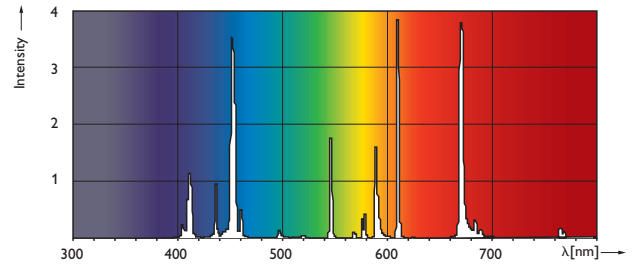


High Intensity Discharge Lamps

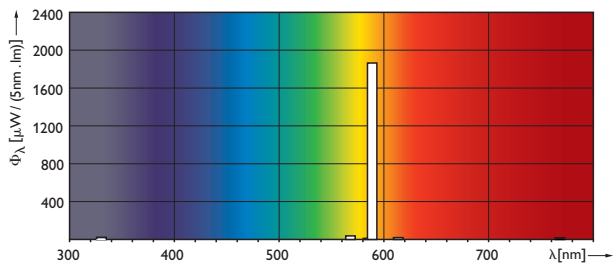
Artcolour MH-T Green



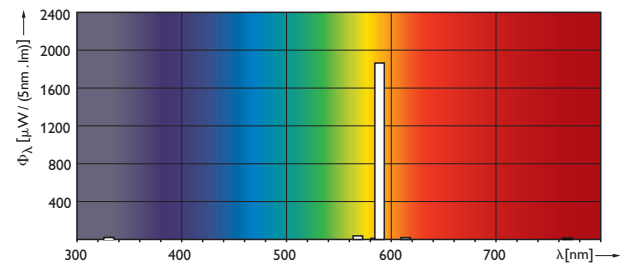
Artcolour MH-T Violet



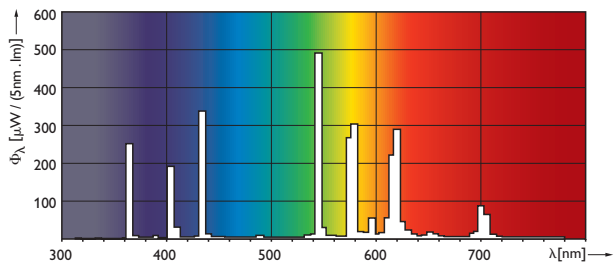
MASTER SOX-E 36W



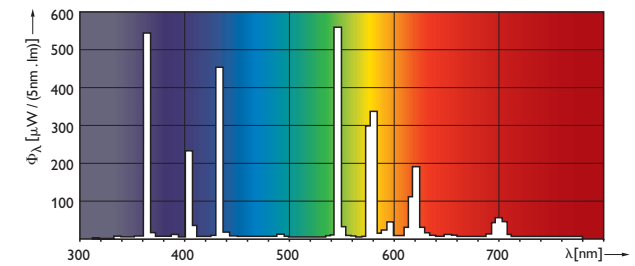
SOX 55W



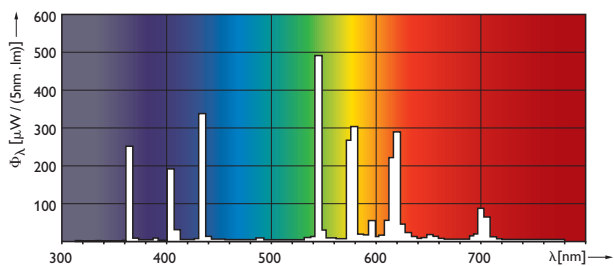
HPL 4 /634



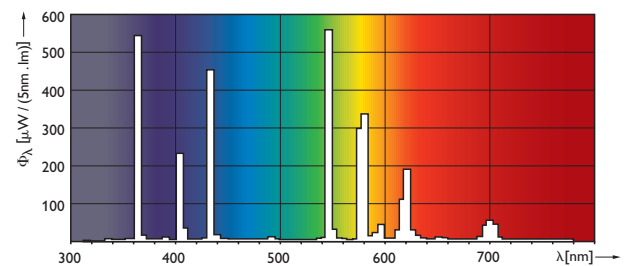
HPL 4 /642



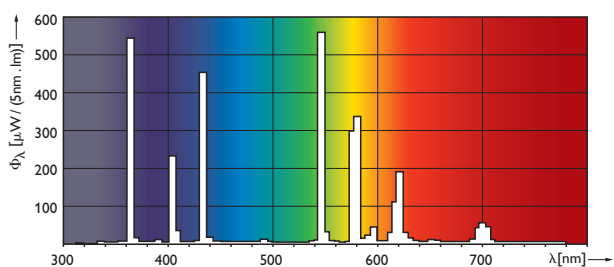
HPL Comfort



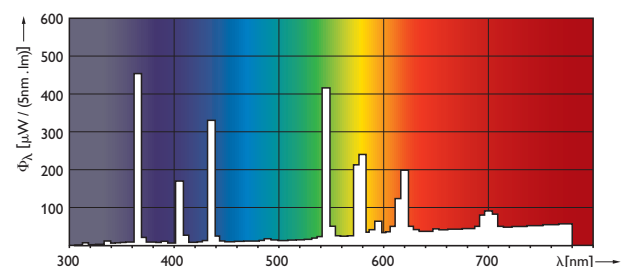
HPL-N



HPL-R

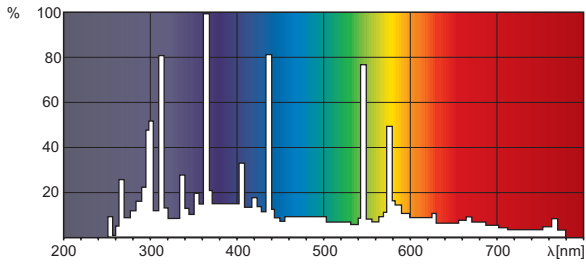


ML

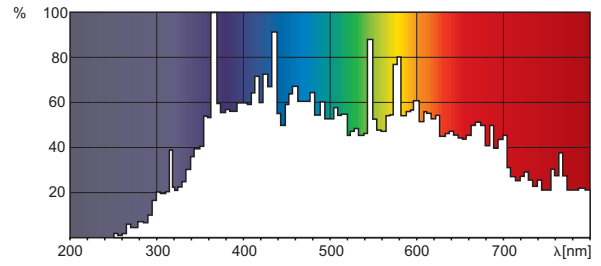


High Intensity Discharge Lamps

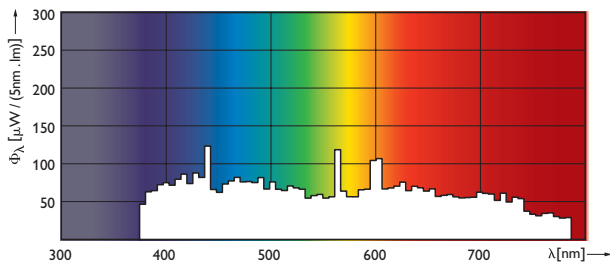
MSR Short Arc



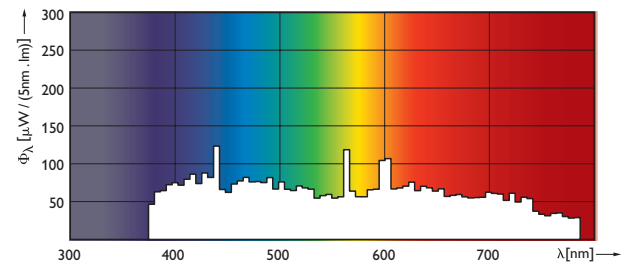
MSR Cold Strike 400, 575 /2, 700 /2 & 1200 /2



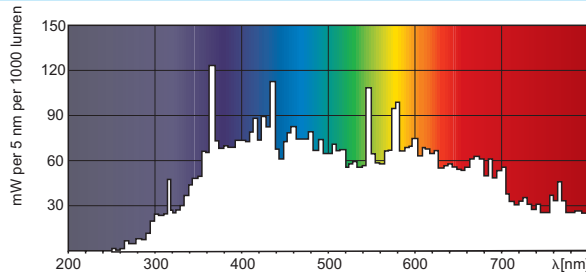
MSR Cold Strike 700



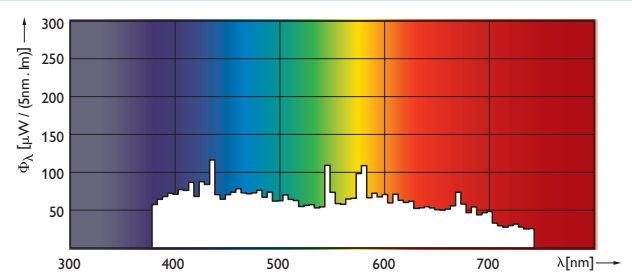
MSR Cold Strike 700



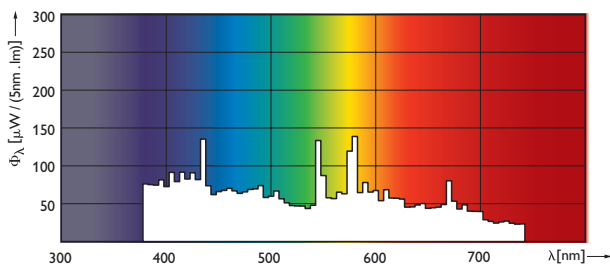
MSR HR & MSR HR/F 6000



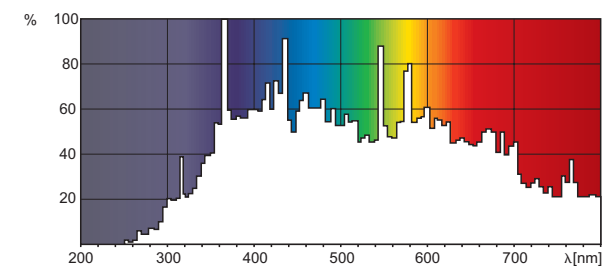
MSR HR/J 2500



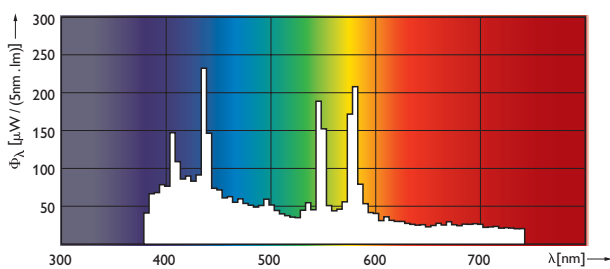
MSR HR/J 4000



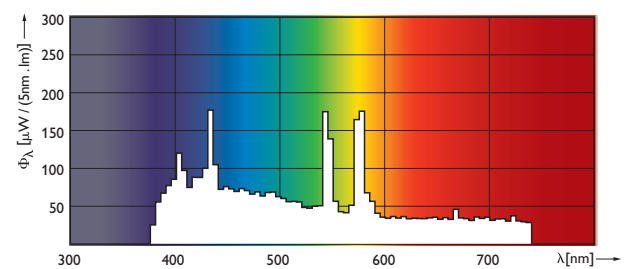
MSR HR P



MSR 400 SA/2 DE

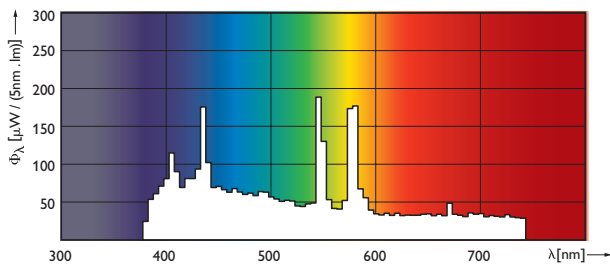


MSR 575 SA/2 DE

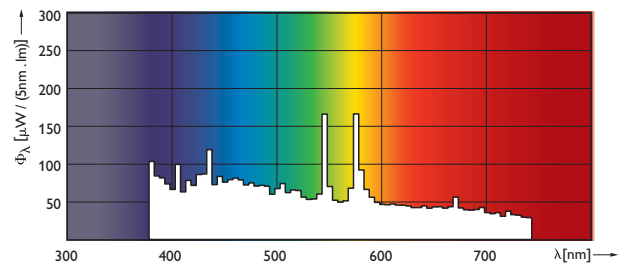


High Intensity Discharge Lamps

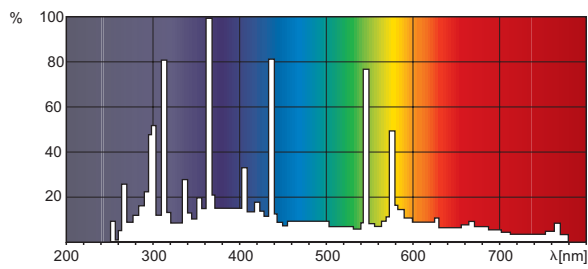
MSR 700 SA/2 DE



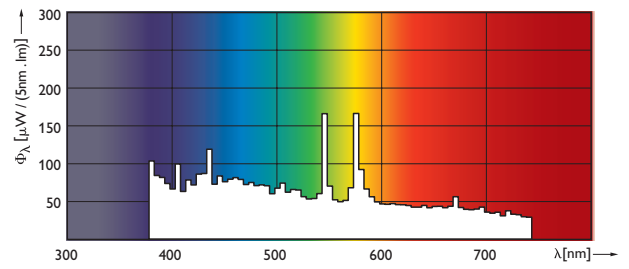
MSR 1200 SA/2 DE



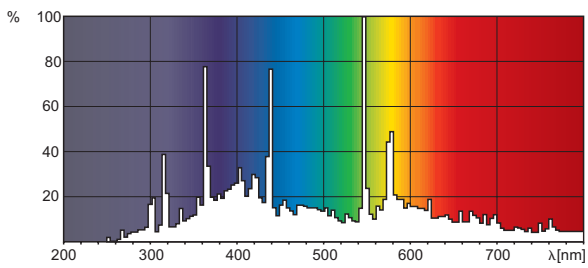
MSR Short Arc DE



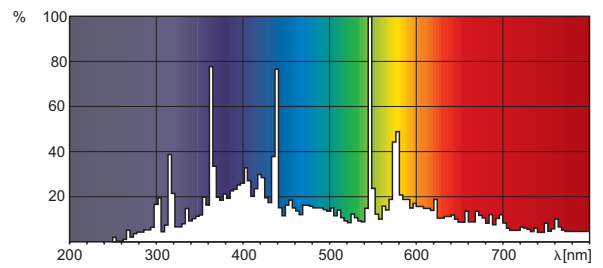
MSR 1200 SA/2 DE



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.co.uk/lighting



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

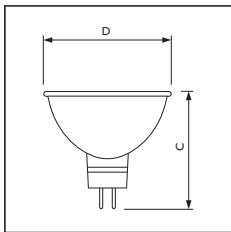
- This product is a Philips Green Flagship

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



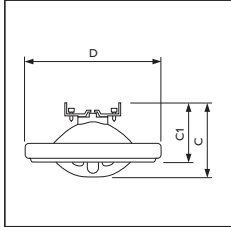
C	C1	D
max.	max.	max.
50.5	50.5	51

MASTERLine ES GU5.3 12V

Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		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

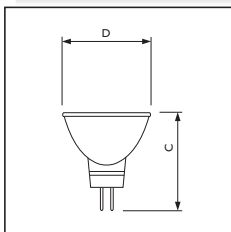
Application

- 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)	(°)	(cd [max.])	(h)				(£)
30	8	23000	4000	1CT / 6	6	30ML1118D	411013 10 32.81
30	24	4000	4000	1CT / 6	6	30ML11124D	411037 10 32.81
45	8	33000	4000	1CT / 6	6	45ML1118D	411051 10 32.81
45	24	5300	4000	1CT / 6	6	45ML11124D	411075 10 32.81
45	45	1900	4000	1CT / 6	6	45ML11145D	411099 10 32.81
60	8	48000	4000	1CT / 6	6	60ML1118D	411112 10 32.81
60	24	8500	4000	1CT / 6	6	60ML11124D	411150 10 32.81
60	45	2800	4000	1CT / 6	6	60ML11145D	411136 10 32.81

Brilliantline Dichroic



Dim. no.	C max.	D 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

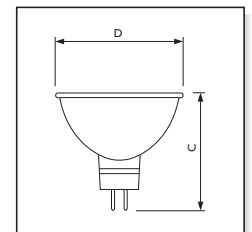
- Cool beam as a large part of the heat generated is transmitted backwards through the back glass

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 max.	D max.
2	46	50

Brilliantline Dichroic 12V Clear

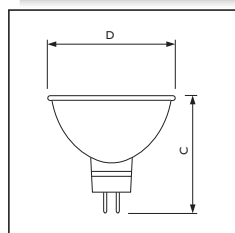
Bulb	Lamp Wattage	Cap-Base	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)		(°)	(cd [max.])	(h)				(£)
MR11	20	GU4	10	4800	4000	1	1CT / 10X5F	50 42537960	425379 60 24.41
MR11	20	GU4	30	690	4000	1	1CT / 10X5F	50 42540960	425409 60 24.41
MR16	20	GU5.3	10	5000	4000	2	1CT / 10X5F	50 42454960	424549 60 24.41

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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)		(°)	(cd [max.])	(h)						(£)
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
- Minimalising risk of dark dust rings on the ceiling around the luminaire otherwise occurring because the ceiling starts to breath (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. glas 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		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

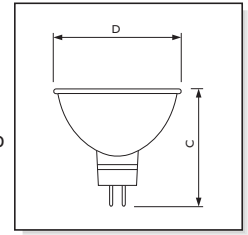
- Cool day light appearance of beam with a clearly defined beam spread
- Enhanced attractiveness of especially jewelry making diamonds and crystal sparkle and bringing a natural shine to silver and porcelain

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		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	32.56
35	4100	24	1700	4000	1CT / 10X5F	50	14658	428844 60	32.56
35	4100	36	1000	4000	1CT / 10X5F	50	14659	428875 60	32.56
50	4100	10	6400	4000	1CT / 10X5F	50	14668	428905 60	32.56
50	4100	24	2700	4000	1CT / 10X5F	50	14670	428936 60	32.56
50	4100	36	1200	4000	1CT / 10X5F	50	14671	428967 60	32.56

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

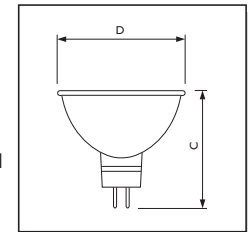
- Good light quality, cool beam halogen light and a professional lifetime

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
	max.	max.
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		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

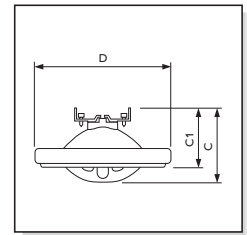
- Glare free, well defined accent lighting with minimum amount of direct glare from the lamp

Application

- Excellent light source for general lighting and especially creative accent lighting in shops, restaurants, 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	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)	(°)	(h)				(£)
50	8	23000	1CT / 6X1F	50ALU1118D	426529 33	27.71
50	24	4000	1CT / 6	50ALU11124D	426550 33	27.71
75	8	30000	1CT / 6	75ALU1118D	426987 33	27.71
75	24	5300	1CT / 6	75ALU11124D	427007 33	27.71
75	45	1900	1CT / 6	75ALU11145D	427021 33	27.71
100	8	48000	1CT / 6X1F	100ALU1118D	427045 33	27.71
100	24	8500	1CT / 6X1F	100ALU11124D	427069 33	27.71
100	45	2800	1CT / 6X1F	100ALU11145D	427083 33	27.71

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

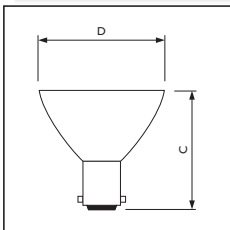
- High-intensity beam with an extremely clearly defined beam spread (clear glass versions only)
- Excellent colour rendering

Product Benefits

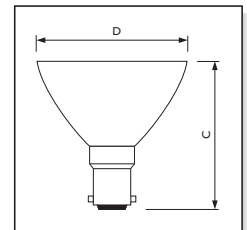
- Excellent accent lighting effects due to reduced spill light (clear versions only)

Application

- Excellent light source for accent and general lighting in shops, home, restaurants, galleries, exhibitions and museums



Dim. no.	C max.	D max.
1	41	38



Dim. no.	C max.	D max.
2	60	58

Aluline Clear

Bulb	Lamp Wattage	Cap-Base	Voltage	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)		(V)	(cd [max.])	(h)					(£)
R37	15	BA15d	6	5200	2000	1	1CT / 10X5F	6424	401915 60	35.12
R56	15	SBC	6	11000	2000	2	1CT / 10X5F	6425	401922 60	35.12
R37	20	BA15d	12	6400	2000	1	1CT / 10X5F	6433	401946 60	35.12
R37	20	BA15d	12	1500	2000	1	1CT / 10X5F	6434	401953 60	35.12
R56	35	SBC	6	18000	2000	2	1CT / 10X5F	6429	401977 60	35.12
R56	35	SBC	6	4400	2000	2	1CT / 10X5F	6430	401984 60	35.12
R56	50	SBC	12	12000	2000	2	1CT / 10X5F	6438	402004 60	35.12

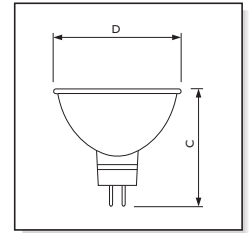
Halogen 12V Dichroic 2 Year



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	51.5	50.7
2	46	50

Halogen Dichroic 2yr GU5.3 12V

Lamp Wattage	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number	Nett Trade Price per Piece	
(W)	(°)	(h)					(£)	
35	36	800	1	1CT / 10X5F	50	272ECON	8727900 252439 60	25.39
35	36	1000	2	1CT / 10X5F	50	6656ECON	8711500 413093 60	25.39
50	36	1200	1	1CT / 10X5F	50	258ECON	8727900 252446 60	25.39

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

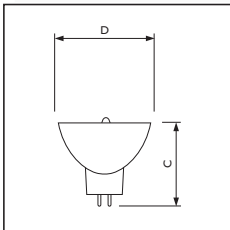
- Halogen burner is precisely aligned using an optical system, so no realignment is needed when the lamp is replaced

Product Benefits

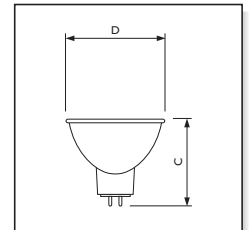
- Negligible depreciation in light output during lifetime
- High efficacy gives low energy consumption

Application

- Microfiche readers and projectors, microfiche 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	National Order Code	Ordering number	Nett Trade Price per Piece	
	(W)		(V)	(h)				8711500...	(£)	
13528	15	GZ4	6	750	1	1CT / 10X5F	50	13528	409782 60	38.55
13155	30	GX5.3	13.8	500	2	1CT / 10X5F	50	FJX	410306 60	46.35
13189	50	GX5.3	13.8	1000	2	1CT / 10X5F	50	EPZDJT	409775 60	46.35
13194	85	GX5.3	13.8	1000	2	1CT / 10X5F	50	DED	409720 60	46.35
13186	90	GX5.3	14.5	500	2	1CT / 10X5F	50	EPXEPV	409805 60	46.35
13158	150	GX5.3	21	40	3	1CT / 24	24	ELDEJN	410603 30	46.35
14501	150	GX5.3	20	500	3	1CT / 24	24	DDL	410610 30	46.35

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

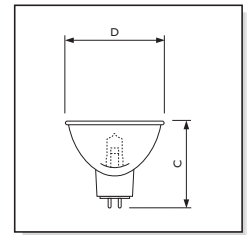
Product Benefits

- 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 D	
	max.	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		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	48.82	
13139	75	GZ6.35	12	25	1	1CT / 10X5F	50	13139	409799 60	47.82	
13117	150	GX5.3	17	1000	2	1CT / 10X5F	50	13117	409935 60	109.61	
5995	150	GX5.3	21	40	3	1CT / 24	24	EJM	410634 30	46.81	
6423	150	GZ6.35	15	50	4	1CT / 10X5F	50	6423	427335 60	35.10	
13164	200	GX5.3	24	50	3	1CT / 24	24	A1252	410580 30	46.64	
13095	250	GY5.3	120	175	3	1CT / 24	24	ENH	410627 30	29.49	
13163	250	GX5.3	24	35	5	1CT / 10X5F	50	A1259	409751 60	49.16	
13163	250	GX5.3	24	500	6	1CT / 24	24	ELC5	413475 30	44.59	yes
13096	300	GY5.3	120	35	7	1CT / 24	24	ELH	410573 30	49.90	
13824	360	GY5.3	82	70	3	1CT / 24	24	ENX	410641 30	52.96	

Fibre Optics



Product Description

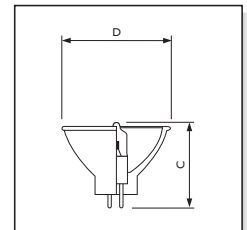
- Quartz halogen lamps with integral reflector

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 D	
max.	max.
42	50

GZ6.35

Type	Rated Lamp Wattage	Voltage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		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	28.18
6834/25H FO	100	12	420	2500	1CT / 10X5F	50	A1231/25H	404428 60	84.81
6834FO	100	12		50	1CT / 10X5F	50	A1231	409737 60	28.18
6423XHP FO	150	15		50	1CT / 10X5F	50	A1232X	411822 60	33.11

Dental Hardening



Product Description

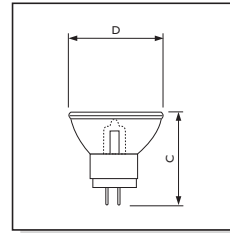
- Low-voltage bi-pin quartz halogen lamps with a choice of base types

Product Features

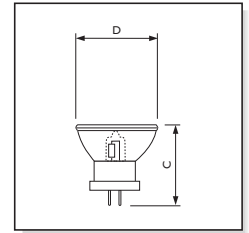
- Optimised for maximum output in the 400 - 500 nm wavelength range, to which dental filling materials are sensitive
- Choice of dichroic or blue reflector coatings
- Lamps with blue reflector coating reflect less unwanted visible light (> 700 nm)

Application


- Curing of dental fillings



Dim. no.	C max.	D max.
1	42	35



Dim. no.	C max.	D max.
2	37	25

Type	Rated Lamp Wattage (W)	Cap-Base	Voltage (V)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
13165	35	GZ4	14	50	1	1CT / 10X5F	50	13165	409768 60	43.85
13865	75	G5.3	12	50	2	1CT / 10X5F	50	13865	410719 60	35.42

Halogen Low Voltage



Product Features

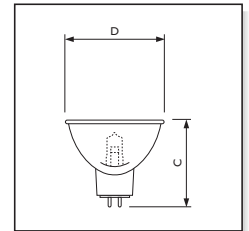
- Colour temperature: 3100 K
- Very compact filament enabling high efficiency
- Optimum between light and life
- Even light distribution over the entire beam
- Universal burning position

Product Benefits



- Suitable for low-cost luminaires

Application

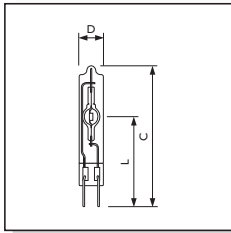
- Discos
- Moving beam luminaires



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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
13289	GX5.3	13.8	1000	1	1CT / 10X5F	50	13289	410337 60	46.35	
6834/8H	GZ6.35	12	800	2	1CT / 10X5F	50	6834/8H	436832 60	89.90	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

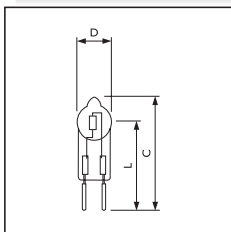
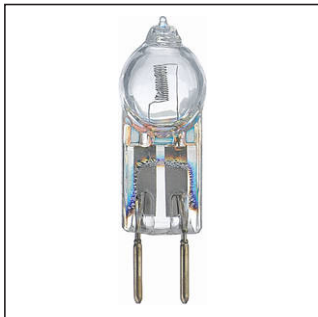
Luminaires

- 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)	(lm)	(h)					(£)
45	1100	5000	1CT / 12	12	14726	438973 15	19.53
60	1600	5000	1CT / 12	12	14727	439017 15	19.53

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		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece
(W)	(lm)	(h)					(£)
20	420	4000	1CT / 5X10F	50	18160	203530 70	19.42
30	750	4000	1CT / 5X10F	50	18161	203547 70	19.42
45	1250	4000	1CT / 5X10F	50	18162	203554 70	19.42
60	1700	4000	1CT / 5X10F	50	18163	203561 70	19.42

Capsuline



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

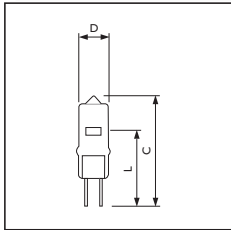
- Low-pressure technology allows use in luminaires without front glass

Application

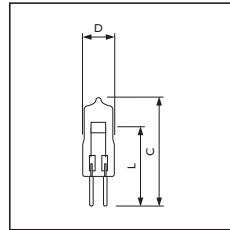
- Task lighting and decorative applications in homes, shops, hotels and restaurants

Luminaires

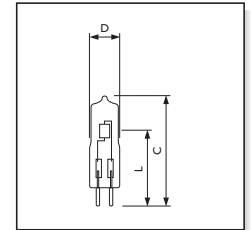
- Lamps can be used in luminaires without a front glass in accordance with IEC 598



Dim. no.	C max.	D max.	L nom.
1	33	10	22.2
2	33	10	22
3	44	12	30



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	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	17.19
10	G4	12	140	4000	4	1CT / 10X10F	100 13284Q	409706 50	17.19
20	G4	12	250	2000	2	1CT / 10X10F	100 14566	412997 50	17.19
20	G4	12	310	4000	5	1CT / 10X10F	100 13078	402103 50	17.19
20	G4	24	300	4000	6	1CT / 10X10F	100 13091	409621 50	17.19
20	GY6.35	12	300	4000	7	1CT / 10X10F	100 13104	402196 50	17.19
35	GY6.35	12	600	4000	7	1CT / 10X10F	100 13103	402189 50	17.19
50	GY6.35	12	850	2000	3	1CT / 10X10F	100 14567	412959 50	17.19
50	GY6.35	12	880	4000	7	1CT / 10X10F	100 13102	402172 50	17.19
50	GY6.35	24	850	4000	7	1CT / 10X10F	100 13090	409638 50	17.19
75	GY6.35	12	1575	4000	7	1CT / 10X10F	100 13101	402165 50	17.19
100	GY6.35	12	2200	4000	7	1CT / 10X10F	100 13100	402158 50	17.19
100	GY6.35	24	2200	3000	7	1CT / 10X10F	100 13089	409645 50	17.19

Microprojection



Product Description

- Low-voltage quartz halogen capsule lamps

Product Features

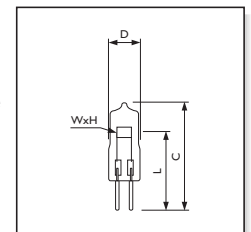
- The smallest quartz halogen lamps available
- Distortion-free quartz bulb and precisely defined filament position for optimal beam performance
- Square-filament lamp 5761 is specially designed for microscopes with computer read-out

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

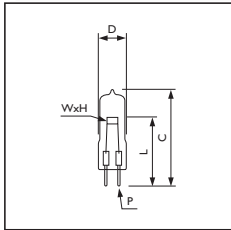


Dim. no.	C max.	D max.	L max.	WxH nom.
1	31	9	19.75	3.0x0.5
2	31	9	19.75	2.0x1.0
3	31	9	19.75	1.6x0.6
4	31	9	19.75	1.5x1.5

G4 6V

Type	Rated Lamp Wattage	Life to 50% failures	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)	(h)					(€)
6605	10	2000	1	1CT / 10X10F	M42	410092 50	17.07
7387	10	100	2	1CT / 10X10F	M29	410276 50	17.02
7388	20	100	3	1CT / 10X10F	M30	409867 50	17.02
5761	30	100	4	1CT / 10X10F	5761	410849 50	34.73

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	57	13.5	33	1	7.7x3.8
7	55	13.5	33	1	7.4x3.5
8	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

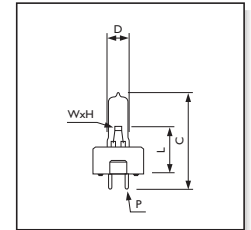
- XHP lamps are optimised for maximum light output by using xenon filling gas within IEC limits for these types

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.
9	60	13.5	33.3	3.17	5.8x2.9

Type	Rated Lamp Wattage (W)	Cap-Base	Voltage (V)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
7027	50	G6.35	12	1500	50	1	1CT / 10X10F	100	A1220	409829 50	9.92
14623P	95	GZ9.5	17	2150	2000	9	1CT / 10X10F	100	14623P	426581 50	35.42
7023	100	GY6.35	12	3400	50	2	1CT / 10X10F	100	A1215	409812 50	9.92
7724	100	GY6.35	12	2550	2000	3	1CT / 10X10F	100	M28	409850 50	21.42
5974	150	GZ9.5	24	5000	50	9	1CT / 10X10F	100	A1262	410078 50	35.42
6550	150	G6.35	15	5000	50	4	1CT / 10X10F	100	A1234	409843 50	18.69
7158	150	G6.35	24	5200	50	5	1CT / 10X10F	100	A1216	409836 50	9.96
6958	250	G6.35	24	8400	300	6	1CT / 10X10F	100	M33	409898 50	25.43
7748XHP	250	G6.35	24	10000	50	7	1CT / 10X10F	100	A1223X	410290 50	14.67
7787	400	G6.35	36	14500	100	8	1CT / 3X8F	24	A1239	187123 38	45.09
7787LL	400	G6.35	36	12200	300	8	1CT / 3X8F	24	7787LL	506559 38	44.64
7787XHP	400	G6.35	36	16000	50	8	1CT / 3X8F	24	A1239X	504586 38	45.09



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

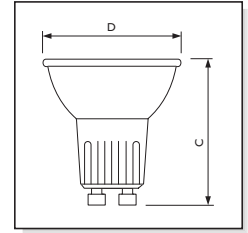
- Energy saving with beautiful halogen light

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)

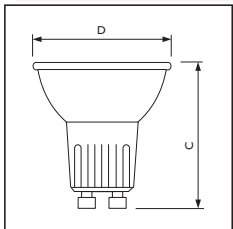


C	D
max.	max.
51	51

GU10 240V

Commercial product name	Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/ Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
		(W)	(°)	(cd [max.])	(h)				8727900...	(£)
EcoHalo Twist 35W GU10 240V MR16 50D	MR16	35	50	350	2000	1CT / 10X5F	50	35GU10ECOHALTW	864175 00	74.00

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.

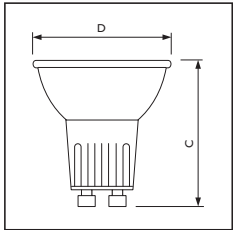
Luminaires

- 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		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	43.01
50	50	600	3000	1CT / 10X5F	50	18032	649478 60	43.01

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.

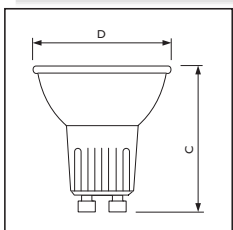
Luminaires

- 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		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	43.01
50	50	600	3000	1CT / 10X5F	50	18036	649539 60	43.01

Twistline Alu 2000 hours



Dim. no.	C max.	D 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

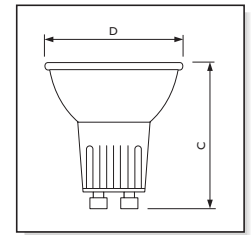
Lamp Wattage	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
(W)	(°)	(cd [max.])						(£)	
35	40	250	2000	1	1CT / 50	50	18042	652805 65	35.84
50	20	1000	2000	2	1CT / 10X5F	50	18073	428509 60	35.84
50	40	400	2000	1	1CT / 10X5F	50	18045	428561 60	35.84

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

Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		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	35.84
50	40	400	2000	1CT / 10X5F	50	18075	428448 60	35.84

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

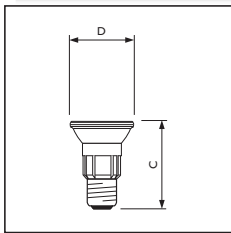
- Unprecedented beam contrast and uniformity for a mains-voltage reflector lamp. Highlights goods and exhibits, adds drama and creates ambience

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

Bulb	Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		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	62.36
PAR20	20	25	1200	5000	1CT / 4X3F	12	20PAREFL	412379 17	62.36

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

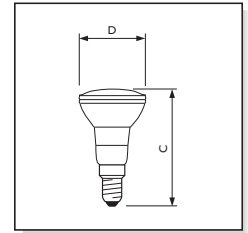
- Bright, sparkling halogen light
- Convenient halogen solutions that fit in standard, existing luminaires
- Retrofit halogen replacement for R50 incandescent reflector lamps

Applications:

- Typically used in home accent and task lighting

Luminaires

- Can be used in any luminaire in which R50 incandescent lamps can be used

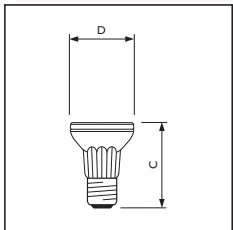


C	D
max.	max.
85	51.2

HalogenA PAR16 SES 240V

Bulb	Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
	(W)	(°)	(cd [max.])	(h)				8711500...	(£)
PAR16	40	25	800	2000	1BL / 10	10	40SESPAR16BP	438614 25	33.82

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

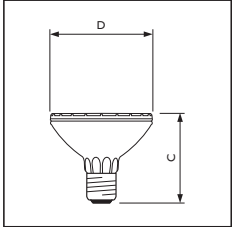
Luminaires

- 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		National Order Code	Ordering number	Nett Trade Price per Piece
	(W)	(°)	(cd [max.])	(h)				8711500...	(£)
PAR20	50	10	2550	2000	1CT / 15	15	50ESHALPAR20SP	494887 20	35.84
PAR20	50	25	850	2000	1CT / 15	15	50ESHALPAR20FL	494900 20	35.84

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		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	32.18
PAR30S	75	30	1700	2000	1CT / 15	15	75PAR30SFL	504401 20	32.18

PARcans DE



Product Description

- Double-ended quartz halogen lamps

Product Features

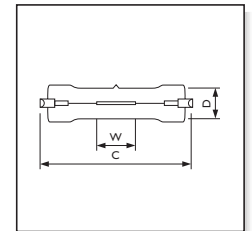
- Precisely aligned grid-type filament assembly with critical tolerances
- Can be used in a horizontal position (overhead projectors)

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	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(lm)	(h)					(£)
6365R	17000	75	1CT / 50	50	P26	491923 65	43.72

PARcans SE



Product Description

- Single-ended bi-pin quartz halogen lamps

- 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

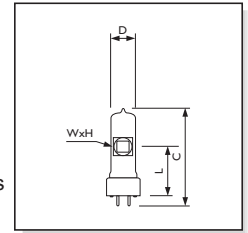
- Quality - excellent storage characteristics and consistent performance over time
- Freedom - in both luminaire design and burning position

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

GY9.5 230V Reflector

Type	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
7804	22000	75	1CT / 10	10	7804	187352 25	90.95



MV Halogen without Reflector 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

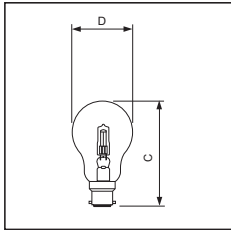
- Excellent environmental choice because of high energy efficiency and long reliable life

Application

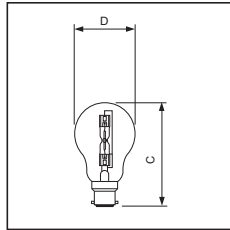
- General lighting applications in homes, shops, hotels and restaurants

Luminaires

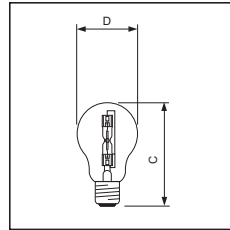
- Fits the same classic luminaires as the corresponding incandescent lamps



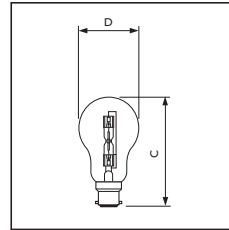
Dim. no.	C max.	D max.
1	92.5	56



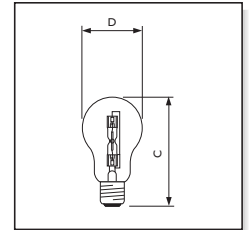
Dim. no.	C max.	D max.
2	92.5	56



Dim. no.	C max.	D max.
3	95.5	56




Dim. no.	C max.	D max.
4	105.5	61



Dim. no.	C max.	D max.
5	107	61

EcoClassic30 Clear

Bulb	Lamp Wattage (W)	Cap-Base	Voltage (V)	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)
A55	28	BC	240	D	340	2000	1	1CT / 10	10	28BCECO30A55	252859 25	5.99
A55	42	BC	240	C	630	2000	2	1CT / 10	10	42BCECO30CLA55	251876 25	5.99
A55	42	ES	240	C	630	2000	3	1CT / 10	10	42ESECO30CLA55	251791 25	5.99
A55	53	BC	240	C	850	2000	2	1CT / 10	10	53BCECO30CLA55	251883 25	8.15
A55	53	ES	240	C	850	2000	3	1CT / 10	10	53ESECO30CLA55	251807 25	8.15
A60	70	BC	240	C	1200	2000	4	1CT / 10	10	70BCECO30CL1CT	251890 25	13.04
A60	70	ES	240	C	1200	2000	5	1CT / 10	10	70ESECO30CL1CT	251814 25	13.04
A60	105	BC	240	C	1980	2000	4	1CT / 10	10	105BCECO30CL1CT	251906 25	13.04
A60	140	BC	230	C	2800	2000	4	1CT / 10	10	140BCE30CL230V	252576 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 ambiance
- Dimmable

Environment

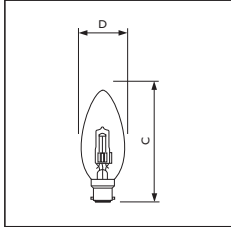
- Excellent environmental choice because of high energy efficiency and long reliable life

Application

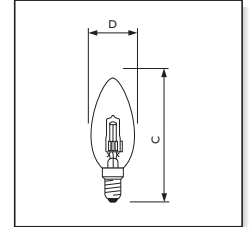
- General lighting applications in homes, shops, hotels and restaurants

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 Clear

Bulb	Lamp Wattage	Cap-Base	Energy Efficiency Label (EEL)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)
B35	18	BC				1	1CT / 15	15	18WB22ECOCLAS30	862645 00	5.99
B35	18	SES				3	1CT / 15	15	18WSECOCLAS30	862683 00	5.99
B35	28	BC	D	340	2000	2	1CT / 15	15	28BCCECO30CL	252736 20	5.99
B35	28	SES	D	340	2000	4	1CT / 15	15	28SESECO30CL	252712 20	5.99

EcoClassic30 Twisted Candle B35



Product Description

- Energy-saving Mains-voltage halogen lamp in Twisted candle shape

Product Features

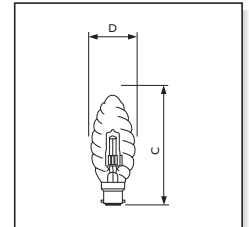
- Direct retrofit for the corresponding incandescent lamps
- Replaces classic incandescent 40W lamp
- Available with E14 and B22 caps
- 2000 hours lifetime
- UV-block glass

Product Benefits


- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with standard incandescent lamps
- Excellent color rendering
- Creates an attractive ambiance
- Dimmable

Application

- General lighting applications in homes, shops, hotels and restaurants



EcoClassic30 BC 240V Clear

Bulb	Lamp Wattage	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (€)
BW35	18	1CT / 15	15	18WB22ECOCTWIST	863765 00	5.99
BW35	42	1CT / 15	15	42WB22ECOCTWIST	863802 00	5.99

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

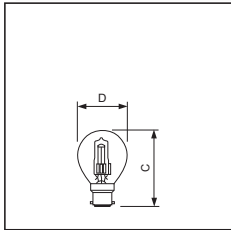
Product Benefits

- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with standard incandescent lamps

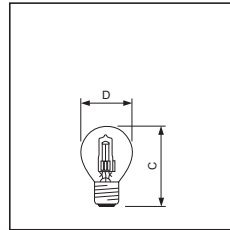
- Excellent color rendering
- Creates an attractive ambience
- Dimmable

Application

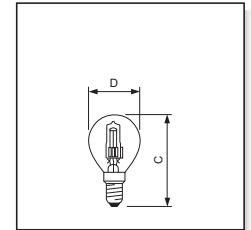
- General lighting applications in homes, shops, hotels and restaurants



Dim. no. 1



Dim. no. 2



Dim. no. 3

EcoClassic30 240V Clear

Bulb	Lamp Wattage (W)	Cap-Base	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
P45	28	BC	1	1CT / 20	20	28WB22ECOC-GOLF	862966 01	5.99
P45	28	ES	2	1CT / 20	20	28WE27ECOC-GOLF	863000 01	5.99
P45	42	SES	3	1CT / 20	20	42WSESECOC-GOLF	862942 01	5.99
P45	42	BC	1	1CT / 20	20	42WB22ECOC-GOLF	862980 01	5.99
P45	42	ES	2	1CT / 20	20	42WE27ECOC-GOLF	863710 00	5.99

EcoHalo MV Caps G9



Product Description

- Energy-saving mains-voltage halogen capsules 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
- No light transmitted through the back of the reflector

Product Benefits

- Energy saving with beautiful halogen light
- Mains-voltage lamp so no transformer needed

Application

- General lighting applications in homes, shops, hotels and restaurants

Commercial product name	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
EcoHalo MV Caps 28W G9 240V CL	28CLICECOG9CLCC	252897 00	82.00
EcoHalo MV Caps 42W G9 240V CL	42CLICECOG9CLCC	252934 00	82.00

HalogenA IDE



Product Description

- Mains-voltage high-wattage double-envelope giving a white halogen light

Product Features

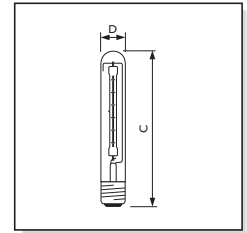
- Quartz burner with a linear tungsten filament in a single-ended thermal-shock-resistant clear glass tubular envelope
- High luminous efficacy
- Excellent colour rendering

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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)	(lm)	(h)						(£)
500	10000	2000	1	1CT / 6	6	500IDE	491275 10	112.43
1000	24000	2000	2	1CT / 6	6	1000IDE	491299 10	137.00

Clickline MV



Product Description

- Single-ended mains-voltage capsule

Product Features

- UV block quartz glass
- G9 base for easy insertion and replacement

Product Benefits

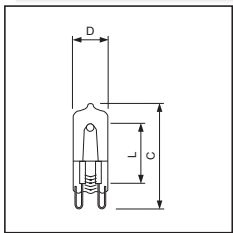
- The most compact capsule in its range
- Mains voltage so no transformer needed
- Available in a clear and a frosted version for softer light effects
- Easily dimmable

Application

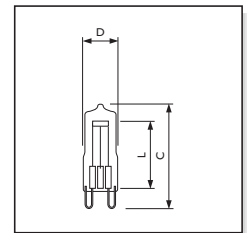
- Accent and general lighting in homes, hotels, bars and restaurants

Luminaires

- Ideal for use in small, lightweight, open luminaires
- A covered luminaire is not required according to IEC 357 and 432-2




Dim. no.	C max.	D max.	L nom.
1	44.6	12.75	21.7



Dim. no.	C max.	D max.	L nom.
2	44.6	12.75	21.7

Clickline G9 240V

Lamp Wattage	Bulb Finish	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
(W)			(lm)	(h)						(£)
25	Clear	E	210	2000	1	1CT / 10X10F	100	25CLICKCL	429759 50	16.46
40	Clear	D	490	2000	1	1CT / 10X10F	100	40CLICKCL	429810 50	16.46
40	Frosted	E	460	2000	2	1CT / 10X10F	100	40CLICKFR	429841 50	16.46
60	Clear	D	820	2000	1	1CT / 10X10F	100	60CLICKCL	429872 50	16.46

Plusline Compact (double ended)



Product Description

- Mains-voltage linear with a coiled-coil filament, giving white halogen light

Product Features

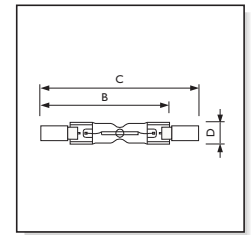
- Double-ended high-efficacy lamps
- Clear tubular quartz bulb
- Reinforced filament supports for maximum safety and shock resistance resulting in longer lifetime
- Two arc-preventing fuses for greater safety
- Excellent colour rendering
- Constant light output during life

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




B	C	D
nom.	max.	max.
74.9	78.3	12

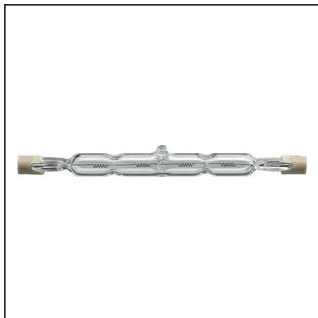
Luminaires

- Must be used in luminaires with a front cover glass

Plusline Compact R7s 240V Clear

Lamp Wattage	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
(W)		(lm)	(h)				8711500...	(£)
100	D	1550	2000	1BB / 10X10BOX	100	K14	058270 26	22.81

Plusline Small (double ended)



Product Description

- Mains-voltage linear with a coiled-coil filament, giving white halogen light

Product Features

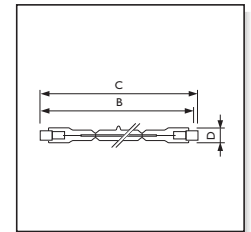
- Double-ended high-efficacy lamps
- Clear tubular UV block quartz bulb
- Reinforced filament supports for maximum safety and shock resistance resulting in longer lifetime
- Two arc-preventing fuses for greater safety
- Excellent colour rendering
- Constant light output during life

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




B	C	D
nom.	max.	max.
114.2	117.6	12

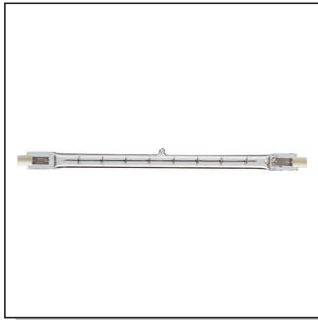
Luminaires

- Must be used in luminaires with a front cover glass

Plusline Small R7s Clear

Lamp Wattage	Voltage	Energy Efficiency Label (EEL)	Lamp Luminous Flux	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
(W)	(V)		(lm)	(h)				8711500...	(£)
300	120	D	5200	3000	1BB / 10X10BOX	100	115K9	494665 26	25.28
300	240	D	5600	2000	1BB / 10X10BOX	100	K9	058317 26	25.28
500	120	D	9500	3000	1BB / 10X10BOX	100	120K1	494634 26	25.28
500	240	D	9900	2000	1BB / 10X10BOX	100	K1	058324 26	25.28

Plusline Large (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

- Limited burning position: +/-4°
- Excellent colour rendering
- Constant light output during life

Product Benefits

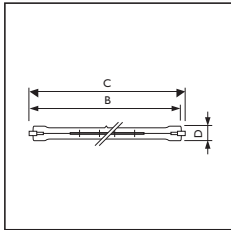
- 20% more light than ordinary double-ended
- Long lifetime
- Safe in use

Application

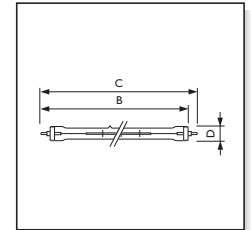
- Typically used in outdoor applications: billboards, car parks, security lighting and construction sites
- Also used in Indoor applications: homes, offices, shops and museums

Luminaires

- Must be used in luminaires with a front cover glass




Dim. no.	B nom.	C max.	D max.
1	185.7	189.1	11
2	250.7	254.1	11



Dim. no.	B nom.	C max.	D max.
3	322	334.4	11

Plusline Large Clear

Lamp Wattage (W)	Cap-Base	Voltage (V)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
750	R7s	240	16875	2000	1	1CT / 10	10	K3	055958 25	51.84
1000	R7s	120	22000	2000	1	1CT / 10	10	120K4	494856 25	51.84
1000	R7s	240	24200	2000	1	1CT / 10	10	K4	055972 25	51.84
1500	R7s	240	36300	2000	2	1CT / 10	10	K5	055996 25	51.84
2000	FA4	240	48400	2000	3	1CT / 10	10	K6	056016 25	51.84

Hi-Brite



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

- Easy handling, ideal for moving head systems
- High beam intensity resulting in reduced energy consumption (1200W instead of 2500W)

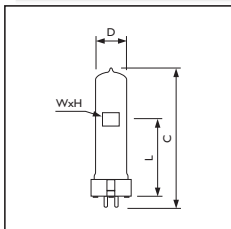
Application

- Studio and film lighting
- Stage and theatre lighting
- Touring and show lighting

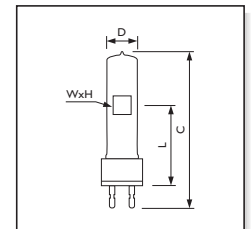


Philips Pinch Protection technology

- **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.
1	95	22	46.5

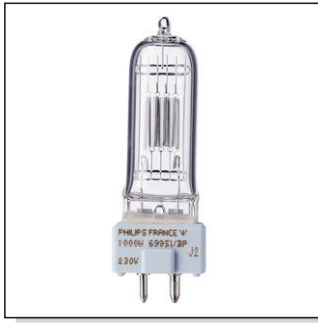


Dim. no.	C max.	D max.	L nom.	WxH nom.
2	140	25	63.5	12.0x10.5

Clear

Type	Cap-Base	Voltage (V)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
7015TXO	GX9.5	100			1	1CT / 10	10	7015TXO	505576 25	265.65	yes
6980Z	G22	80	36000	200	2	1CT / 10	10	CP110	519467 25	145.13	yes

Blue Pinch



Product Features

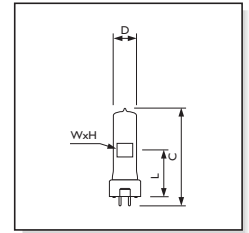
- Lamp pinch can be operated at up to 500°C
- Enables a significant reduction of light centre length (LCL), or an increase in lamp power by up to 300 per cent with same LCL, compared with unprotected lamps
- Biplane filament
- Unique pinch protection

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





C	L	WxH
max.	nom.	nom.
95	46.5	11.0x14.0

Luminaires

- Pinch-protected lamps must be used in dedicated luminaires

GY9.5 240V Clear

Type	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
69951/BP	25000	250	1CT / 10	10	6995BP	496072 25	144.13	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

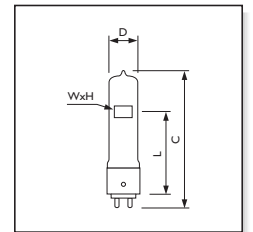
- Combination of innovative luminaire reflector design and the Philips Compact Source lamps produces greater efficiency of the total optical system

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

Product Benefits



- Increased shock-resistance through improved construction of filament support



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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
6986P	15000	300	1CT / 10	10	GKV	498571 25	113.55	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

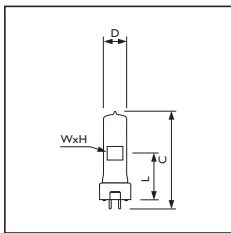
Application

- Stage and theatre lighting
- Effect lighting for discos and shows

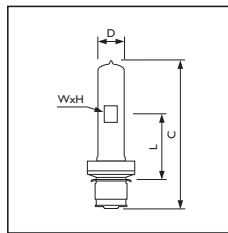


Philips Pinch Protection technology

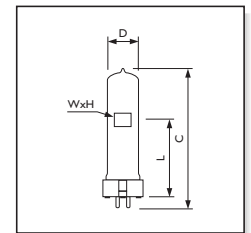
- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.



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

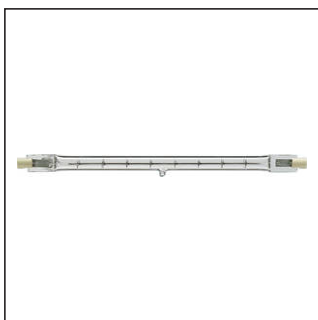


Dim. no.	C max.	D max.	L nom.	WxH nom.
6	110	22	55	11x12
7	110	23	55	15x13
8	120	25	67	16x14

240V Clear

Type	Cap-Base	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
6874P	GY9.5	5200	2000	1	1CT / 10	10	M38	187673 25	69.09	yes
6800C	P28s	9500	900	4	1CT / 10	10	T24	184849 25	124.33	yes
6820P	GY9.5	11000	360	2	1CT / 10	10	T25	184634 25	107.69	yes
6877P	GY9.5	10000	2000	3	1CT / 10	10	M40	187710 25	103.14	yes
6823P	GY9.5	14500	600	2	1CT / 10	10	T27	184573 25	115.10	yes
6998C	P28s	12600	750	5	1CT / 10	10	T22	185082 25	150.56	yes
6998P	GX9.5	12600	900	6	1CT / 10	10	T21	184900 25	138.43	yes
6996P	GX9.5	21000	900	7	1CT / 10	10	T19	184962 25	129.19	yes
6897P	GX9.5	27600	480	8	1CT / 10	10	T29	184788 25	138.49	yes

Halogen High Voltage DE



Product Features

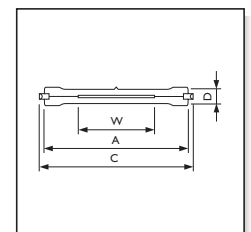
- Colour temperature 3200K

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	Vol-tage (V)	Bulb Finish	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
7775R/16	240	Frosted	16250	150	1	1CT / 10	10	P210	492074 25	65.98	yes
13162R	240	Clear	21600	75	2	1CT / 50	50	P213	491954 65	64.35	yes
13477R	240	Clear	24400	150	3	1CT / 10	10	P211	492173 25	62.70	yes
13704R	230	Clear	26600	150	4	1CT / 50	50	P235	491657 65	68.32	yes
13989R	240	Clear	26000	200	1	1CT / 10	10	P27	492036 25	69.83	yes
7786R	240	Clear	30000	300	3	1CT / 10	10	P220	492135 25	62.64	yes
6358R	240	Clear	33750	200	1	1CT / 10	10	P212	492050 25	65.54	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

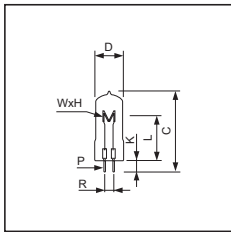
Application

- Studio and film lighting
- Disco lighting
- Theatre lighting

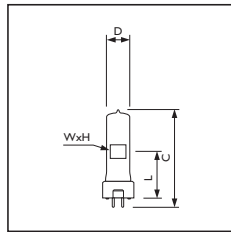


Philips Pinch Protection technology

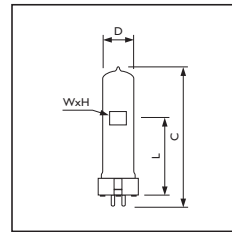
- **Reliability**, through longer lifetime and fewer early failures.
- **Quality**, through excellent storage characteristics and consistent performance over time.
- **Compactness**, allowing more compact design of fixtures and burning positions.



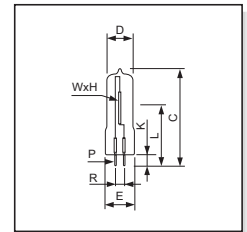
Dim. no.	C max.	D max.	L nom.	P nom.	WxH nom.
1	54	18	30	1	8x9
2	56	18	31.5	1	8x9



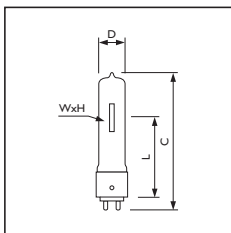
Dim. no.	C max.	D max.	L nom.	WxH nom.
3	90	18	46.5	6x13
4	90	18	46.5	8x18
5	75	22	36.5	11x11
6	90	22	46.5	11x12



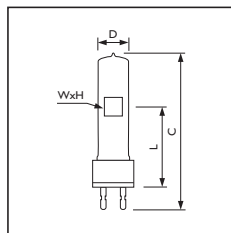
Dim. no.	C max.	D max.	L nom.	WxH nom.
7	110	22	55	10x10
8	110	23	55	15x13



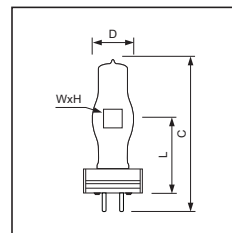
Dim. no.	C max.	D max.	L nom.	P nom.	WxH nom.
9	67	18	41	1	22



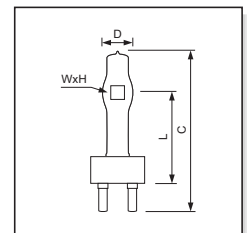
Dim. no.	C max.	D max.	L nom.	WxH nom.
10	105	20	60.5	7x21



Dim. no.	C max.	D max.	L nom.	WxH nom.
11	140	28	63.5	11x14
12	175	40	90	14x13
13	175	40	90	20x21



Dim. no.	C max.	D max.	L nom.	WxH nom.
14	145	40	70	18x18



Dim. no.	C max.	D max.	L nom.	WxH nom.
15	210	40	127	18x18
16	280	62	165	26x29

Clear

Type	Rated Lamp Wattage (W)	Cap-Base	Voltage (V)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration		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	36.00	yes
6872P	300	GY9.5	240	7050	180	3	1CT / 10	10	CP81	187598 25	62.84	yes
VL300	300	GX6.35	240	8550	20	2	1CT / 20	20	VL300	497260 05	36.00	yes
6873P	500	GY9.5	240	13500	180	4	1CT / 10	10	CP82	187635 25	98.36	yes
7389	500	GY9.5	240	14000	75	5	1CT / 10	10	A1244	187239 25	63.99	yes
6638P	650	GY9.5	240	16500	180	6	1CT / 10	10	CP89	184511 25	90.77	yes
6993P	650	GX9.5	230	16500	120	7	1CT / 10	10	6993P	185174 25	146.74	yes
PF810	650	G6.35	240	21100	15	9	1CT / 20	20	P114	497000 05	44.01	yes
6983P	1000	G9.5	240	26000	180	10	1CT / 10	10	CP77	184696 25	160.17	yes
6995P	1000	GX9.5	240	25000	240	8	1CT / 10	10	CP70	185143 25	190.21	yes
6995Z	1000	G22	240	25000	240	11	1CT / 10	10	CP71	185686 25	199.89	yes
6975Z	2000	G22	240	50000	400	12	1CT / 10	10	CP92	504760 25	238.49	yes
6994P	2000	GY16	240	50000	480	14	1CT / 10	10	CP72	185860 25	255.04	yes
6994Z	2000	G38	240	50000	480	15	1CT / 10	10	CP73	186584 25	255.04	yes
6894Y	2500	G22	240	65000	400	13	1CT / 10	10	CP91	506498 25	277.85	yes
6963Z	5000	G38	240	132500	420	16	UNP / 1	1	CP85	186782 00	759.17	yes

Halogen FastFit



Product Description

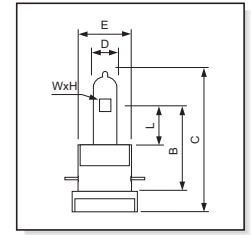
- FastFit is also available in several MSR/MSD Gold™ versions and Ceramic ST.

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



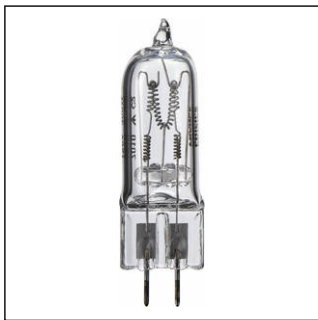
Philips Pinch Protection technology

- **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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece	
	(W)	(lm)	(h)					(£)	
7017G	750	22500	300	1CT / 10	10	750W80VFASTFIT	507952 25	371.91	yes

Video/Photo/ENG SE



Product Description

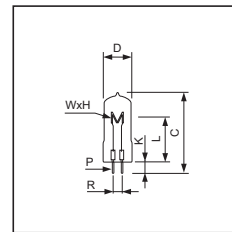
- Single-ended mains-voltage halogen lamps

Product Benefits

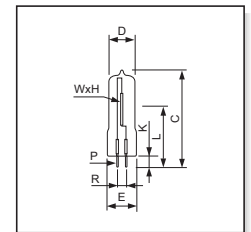
- High, constant light output and high colour temperature form the basis for making attractive, accurately exposed pictures

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



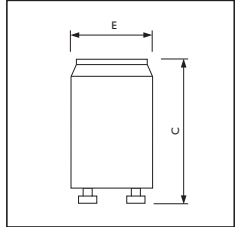
Dim. no.	C	D	L	P	WxH
	max.	max.	nom.	nom.	nom.
3	67	18	41	1	22

240V Clear

Type	Rated Lamp Wattage	Cap-Base	Lamp Luminous Flux	Life to 50% failures	Dim. no.	Packing type/Packing configuration		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	36.00	yes
VL300	300	GX6.35	8550	20	2	1CT / 20	20	VL300	497260 05	36.00	yes
PF810	650	G6.35	21100	15	3	1CT / 20	20	P114	497000 05	44.01	yes

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:

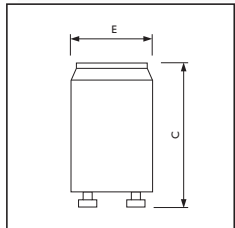
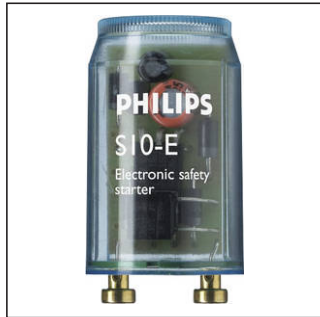
- 110/130V, 4-22W single applications
- 220/240V, 4-6-8-15-18-22W single applications
- 220/240V, 4-22W series applications
- S10 Ecoclick starters are suitable for 220/240V, 4-65W single applications
- S10 Ecoclick starter is required for 220/240V, 13W single application
- S2 Ecoclick starter is recommended 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		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	2.56
S2	4-22	Series	220-240	1NO / 20X10CT	200	S210W	697509 31	2.56
S10	4-65	Single	220-240	UNP / 1000	1000	S101000W	697691 28	2.47
S10	4-65	Single	220-240	1NO / 20X10CT	200	S1010W	697691 31	2.47

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)

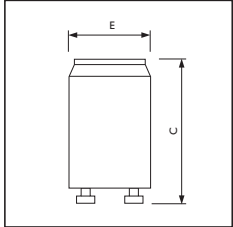
- Flame-retardant components & UV resistant canister lead to additional safety and a secure ignition
- Easy recognition & installation and replacement friendly

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		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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
S12	115/140	SINGLE	220-240	UNP / 1000	1000	S121000WBNEW	903792 28	3.80
S12	115/140	SINGLE	220-240	/ 20X25CT	500	S12250WBNEW	903792 26	3.80
S16	70-125	SINGLE	240	UNP / 1000	1000	S161000WBNEW	903563 28	4.68
S16	70-125	SINGLE	240	/ 20X10CT	200	S1610WBNEW	903563 31	4.68



Germicidal TUV PL-S



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

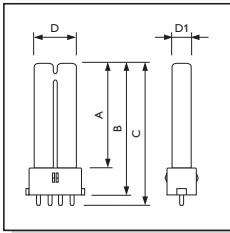
- Protective inside coating ensures constant UV output over the complete lifetime of the lamp
- Lamp glass filters out the 185 nm ozone-forming line
- PL-S lamp base contains a special starter for almost instant starting
- Wind-chill corrected versions available for optimal application performance and 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



A	B	C	D	D1
max.	max.	max.	max.	max.
129	145	167	28	13

Type	Rated Lamp Wattage (W)	Cap-Base	Lamp Voltage (V)	Cap-Base Information	Lamp Current (A)	Execution	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
TUV PL-S	9	2G7	60	4 Pins	0.17	4 Pins	1CT / 6X10BOX	60	PLS9TUV4PIN	710833 80	35.96	yes

Fluorescent Specialties Actinic BL



Product Description

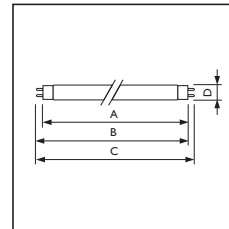
- Tubular low-pressure mercury vapour fluorescent lamps

Product Features

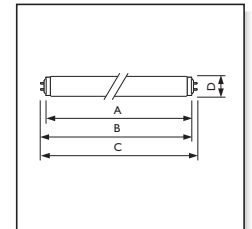
- Emit long-wave UV-A radiation in the 350 - 400 nm range
- UV-B/UV-A ratio less than 0.1% (UV-B: 280 - 315 nm)
- R (Reflector) lamps have a 200° internal reflector

Application

- Photopolymerisation processes
- Reprography
- Insect traps



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	437.4	442.1	444.5	451.6	28



Dim. no.	A max.	B min.	B max.	C max.	D max.
2	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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
Actinic BL	30W/10	G13	45	0.805	1	SLV / 25	25	TLDK30W10	893468 40	30.58	yes
Actinic BL TL-K	40W/10-R	G13	50	0.86	2	SLV / 25	25	40102RA	612236 40	30.58	yes

TL /10 UV-A



Product Description

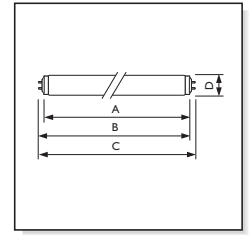
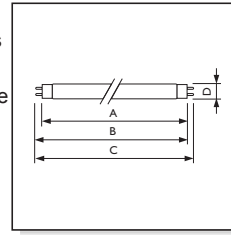
- Tubular low-pressure mercury vapour fluorescent lamps

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

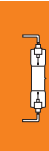
- Photopolymerisation processes
- Insect traps
- Reprography



Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
1	437.4	442.1	444.5	451.6	28		
2	1500	1504.7	1507.1	1514.2	40.5		
3	1763.8	1768.5	1770.9	1778	40.5		

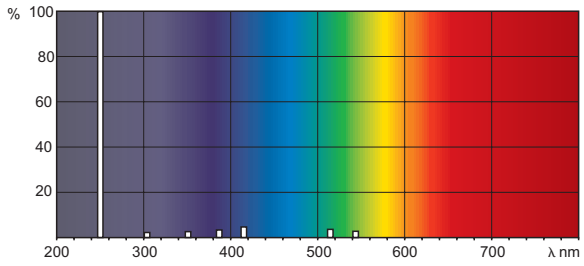
Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
4	589.8	594.5	596.9	604	40.5		

Type	Rated Lamp Wattage/ Colour Code	Cap-Base	Lamp Voltage (V)	Lamp Current (A)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)	
Actinic BL	30W/10	G13	45	0.805	1	SLV / 25	25	TLDK30W10	893468 40	30.58	yes
Actinic BL TL-K	40W/10-R	G13	50	0.86	4	SLV / 25	25	40102RA	612236 40	30.58	yes
TL	80W/10-R	G13	110	0.83	2	SLV / 25	25	658010RA	612625 40	45.85	yes
TL	100W/10-R	G13	122	0.97	3	SLV / 25	25	10010RA	612816 40	45.85	yes

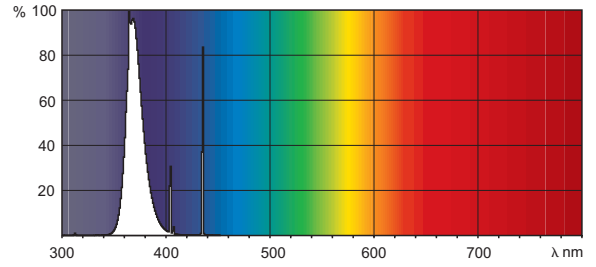


Spectral Distribution

TUV PL-S

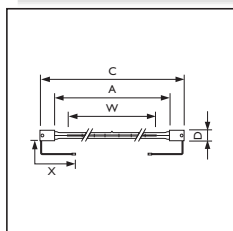


Lightcolour /10



InfraRed Halogen

InfraRed HeLeN



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	

Product Description

- Tubular quartz infrared lamp
- Tubular 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

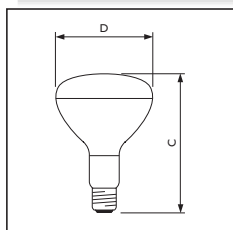
Application

- 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

Type	Rated Lamp Wattage (W)	Cap-Base (V)	Vol-tage (V)	Bulb Finish	Cap-Base Information	Life to 50% failures (h)	Execution	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
15007Z	1000	SK15	235	HELEN Sleeve	Fasten	5000	Straight	p15	1	UNP / 10	10	15007Z	496119 25	241.26
15009Z	1000	SK15	235	HELEN Sleeve	Fasten	5000	Straight	any	2	UNP / 10	10	15009Z	496140 25	241.26
15004Z	1500	SK15	235	HELEN Sleeve	Fasten	5000	Straight	p15	3	UNP / 10	10	15004Z	056078 25	241.26
15005Z	2000	SK15	235	HELEN Sleeve	Fasten	5000	Straight	p15	4	UNP / 10	10	15005Z	496126 25	241.26

InfraRed Incandescent

InfraRed Industrial Heat Incand.



C max.	D nom.
183	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.

Type	Rated Lamp Wattage (W)	Cap-Base	Voltage (V)	Bulb Finish	Burning Position	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
IR375CH R125	375	E27	230-250	Clear	any	1CT / 10	10	IR375CH	126597 25	51.30

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

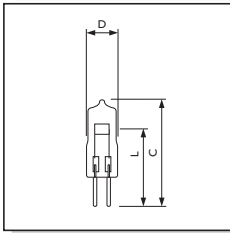
Product Benefits

- Very high light output for limited power consumption

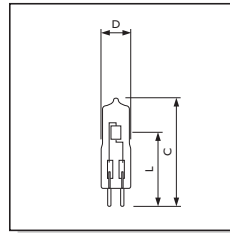
- High resistance to vibration and shock

Application

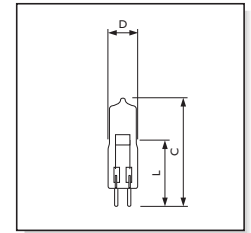
- Traffic Signalling on road intersections, bridges etc.
- Harbour and airport approach roads
- Industrial estates
- Parking areas of shopping or exhibition centres



Dim. no.	C max.	D max.	L nom.
1	31	9	19.5



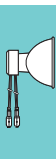
Dim. no.	C max.	D max.	L nom.
2	44	11.5	30



Dim. no.	C max.	D max.	L nom.
3	44	12	30

Traffic Halogen 12V

Type	Lamp Wattage (W)	Cap-Base	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
12345	20	G4	420	400	any	1	1CT / 10X10F	100	M35	410016 50	15.65
12058	50	GY6.35	975	4000	any	2	1CT / 10X10F!	100	12058	474735 60	15.58
13512	50	GY6.35	935	4000	any	3	1CT / 10X10F	100	M32	410436 50	10.94

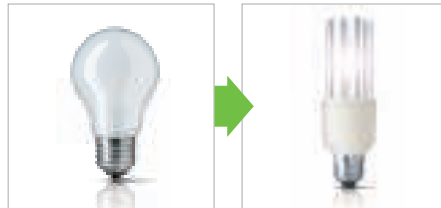


Guide to uplamping for Incandescent lamps

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.co.uk/lighting



Standard (T/A/E-shape) Standard A-shape clear



Product Description

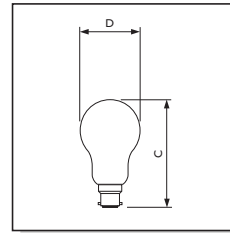
- Conventional pear-shaped incandescent lamps

Product Features

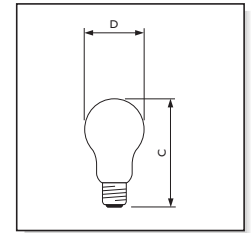
- Vacuum-filled (15W) or gas-filled (25W and above)

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



Dim. no.	C max.	D nom.
2	97	55

Standard Clear 240V

Bulb	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Average Lifetime	Dim. no.	Packing type/Packing configuration		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	4.57
A55	40	ES	410	1000	2	1CT / 12X10F	120	40ES1PZP	359247 84	4.57
A55	60	BC	700	1000	1	1CT / 12X10F	120	60BC1PZP	361172 84	4.57
A55	60	BC	700	1000	1	F10 / 12	12	60BC10PZP	377029 15	4.57
A55	60	ES	700	1000	2	1CT / 12X10F	120	60ES1PZP	359346 84	4.57

Candle (B-shape) Softone Candle B35



Product Description

- Flame-shaped gas-filled glass bulb with E-base

Product Features

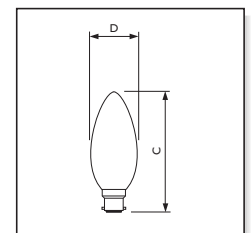
- Gives a delicate, glare-free light in a subtle white or pastel colour

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



C max.	D nom.
94.5	35

Softone BC Apricot 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)	(lm)	(h)					(£)
B35	40	290	1000	2CT / 10	10	40BCCANDB35OR	601360 92	7.28



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

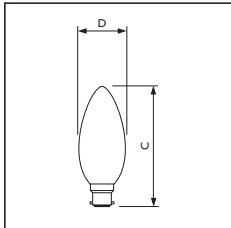
Product Benefits

- 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

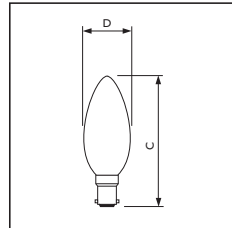
Application

- Home use in living and dining rooms, bedrooms, halls and studies

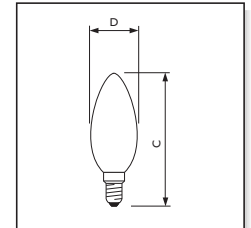
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Ballrooms
- Shops and boutiques
- Churches



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 (W)	Cap-Base	Lamp Luminous Flux (lm)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
B35	25	BC	200	1000	1	2CT / 2X10T/WL	20	25BCC2PZP	072450 35	7.28
B35	40	SBC	405	1000	2	2CT / 2X10T/WL	20	40SBCC2PZP	380371 35	7.28
B35	40	BC	385	1000	1	2CT / 2X10T/WL	20	40BCC2PZP	014276 35	7.28
B35	40	SES	405	1000	3	2CT / 2X10T/WL	20	40SESC2PZP	378521 35	7.28
B35	60	BC	630	1000	1	2CT / 2X10T/WL	20	60BCC2PZP	014160 35	7.28

Lustre (P-shape)

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

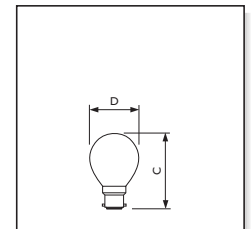
- Small, crystal-clear lamps designed for sparkling highlights
- At their best in decorative small luminaires such as table models and wall brackets with clear glass bowls
- Creates a sparkling atmosphere

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



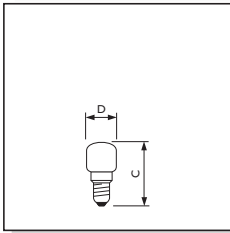
C max.	D nom.
71.5	45

Standard BC Clear 240V

Bulb	Lamp Wattage (W)	Lamp Luminous Flux (lm)	Average Lifetime (h)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
P45	40	385	1000	2CT / 12X5F	60	40BCL2P	365774 71	7.75



Tubular (T-shape) Deco Tubular



Dim. no.	C max.	D nom.
1	57	25

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

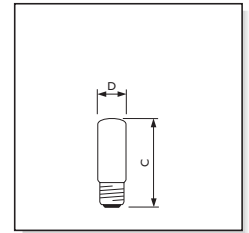
- Internal coating cannot chip, fade, become scratched or weathered

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.
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		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	7.01
T29	15	ES	240	115	E	1000	2	1CT / 10X10F	100	15ESSIZP	324122 50	7.01

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

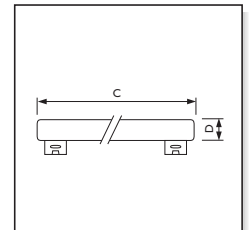
Product Benefits

- 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		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	51.83
T30	60	420	G	1000	2	1CT / 25	25	60S14SPHZP	056931 40	51.83



GLS Specialties Reinforced Construction A-shape



Product Description

- Reinforced Incandescent lamp with A-shape for heavy duty applications

Product Features

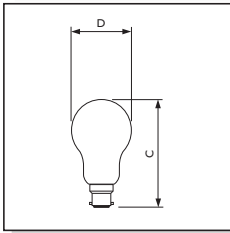
- Reinforced construction lamp with exceptionally strong filament to withstand mechanical shocks and vibrations

Product Benefits

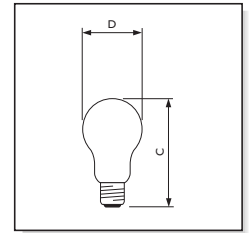
- Longer lifetime (>2000 hrs) when used in heavy duty applications as compared to standard incandescent lamps

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		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	9.16
A60	60	BC	230	515	2000	1	1CT / 20	20	60BCRSP1PZP	068811 05	8.51
A60	60	ES	230	515	2000	3	1CT / 20	20	60ESRSP1PEP	090195 05	8.51
A65	100	BC	230	990	2000	2	1CT / 20	20	100BCRSP1PCP	138255 05	8.51

Standard Extra Low Voltage A60



Product Description

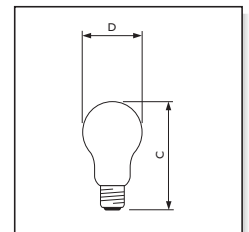
- Clear lamp (A-bulb) for operation on voltages of 24 and 50V

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 max.	D nom.
107.5	60

Standard ELV ES Clear

Bulb	Lamp Wattage	Voltage	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)	(V)	(h)					(£)
A60	40	24	1000	1CT / 12X10F	120	2440ESCP	022936 84	16.22
A60	60	50	1000	1CT / 12X10F	120	5060ESCP	101884 84	16.22



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

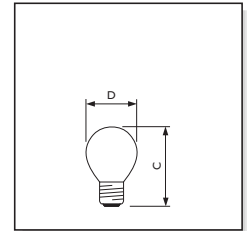
Product Benefits

- 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		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	8.17

Domestic Appliances

Appliance Oven Tubular



Product Description

- Tubular vacuum lamps with clear glass (T-bulb)

Product Features

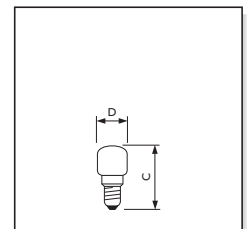
- Coiled-coil filament
- Manufactured with heat-resistant solder, getter and lamp-base cement

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 max.	D 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		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	11.32
T25	25	172	F	1000	2	1CT / 10X10F	100	25SESOZP	038715 50	11.32

Appliance Oven P45



Product Description

- Lustre vacuum lamps with clear glass (P-bulb)

Product Features

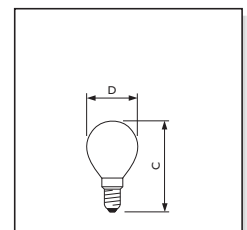
- Coiled-coil filament
- Manufactured with heat-resistant solder, getter and lamp-base cement

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		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	11.76

Appliance Cooker Hood Tubular



Product Description

- Gas-filled lamp with clear bulb

Product Features

- Extra filament support for resistance to vibration from extractor motors

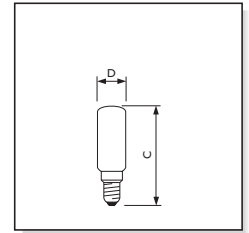
Product Benefits

- 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		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	12.54

Reflector (NR/R/PAR/E/A/P/PC-shape)

Reflector diam 39 mm



Product Features

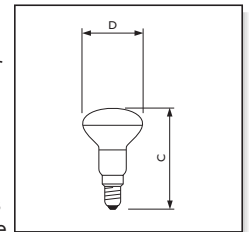
- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires
- R39 flood is the smallest model in the range
- Direct replacement for conventional reflector lamps 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.
67	39

Product Description

- Reflector lamps based on advanced spotlighting technology

Reflector SES Frosted 240-250V

Bulb	Lamp Wattage	 Luminous Intensity	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(W)	(°) (cd [max.])	(h)					(£)
R39	30	45 160	1000	2CT / 2X10T/WL	20	30SESR392P	380401 35	15.48



Reflector diam 50 mm



Product Description

- Reflector lamps based on advanced spotlighting technology

Product Features

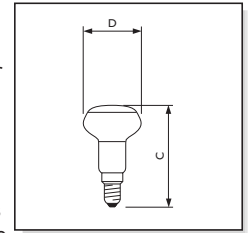
- Optic gives double reflection of part of the light emitted by the filament
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Product Benefits

- 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		National Order Code	Ordering number	Nett Trade Price per Piece	
	(W)	(°)	(cd [max.])	(h)			8711500...	(£)	
NR50	40	30	400	1000	1CT / 30	30	40SESR50SPZP	379863 78	10.97

Reflector diam 63 mm



Product Description

- Reflector lamps based on advanced spotlighting technology

Product Features

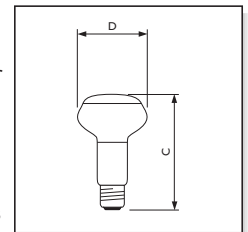
- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires
- Direct replacement for conventional reflector lamps of all kinds
- Easy fitting and removal thanks 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



C	D
max.	nom.
104.5	63

Reflector ES Frosted 240V

Bulb	Lamp Wattage	Luminous Intensity	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece	
	(W)	(°)	(cd [max.])	(h)			8711500...	(£)	
NR63	60	30	750	1000	1CT / 30	30	60ESR63SPZP	379887 78	10.97



Reflector diam 80/90/95/125 mm



Product Description

- Normal incandescent lamps with an internal ring-shaped parabolic aluminium mirror behind the filament

Product Features

- Blown glass bulb with frosted front

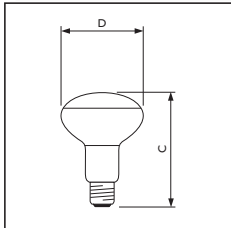
- Wide choice of diameters and wattages
- Lamp is designed to achieve brilliant indoor lighting effects

Product Benefits

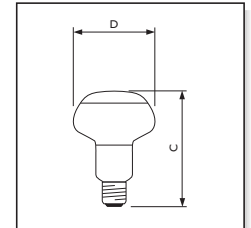
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires

Application

- Homes, shops, shop windows and displays, restaurants, hotels, exhibitions, bars and night clubs



Dim. no.	C max.	D nom.
1	114.5	80



Dim. no.	C max.	D nom.
2	116	80

Reflector ES Frosted 240V

Bulb	Lamp Wattage (W)	Beam Description (°)	Luminous Intensity (cd [max.])	Energy Efficiency Label (EEL)	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
E80	60	80	270		1000	1	1CT / 30	30	60ESR80ZP	379900 78	10.97
E80	100	80	530		1000	1	1BL / 10	10	100ESR80BZP	157812 25	10.97
E80	100	80	530		1000	1	1CT / 30	30	100ESR80ZP	379924 78	10.97
NR80	60	25	1000	F	1000	2	1CT / 30	30	60ESR80SPZP	379832 78	10.97
NR80	75	25	1600		1000	2	1CT / 30	30	75ESR80SPZP	379849 78	10.97
NR80	100	25	2000		1000	2	1CT / 30	30	100ESR80SPZP	379856 78	10.97

PAR38



Product Description

- Pressed-glass 121 mm diameter reflector lamps of high luminous intensity

Product Features

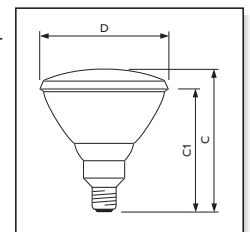
- Spot versions have a stippled front reflector producing a narrow, homogeneous beam
- Flood versions have a front refractor composed of prismatic elements

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



C max.	D nom.
137	122.5

PAR38 ES 240V

Bulb	Lamp Wattage (W)	Beam Description	Beam Description (°)	Luminous Intensity (cd [max.])	Average Lifetime (h)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
PAR38	80	Flood	30	1800	2000	1CT / 6	6	80ESPAR38FLZ	380678 10	40.21



PAR38 Colours



Product Description

- Coloured pressed-glass 121 mm diameter reflector lamp

Product Features

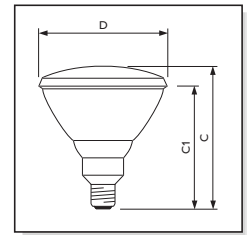
- Weatherproof coloured coating on the refractor face in a choice of colours
- Flood beam width

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 Yellow 240V

Bulb	Lamp Wattage	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
	(W)	(h)				8711500...	(£)
PAR38	80	2000	1CT / 12	12	80ESPAR38YEL	380586 15	47.84

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

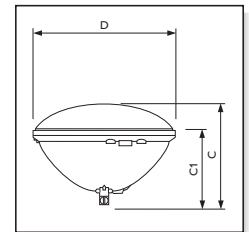
Application

- 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

Luminaires

- 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

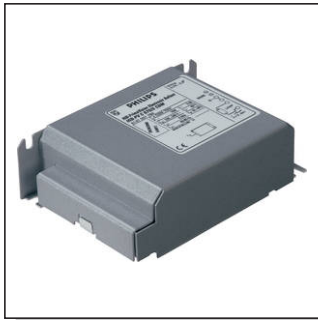
Lamp Wattage		Luminous Intensity	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece
(W)	(°)	(cd [max.])	(h)				8711500...	(£)
300	40	16000	1500	1CT / 8	8	12300PAR56FL	159694 42	198.49



HID

HID Electronic Indoor

HID-PrimaVision Compact for CDM lamps - Built-in



- 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

- 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 optimum system performance with Philips MASTERColour CDM lamps

Product Description

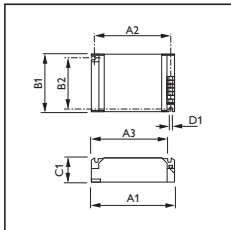
- Compact, lightweight, one-piece electronic gear for 35W, 70W and 150W CDM lamps

Product Benefits


- Minimal lamp power tolerance gives optimal lamp performance
- Lamp life increased by up to 30% for CDM lamps

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



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

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID-PV Cx 2x35 /S CDM	220-240	50/60	14	1	UNP / 12	12	HIDPVC235S	8711500 932723 30	268.65
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 /S CDM	220-240	50/60	10	3	UNP / 12	12	HIDPVC270S	8727900 845792 00	251.26
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



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 Ambient 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

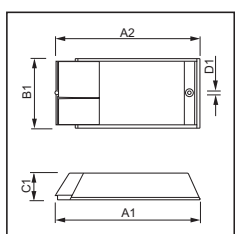
- RoHS compliant
- Green Flagship for Compact 150W
- ENEC or KEMA/VDE approved

Applications

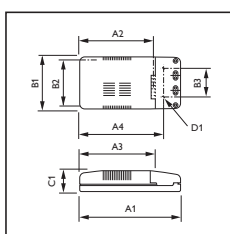
- 35W and 70W: accent and decorative lighting for shops and retail, public spaces, lobbies and offices
- 150W: as 35W and 70W for high ceilings
- Climatic suitability: for indoor use only

System

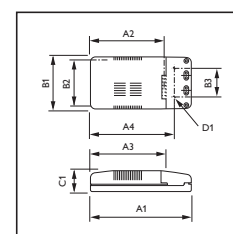
- Designed for optimum system performance with Philips MASTERColour CDM lamps



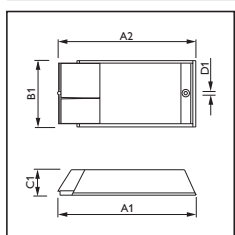
Dim. no.	A1	A2	B1	C1	D1
1	188.0	170.0	83.0	34.5	4.8



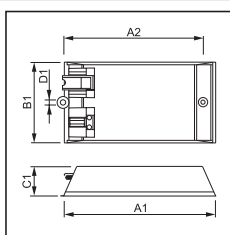
Dim. no.	A1	A2	A3	A4	B1	B2	B3	C1	D1
2	175.0	123.5	138.5	151.5	79.5	63.5	50.0	35.0	4.5



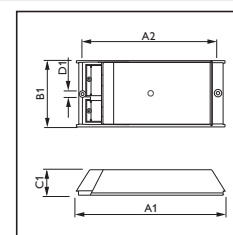
Dim. no.	A1	A2	A3	A4	B1	B2	B3	C1	D1
3	150.0	98.5	113.5	126.5	79.5	63.5	50.0	35.0	4.5



Dim. no.	A1	A2	B1	C1	D1
4	245.0	226.0	94.0	35.0	4.5



Dim. no.	A1	A2	B1	C1	D1
5	161.7	154.5	83.0	32.4	4.8



Dim. no.	A1	A2	B1	B3	C1	D1
6	223.9	206.0	82.9	38.5	37.5	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID-PV C 35 /I CDM	220-240	50/60	58	1	UNP / 12	HIDPVC035ISS	8711500 914781 30	219.99
HID-PV Cx 2x35 35 /I CDM	220-240	50/60	14	2	UNP / 12	HIDPVC235I	8711500 933300 30	261.94
HID-PV C 35 /I CDM	220-240	50/60	24	3	UNP / 12	HIDPVC035I	8711500 930125 30	169.46
HID-PV Cx 2x70 70 /I CDM	220-240	50/60	14	4	UNP / 6	HIDPVC270I	8727900 845808 00	260.18
HID-PV C 70 /C CDM	220-240	50/60	32	5	UNP / 12	HIDPVC70C	8727900 843125 00	138.70
HID-PV C 70 /I CDM	220-240	50/60	32	1	UNP / 12	HIDPVC070ISS	8711500 914767 30	219.99
HID-PV C 70 /I CDM	220-240	50/60	14	3	UNP / 12	HIDPVC070I	8711500 930163 30	193.99
HID-PV C 150 /I CDM	220-240	50/60	6	6	UNP / 10	HIDPVC150I	8711500 912879 30	243.71



HID-PrimaVision mini for CDM lamps - Built-in



- 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

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

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

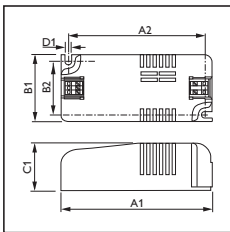
- RoHS compliant
- Green Flagship
- ENEC approved

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

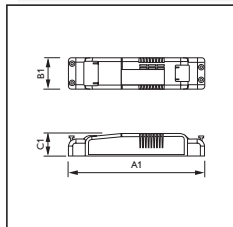


A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
97.3	88.0	43.3	30.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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

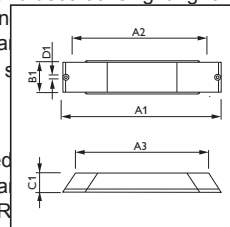
- RoHS compliant
- Green Flagship
- ENEC approved

Applications


- Accent and decorative lighting for shops and lobbies and
- Climatic suitability only

System

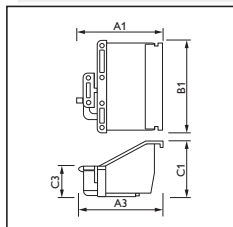
- Designed for performance MASTER MASTER



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		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	HIDPVM35C	8727900 843132 00	185.18
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



Dim. no.	A1	A3	B1	C1	C3
1	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

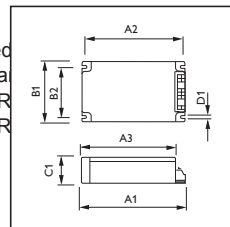
- RoHS compliant
- ENEC or KEMA/VE approved

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 performance MASTER MASTER



Dim. no.	A1	A2	A3	B1	B2	C1	D1
2	150.0	134.0	136.0	90.0	70.0	40.0	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HID Strain Relief RELIEF			1	UNP / 10	10	HIDPVCOVER	539861 30	294.22
HID-PV 150 /S MH/CDM	220-240	50/60	2	UNP / 10	10	HIDPV150	748751 30	235.37

HID-PrimaVision for CDM Mid-Wattage lamps



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

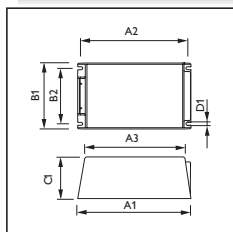
- RoHS compliant
- ENEC or KEMA/VDE approved

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



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

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
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	HIDPVXT210S	853179 00	427.85
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)



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

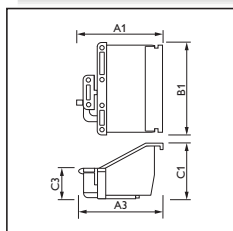
- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

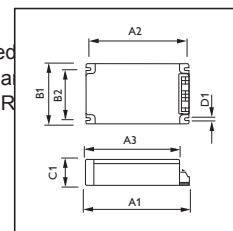
- Shop lighting (creates a cosy atmosphere, e.g. in furniture shops), excellent display of fresh goods (e.g. in butchers, bakeries, florists)
- Climatic suitability: for indoor use only

System


- Designed for optimum system performance with Philips MASTERColour CDM lamps



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.	C3 nom.
1	40	40	62	30	16




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 (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HID Strain Relief RELIEF				1	UNP / 10	10	HIDPVCOVER	539861 30	294.22

More data see next page

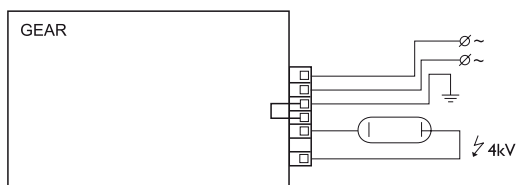
(continued)

Type	Line Voltage	Line Frequency	Maximum ballast number on MCB	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
	(V)	(Hz)	(x)						
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

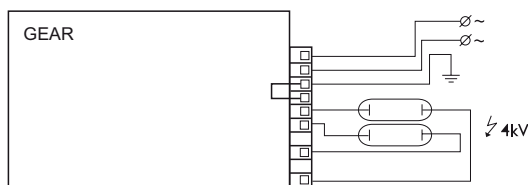


Wiring Diagram

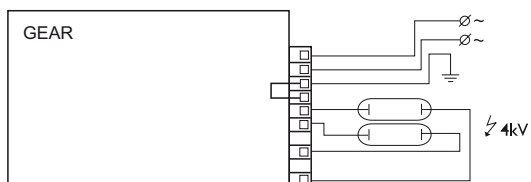
HID-PrimaVision Compact CDM 35, 70 & 150 Built in



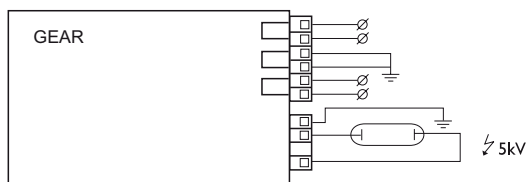
HID-PrimaVision Compact CDM 2x35 & 2x70 Built in



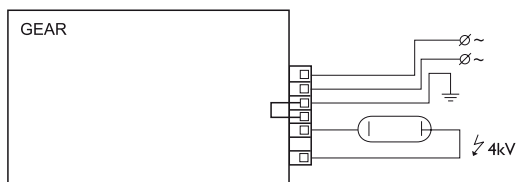
HID-PrimaVision Compact CDM 2x35 & 2x70 Independent



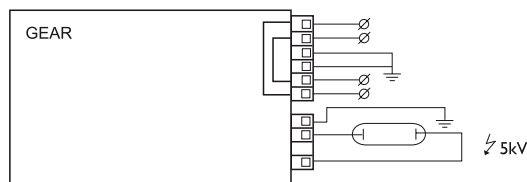
HID-PrimaVision Compact CDM 35 & 70 /C Independent



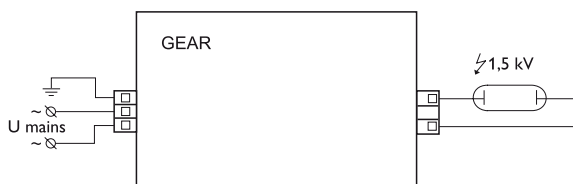
HID-PrimaVision Compact CDM 35 & 70 /G Independent



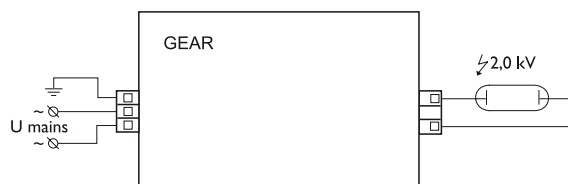
HID-PrimaVision Compact CDM 150 Independent



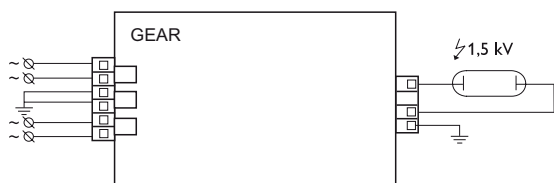
HID-PrimaVision mCDM 1x020 Built in



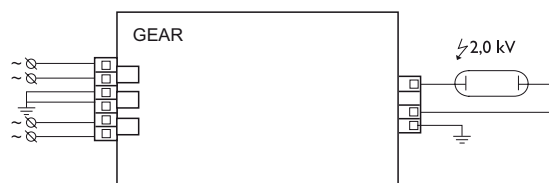
HID-PrimaVision mCDM 1x035 Built in



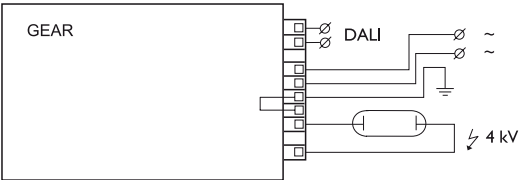
HID-PrimaVision mCDM 1x020 & 20 Independent



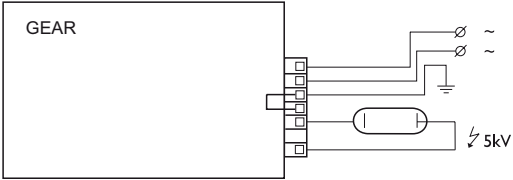
HID-PrimaVision mCDM 1x035 & 35 Independent



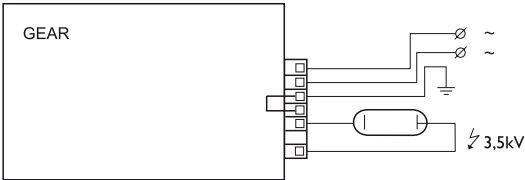
HID-PrimaVision DALI 70 /S CDM



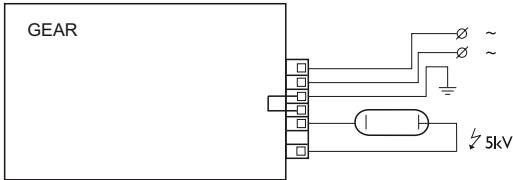
HID-PrimaVision 150 /S MH/CDM



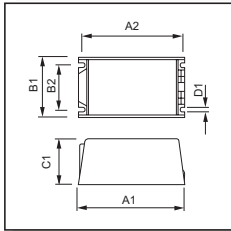
HID-PrimaVision 210 & 315 /S



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

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		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 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 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDPVXT90SCPOTW	8727900 813470 00	346.28
HID-PV Xt Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDPVXT140CPOTW	8727900 804621 00	308.93

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 198-254V
- 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

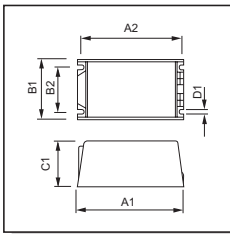
Applications

- 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		National Order Code	Ordering number	Nett Trade Price per Piece (£)
HID-DV LS-6 Xt 60 /S CPO-TW	220-240	50/60	1	UNP / 12	12	HIDDVLS6XT60S	8711500 915085 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	371.78
HID-DV LS-8 Xt 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS8XT90CPO	8727900 815610 00	371.78
HID-DV LS-10 Xt 90 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS10XT90CP	8727900 815627 00	371.78
HID-DV LS-6 Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS6XT140CP	8727900 813494 00	389.90
HID-DV LS-8 Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS8XT140CP	8727900 813500 00	389.90
HID-DV LS-10 Xt 140 /S CPO-TW	220-240	50/60	2	UNP / 12	12	HIDDVLS10XT140C	8727900 813517 00	389.90

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

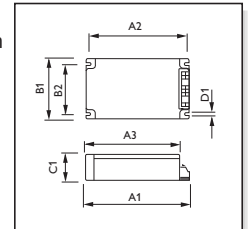
- Suitable for use in outdoor luminaires
- Cage clamp terminal connections with push-button release
- Simple installation and cabling

Environment

- RoHS compliant
- ENEC or KEMA/VDE approved

Applications

- Road / tunnel lighting
- Residential lighting
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23

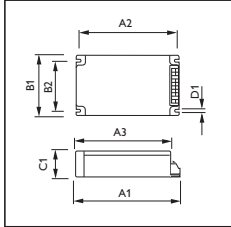


A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
150.0	134.0	136.0	90.0	70.0	40.0	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number	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

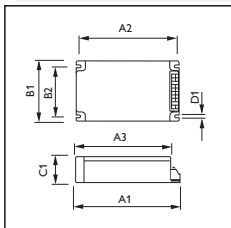
- RoHS compliant
- ENEC or KEMA/VDE approved

Applications:

- Road/tunnel lighting
- Residential lighting
- Indoor and outdoor applications, recommended outdoor luminaire classification > IP 23

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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 (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HID-DV DALI 100-150 /S CDO/SON/SDW	220-240	50/60	UNP / 10	10	HIDVDALI150	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

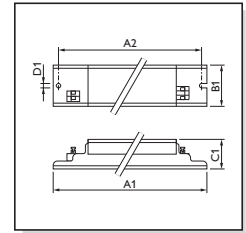
- Single-insert contacts
- Simple installation and cabling

Environment


- RoHS compliant
- ENEC or KEMAVDE 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)



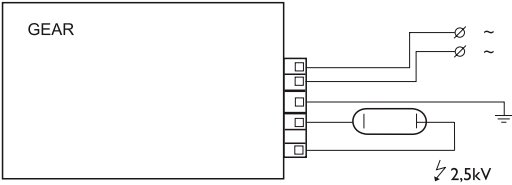
A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
280.0	265.0	40.0	28.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration	 25	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

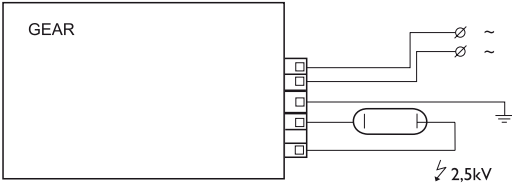


Wiring Diagram

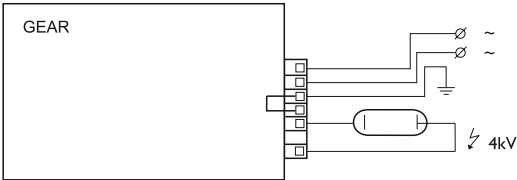
HID-PrimaVision Xtreme CPO-TW



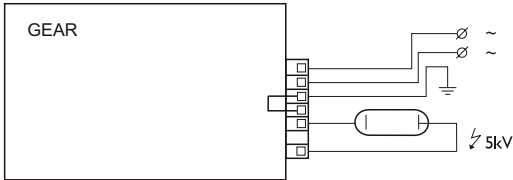
HID-DynaVision LumiStep



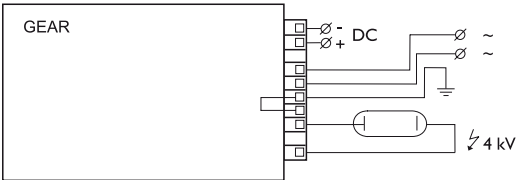
HID-PrimaVision CPO-TW



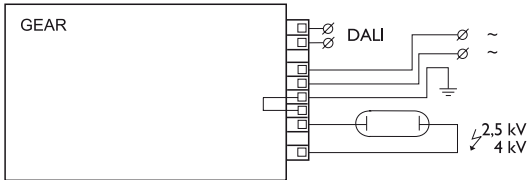
HID-PrimaVision SON & CDO



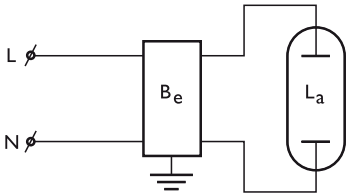
HID-DynaVision SON & CDO



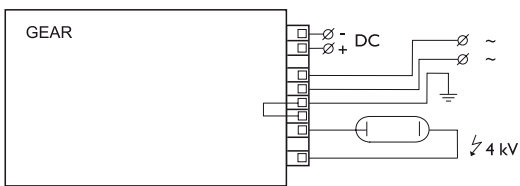
HID-DynaVision DALI SON & CDO



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

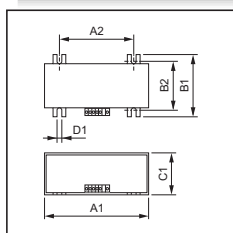
Features and Benefits:

- Electronic control unit ensures reliable starting and stabilises lamp power for optimum performance (minimum colour deviation)

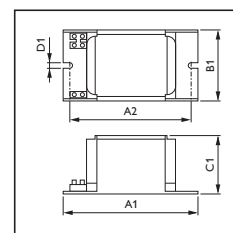
- Ballasts and electronic control units equipped with screw terminal blocks; other contact possibilities for ballasts on request
- Earthing-while-mounting facility (HID "BASIC" ballasts); separate earth terminal (HID "Heavy Duty")
- Simple installation and cabling

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 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	98.0	70.0	58.5	46.0	39.5	4.5



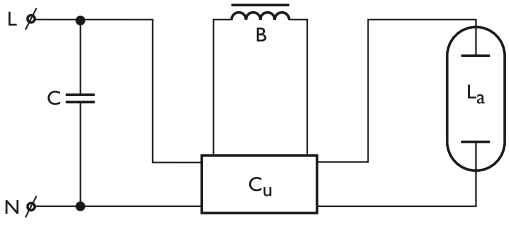
Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
2	118.0	94.0	61.0	52.0	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		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 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

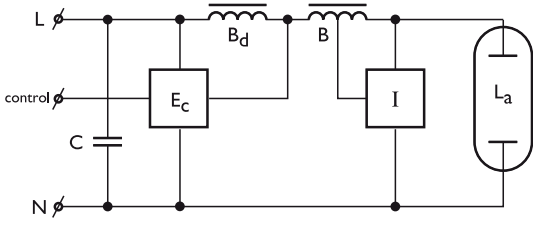


Wiring Diagram

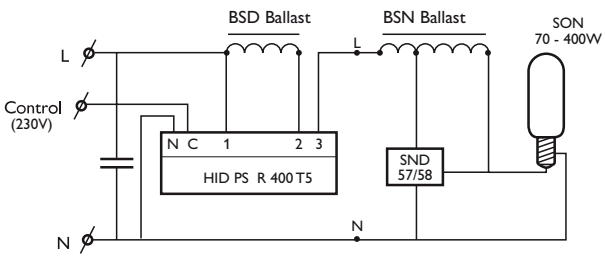
HID-CSLS for SDW



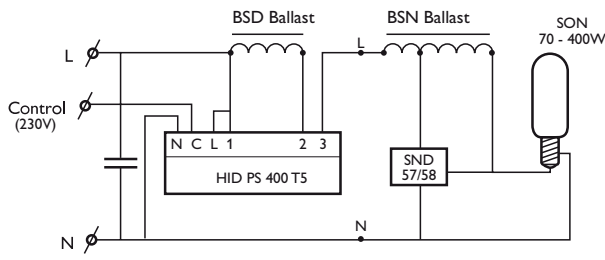
HID-Regulator BSD



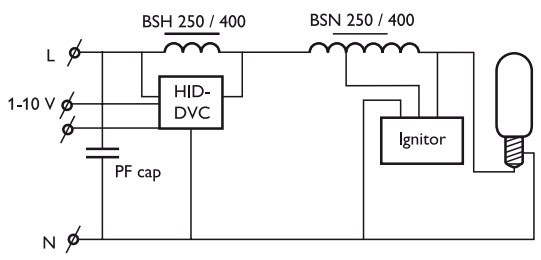
HID Power Switch



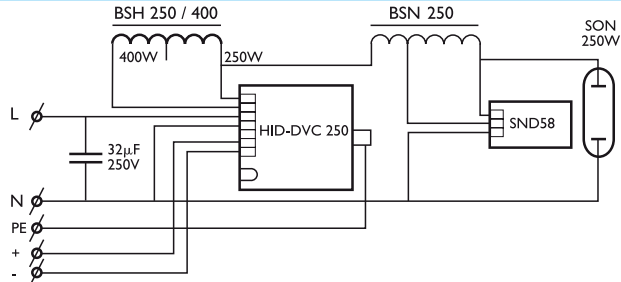
HID Power Switch



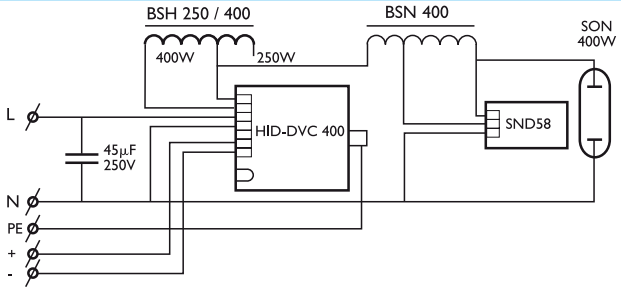
HID-DynaVision Control BSH



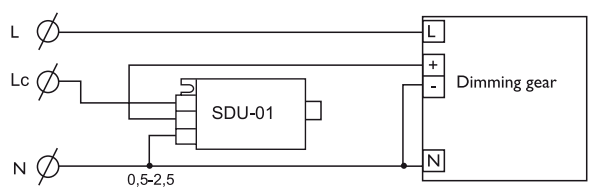
HID-DynaVision Control 250 SON



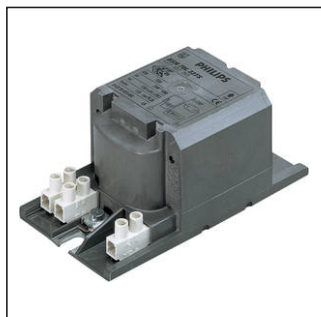
HID-DynaVision Control 400 SON



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

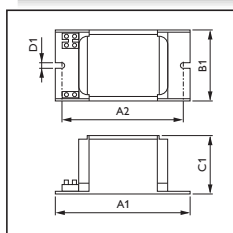
Features and Benefits:

- 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

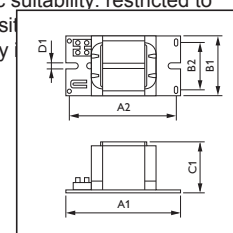
- Control gear can be installed remotely; substantial distance allowed between ballast/ignitor & lamp
- Equipped as standard with screw terminal blocks; insert contact on request
- Earthing-while-mounting facility
- Ballast can also be used in combination with series (superimposed) ignitor
- Ballasts 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 sites with low humidity



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

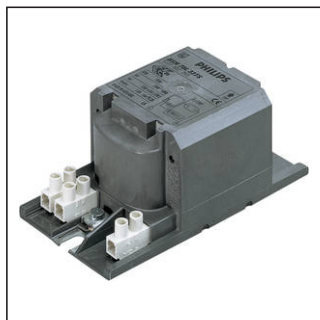


Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
5	166.0	145.0	97.0	78.5	83.0	6.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		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-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-ITS	230/240	50	3	UNP / 6	6	BSN150L407ITS	739087 30	84.62
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 Multi-Wattage series ignitor

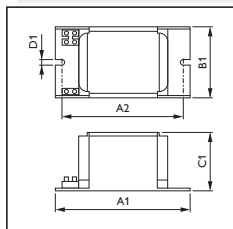


Product Description

- 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



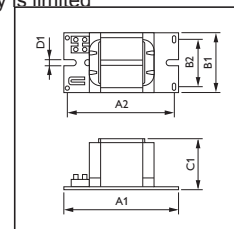
Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118.0	94.0	61.0	52.0	6.2
2	123.0	98.0	61.0	52.0	6.2
3	134.0	113.0	76.0	65.0	6.2

- 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

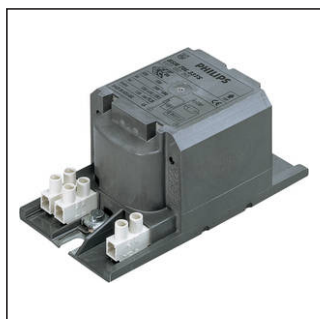
- Recreational sports lighting, outdoor and indoor
- Floodlighting of buildings and monuments
- Area lighting, e.g. harbors, building sites, city centers, shopping centers, pedestrian areas
- Canopy lighting, e.g. petrol stations
- Climatic suitability: restricted to built-in situations where relative humidity is limited



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
4	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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BSN 50/70 L407-TS	230/240	50	1	UNP / 6	6	BSN5070L407TS	539403 31	37.68
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

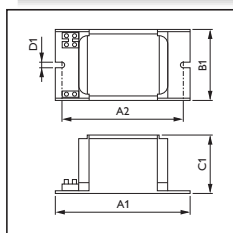


Product Description:

- 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



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

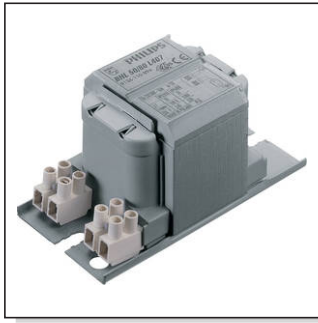
- Separate earth terminal
- All ballasts are equipped with ThermoSwitch protection against end-of-lamp-life phenomena
- Compact dimensions and light weight with minimal watt losses, thanks to orthocyclic winding process
- Equipped as standard with screw terminal blocks
- Ballast can also be used in combination 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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BSN 70 L34-TS	240	50	1	UNP / 6	6	BSN70L34TS	059703 31	104.16
BSN 100 L34-TS	240	50	2	UNP / 6	6	BSN100L34TS	059741 31	62.18
BSN 150 L34-TS	240	50	3	UNP / 6	6	BSN150L34TS	059628 30	104.16
BSN 250 L34-TS	240	50	4	UNP / 6	6	BSN250L34TS	059666 30	108.72
BSN 400 L34-TS	240	50	5	UNP / 4	4	BSN400L34TS	059789 30	119.83

HID-Basic BHL (HPL/HPI)



Product Description:

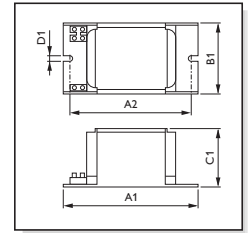
- Impregnated electromagnetic copper/iron ballasts for HPL and HPI (Plus) lamps

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, hypermarkets, 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



Dim. no.	A1	A2	B1	C1	D1
1	118.0	94.0	61.0	52.0	6.2
2	134.0	113.0	76.0	65.0	6.2
3	160.0	139.0	76.0	65.0	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
BHL 50/80 L407	230/240	50	1	UNP / 6	6	BHL5080L407	919670 31	38.25
BHL 125 L307	230/240	50	1	UNP / 6	6	BHL125L307	919090 31	41.81
BHL 250 L307	230/240	50	2	UNP / 6	6	BHL250L307	737229 30	72.28
BHL 400 L307	230/240	50	3	UNP / 6	6	BHL400L307	737250 30	82.43

HID-HighPower MH, HPI, HPL, SON



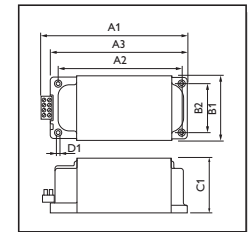
Product Description:

- 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



Dim. no.	A1	A2	A3	B1	B2	C1	D1
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

Commercial product name/Type/Type/Type/Type/Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HID-HighPower BHL 1000 L78 230/240V 50Hz HP-207 1000 L78	230/240	50	1	UNP / 1	1	BHL1000L78	062376 00	233.68
HID-HighPower BSN 1000 L78 230/240V 50Hz HP-257 1000 L78	230/240	50	2	UNP / 1	1	BSN1000L78	062369 00	272.12
HID-HighPower BMH 1800 L78 230/240V 50Hz HP-317 1800 L78	230/240	50	3	UNP / 1	1	BMH1800L78	059901 00	383.31
HID-HighPower BHD 2000 L77 400/415/430V 50Hz HP-317 2000 L77	400-430	50	3	UNP / 1	1	BHD2000L77	538178 00	326.06
HID-HighPower BHD 2000 L76 380/400/415V 50Hz HP-317 2000 L76	380-415	50	3	UNP / 1	1	BHD2000L76	742766 00	368.43
HID-HighPower BHL 2000 L76 380/400/415V 50Hz HP-317 2000 L76	380-415	50	3	UNP / 1	1	BHL2000L76	063847 00	326.06
HID-HighPower BHL 2000 L78 230/240V 50Hz HP-317 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

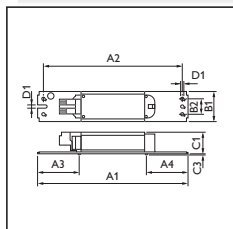
Features and Benefits:

- 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:

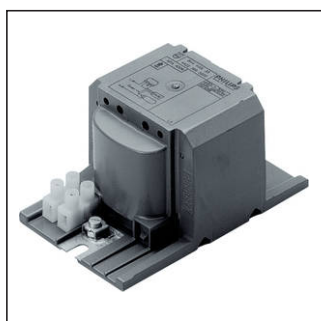
- Ideal for the following applications:
 - Road lighting, railway marshalling yards and crossings, airports, harbors and docks, quarries, foundries and rolling mills
 - Security and orientation lighting
- Climatic suitability: use in luminaires or poles under normal humid conditions (not drip-proof)



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

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		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 L82	240	50	2	UNP / 24	24	BSX3555L82	920539 30	35.38

HID-HeavyDuty BSX (SOX)



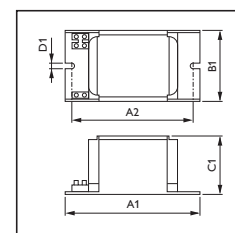
Product Description:

- 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



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		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
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

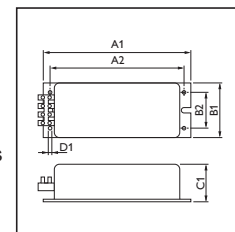
Features and Benefits:

- 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



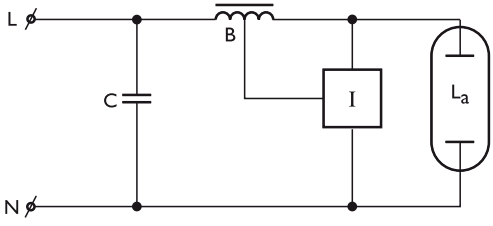
Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	149.0	135.0	80.0	42.0	67.0	4.2
2	178.0	162.0	100.0	42.0	74.0	4.2
3	178.0	162.0	100.0	42.0	78.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		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	BSX180H96	939005 99	218.90

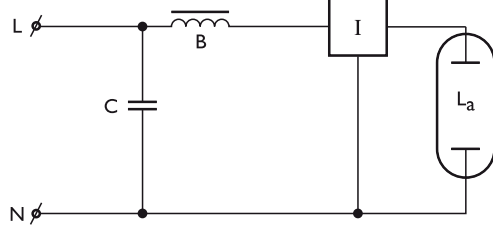


Wiring Diagram

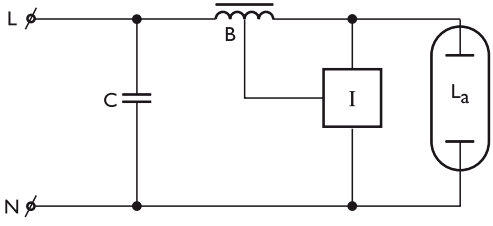
HID-Basic BSN/BMH semi parallel



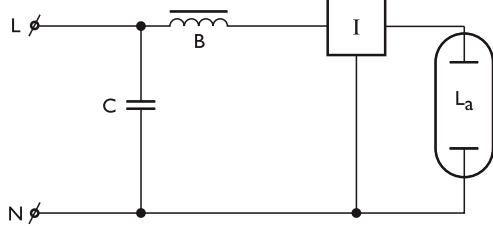
HID-Basic BSN/BMH series ignitor TS



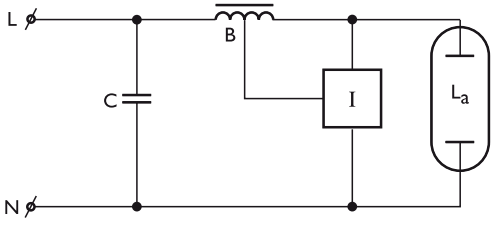
HID-Basic BSN/BMH series ignitor ITS



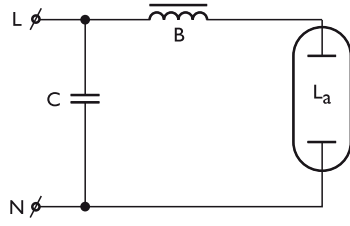
HID-Basic Multi-Wattages series ignitor



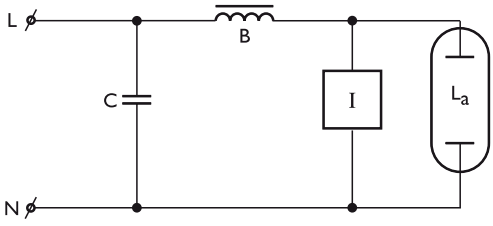
HID-HeavyDuty BSN semi-parallel ignitor



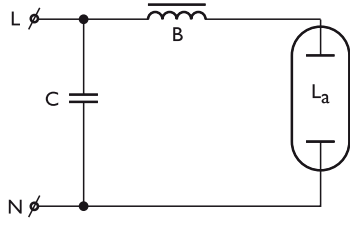
HID-Basic BHL



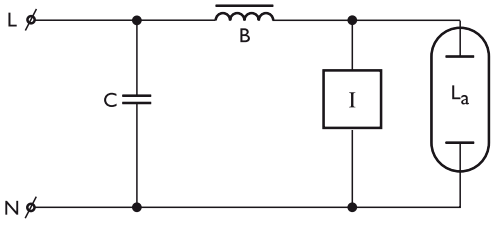
HID-Basic BHL 250 & 400



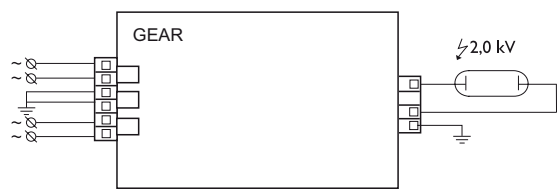
HID-HeavyDuty BHL



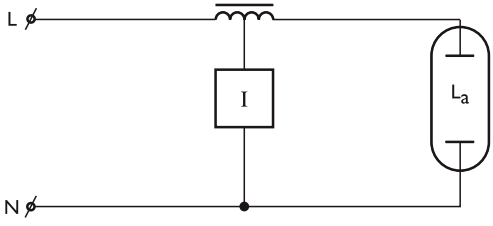
HID-HeavyDuty BHL 250 & 400



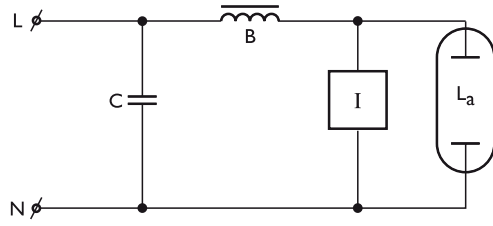
HID-PrimaVision mCDM 1x035 & 35 Independent



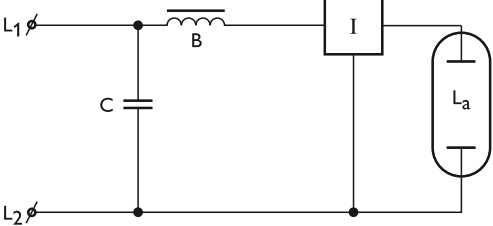
HID-HighPower BHL 1000 & 2000 L78



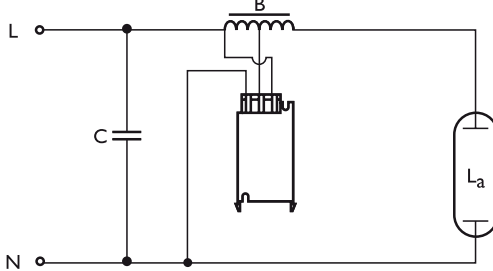
HID-HighPower BHL 2000 L50 & L76



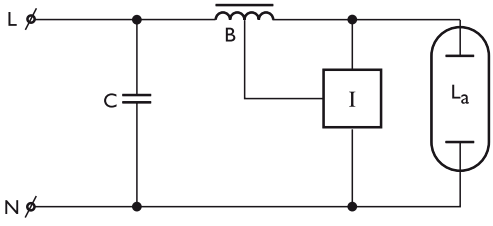
HID-HighPower BHD/BMH 2000 L76



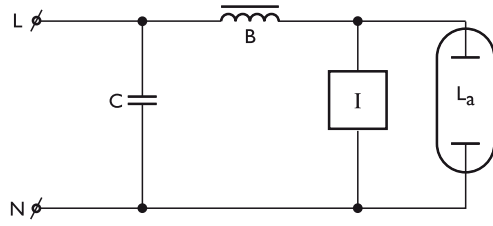
HID-HighPower BSN 1000



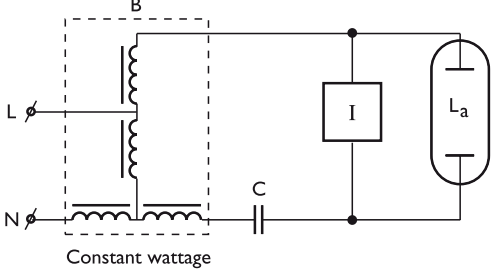
HID-HighPower BMH 1800



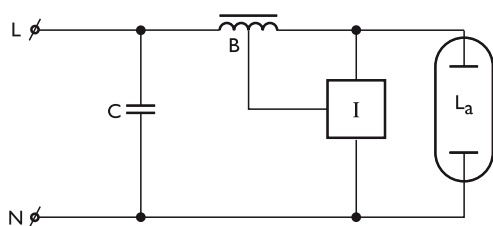
HID-Basic & HeavyDuty BSX



HID-Constant wattage BSX



HID-gear BHA



Ignitors HID ignitors



Product Description:

- Electronic ignitors for HID lamps

Features and Benefits:

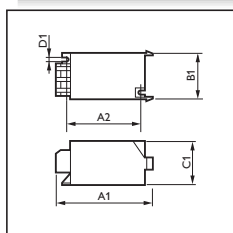
- Available in semi-parallel (Pulse), series (Superimposed pulse) and parallel versions
- Ignitors ensure reliable and smooth starting behaviour

- 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

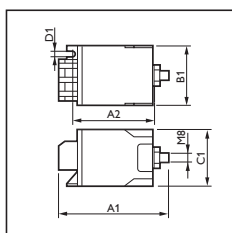
- Compact dimensions and light weight
- Simple screw or click-fit mounting, or stud-mounting for rapid assembly

Applications:

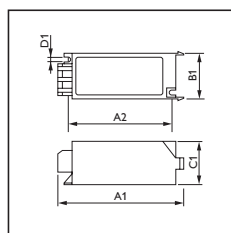
- Similar to those of the related lamps and ballasts



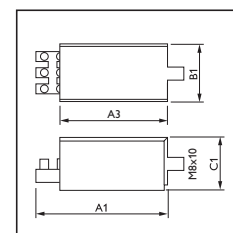
Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	84.5	65.0	41.0	38.0	4.3
2	84.5	65.0	41.5	38.5	4.3
3	85.5		41.5	38.5	




Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
4	89.0	70.0	41.0	38.0	4.3
5	89.0	70.0	41.5	38.5	4.3



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
6	114.5	95.0	41.0	38.0	4.3



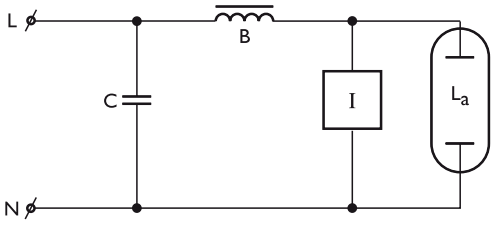
Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
7	78.0	62.0	36.0	32.0

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	 National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)	
SI 51	220-240	50/60	1	UNP / 48	48	SI51	915535 30	77.61
SI 51-S	220-240	50/60	4	UNP / 20	20	SI51S	747495 30	77.61
SI 52	220-240	50/60	1	UNP / 48	48	SI52	915542 30	93.29
SI 54	360-415	50/60	6	UNP / 20	20	SI54	915481 30	98.88
SN 57	220-240	50/60	1	UNP / 48	48	SN57	915559 30	60.26
SN 57-S	220-240	50/60	4	UNP / 20	20	SN57S	060525 30	60.26
SN 58	220-240	50/60	1	UNP / 48	48	SN58	915566 30	60.26
SN 58-S	220-240	50/60	4	UNP / 20	20	SN58S	741752 30	60.26
SN 59	220-240	50/60	6	UNP / 20	20	SN59	915573 30	97.90
SND 57	220-240	50/60	2	UNP / 48	48	SND57	930668 30	90.06
SND 57-S	220-240	50/60	5	UNP / 20	20	SND57S	930729 30	90.06
SND 58	220-240	50/60	2	UNP / 48	48	SND58	930682 30	90.06
SND 58-S	220-240	50/60	5	UNP / 20	20	SND58S	930705 30	90.06
SN 57T15	220-240	50/60	1	UNP / 48	48	SN57T15	744692 30	77.23
SN 57T15-S	220-240	50/60	4	UNP / 20	20	SN57T15S	745972 30	77.23
SN 57T5	220-240	50/60	1	UNP / 48	48	SN57T5	743152 30	77.23
SN 58T15	220-240	50/60	1	UNP / 48	48	SN58T15	743176 30	77.23
SN 58T15-S	220-240	50/60	4	UNP / 20	20	SN58T15S	745934 30	77.23
SN 58T5	220-240	50/60	1	UNP / 48	48	SN58T5	742995 30	77.23
SN 61	220-240	50/60	6	UNP / 20	20	SN61	916396 30	93.24
SU 10-S	220-240	50/60	7	UNP / 30	30	SU10SN	537836 30	74.54
SU 40-S	220-240	50/60	7	UNP / 30	30	SU40S	537911 30	88.97
SUD 10-S	220-240	50/60	7	UNP / 30	30	SUD10S	931443 30	79.00
SUD 40-S	220-240	50/60	7	UNP / 30	30	SUD40S	930354 30	94.30
SX 131	220-240	50/60	3	UNP / 48	48	SX131	915894 30	50.78
SX 26	220-240	50/60	6	UNP / 20	20	SX26	915900 30	54.07
SX 70	220-240	50/60	6	UNP / 20	20	SX70	915498 30	54.07
SX 72	220-240	50/60	6	UNP / 20	20	SX72	915610 30	45.01
SX 73	220-240	50/60	3	UNP / 48	48	SX73	920058 30	48.90
SX 74	220-240	50/60	6	UNP / 20	20	SX74	915696 30	48.90
SX 76	220-240	50/60	6	UNP / 20	20	SX76	916402 30	45.55

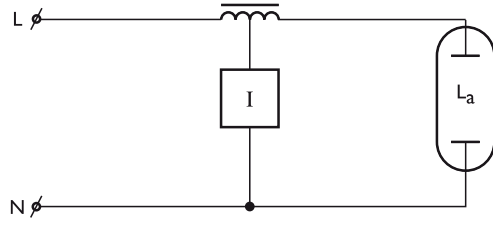


Wiring Diagram

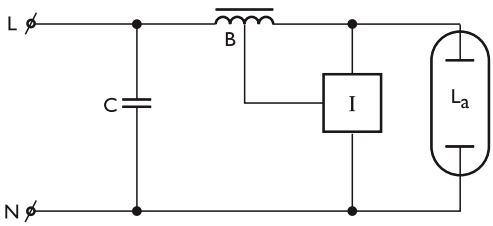
HID-Ignitors SI51, SI54, SX26 & SX72



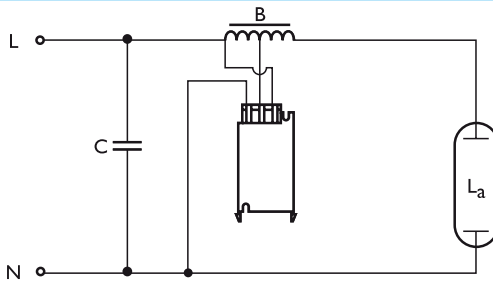
HID-Ignitors SI 52



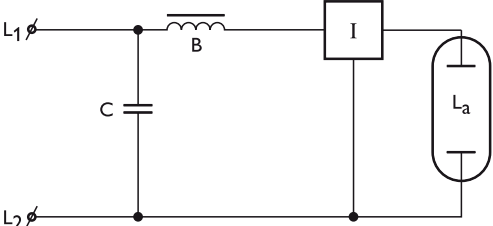
HID-Ignitors SN & SND



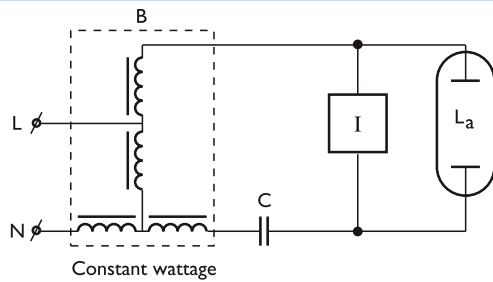
HID-Ignitors SN 61



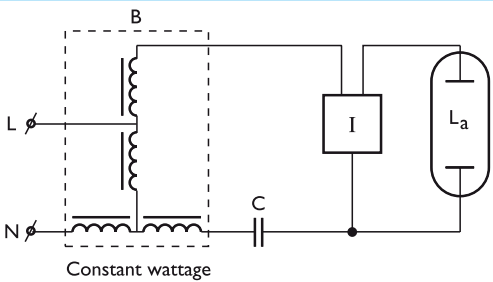
HID-Ignitors SU & SUD



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

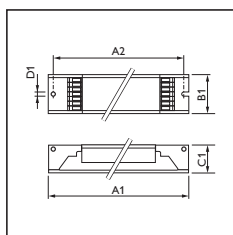
- Lamp power can be regulated from 1% to 100%

- 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		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	151.66
HF-R TD 154 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD154TL5II	909619 30	151.66
HF-R TD 180 TL5/PL-L EII	220-240	50/60	1	UNP / 12	12	HFRTD180TL5II	909657 30	172.35
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	HFTD295120TL5VH	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	172.35
HF-R TD 254 TL5 EII	220-240	50/60	1	UNP / 12	12	HFRTD254TL5II	909633 30	172.35
HF-R TD 280 TL5/PL-L EII	220-240	50/60	4	UNP / 12	12	HFRTD280TL5/PLL	910677 30	177.77
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 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%

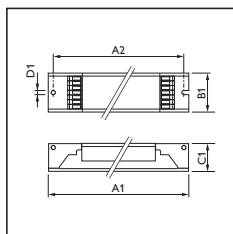
- Flat ballast design, 21 mm high
- Digital control input according to the industry-standard DALI (Digital Addressable Lighting Interface) combined with the Touch and Dim pushbutton protocol
- Increased lamp wire flexibility thanks to the Parasitic Capacitance Compensation (longer lamp wiring possible 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		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	135.10
HF-R TD 158 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD158TLDII	909718 30	135.10
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	158.56
HF-R TD 258 TL-D EII	220-240	50/60	1	UNP / 12	12	HFRTD258TLDII	909732 30	158.56
HF-R TD 418 TL-D EII	220-240	50/60	2	UNP / 10	10	HFRTD418TLDEII	913586 30	207.18



HF-REGULATOR II Touch and DALI for PL-T/-C/-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 incorporates the new Philips EII technology offering full digital input (mains) and output (lamp) management.

Features and Benefits

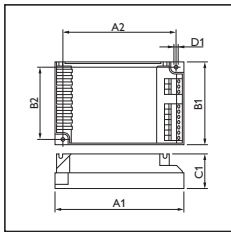
- The lamp power can be regulated from 100 to 1%. *
- Up to 75% reduction in energy consumption can be achieved by using automatic lighting control systems (e.g. Philips ActiLume).
- Quick programmed start: 0.5 sec, flicker-free warm start, preheating the lamp electrodes. This enables the lamps to be 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



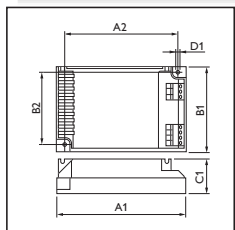
A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
123	111	79	33	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R TD 1 14-17 PL-R EII	220-240	50/60	UNP / 12	12	HFRTD11417PLREI	913494 30	141.86
HF-R TD 1 26-42 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRTD12642PLTCE	913401 30	141.86
HF-R TD 118 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRTD118PLTCEII	913449 30	141.86
HF-R TD 2 14-17 PL-R EII	220-240	50/60	UNP / 12	12	HFRTD21417PLREI	913463 30	166.49
HF-R TD 2 26-42 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRTD22642PLTCE	913371 30	166.49
HF-R TD 218 PL-T/C EII	220-240	50/60	UNP / 12	12	HFRTD218PLTCEII	913425 30	166.49





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

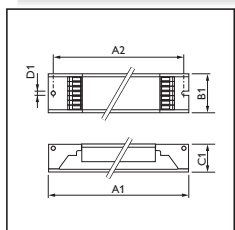
- Up to 60% reduction in energy consumption can be achieved by using automatic lighting control systems
- Smart power: constant light independent of mains voltage fluctuations
- Low energy consumption
- Unit is protected against excessive mains voltages and incorrect connections
- Automatic safety stop 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 (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R DALI 140 TL5C	220-240	50/60	28	UNP / 12	HFRDALI140TL5C	934512 30	150.00

HF-REGULATOR II for TL5 lamps



Dim. no.	A1	A2	B1	C1	D1
nom.	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

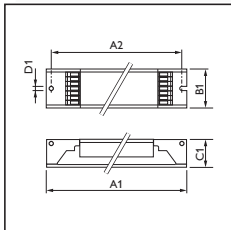
Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-R 1 14-35 TL5 EII	220-240	50/60	1	UNP / 12	HFR11435TL5EII	911803 30	108.57
HF-R 124 TL5/PL-L EII	220-240	50/60	2	UNP / 12	HFR124TL5EII	914668 30	115.09
HF-R 139 TL5 EII	220-240	50/60	2	UNP / 12	HFR139TL5EII	914682 30	115.09
HF-R 149 TL5 EII	220-240	50/60	1	UNP / 12	HFR149TL5II	909985 30	103.40
HF-R 154 TL5 EII	220-240	50/60	1	UNP / 12	HFR154TL5II	910059 30	103.40
HF-R 180 TL5/PL-L EII	220-240	50/60	1	UNP / 12	HFR180TL5/PLL	910110 30	103.40
HF-R 2 14-35 TL5 EII	220-240	50/60	1	UNP / 12	HFR21435TL5EII	911780 30	115.82
HF-R 224 TL5/PL-L EII	220-240	50/60	2	UNP / 12	HFR224TL5EII	914729 30	122.77
HF-R 249 TL5 EII	220-240	50/60	1	UNP / 12	HFR249TL5II	910035 30	110.30
HF-R 254 TL5 EII	220-240	50/60	1	UNP / 12	HFR254TL5II	910080 30	110.30

More data see next page

(continued)

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(V)	(Hz)						
HF-R 280 TL5/PL-L EII	220-240	50/60	3	UNP / 12	12	HFR280TL5/PLL	910653 30	98.64
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

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

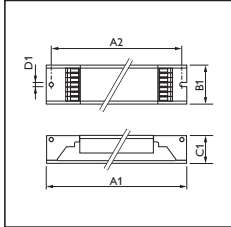
Applications

- 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	Line Frequency	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece
	(V)	(Hz)						
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	HFR136TLDEII	910134 30	103.40
HF-R 158 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR158TLDEII	910172 30	103.40
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	HFR236TLDEII	910158 30	110.30
HF-R 258 TL-D EII	220-240	50/60	1	UNP / 12	12	HFR258TLDEII	910196 30	110.30
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

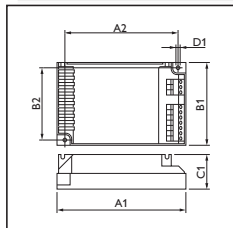
Applications

- 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		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
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	103.40
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	98.64
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



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:

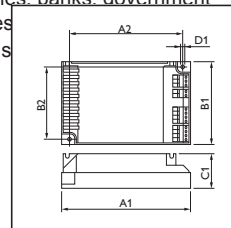
- Lamp power can be regulated down to 3%
- Stable lamp operation
- 1-10V control input (European standard)
- Programmed, flicker-free warm start; ideal for areas with high switching frequency
- Up to 50% longer lamp life than with conventional ballasts

- 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)

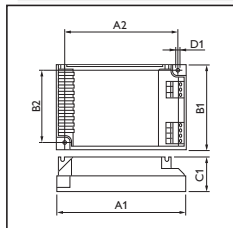
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- Installations with daylight-linked and remote control systems
- Installations with infrared remote control systems
- Conference rooms
- Cinemas
- Department stores, shops, supermarkets
- Office buildings: insurance companies, 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

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration	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-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	National Order Code	Ordering number	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 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

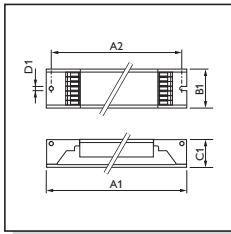
Features and Benefits

- 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		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	HFRTD180TL5II	909657 30	172.35
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	177.77



HF-Performer Intelligent for TL5 HE/HO Lamps



Product Description

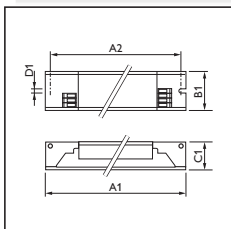
- Intelligent, flat, slim, lightweight high-frequency electronic ballast for TL5 fluorescent lamps

Product Features and Benefits

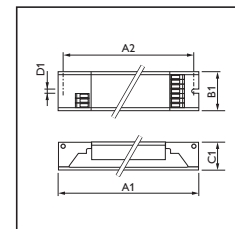
- Unique benefits of the Intelligent technology:
 - Multi-wattage clusters grouped according to the length of T5 lamps leading to higher efficiency in the production of fixtures and logistic processes throughout the value chain
 - Flexibility in choosing lux levels by replacing different wattages once 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

- 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 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	21	4.2
2	360	350	30	22	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
3	425	415	30	21	4.2
4	360	350	30	22	4.2

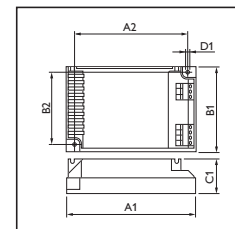
Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-Pi 1 14/21/24/39 TL5 HE/HO	220-240	50/60	34	1	UNP / 12	12	HFP1114212439	912121 30	70.11
HF-Performer Intelligent 1 14/21/24/39 TL5 EII	220-240	50/60	18	2	UNP / 12	12	HFP1114212439	914941 30	70.11
HF-Pi 1 28/35/49/54 TL5 HE/HO	220-240	50/60	34	1	UNP / 12	12	HFP1128354954	912169 30	70.11
HF-Performer Intelligent 1 28/35/49/54 TL5 EII	220-240	50/60	18	2	UNP / 12	12	HFP1128354954	914965 30	70.11
HF-Pi 2 14/21/24/39 TL5 HE/HO	220-240	50/60	26	3	UNP / 12	12	HFP1214212439	912213 30	75.13
HF-Performer Intelligent 2 14/21/24/39 TL5 EII	220-240	50/60	12	4	UNP / 12	12	HFP1214212439	915009 30	75.13
HF-Performer Intelligent 2 28/35/49/54 TL5 EII	220-240	50/60	12	4	UNP / 12	12	HFP1228354954	915023 30	29.70

HF-PERFORMER TL5 Circular



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



A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
103.0	93.5	67.0	57.5	30.0	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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



Product Description

- Second-generation flat, slim, lightweight high-frequency electronic ballast for TL5 fluorescent lamps, based on EII technology

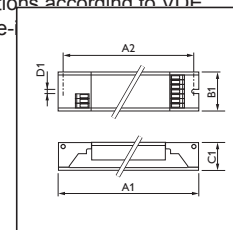
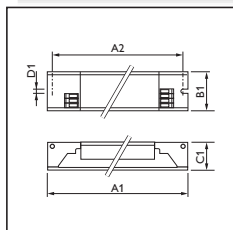
Features and Benefits

- 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 nom.	A2 nom.	B1 nom.	C1 nom.	D1 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

Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 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 (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-P 1 14-35 TL5 HE EII	220-240	50/60	28	1	UNP / 12	HFP114-35TL5HE	928559 30	57.23
HF-P 1 24-39 TL5 HO EII	220-240	50/60	28	1	UNP / 12	HFP124-39TL5HO	928573 30	60.67
HF-P 1 95-120 TL5 EII	220-240	50/60	12	2	UNP / 12	HFP195120TL5VHO	914828 30	91.65
HF-P 149 TL5 HO EII	220-240	50/60	28	1	UNP / 12	HFP149TL5HO	928597 30	60.67
HF-P 154 TL5 HO EII	220-240	50/60	28	1	UNP / 12	HFP154TL5HO	928610 30	60.67
HF-P 180 TL5/PL-L EII	220-240	50/60	12	3	UNP / 12	HFP180TL5PLLEII	002198 30	122.71
HF-P 2 14-35 TL5 HE EII	220-240	50/60	28	4	UNP / 12	HFP214-35TL5EII	910233 30	64.99
HF-P 2 24-39 TL5 HO EII	220-240	50/60	12	4	UNP / 12	HFP224-39TL5EII	910257 30	64.99
HF-P 2 95-120 TL5 EII	220-240	50/60	6	5	UNP / 10	HFP295120TL5VHO	914842 30	134.11
HF-P 249 TL5 HO EII	220-240	50/60	12	4	UNP / 12	HFP249TL5EII	910271 30	64.99
HF-P 254 TL5 HO EII	220-240	50/60	12	4	UNP / 12	HFP254TL5EII	910295 30	64.99
HF-P 280 TL5/PL-L EII	220-240	50/60	12	6	UNP / 12	HFP280TL5PLLEII	060167 30	103.33
HF-P 3/414 TL5 EII	220-240	50/60	28	1	UNP / 12	HFP3414TL5EII	059840 30	108.50
HF-P 3/424 TL5/PL-L EII	220-240	50/60	12	1	UNP / 12	HFP3424TL5EII	907752 30	108.50



HF-Performer II for TL-D Lamps



Features and Benefits:

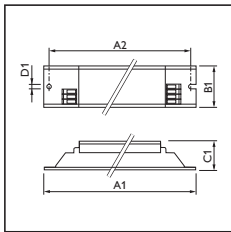
- Ideal for applications with high switching frequency
- Unique benefits of the new Philips EII technology:
 - Miniaturised 280 mm length for total HF-Basic TL-D/PL-L and HF-Performer TL-D range
 - Simplified portfolio allowing flexible, modular luminaire design
 - Cooler product allows more compact 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:

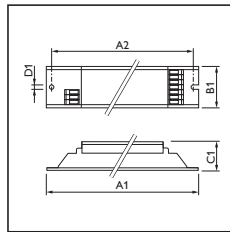
- Suitable for use with infrared remote control systems (e.g. movement detection)
- Department stores, shops, supermarkets, hotels, hospitals, office buildings, industrial premises
- Airports, railway stations
- Outdoor lighting; in general suitable for Class I applications
- Suitable for installations with emergency back-up, according to VDE 0108 with re-ignition <0.5 s

Product Description:

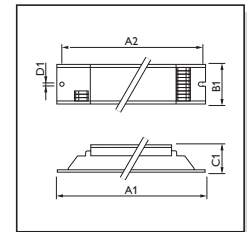
- Second-generation slim, lightweight HF electronic ballasts for TL-D fluorescent lamps, using Philips EII technology




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

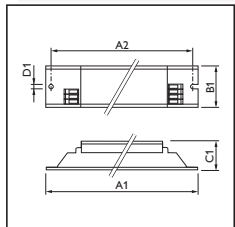


Dim. no.	A1	A2	B1	C1	D1
3	280.0	265.0	39.0	28.0	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration		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 for TL5/TL-D Lamps



Dim. no.	A1	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	nom.
1	360.0	350.0	30.0	28.0	4.2

Product Description

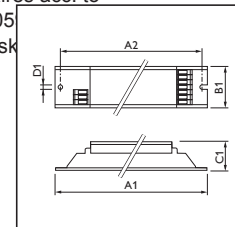
- Long-life, robust, high-frequency electronic ballasts for TL-D fluorescent lamps, based on EII technology

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

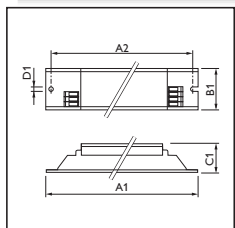
- Warehouses
- Airports, railway stations
- Tunnels, underground stations
- Street lighting
- Supermarkets
- Outdoor lighting
- Suitable for Class I and II applications
- Use with infrared remote control systems (e.g. movement detection)
- Suitable for emergency lighting luminaires acc. to IEC 60521 high-risk



Dim. no.	A1	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	nom.
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 (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-P Xt 136 TL-D EII	220-240	50/60	28	1	UNP / 12	HFPXT136TLEII	912008 30	84.92
HF-P Xt 154 TL5 EII	220-240	50/60	28	1	UNP / 12	HFPXT154TL5EII	914293 30	99.68
HF-P Xt 158 TL-D EII	220-240	50/60	28	1	UNP / 12	HFPXT158TLEII	912046 30	84.92
HF-P Xt 180 TL5 EII	220-240	50/60	12	1	UNP / 12	HFPXT180TL5EII	914408 30	121.68
HF-P Xt 236 TL-D EII	220-240	50/60	12	2	UNP / 12	HFPXT236TLEII	912022 30	94.42
HF-P Xt 249 TL5 EII	220-240	50/60	12	2	UNP / 12	HFPXT249TL5EII	914279 30	115.68
HF-P Xt 254 TL5 EII	220-240	50/60	12	2	UNP / 12	HFPXT254TL5EII	914316 30	115.68
HF-P Xt 258 TL-D EII	220-240	50/60	12	2	UNP / 12	HFPXT258TLEII	912060 30	94.42
HF-P Xt 280 TL5 EII	220-240	50/60	8	3	UNP / 12	HFPXT280TL5EII	914422 30	178.05

HF-Performer II for PL-L Lamps



Dim. no.	A1	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	nom.
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

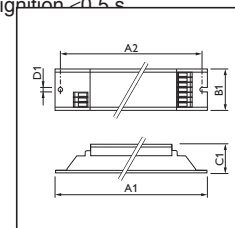
Features and Benefits

- 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
	nom.	nom.	nom.	nom.	nom.
2	280.0	265.0	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	National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (€)
HF-P 136 PL-L EII	220-240	50/60	28	1	UNP / 12	HFP136PLLEII	063700 30	65.22
HF-P 140 PL-L EII	220-240	50/60	28	1	UNP / 12	HFP140PLLEII	063724 30	65.22

More data see next page

(continued)

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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

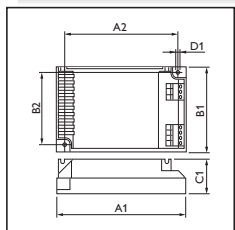
Features and Benefits:

- 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

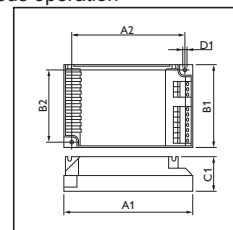
- Up to 25% energy saving at same luminous flux, compared with conventional ballasts
- Constant light independent of mains voltage fluctuations
- Protected against excessive mains voltages
- Automatic stop circuit (safety stop) is activated within 5 seconds in case of lamp failure; ballast resets automatically 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	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.
2	123.0	111.0	79.0	67.0	33.0	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
HF-P 157 PL-T	220-240	50/60	28	1	UNP / 36	36	HFP157PLT	927804 30	91.00
HF-P 257 PL-T	220-240	50/60	10	2	UNP / 12	12	HFP257PLT	934017 30	110.72

HF-Performer II for PL-T/C/R/L/TL5C Lamps



Product Description

- Compact, lightweight high-frequency electronic ballast for PL-T/C/TL5C/R/L fluorescent lamps, based on EII technology

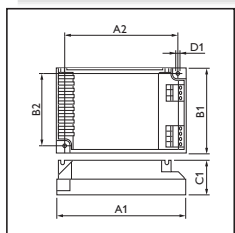
Features and Benefits

- 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

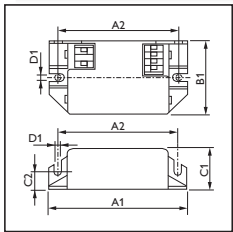


A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
103.0	93.5	67.0	57.5	30.0	4.5



Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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-MatchboxRED



A1	A2	B1	C1	C2	D1
nom.	nom.	nom.	nom.	nom.	nom.
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 then 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

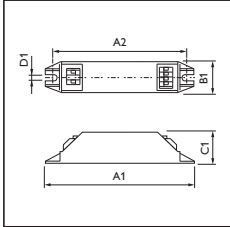
Applications:

- 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 (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	144.0	132.0	22.0	22.0	4.4
2	187.0	176.0	22.0	22.0	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:

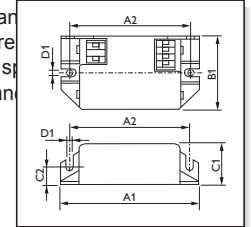
- Instant start: flicker-free starting, ideal for lighting applications with long burning hours and infrequent switching; for optimum lamp life, it is advisable to use HF-MatchboxBLUE ballasts where the lighting is burning continuously for at least 3 hours (3-8 switchings per day), or in residential 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 luminaires require special compliance



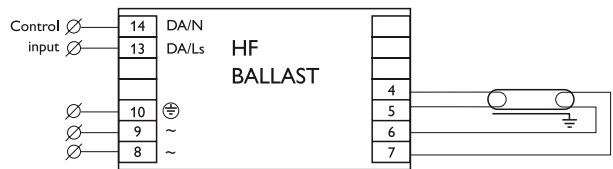
Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	C2 nom.	D1 nom.
3	80.0	70.0	40.0	22.0	10.0	4.4
4	94.0	84.0	40.0	22.0	10.0	4.4

Type	Line Voltage (V)	Line Frequency (Hz)	Maximum ballast number on MCB (x)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
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 109 LH TL/PL-S	230-240	50/60	159	1	UNP / 50	50	HFMBLUE109LH	536808 30	24.24
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

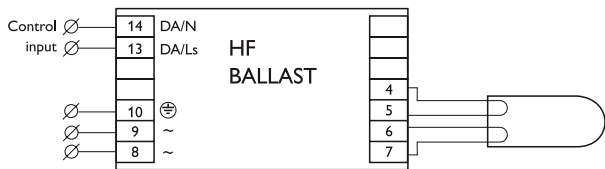


Wiring Diagram

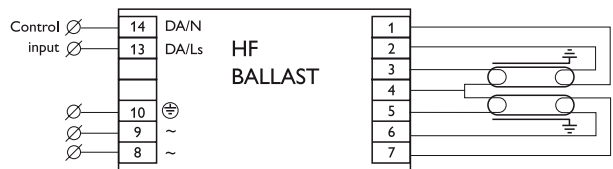
HF-Regulator II Touch and DALI 1xTL5



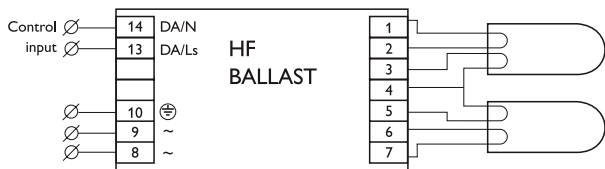
HF-Regulator II Touch and DALI 1xTL5/PL-L



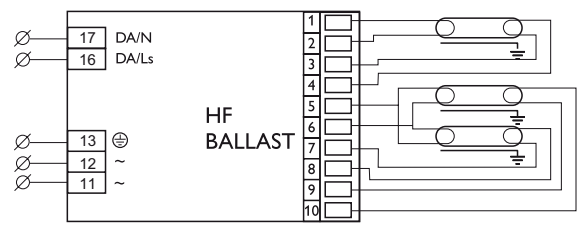
HF-Regulator II Touch and DALI 2xTL5



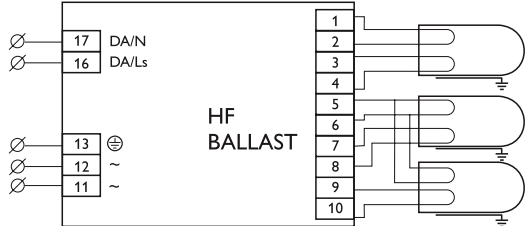
HF-Regulator II Touch and DALI 2xTL5/PL-L



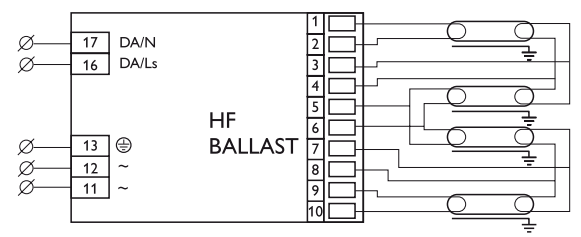
HF-Regulator II Touch and DALI 3xTL5



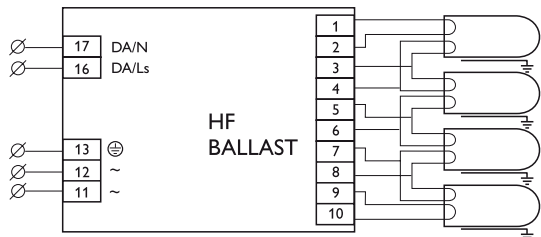
HF-Regulator II Touch and DALI 3xTL5/PL-L



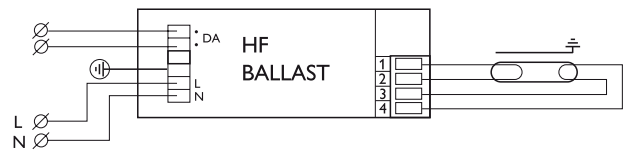
HF-Regulator II Touch and DALI 4xTL5



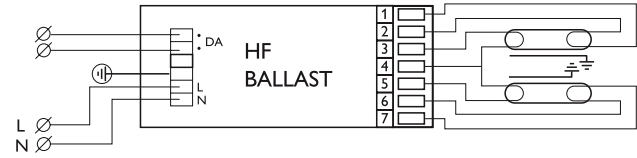
HF-Regulator II Touch and DALI 4xTL5/PL-L



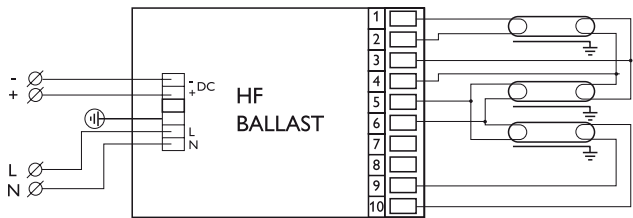
HF-Regulator DALI 1xTL5



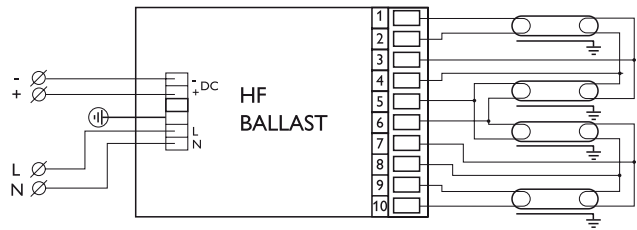
HF-Regulator DALI 2xTL5



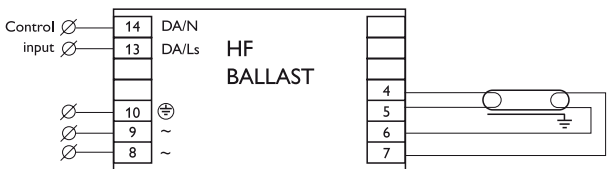
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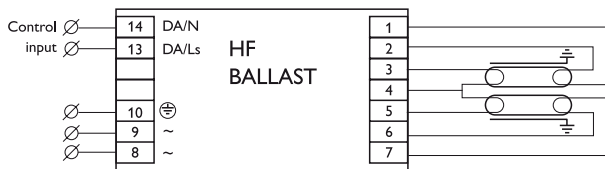
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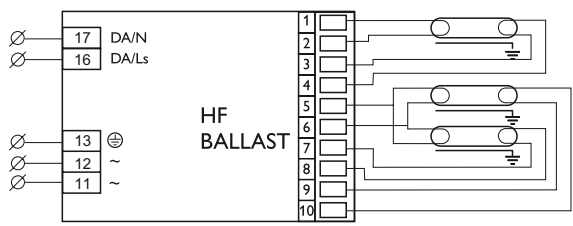
HF-Regulator II Touch and DALI 1xTL-D



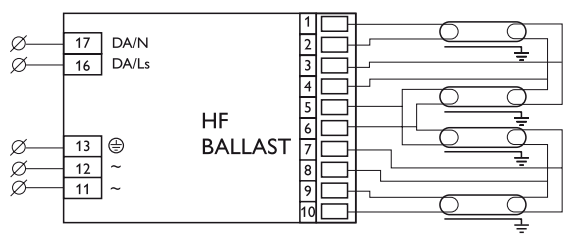
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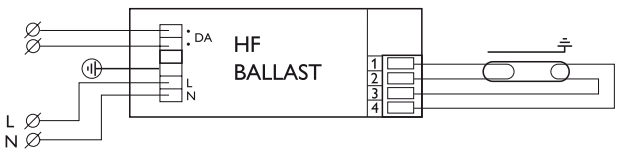
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HF-Regulator II Touch and DALI 4xTL-D



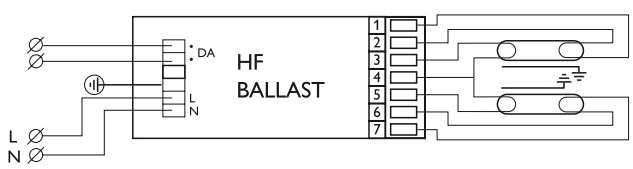
HF-Regulator DALI 1xTL-D



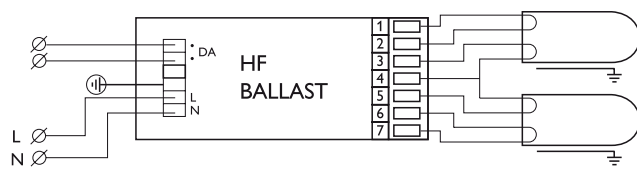
HF-Regulator DALI 1xPL-L



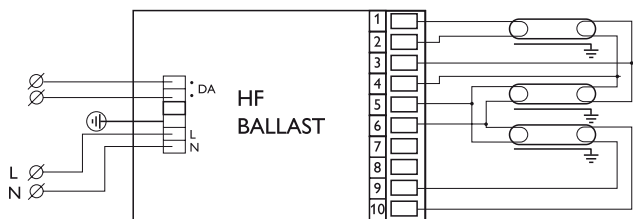
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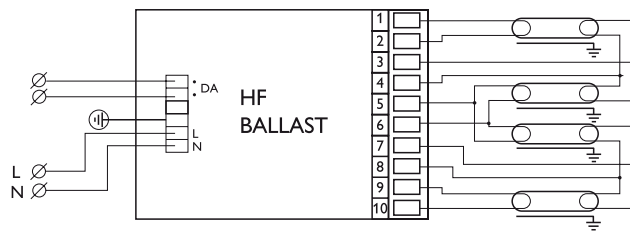
HF-Regulator DALI 2xPL-L



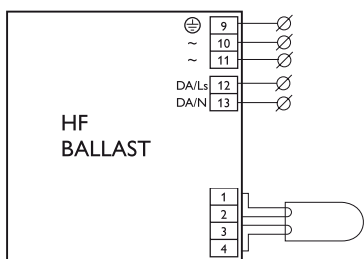
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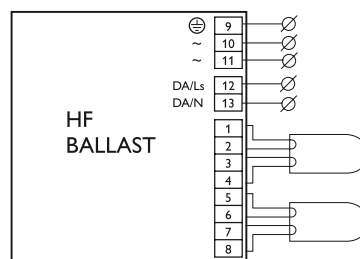
HF-Regulator DALI 4xTL-D



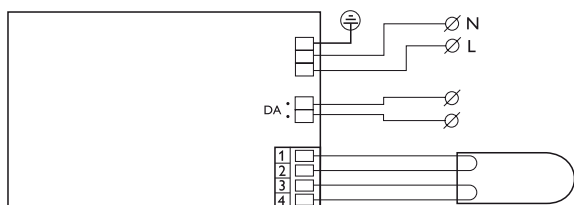
HF-Regulator II Touch and DALI 1xPL-T/PL-C/PL-R



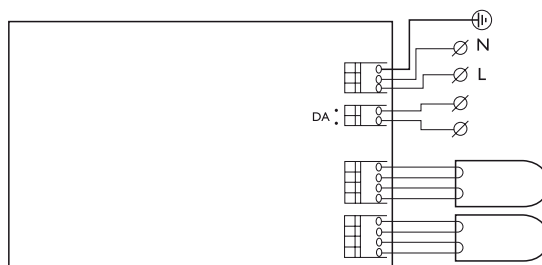
HF-Regulator II Touch and DALI 2xPL-T/PL-C/PL-R



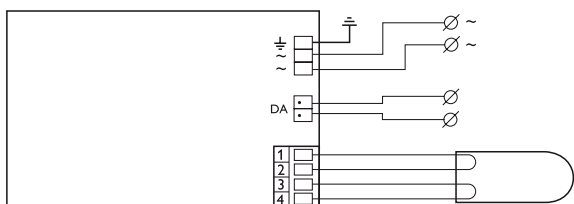
HF-Regulator DALI 1xPL-T/C



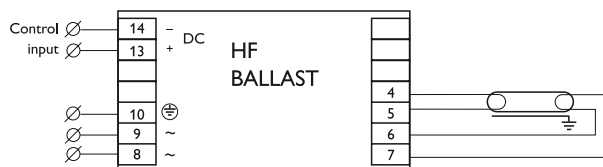
HF-Regulator DALI 2xPL-T/C



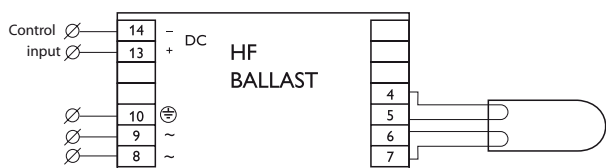
HF-Regulator Touch & Dim/DALI TL5 Circular



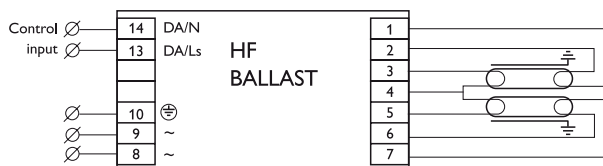
HF-Regulator II 1xTL5/PL-L/TL-D



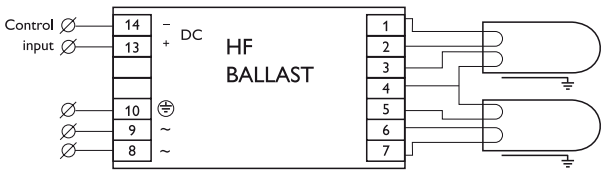
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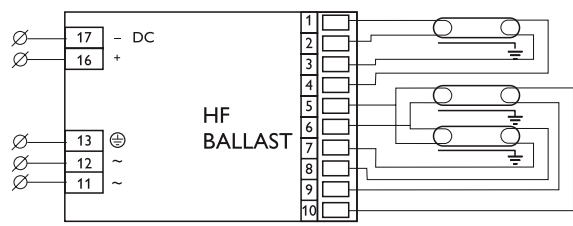
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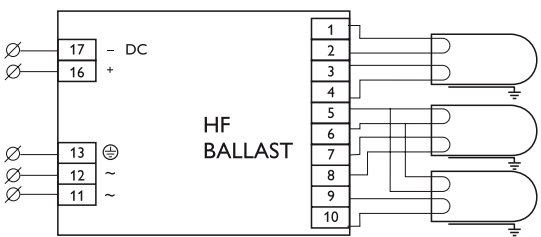
HF-Regulator II 2xTL5/PL-L



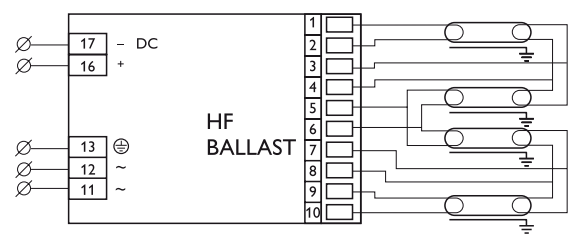
HF-Regulator II 3xTL5/PL-L/TL-D



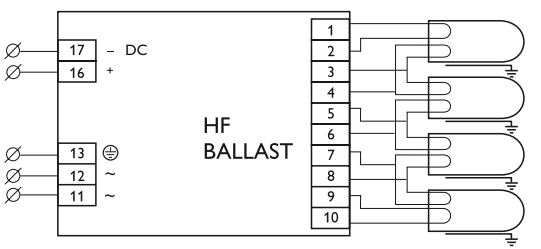
HF-Regulator II 3xTL5/PL-L



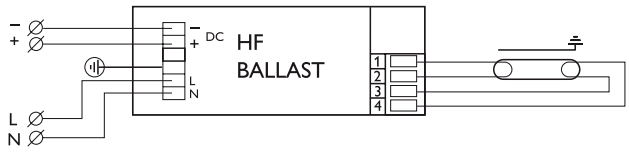
HF-Regulator II 4xTL5/PL-L/TL-D



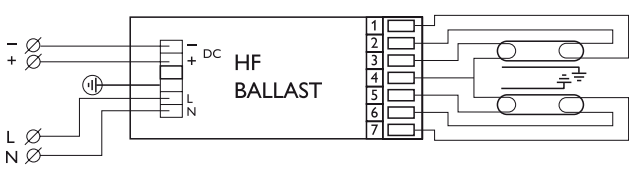
HF-Regulator II 4xTL5/PL-L



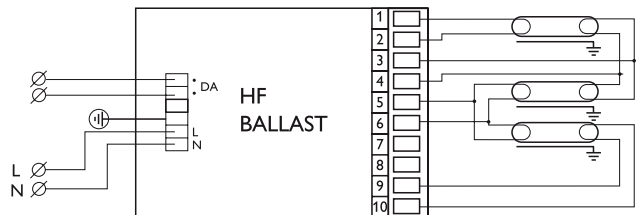
HF-Regulator 1xTL5



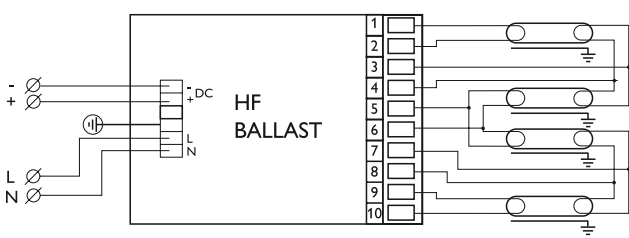
HF-Regulator 2xTL5



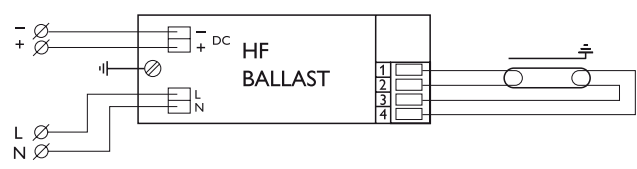
HF-Regulator 3xTL5



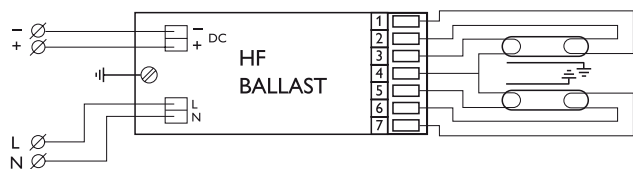
HF-Regulator 4xTL5



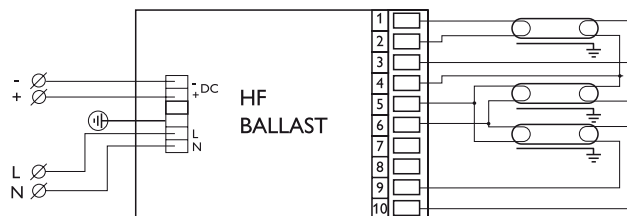
HF-Regulator 1xTL-D



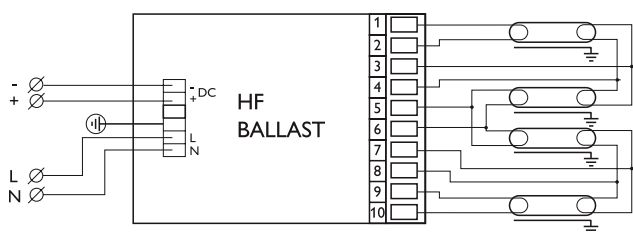
HF-Regulator 2xTL-D



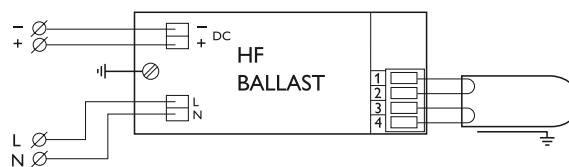
HF-Regulator 3xTL-D



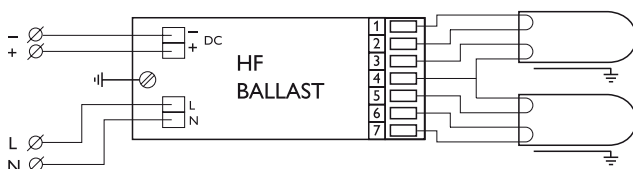
HF-Regulator 4xTL-D



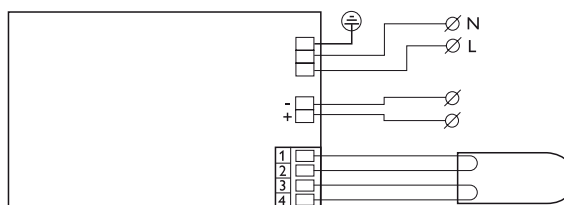
HF-Regulator 1xPL-T/C



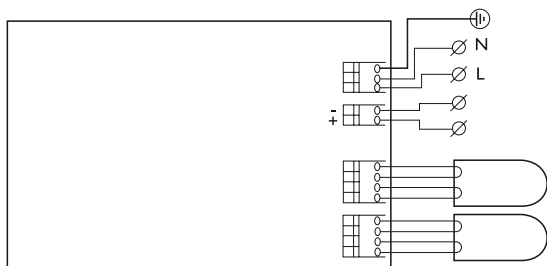
HF-Regulator 2xPL-T/C



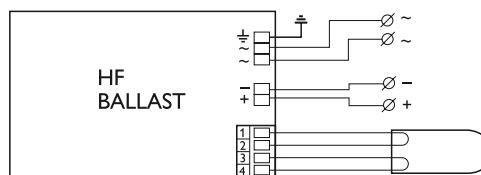
HF-Regulator 1xPL-T/C



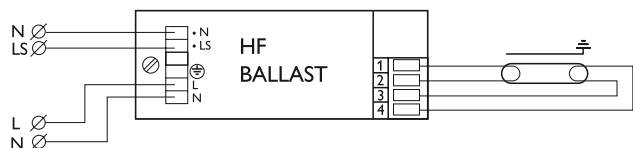
HF-Regulator 2xPL-T/C



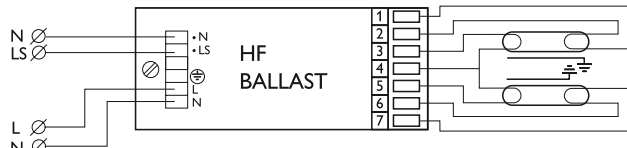
HF-Regulator TL5 Circular



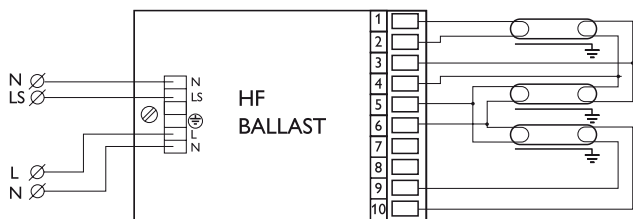
HF-Regulator Touch and Dim 1xTL5/TL-D



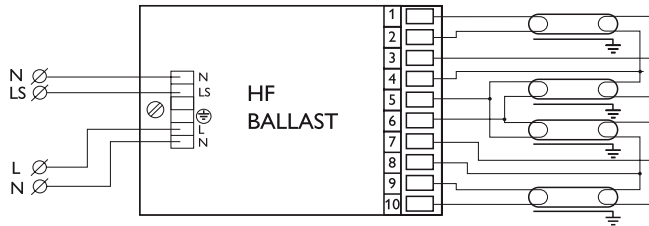
HF-Regulator Touch and Dim 2xTL5/TL-D



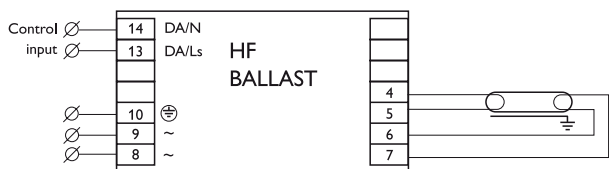
HF-Regulator Touch and Dim 3xTL-D



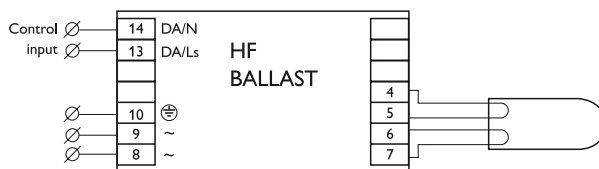
HF-Regulator Touch and Dim 4xTL5/TL-D



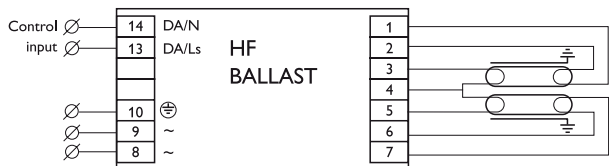
HF-Regulator II Touch and DALI 1xTL5



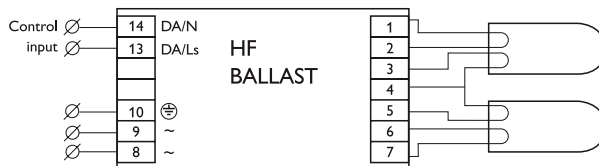
HF-Regulator II Touch and DALI 1xPL-L



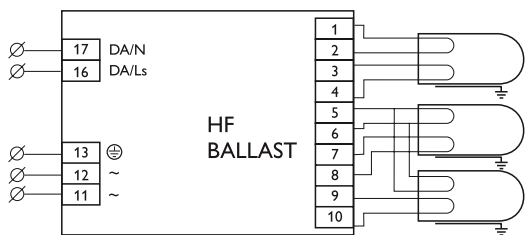
HF-Regulator II Touch and DALI 2xTL5



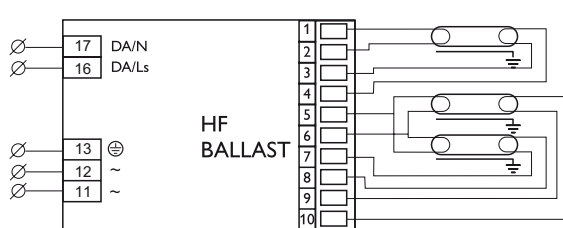
HF-Regulator II Touch and DALI 2xPL-L



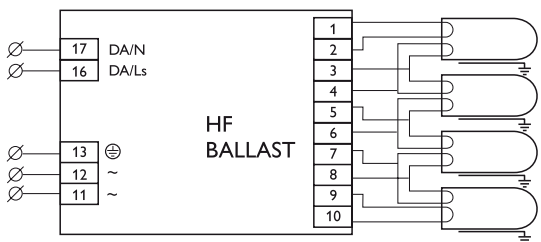
HF-Regulator II Touch and DALI 3xTL5/PL-L



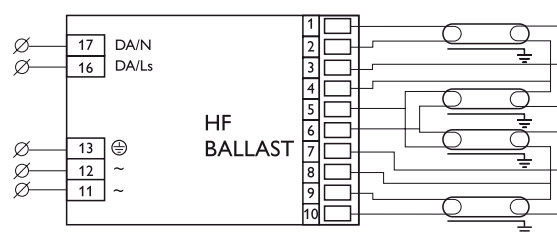
HF-Regulator II Touch and DALI 3xTL5/PL-L



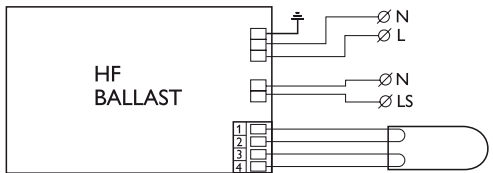
HF-Regulator II Touch and DALI 4xTL5/PL-L



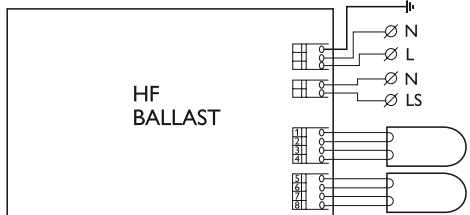
HF-Regulator II Touch and DALI 4xTL5/PL-L



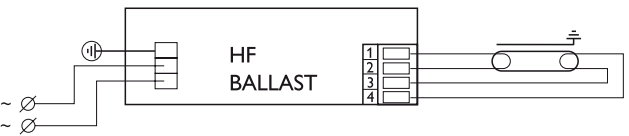
HF-Regulator Touch and Dim 1xPL-T/C



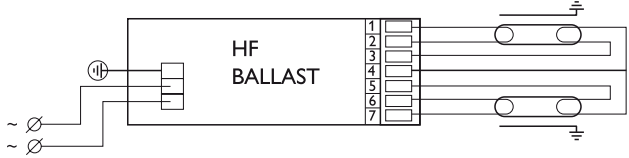
HF-Regulator Touch and Dim 2xPL-T/C



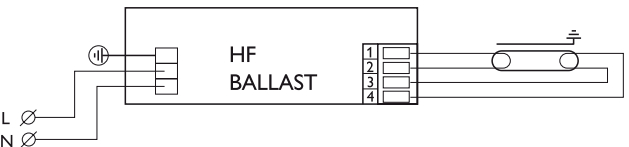
HF-Performer Intelligent 1xTL5 HE/HO



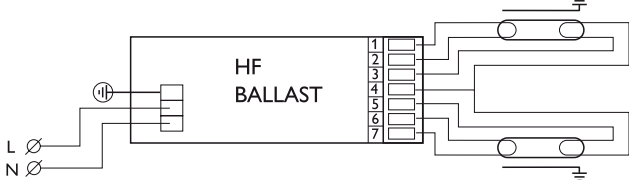
HF-Performer Intelligent 2xTL5 HE/HO



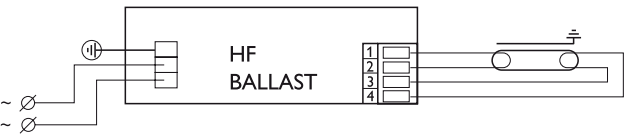
HF-Performer 1xTL5



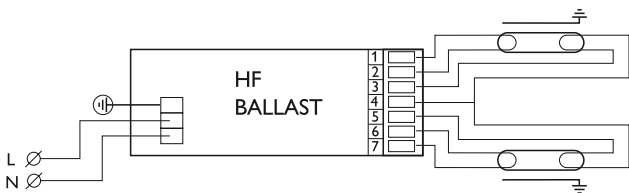
HF-Performer 2xTL5



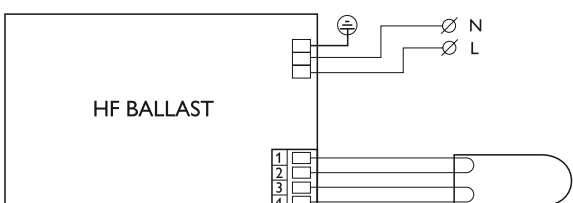
HF-Performer (flat) 1xTL5



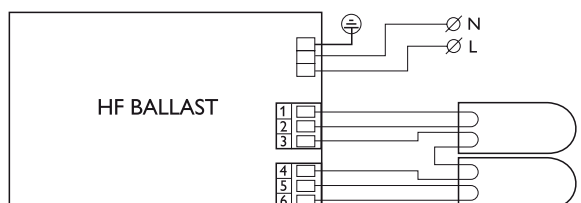
HF-Performer (flat) 2xTL5



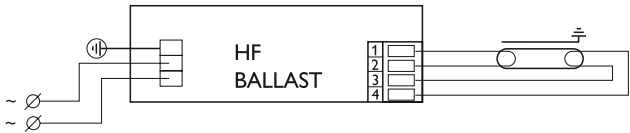
HF-Performer 1xTL5 Circular



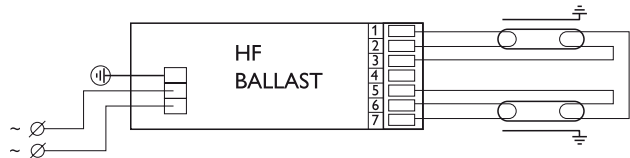
HF-Performer 2xTL5 Circular



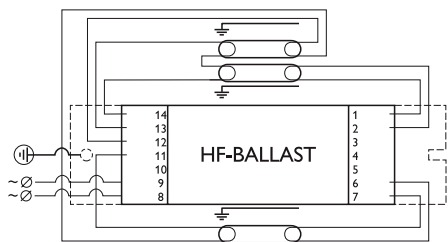
HF-Performer II (flat) 1xTL5



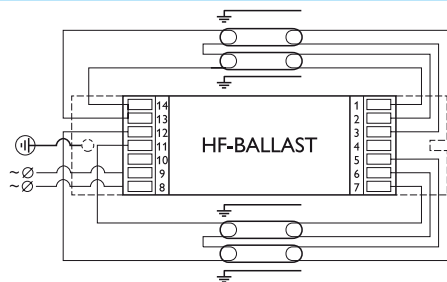
HF-Performer II (flat) 2xTL5



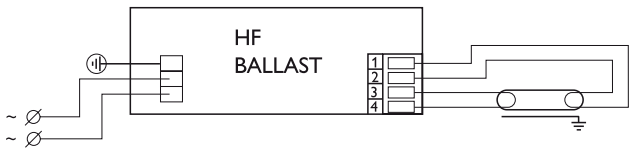
HF-Performer II (flat) 3xTL5/PL-L



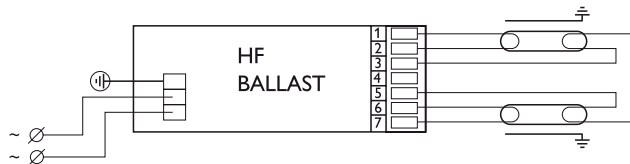
HF-Performer II (flat) 4xTL5/PL-L



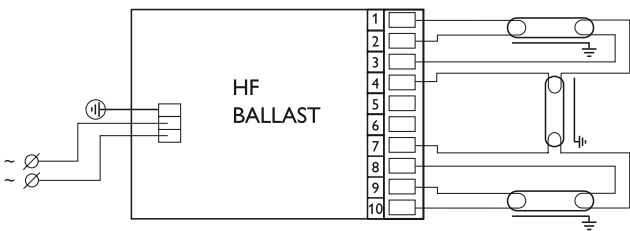
HF-Performer II 1xTL-D



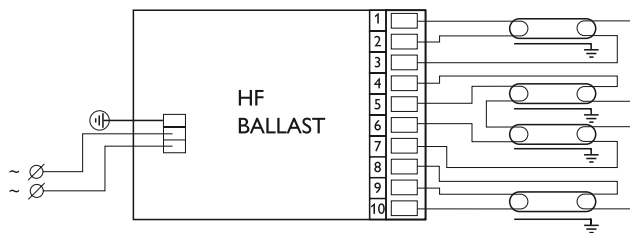
HF-Performer II 2xTL-D



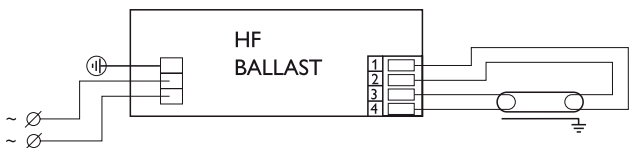
HF-Performer II 3xTL-D



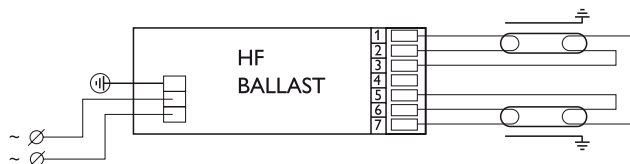
HF-Performer II 4xTL-D



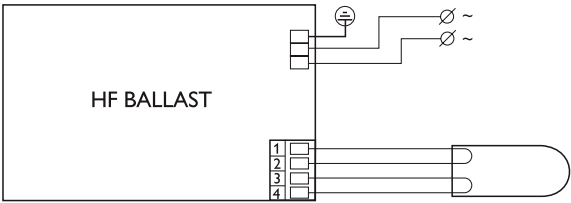
HF-Performer II Xtreme 1xTL5/TL-D



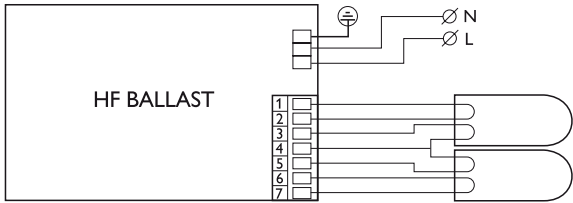
HF-Performer II Xtreme 2xTL5/TL-D



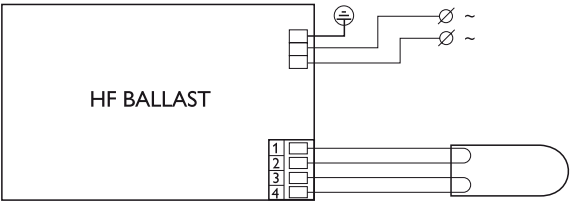
HF-Performer 1xPL-L



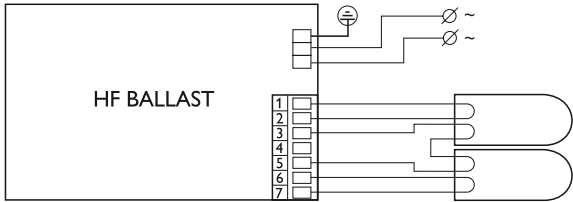
HF-Performer 2xPL-L



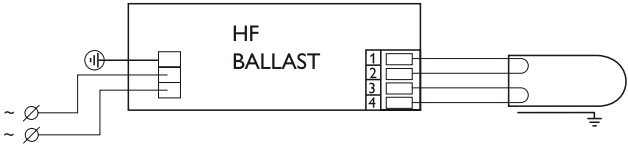
HF-Performer II 1xPL-T/C/R/L/TL5C



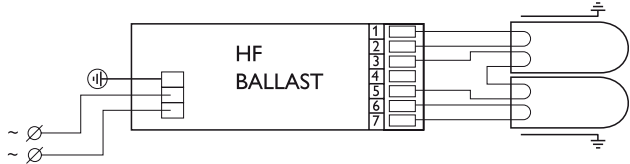
HF-Performer II 2xPL-T/C/R/L/TL5C



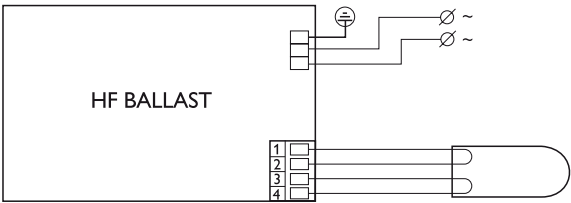
HF-Performer II 1xPL-L



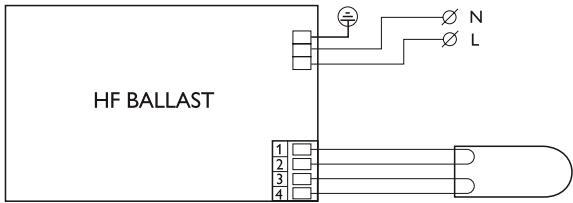
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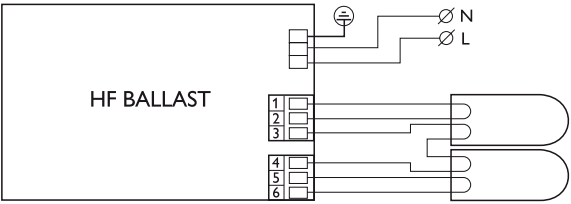
HF-Performer 1xPL-T/C/PL-L



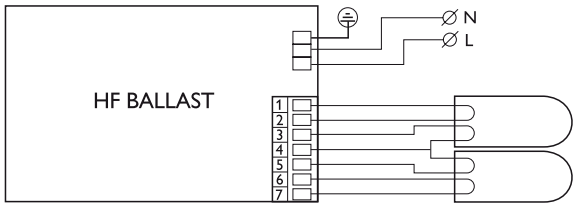
HF-Performer 157 PL-T & 138 PL-Q



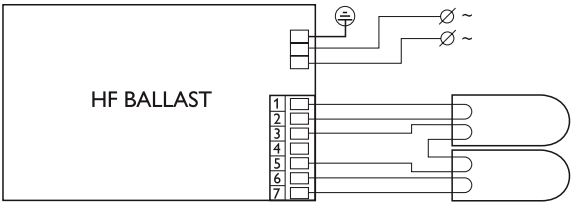
HF-Performer 213 PL-T/C



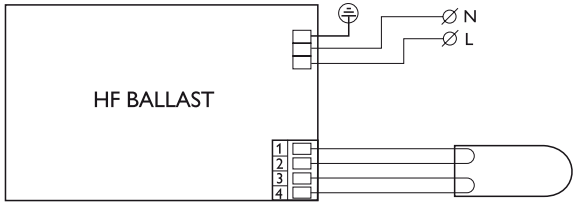
HF-Performer 218 PL-T/C



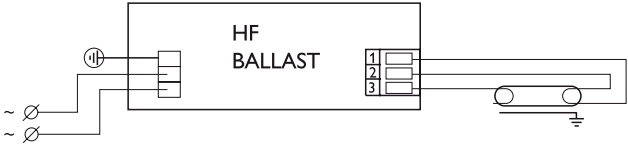
HF-Performer 2 26-42 PL-T/C & 257 PL-T



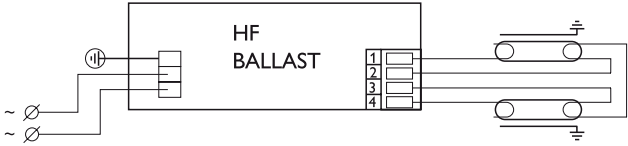
HF-Performer PL-H



HF-BASIC II 1xTL-D



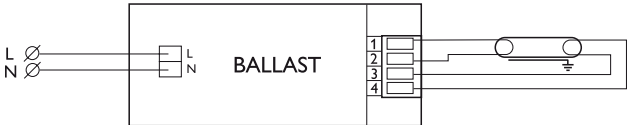
HF-BASIC II 2xTL-D



HF-Matchbox RED



HF-Matchbox Blue



HF-Matchbox Blue



Halogen Electronic Transformer Primaline Halogen Transformers



Product Description

- High-Frequency electronic transformer for operation with 12V halogen lamps, available in 70W, 105W and 150W versions

Features and Benefits

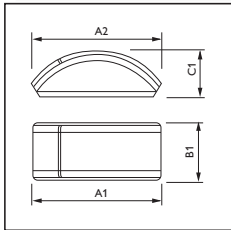
- Fits in smallest downlighting halogen application
- Possibility to connect two lamps for 70W and 105W and to connect 3 lamps for 150W
- Possibility to loop through one transformer to another for the 150W

- 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:

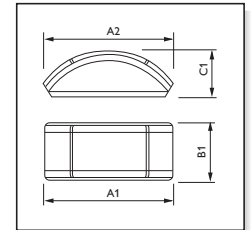
- constant light level in case of undervoltage
- full service life in case of overvoltage

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.
1	110	45	33



Dim. no.	A1 nom.	B1 nom.	C1 nom.
2	145	51	33

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
Primaline 105 50-105	230-240	50/60	1	1CT / 50	50	PLINEHAL105	912688 30	65.43
Primaline 150 70-150	230-240	50/60	2	1CT / 50	50	PLINEHAL150	912701 30	97.57
Primaline 70 35-70	230-240	50/60	1	1CT / 50	50	PRIMALINE 70	912664 30	56.53

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

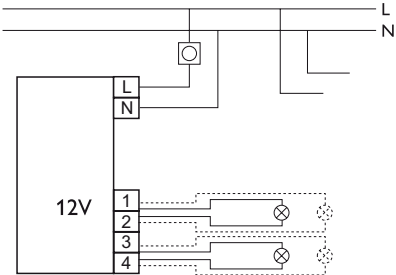
- Indoor residential use including living rooms and decorative and accent lighting
- Professional applications including retail, offices, conference rooms and exhibitions

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
Certaline 60W 20-60	230-240	50/60	1CT / 100	100	CERTALINE60W	913784 30	45.00
Certaline 105W 35-105	230-240	50/60	1CT / 100	100	CERTALINE105W	913807 30	52.00
Certaline 150W 50-150	230-240	50/60	1CT / 50	50	CERTALINE150W	913852 30	80.00

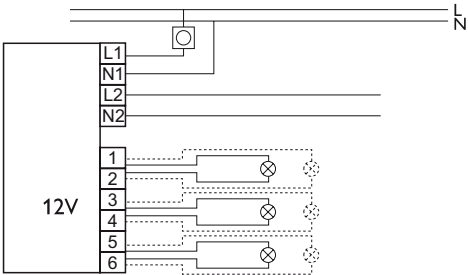


Wiring Diagram

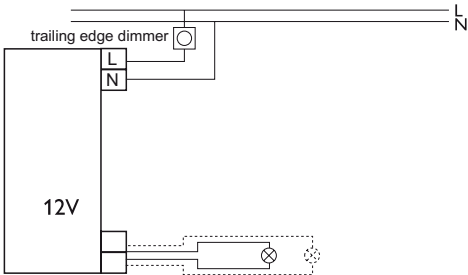
Primaline 70 & 105



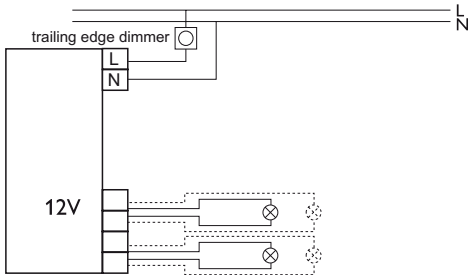
Primaline 150



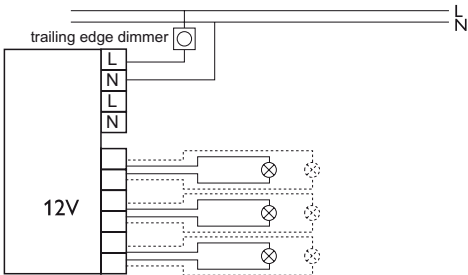
Certaline 60W



Certaline 105W



Certaline 150W



LED Electronic Driver Titanium 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

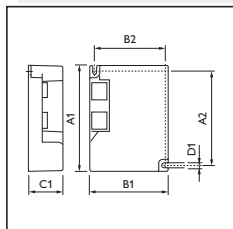
Features and Benefits

- Slim, compact housings (12W and 17W types) – matches spatially unobtrusive LED light sources

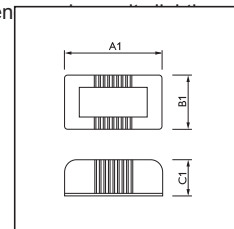
- Insulated construction plus limited output voltage and current for safe operation
- Dimming driver (25W) allows variation of LED output from 5% to 100%

Applications

- Channel letter/contour lighting
- Architectural lighting
- Orientation (path) lighting
- Retail/theme lighting
- Entertainment lighting
- Emergen



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	83.0	73.4	77.0	67.4	33.8	4.4



Dim. no.	A1 nom.	B1 nom.	C1 nom.
2	65.0	35.0	23.0

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number	Nett Trade Price per Piece (£)
LED Driver Indoor 25W/1.05A-24V	230	50	1	UNP / 12	12	XTM25WLED	8711500 927361 30	112.70
LED Driver DIM 25W/1.05A-24V	230	50	1	UNP / 12	12	XTMD25WLED	8711500 927408 30	130.36
LED Driver Indoor 4W/0.35A	100-255	50/60	2	1CT / 100	100	XLPD4W	8710163 062181 30	33.60
LED Driver Indoor 8W/0.70A	100-255	50/60	2	1CT / 100	100	XLPD8W	8710163 062228 30	30.36

Titanium 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

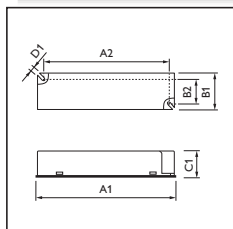
Features and Benefits

- Slim, compact housings (12W and 17W types) – matches spatially unobtrusive LED light sources
- 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

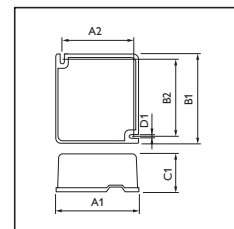
- Insulated construction plus limited output voltage and current for safe operation
- Hazard-free – can be installed in virtually any location

Applications

- Channel letter/contour lighting
- Architectural lighting
- Orientation (path) lighting



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	240.0	225.0	43.2	30.0	29.5	4.4



Dim. no. 2

Commercial product name/Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
LED Driver Outdoor 12W/0.35A-33V 230V						XTM12WLEDIP66	930453 30	103.38
LED Driver Outdoor 17W/0.7A-24V 230V						XTM17WLEDIP66	930958 30	103.38
LED Driver Outdoor 67W/2.80A-24V 230V	230	50	1	UNP / 20	20	XTM67WLEDIP66	931207 30	208.92
LED Driver Outdoor 80W/3.15A-24V 230V	230	50	1	UNP / 20	20	XTM80WLEDIP66	931245 30	273.74
LED Driver Outdoor 40W/1.75A-24V 230V	230	50	2	UNP / 12	12	XTM40WLEDIP66	912732 30	162.06

LED Power Drivers Outdoor



Product Description

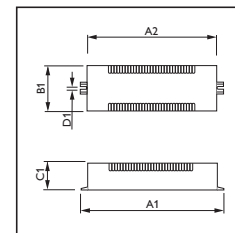
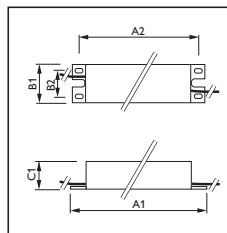
- Power supply for all the Philips LED-based systems, including LED String

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 (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	 National Order Code	Ordering number 8711500...	Nett Trade Price per Piece (£)
LED Power Driver Outd. 100-240V 100W 24V	100-240	50/60	1	UNP / 10	10	LPD-100WLED	911964 30 460.28
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	LPD-60WLED	911469 30 352.59

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

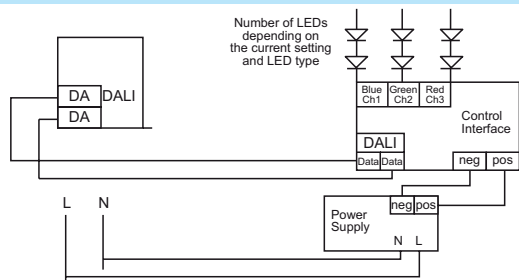
- Ideal for outdoor applications with leds including outdoor residential area lighting, parking lighting, architectural lighting

Commercial product name/Type/Type/Type/Type	National Order Code	Ordering number 8727900...	Nett Trade Price per Piece (£)
Xitanium 150W/700mA-210V Intellivolt	XTM150W700MA	809176 00	233.44

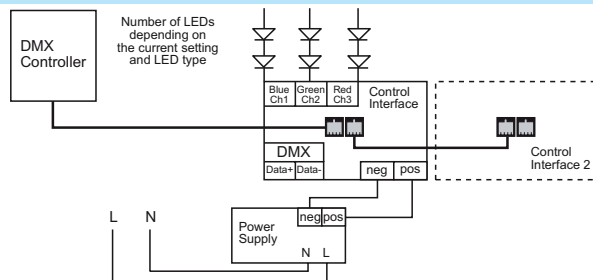


Wiring Diagram

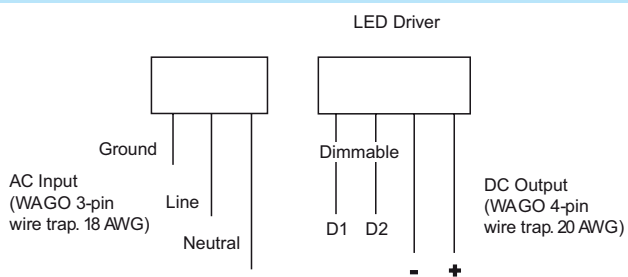
LED CI Ambiscene DALI



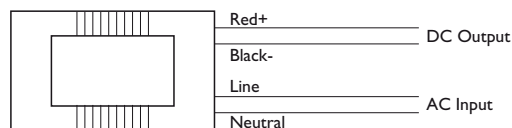
LED CI Ambiscene DMX



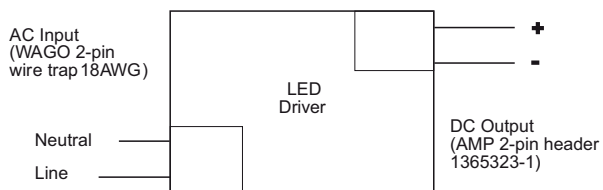
Xitanium LED Driver Indoor 25W



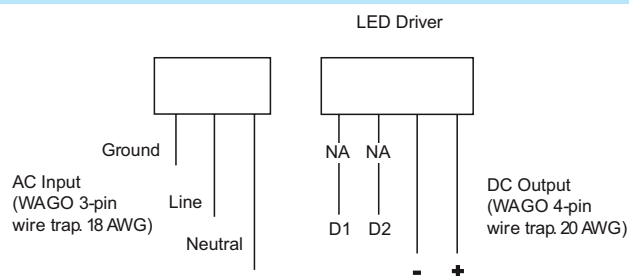
Xitanium LED Driver Indoor 4W & 8W



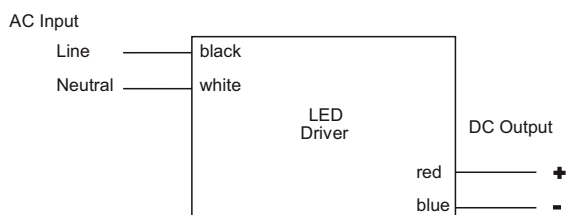
Xitanium LED Driver Indoor 12W & 17W



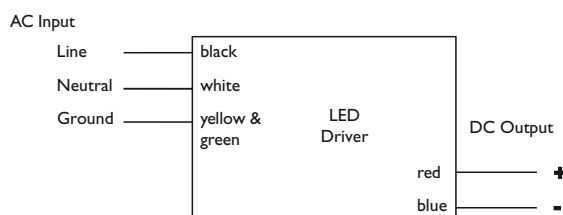
Xitanium LED Driver Indoor 40W



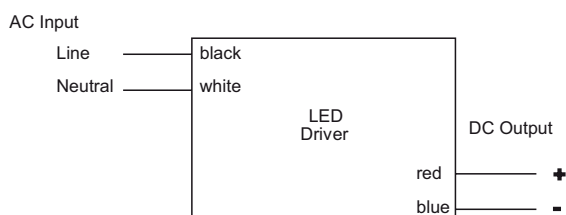
Xitanium LED Driver Outdoor 12W, 17W, 67W & 80W



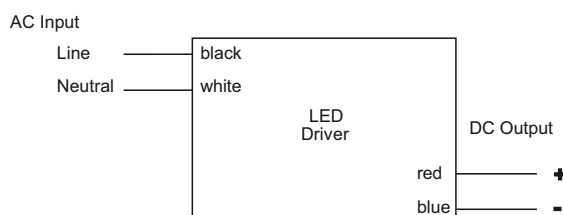
Xitanium LED Driver Outdoor 40W



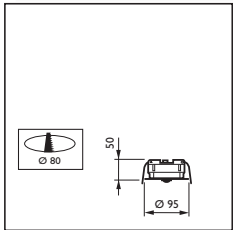
LED Power Driver Outdoor



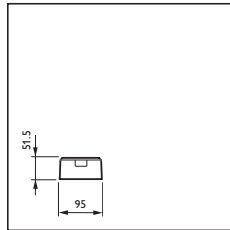
Xitanium LED Driver Outdoor High Efficiency



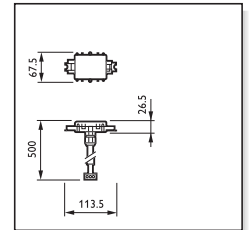
Lighting Controls Occuswitch




Dim. no. 1



Dim. no. 2




Dim. no. 3

Type	Dim. no.		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
LCC1070/00 PIR T-CABLE 3P	1	20	LCC1070/00	731773 99	52.71
LRH1070/00 SENSR SURFACE	2	42	LRH1070/00	731438 99	33.79
LRM1070/00 SENSR MOV DET ST	1	42	LRM1070/00	731384 99	240.57
LRM1080/00 SENSR MOV DET ST IR	3	42	LRM1080/00	731407 99	302.73

General-purpose Products

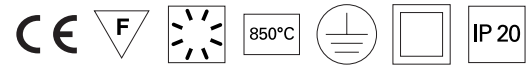


Type	Dim. no.		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
IRT8050/00 TRANSM IR 2KEY WALL	8		IRT8050/00	517070 99	217.80



Luminaires

Downlights Zadora LED, fixed



Zadora LED Fixed – freedom to create

Zadora LED is a range of recessed fixed and adjustable downlights for MASTERLEDspot lamps. They come in ready-to-install KIT versions including the MASTERLEDspot MV lamp. MASTER LEDspot delivers huge energy savings and minimizes maintenance cost without compromising on brightness, enabling owners to achieve a return on their investment within one year.

- Offers significant energy savings compared to halogen
- Easy to install (direct mains connection) and maintain (long lifetime of MASTER LED)
- Easy to order as lamps are included

Type	Colour	Number of Lamps/ Lamp Type	◁ (°)	Colour Temperature (K)	◻	National Order Code	Ordering number 8717943...	Nett Trade Price per Piece (£)
BBG462 LED-25--2700-GU10 7W ALU 50W	Aluminium	x MASTER LED	25	2700 kelvin	36	TRLEDZAD462005	887231 99	58.44
BBG462 LED-25--2700-GU10 7W WH 50W	White	x MASTER LED	25	2700 kelvin	36	TRLEDZAD462001	887194 99	58.44
BBG462 LED-25--4200-GU10 7W ALU 50W	Aluminium	x MASTER LED	25	4200 kelvin	36	TRLEDZAD462006	887248 99	58.44
BBG462 LED-25--4200-GU10 7W WH 50W	White	x MASTER LED	25	4200 kelvin	36	TRLEDZAD462003	887217 99	58.44
BBG462 LED-40--2700-GU10 7W WH 50W	White	x MASTER LED	40	2700 kelvin	36	TRLEDZAD462002	887200 99	58.44
BBG462 LED-40--4200-GU10 7W WH 50W	White	x MASTER LED	40	4200 kelvin	36	TRLEDZAD462004	887224 99	58.44
BBG465 LED-25--3000-GU10 3W ALU 35W	Aluminium	x MASTER LED	25	3000 kelvin	36	TRLEDZAD465002	887835 99	42.86
BBG465 LED-25--3000-GU10 3W WH 35W	White	x MASTER LED	25	3000 kelvin	36	TRLEDZAD465001	887828 99	42.86

Zadora LED, adjustable



Zadora LED Adjustable – freedom to create

Zadora LED is a range of recessed fixed and adjustable downlights for MASTERLEDspot lamps. They come in ready-to-install KIT versions including the MASTERLEDspot MV lamp. MASTER LEDspot delivers huge energy savings and minimizes maintenance cost without compromising on brightness, enabling owners to achieve a return on their investment within one year. The adjustable version offers 30° orientation from the vertical.

- Offers significant energy savings compared to halogen
- Easy to install (direct mains connection) and maintain (long lifetime of MASTER LED)
- Easy to order as lamps are included

Type	Colour	Number of Lamps/ Lamp Type	◁ (°)	Colour Temperature (K)	◻	National Order Code	Ordering number 8717943...	Nett Trade Price per Piece (£)
BBG463 LED-25--2700-GU10 7W ALU 50W	Aluminium	x MASTER LED	25	2700 kelvin	36	TRLEDZAD463005	887293 99	58.44
BBG463 LED-25--2700-GU10 7W WH 50W	White	x MASTER LED	25	2700 kelvin	36	TRLEDZAD463001	887255 99	58.44
BBG463 LED-25--4200-GU10 7W ALU 50W	Aluminium	x MASTER LED	25	4200 kelvin	36	TRLEDZAD463006	887309 99	58.44
BBG463 LED-25--4200-GU10 7W WH 50W	White	x MASTER LED	25	4200 kelvin	36	TRLEDZAD463003	887279 99	58.44
BBG463 LED-40--2700-GU10 7W WH 50W	White	x MASTER LED	40	2700 kelvin	36	TRLEDZAD463002	887262 99	58.44
BBG463 LED-40--4200-GU10 7W WH 50W	White	x MASTER LED	40	4200 kelvin	36	TRLEDZAD463004	887286 99	58.44
BBG466 LED-25--3000-GU10 3W ALU 35W	Aluminium	x MASTER LED	25	3000 kelvin	36	TRLEDZAD465004	887859 99	42.86
BBG466 LED-25--3000-GU10 3W WH 35W	White	x MASTER LED	25	3000 kelvin	36	TRLEDZAD465003	887842 99	42.86

Zadora LED, fire rated





Zadora LED Fire-rated – freedom to create

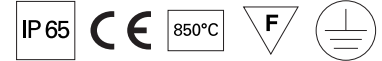
Zadora LED is a range of recessed fixed and adjustable downlights for MASTERLEDspot lamps. They come in ready-to-install KIT versions including the MASTERLEDspot MV lamp. MASTER LEDspot delivers huge energy savings and minimizes maintenance cost without compromising on brightness, enabling owners to achieve a return on their investment within one year.

- Offers significant energy savings compared to halogen
- Easy to install (direct mains connection) and maintain (long lifetime of MASTER LED)
- Easy to order as lamps are included



Type	Colour	Number of Lamps/ Lamp Type	 Colour Temperature		National Order Code	Ordering number 8717943...	Nett Trade Price per Piece (£)	
			(°)	(K)				
BBG464 LED-25--2700-GU10 7W ALU 50W	Aluminium	1 x MASTER LED	25	2700 kelvin	24	TRLEDZAD464005	888313 99	67.50
BBG464 LED-25--2700-GU10 7W WH 50W	White	x MASTER LED	25	2700 kelvin	24	TRLEDZAD464001	888276 99	67.50
BBG464 LED-25--4200-GU10 7W ALU 50W	Aluminium	1 x MASTER LED	25	4200 kelvin	24	TRLEDZAD464006	888320 99	67.50
BBG464 LED-25--4200-GU10 7W WH 50W	White	1 x MASTER LED	25	4200 kelvin	24	TRLEDZAD464003	888290 99	67.50
BBG464 LED-40--2700-GU10 7W WH 50W	White	1 x MASTER LED	40	2700 kelvin	24	TRLEDZAD464002	888283 99	67.50
BBG464 LED-40--4200-GU10 7W WH 50W	White	1 x MASTER LED	40	4200 kelvin	24	TRLEDZAD464004	888306 99	67.50
BBG467 LED-25--3000-GU10 3W ALU 35W	Aluminium	x MASTER LED	25	3000 kelvin	24	TRLEDZAD467002	887958 99	52.44
BBG467 LED-25--3000-GU10 3W WH 35W	White	x MASTER LED	25	3000 kelvin	24	TRLEDZAD467001	887941 99	52.44

Architectural lighting Smart Bollard LED



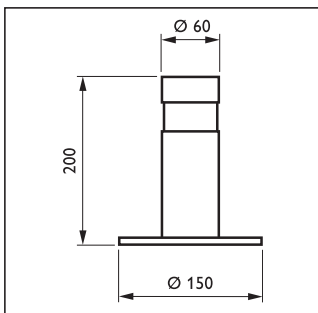
Smart Bollard LED – contemporary city beautification

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

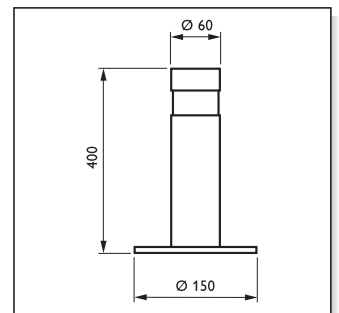
With its smart, elegant design, Smart Bollard LED is suited to a wide range of architectural styles. The integrated wide-voltage driver and provided cabling makes installation easy and safe.

Smart Bollard LED is available in two heights of 400 mm (tall) and 200 mm (short).


- Contemporary city beautification with a smart, elegant design that is suited to a wide range of architectural styles
- Provides lighting levels similar to conventional sources but with a power consumption of only 5 W thanks to three LUXEON® super-bright LEDs
- Maintenance-free operation over entire lifetime, with extremely long-life LEDs and durable aluminum housing with IP65 protection



Dim. no. 1

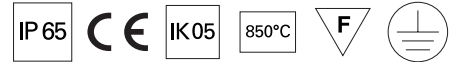


Dim. no. 2

Type	Colour	Number of Lamps/Lamp Type	Dim. no.		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
BCP450 3xLED-HP/CW 5W 100-240V IP65 GR	Grey	3 x LED High Power	1	6	TRLEDBOL450001	812199 99	196.73
BCP455 3xLED-HP/CW 100-240V IP65 GR	Grey	3 x LED High Power	2	4	TRLEDBOL455002	812175 99	223.78



SmartFlood LED



Smart Flood LED – effective, efficient and economical

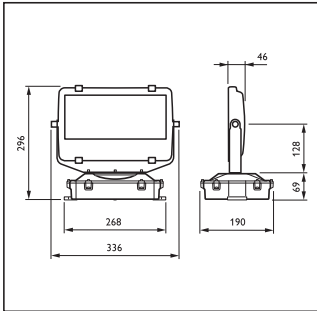
Smart Flood LED is a range of versatile IP65 outdoor floodlights in crisp-white, which is ideal for facade lighting and grazing applications. Equipped with super-bright collimated LEDs for true floodlighting, these compact luminaires are highly efficient, consuming between 16 to 90 W.

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

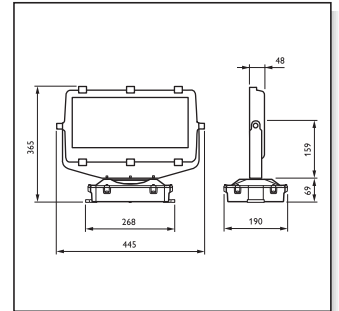
Mounting mechanisms are available on both the luminaire and gear box, enabling remote driving if needed.

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


- Effective, efficient and economical performance with a range of versatile IP65 outdoor floodlights
- Ideal for facade lighting and grazing applications - available in crisp white and dyna-colour versions
- Sleek styling and simple connections enable use in tight spaces; the fixture can easily be adjusted after installation for the right effect at the right place



Dim. no. 1



Dim. no. 2

Type	Colour	Number of Lamps/Lamp Type	Dim. no.		National Order Code	Ordering number 8711559...	Nett Trade Price per Piece (£)
BCP400 36xLED-HB/CW PSU-E 60W GR	Grey	36 x LED High Brightness	1	1	TRLEDFLO400001	812731 00	975.00
BCP400 60xLED-HB/CW PSU-E 100W GR	Grey	60 x LED High Brightness	2	1	TRLEDFLO400002	812755 00	1,457.50



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 quants 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:

UV-C 100 nm – 280 nm

UV-B 280 nm – 315 nm

UV-A 315 nm – 380 nm

Visible radiation:

Light 380 nm – 780 nm

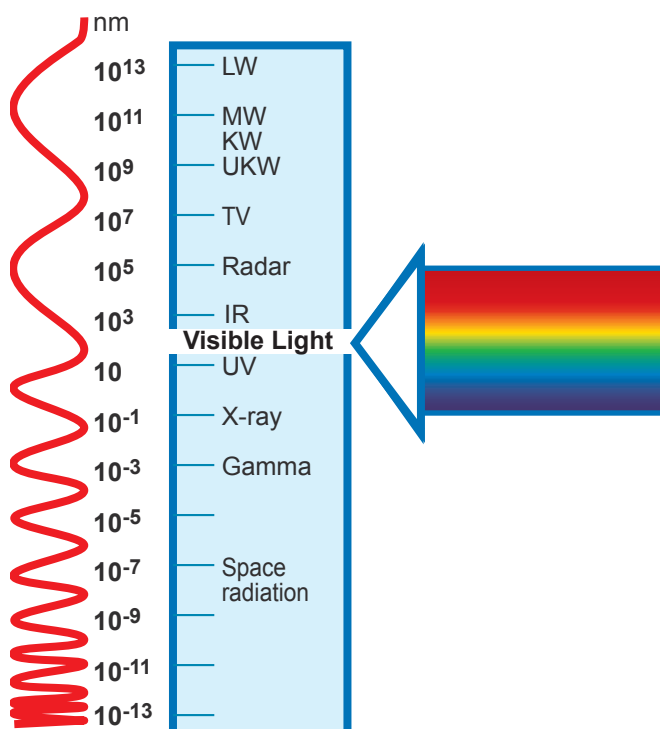
Infrared radiation:

IR-A 780 nm – 1,4 μm

IR-B 1,4 μm – 3,0 μm

IR-C 3,0 μm – 1,0 mm

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

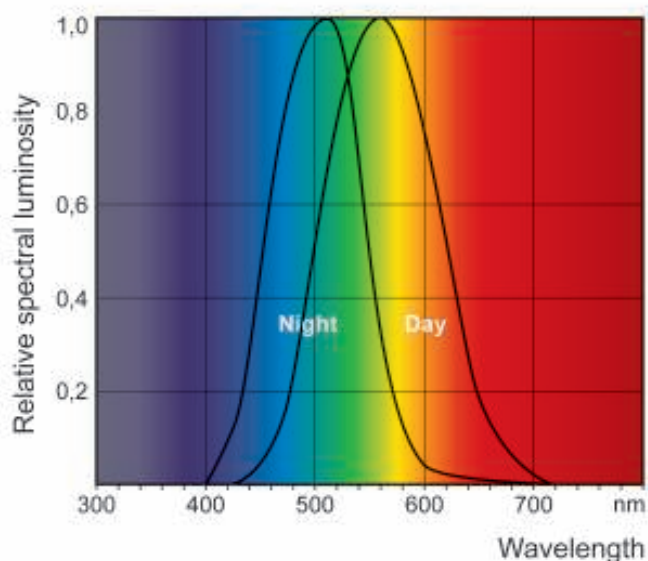
green 495 nm – 566 nm

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.

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:

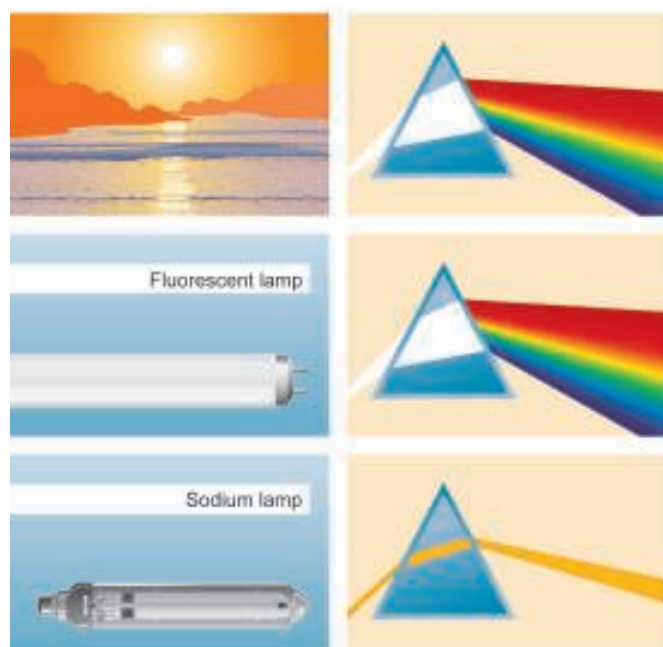
$$FR = 0,02 \times DF \times E \times t$$

FR = Fading risk DF = Damage factor

E = Illuminance (lx) t = Time (hrs)

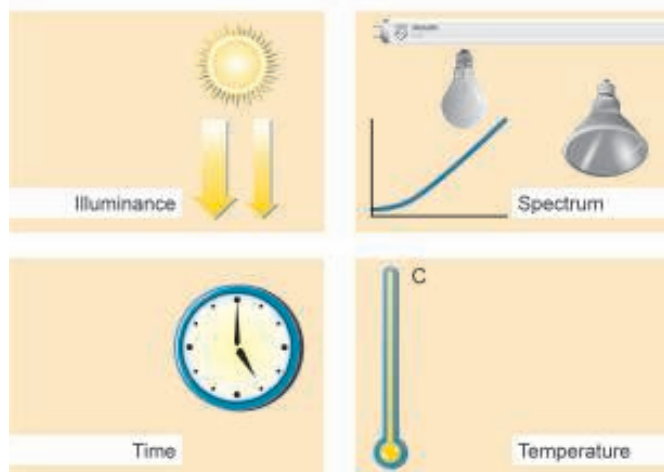
A FR of 100 represents the exposure to light in a shop window during summer with bright sunshine for one hour.

Light Source and Spectrum

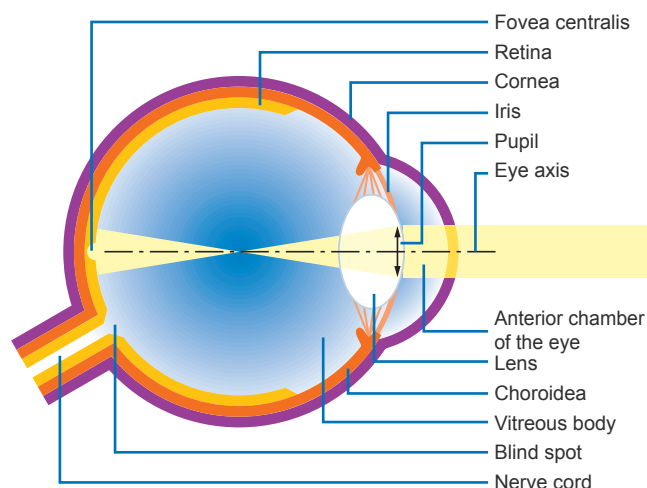


Type of lighting	Damage factor
Daylight through 4 mm window glass	0,43 – 0,68
Incandescent lamps	0,08
Halogen lamps open	0,20
Halogen lamps with envelope or UV block	0,12
SDW-T lamps	0,10
Metal halide lamps open	0,50
Metal halide lamps with envelope	0,25
Light colour fluorescent lamps	
/827	0,20
/830	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:

$$L_c = \frac{L_2 - L_1}{L_1}$$

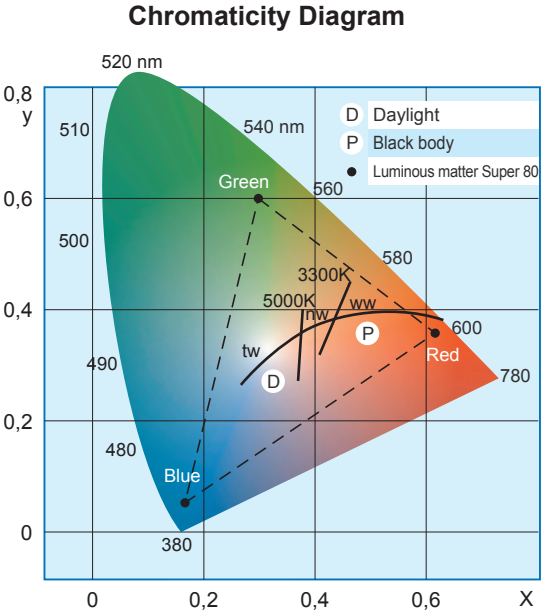
L_1 = Luminance of the background

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.

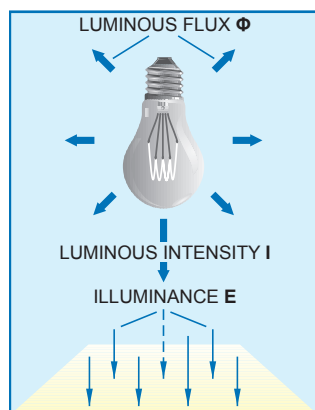
10. Object colours, chromaticity diagram, light colour

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}	$\eta_{LB} = \frac{\Phi_L(t_L)}{\sum \Phi_{Lp}}$	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	$\eta_R = \frac{\Phi_N}{\sum \Phi_L}$	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	$\eta_B = \frac{\Phi_N}{\sum \Phi_{Lp}}$ $\eta_B = \eta_R \cdot \eta_{LB}$	Emitted luminous flux on the utilized area divided by the total flux of all the lamps in a lighting installation

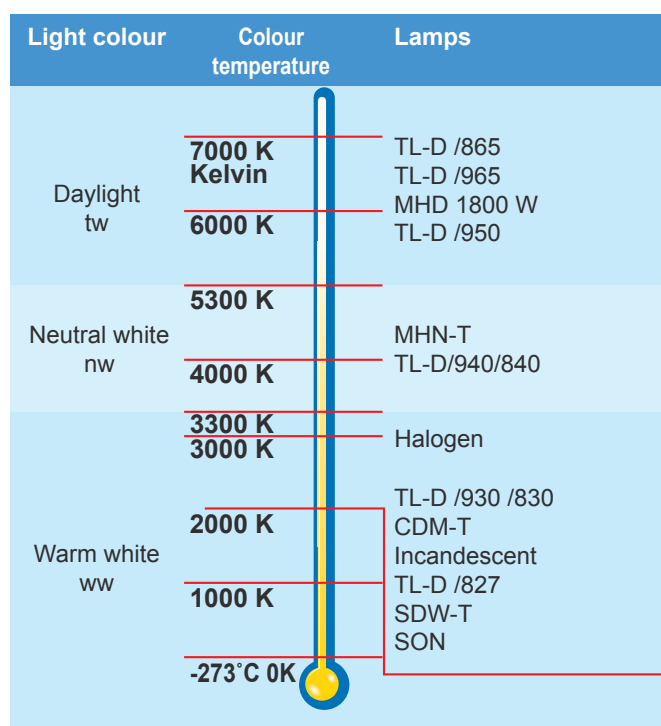
Lighting Technology

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.

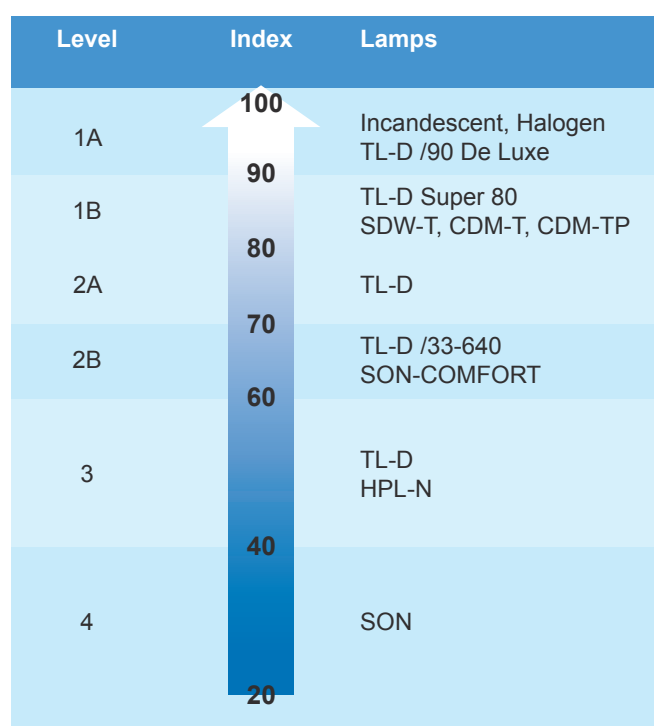
Quality Index — Light Colour



2. Colour rendering

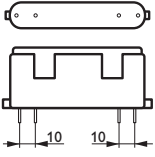
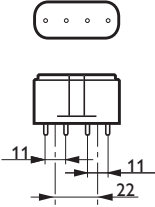
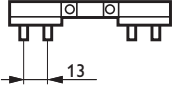
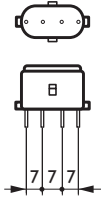
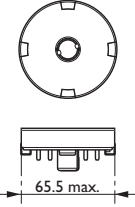
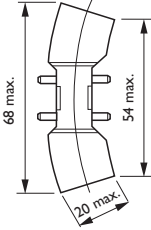

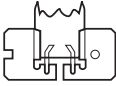
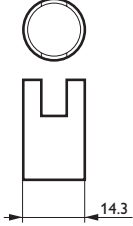


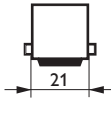

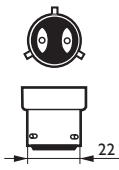
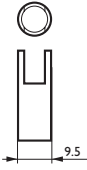
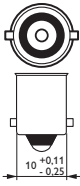



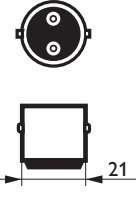

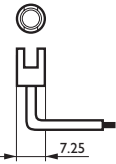
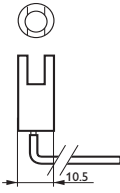
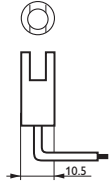
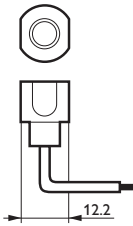
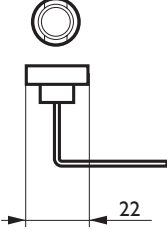
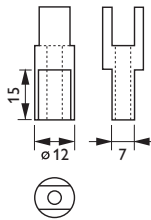
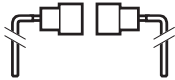


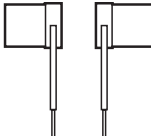
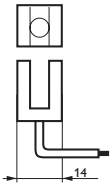
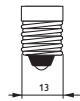
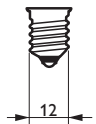
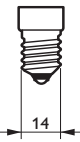


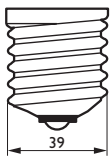
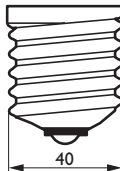
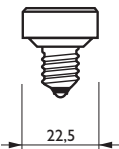


The general colour rendering index R_a , derived from a set of eight test colours taken from everyday life, is used to evaluate the colour rendering characteristics of a lamp. Its theoretical maximum value is 100. The lower the colour rendering index the worse the colour rendering characteristics of 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.

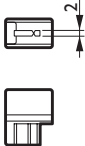
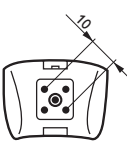
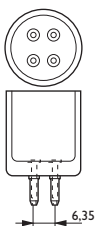
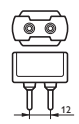
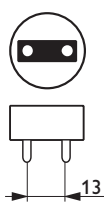

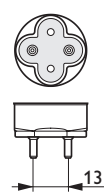
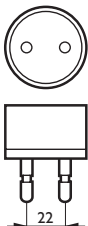
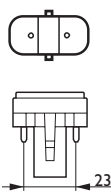
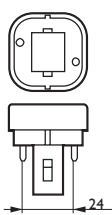
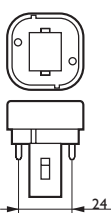
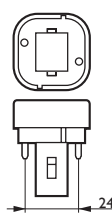
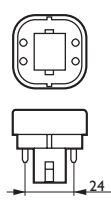
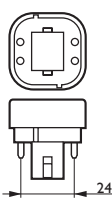
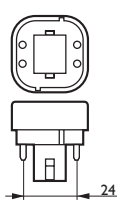
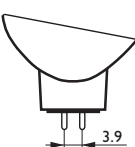

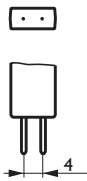
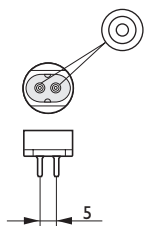
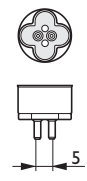

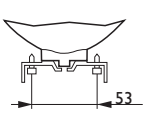

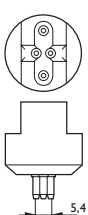
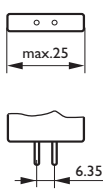
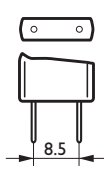
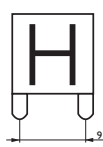
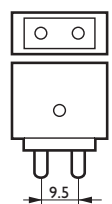
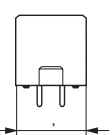
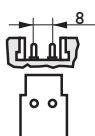
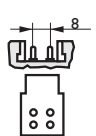
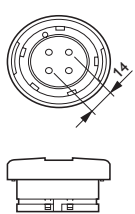

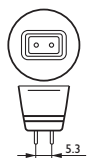
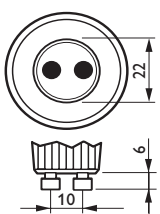
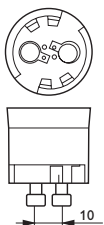
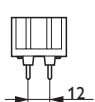
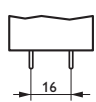
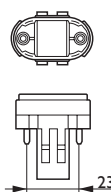
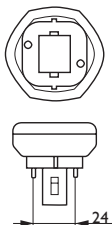
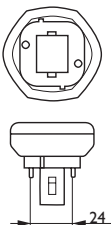
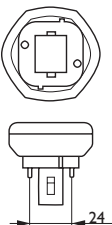
Quality Index — Colour Rendering



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.

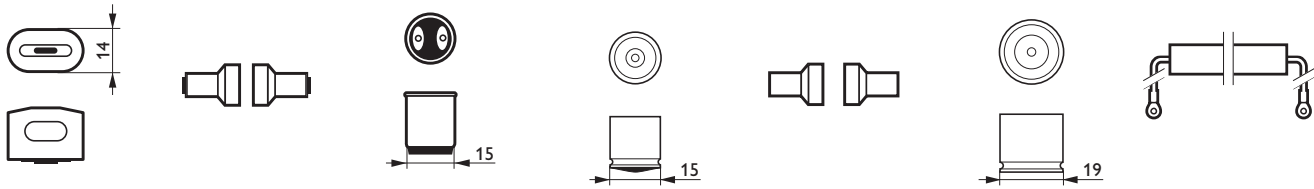
Cap-Base Overview

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
						

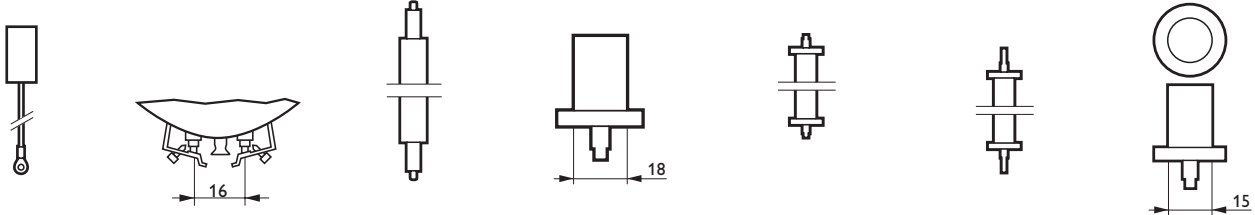
FC2	G10q	G10.2q	G12	G13	G13 TL-D Eco	G13 Xtra/Xtreme
						
G22	G23	G24d-1	G24d-2	G24d-3	G24q-1	G24q-2
						
G24q-3	G3.9	G38	G4	G5	G5 Xtra	G5.3
						
G53	G5.3-4.8	G54x17q	G6.35/GX6.35/GY6.35	G8.5	G9	G9.5
						
GQ9.5	GR8	GR10q	GR14q-1	GU4	GU5.3	GU10
						
GX10	GX12-1	GX16d	GX23	GX24d-1	GX24d-2	GX24d-3
						

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

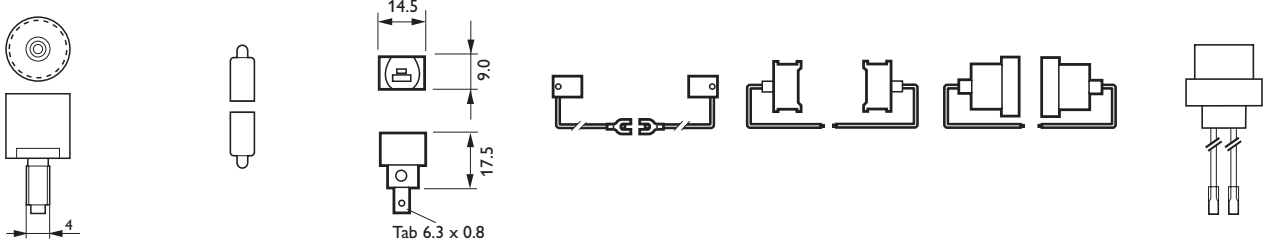
S14s S15 S15d S15s S19 S19s S25.5x60mm



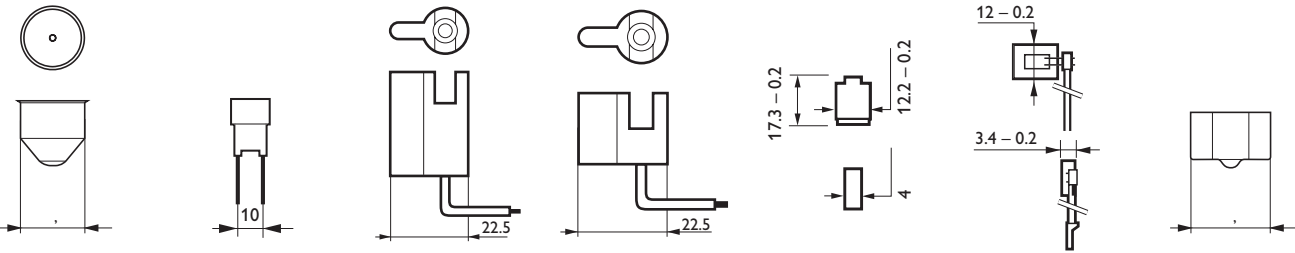
S30x70/SFA7.5-2 Screw Term SFA21-12 SFC18.5-6 SFC10.4 SFC10.4-15.8 SFC15.5-6



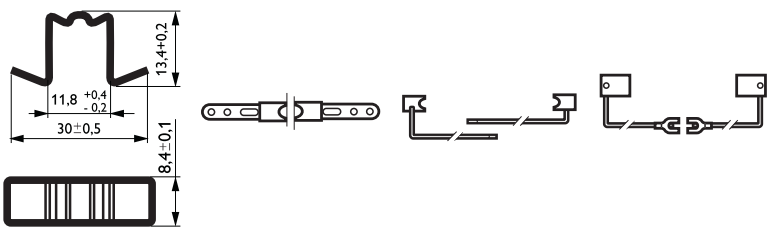
SFC11 Single Pin SK9 SK15 SK32 SK32 28x42 Special



SV8.5 T-Click THS-L THS-S U V/VB W21x95d



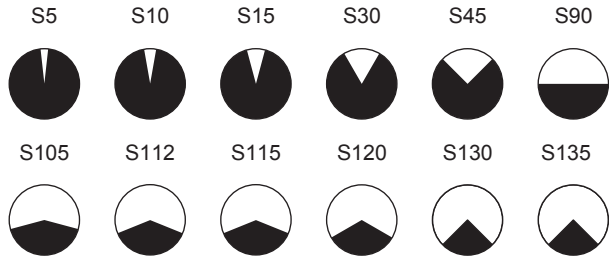
X528 X/X-Clip Y Z



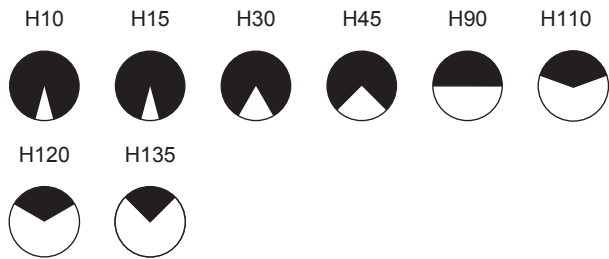
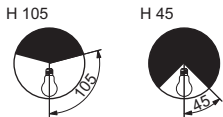
Operating Positions

permitted
 non permitted

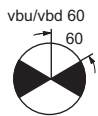
S = vertical (base down)



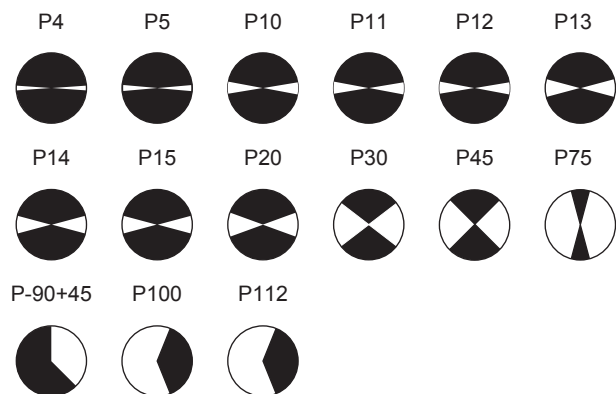
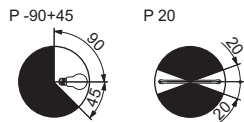
H = vertical (base up)



VBU/VBD = vertical (base up/base down)



P = horizontal



Universal



ILCOS Overview

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FDH-24/65/1B-L/P-G5-16/550	MASTER TL5 HO 24W/865	35
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FDH-35/80/1B-L/P-G5-16/1450	MASTER TL5 HE ActiViva Natural 35W	40
FDH-39/27/1B-L/P-G5-16/850	MASTER TL5 HO 39W/827	35
FDH-39/30/1B-L/P-G5-16/850	MASTER TL5 HO 39W/830	35
FDH-39/40/1B-L/P-G5-16/850	MASTER TL5 HO 39W/840	35
FDH-39/65/1B-L/P-G5-16/850	MASTER TL5 HO 39W/865	35
FDH-49/170/1B-L/P-G5-16/1450	MASTER TL5 HO ActiViva Active 49W	40
FDH-49/27/1B-L/P-G5-16/1450	MASTER TL5 HO 49W/827	35
FDH-49/30/1B-L/P-G5-16/1450	MASTER TL5 HO 49W/830	35
FDH-49/30/1B-L/P-G5-16/1450	MASTER TL5 HO TOP 49W/830	37
FDH-49/30/1B-L/P-G5-16/1450	MASTER TL5 HO Xtra 49W/830	37
FDH-49/35/1B-L/P-G5-16/1450	MASTER TL5 HO 49W/835	35
FDH-49/40/1A-L/P-G5-16/1450	MASTER TL5 HO 90 De Luxe 49W/940	39
FDH-49/40/1B-L/P-G5-16/1450	MASTER TL5 HO 49W/840	35
FDH-49/40/1B-L/P-G5-16/1450	MASTER TL5 HO Secura 49W/840	36
FDH-49/40/1B-L/P-G5-16/1450	MASTER TL5 HO Xtra 49W/840	37
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FDH-49/65/1A-L/P-G5-16/1450	MASTER TL5 HO 90 De Luxe 49W/965	39
FDH-49/65/1B-L/P-G5-16/1450	MASTER TL5 HO 49W/865	35
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FDH-50/30/1B-L/P-G13-26/1500	MASTER TL-D HF Super 80 50W/830	25
FDH-50/40/1B-L/P-G13-26/1500	MASTER TL-D HF Super 80 50W/840	25
FDH-54/170/1B-L/P-G5-16/1150	MASTER TL5 HO ActiViva Active 54W	40
FDH-54/27/1B-L/P-G5-16/1150	MASTER TL5 HO 54W/827	35
FDH-54/30/1B-L/P-G5-16/1150	MASTER TL5 HO 54W/830	35
FDH-54/30/1B-L/P-G5-16/1150	MASTER TL5 HO TOP 54W/830	38
FDH-54/30/1B-L/P-G5-16/1150	MASTER TL5 HO Xtra 54W/830	37
FDH-54/40/1A-L/P-G5-16/1150	MASTER TL5 HO 90 De Luxe 54W/940	39
FDH-54/40/1B-L/P-G5-16/1150	MASTER TL5 HO 54W/840	35
FDH-54/40/1B-L/P-G5-16/1150	MASTER TL5 HO Secura 54W/840	36
FDH-54/40/1B-L/P-G5-16/1150	MASTER TL5 HO TOP 54W/840	38
FDH-54/40/1B-L/P-G5-16/1150	MASTER TL5 HO Xtra 54W/840	37
FDH-54/50/1A-L/P-G5-16/1150	MASTER TL5 HO 90 De Luxe 54W/950	39
FDH-54/65/1A-L/P-G5-16/1150	MASTER TL5 HO 90 De Luxe 54W/965	39
FDH-54/65/1B-L/P-G5-16/1150	MASTER TL5 HO 54W/865	35
FDH-54/80/1B-L/P-G5-16/1150	MASTER TL5 HO ActiViva Natural 54W	40
FDH-54/BLUE/L/P-G5-16/550	MASTER TL5 HO Colored 54W Blue	40
FDH-54/GREEN/L/P-G5-16/550	MASTER TL5 HO Colored 54W Green	40
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FDH-80/30/1B-L/P-G5-16/1450	MASTER TL5 HO Xtra 80W/830	37
FDH-80/40/1B-L/P-G5-16/1450	MASTER TL5 HO 80W/840	35
FDH-80/40/1B-L/P-G5-16/1450	MASTER TL5 HO Secura 80W/840	36
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FSD-24/40/1B-E-2G11	MASTER PL-L Polar 24W/840/4P	69
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FSD-36/30/1B-E-2G11	MASTER PL-L Polar 36W/830/4P	69
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FSD-36/40/1B-E-2G11	MASTER PL-L Xtra 36W/840/4P	70
FSD-36/40/1B-E-2G11	MASTER PL-L Xtra Polar 36W/840/4P	70
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FSD-7/40/1B-I-G23	MASTER PL-S 7W/840/2P	59
FSD-9/27/1B-E-2G7	MASTER PL-S 9W/827/4P	60
FSD-9/27/1B-I-G23	MASTER PL-S 9W/827/2P	59
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FSD-9/40/1B-E-2G7	MASTER PL-S 9W/840/4P	60
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FSDH-40/35/1B-L/P-2G11	MASTER PL-L 40W/835/4P	68
FSDH-40/40/1B-E-2G11	MASTER PL-L Xtra 40W/840/4P	70
FSDH-40/40/1B-L/P-2G11	MASTER PL-L 40W/840/4P	68
FSDH-55/30/1B-L/P-2G11	MASTER PL-L 55W/830/4P	68
FSDH-55/30/1B-L/P-2G11	MASTER PL-L Xtra 55W/830/4P	70
FSDH-55/35/1B-L/P-2G11	MASTER PL-L 55W/835/4P	68
FSDH-55/40/1B-L/P-2G11	MASTER PL-L 55W/840/4P	68
FSDH-55/40/1B-L/P-2G11	MASTER PL-L Polar 55W/840/4P	69
FSDH-55/40/1B-L/P-2G11	MASTER PL-L Xtra 55W/840/4P	70
FSDH-55/40/1B-L/P-2G11	MASTER PL-L Xtra Polar 55W/840/4P	70
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FSM-13/27/1B-I-GX24d=1	MASTER PL-T 13W/827/2P	65
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FSM-13/30/1B-I-GX24d=1	MASTER PL-T 13W/830/2P	64
FSM-13/40/1B-E-GX24q=1	MASTER PL-T 13W/840/4P	65
FSM-13/40/1B-I-GX24d=1	MASTER PL-T 13W/840/2P	64
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FSM-18/27/1B-I-GX24d=2	MASTER PL-T 18W/827/2P	64
FSM-18/30/1B-E-GX24q=2	MASTER PL-T 18W/830/4P	65
FSM-18/30/1B-E-GX24q=2	MASTER PL-T TOP 18W/830/4P	66
FSM-18/30/1B-I-GX24d=2	MASTER PL-T 18W/830/2P	64
FSM-18/40/1B-E-GX24q=2	MASTER PL-T 18W/840/4P	65
FSM-18/40/1B-E-GX24q=2	MASTER PL-T TOP 18W/840/4P	66
FSM-18/40/1B-I-GX24d=2	MASTER PL-T 18W/840/2P	64
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FSM-26/27/1B-I-GX24d=3	MASTER PL-T 26W/827/2P	64
FSM-26/30/1B-E-GX24q=3	MASTER PL-T 26W/830/4P	65
FSM-26/30/1B-E-GX24q=3	MASTER PL-T TOP 26W/830/4P	66
FSM-26/30/1B-I-GX24d=3	MASTER PL-T 26W/830/2P	64
FSM-26/40/1B-E-GX24q=3	MASTER PL-T 26W/840/4P	65
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FSM6H-17/30/1B-L/P-GR14q=1	MASTER PL-R Eco 17W/830/4P	58
FSM6H-17/40/1B-L/P-GR14q=1	MASTER PL-R Eco 17W/840/4P	58
FSM6H-57/27/1B-L/P-GX24q=5	MASTER PL-T 57W/827/4P	65
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FSM6H-57/30/1B-L/P-GX24q=5	MASTER PL-T 57W/830/4P	65
FSM6H-57/30/1B-L/P-GX24q=5	MASTER PL-T TOP 57W/830/4P	66
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FSM6H-60/40/1B-L/P-2G8=1	MASTER PL-H 60W/840/4P	71
FSM6H-85/30/1B-L/P-2G8=1	MASTER PL-H 85W/830/4P	71
FSM6H-85/40/1B-L/P-2G8=1	MASTER PL-H 85W/840/4P	71
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FSMH-32/30/1B-L/P-GX24q=3	MASTER PL-T Xtra 32W/830/4P	67
FSMH-32/40/1B-L/P-GX24q=3	MASTER PL-T TOP 32W/840/4P	66
FSMH-32/40/1B-L/P-GX24q=3	MASTER PL-T Xtra 32W/840/4P	67
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FSMH-42/27/1B-L/P-GX24q=4	MASTER PL-T TOP 42W/827/4P	66
FSMH-42/30/1B-L/P-GX24q=4	MASTER PL-T 42W/830/4P	65
FSMH-42/30/1B-L/P-GX24q=4	MASTER PL-T TOP 42W/830/4P	66
FSMH-42/30/1B-L/P-GX24q=4	MASTER PL-T Xtra 42W/830/4P	67
FSMH-42/40/1B-L/P-GX24q=4	MASTER PL-T TOP 42W/840/4P	66
FSMH-42/40/1B-L/P-GX24q=4	MASTER PL-T Xtra 42W/840/4P	67
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FSQ-10/30/1B-I-G24d=1	MASTER PL-C 10W/830/2P	61
FSQ-10/40/1B-E-G24q=1	MASTER PL-C 10W/840/4P	62
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FSQ-18/30/1B-E-G24q=2	MASTER PL-C 18W/830/4P	62
FSQ-18/30/1B-I-G24d=2	MASTER PL-C 18W/830/2P	61
FSQ-18/30/1B-I-G24d=2	MASTER PL-C Xtra 18W/830/2P	63
FSQ-18/35/1B-I-G24d=2	MASTER PL-C 18W/835/2P	61
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FSQ-18/40/1B-I-G24d=2	MASTER PL-C 18W/840/2P	61
FSQ-18/40/1B-I-G24d=2	MASTER PL-C Xtra 18W/840/2P	63
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FSQ-26/30/1B-I-G24d=3	MASTER PL-C Xtra 26W/830/2P	63
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FSQ-26/35/1B-I-G24d=3	MASTER PL-C 26W/835/2P	61
FSQ-26/40/1B-E-G24q=3	MASTER PL-C 26W/840/4P	62
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FSQ-26/40/1B-I-G24d=3	MASTER PL-C Xtra 26W/840/2P	63
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HAGS-35-12-GU5.3-50/36	Brilliantline Alu 35W GU5.3 12V MR16 36D	120
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MT-35/30/1A-H-G8.5	MASTERCouleur CDM-TC 35W/830 G8.5	79
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MT-35/30/1B-H-G8.5	MASTERCouleur CDM-TC Elite 35W/930 G8.5	76
MT-35/42/1A-H-G12	MASTERCouleur CDM-TC 35W/942 G12	78
MT-35/42/1B-H-G8.5	MASTERCouleur CDM-TC 35W/942 G8.5	79
MT-400/45/2B-H-E40-1/H	MASTER HPI-T Plus 400W/645 E40	100
MT-45/28/2B-H-PGZ12	MASTER CosmoWhite CPO-TW 45W/628 PGZ12	91
MT-50/28/1B-H-E27	MASTER CityWhite CDO-TT 50W/828 E27	92
MT-60/28/2B-H-PGZ12	MASTER CosmoWhite CPO-TW 60W/728 PGZ12	91
MT-70/28/1B-H-E27	MASTER CityWhite CDO-TT 70W/828 E27	92
MT-70/30/1A-H-G12	MASTERCouleur CDM-T Elite 70W/930 G12	76
MT-70/30/1B-H-G12	MASTERCouleur CDM-T 70W/830 G12	78
MT-70/30/1B-H-G8.5	MASTERCouleur CDM-TC 70W/830 G8.5	79
MT-70/30/1B-H-G8.5	MASTERCouleur CDM-TC Elite 70W/930 G8.5	76
MT-70/30/1B-H-PG12-2	MASTERCouleur CDM-TP 70W/830 PG12-2	79
MT-70/42/1A-H-G12	MASTERCouleur CDM-T 70W/942 G12	78
MT-70/42/1B-H-G8.5	MASTERCouleur CDM-TC 70W/942 G8.5	79
MT-90/28/2B-H-PGZ12	MASTER CosmoWhite CPO-TW 90W/728 PGZ12	91
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QE-125/34/3-H-E27	HPL Comfort 125W/534 E27 SG	101
QE-125/41/3-H-E27	HPL-N 125W/542 E27 SG	102
QE-125/41/3-H-E40	HPL-N 125W/542 E40 HG	102
QE-250/33/3-H-E40	HPL Comfort 250W E40 HG	101
QE-250/41/3-H-E40	HPL-N 250W/542 E40 HG	102
QE-400/35/3-H-E40	HPL Comfort 400W/534 E40 HG	101
QE-400/40/3-H-E40	HPL-N 400W/542 E40 HG	102
QE-50/35/3-H-E27	HPL Comfort 50W/534 E27 SG	101
QE-50/42/3-H-E27	HPL-N 50W/542 E27 SG	102
QE-700/39/3-H-E40	HPL-N 700W/542 E40 HG	102
QE-80/35/3-H-E27	HPL Comfort 80W/534 E27 SG	101
QE-80/43/3-H-E27	HPL-N 80W/542 E27 SG	102
QR-250/41/3-H-E40	HPL-R 250W E40 HG	102
SE-100-H/E-E40	SON 100W/220 E40	96
SE-100-H/S-E40	MASTER SON PIA Plus 100W/220 E40	94
SE-1000-H/E-E40	SON 1000W/220 E40	96
SE-150-H/E-E40	SON 150W/220 E40	96
SE-150-H/S-E40	MASTER SON PIA Plus 150W/220 E40	94
SE-250-H/E-E40	SON 250W/220 E40	96
SE-250-H/S-E40	MASTER SON PIA Plus 250W/220 E40	94
SE-400-H/E-E40	SON 400W/220 E40	96
SE-400-H/S-E40	MASTER SON PIA Plus 400W/220 E40	94
SE-50-H/E-E27	SON 50W/220 E27	96
SE-50-H/II-E27	SON 50W/220 I E27	96
SE-70-H/E-E27	SON 70W/220 E27	96
SE-70-H/II-E27	MASTER SON PIA Plus 70W/220 I E27	94
SE-70-H/II-E27	SON 70W/220 I E27	96
SEM-150-H/E-E40	SON Comfort 150W/821 E40	97
SEM-250-H/E-E40	SON Comfort 250W/821 E40	97
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SEQ-110-H-E27	SON H 110W/220 E27 220V SLV	97
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ST-1000-H/E-E40	SON-T 1000W/220 E40	95
ST-150-H/E-E40	MASTER SON-T PIA Hg-Free 150W/221 E40	94
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ST-150-H/S-E40	MASTER SON-T PIA Plus 150W/220 E40	93
ST-250-H/E-E40	MASTER SON-T PIA Hg-Free 250W/221 E40	94
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ST-250-H/S-E40	SON-T PIA PLUS 250W E40	93
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ST-400-H/S-E40	SON-T PIA PLUS 400W E40	93
ST-400-H/S-E40	MASTER GreenPower CG T 400W E40	95
ST-50-H/S-E27	MASTER SON-T PIA Plus 50W/220 E27	93
ST-600-H/S-E40	MASTER GreenPower CG T 600W E40	95
ST-600-H/S-E40	MASTER SON-T PIA Plus 600W/220 E40	93
ST-70-H/E-E27	SON-T 70W/220 E27	95
ST-70-H/S-E27	MASTER SON-T PIA Plus 70W/220 E27	93
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STH-35-H/E-PG12	MASTER SDW-T 35W/825 PG12-1	84
STH-50-H/E-PG12	MASTER SDW-T 50W/825 PG12-1	84
STH-50/25/1B-GX12-1	MASTER SDW-TG Mini 50W/825 GX12-1	83
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1000IDE	HalogenA IDE 1000W E40 240V CL 1CT 6	138
1000MHNLA842	MASTER MHN-LA 1000W/842 230V XWH UNP 1	98
1000MHNLA956	MASTER MHN-LA 1000W/956 230V XWH UNP 1	98
1000SON	SON 1000W/220 E40 1SL 6	96
1000SONT	SON-T 1000W/220 E40 1SL 4	95
1001ORA	TL 100W/10-R SLV 25	150
100ALU11124D	Aluline 111 100W G53 12V 24D 1CT 6X1F	122
100ALU11145D	Aluline 111 100W G53 12V 45D 1CT 6X1F	122
100ALU1118D	Aluline 111 100W G53 12V 8D 1CT 6X1F	122
100BCRSP1PCP	Reinforced Construction 100W B22 230V A65 FR 1CT 20	161
100CDOET828	MASTER CityWhite CDO-ET 100W/828 E40 1SL 24	92
100CDOET828	MASTER CityWhite CDO-TT 100W/828 E40 1SL 12	92
100ESR80BZP	Reflector 100W E27 240V E80 80D 1BL 10	165
100ESR80SPZP	Reflector 100W E27 240V NR80 25D 1CT 30	165
100ESR80ZP	Reflector 100W E27 240V E80 80D 1CT 30	165
100SDWT	MASTER SDW-T 100W/825 PG12-1 1SL 12	84
100SDWTG	MASTER SDW-TG Mini 100W/825 GX12-1 1CT 12	83
100SON	SON 100W/220 E40 1SL 12	96
100SONPLUS	MASTER SON PIA Plus 100W/220 E40 1SL 12	94
100SONT	SON-T 100W/220 E40 1SL 12	95
100SONTPLUS	MASTER SON-T PIA Plus 100W/220 E40 1SL 12	93
105BCECO30CL1CT	EcoClassic30 105W B22 240V A60 CL 1CT 10	135
10PLC8272PIN	MASTER PL-C 10W/827/2P 1CT 5X10CC	61
10PLC8274PIN	MASTER PL-C 10W/827/4P 1CT 5X10CC	62
10PLC8302PIN	MASTER PL-C 10W/830/2P 1CT 5X10CC	61
10PLC8304PIN	MASTER PL-C 10W/830/4P 1CT 5X10CC	62
10PLC8402PIN	MASTER PL-C 10W/840/2P 1CT 5X10CC	61
10PLC8404PIN	MASTER PL-C 10W/840/4P 1CT 5X10CC	62
110SONH	SON H 110W/220 E27 220V SLV 1SL 24	97
115K9	Plusline Small 300W R7s 120V 1BB 10X10BOX	139
11BCPLE	MASTER PL-Electronic 11W/827 B22 230-240V 1CT 10	48
11ESPLE	MASTER PL-Electronic 11W/827 E27 230-240V 1CT 10BOX	48
11ESR63REFL1P	Downlighter ESaver 11W WW E27 1CT 6	55
11PLS8272PINB	MASTER PL-S 11W/827/2P 1CT 5X10CC	59
11PLS8274PINB	MASTER PL-S 11W/827/4P 1CT 5X10CC	60
11PLS8402PINB	MASTER PL-S 11W/840/2P 1CT 5X10CC	59
11PLS8404PINB	MASTER PL-S 11W/840/4P 1CT 5X10CC	60
11SESPL	MASTER PL-Electronic 11W/827 E14 230-240V 1CT 10	48
12058	Traffic Halogen 12058 50W GY6.35 12V 1CT 10X10F	155
12060BCRSP1PCP	Reinforced Construction 60W B22 120V A60 FR 1CT 20	161
120830VHOIP	MASTER TL5 VHO TOP 120W/830 UNP 40	38
120K1	Plusline Small 500W R7s 120V 1BB 10X10BOX	139
120K4	Plusline Large 1000W R7s 120V 1CT 10	140
120PLH830	MASTER PL-H 120W/830/4P 1CT 10	71
120PLH840	MASTER PL-H 120W/840/4P 1CT 10	71
12300PAR56FL	PAR56 300W Multipurpose 12V UW 1CT 8	166
125ESHPLN	HPL-N 125W/542 E27 SG SLV 24	102
125GESHPN	HPL-N 125W/542 E40 HG SLV 24	102
125HPLCOM	HPL Comfort 125W/534 E27 SG SLV 24	101
12BCCANDLSOBF45	Softone ESaver 12W WW B22 230-240V B45 1PF 10	53
12BCSOFT8Y	Softone ESaver 12W WW B22 230-240V T60 1PH 6	52
12ESAMBMT	MASTERAmbiance 12W/827 E27 230-240V 1CH 6	51
12ESSOFT8Y	Softone ESaver 12W WW E27 230-240V T60 1PH 6	52
12SESCANDLEB45	Softone ESaver 12W WW E14 230-240V B45 1PF 10	53
12SESCANDSOBF45	Softone ESaver 12W WW E27 230-240V B45 1PF 10	53
1333	TL Mini 13W/33-640 1FM 10X25CC	42
1335	TL Mini 13W/35-535 1FM 10X25CC	42
1384	MASTER TL Mini Super 80 13W/840 1FM 10X25CC	42
13078	Capsuleline 20W G4 12V CL 4000h 1CT 10X10F	127
13089	Capsuleline 100W GY6.35 24V CL 3000h 1CT 10X10F	127
13090	Capsuleline 50W GY6.35 24V CL 4000h 1CT 10X10F	127
13091	Capsuleline 20W G4 24V CL 4000h 1CT 10X10F	127
13100	Capsuleline 100W GY6.35 12V CL 4000h 1CT 10X10F	127
13101	Capsuleline 75W GY6.35 12V CL 4000h 1CT 10X10F	127
13102	Capsuleline 50W GY6.35 12V CL 4000h 1CT 10X10F	127
13103	Capsuleline 35W GY6.35 12V CL 4000h 1CT 10X10F	127
13104	Capsuleline 20W GY6.35 12V CL 4000h 1CT 10X10F	127
13117	13117 150W GX5.3 17V 1CT 10X5F	124
13139	13139 75W GZ6.35 12V 1CT 10X5F	124
13165	13165 35W GZ4 14V 1CT 10X5F	125
13284Q	Capsuleline 10W G4 12V CL 4000h 1CT 10X10F	127
13289	13289 50W GX5.3 13.8V 1CT 10X5F	125
13528	13528 15W GZ4 6V 1CT 10X5F	123
13865	13865 75W G5.3/4.8 12V 1CT 10X5F	125
13938XHP	13938XHP 50W GX5.3 22.8V 1CT 10X5F	124
13PLC8272PIN	MASTER PL-C 13W/827/2P 1CT 5X10CC	61
13PLC8274PIN	MASTER PL-C 13W/827/4P 1CT 5X10CC	62
13PLC8302PIN	MASTER PL-C 13W/830/2P 1CT 5X10CC	61
13PLC8304PIN	MASTER PL-C 13W/830/4P 1CT 5X10CC	62
13PLC8402PIN	MASTER PL-C 13W/840/2P 1CT 5X10CC	61
13PLC8404PIN	MASTER PL-C 13W/840/4P 1CT 5X10CC	62
13PLT8272PINCS	MASTER PL-T 13W/827/2P 1CT 5X10CC	64
13PLT8274PINCS	MASTER PL-T 13W/827/4P 1CT 5X10CC	65
13PLT8302PINCS	MASTER PL-T 13W/830/2P 1CT 5X10CC	64
13PLT8304PINCS	MASTER PL-T 13W/830/4P 1CT 5X10CC	65
13PLT8402PINCS	MASTER PL-T 13W/840/2P 1CT 5X10CC	64
13PLT8404PINCS	MASTER PL-T 13W/840/4P 1CT 5X10CC	65
140BCE30CL230V	EcoClassic30 140W B22 230V A60 CL 1CT 10	135
140CPOW728	MASTER CosmoWhite CPO-TW 140W/728 PGZ12 1CT 12	91
14565	Capsuleline 10W G4 12V CL 2000h 1CT 10X10F	127

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14566	Capsuleline 20W G4 12V CL 2000h 1CT 10X10F	127
14567	Capsuleline 50W GY6.35 12V CL 2000h 1CT 10X10F	127
14578	MASTERLine ES 20W GU5.3 12V 8D 1CT 4X5F	118
14579	MASTERLine ES 20W GU5.3 12V 36D 1CT 4X5F	118
14580	MASTERLine ES 30W GU5.3 12V 8D 1CT 4X5F	118
14581	MASTERLine ES 30W GU5.3 12V 24D 1CT 4X5F	118
14582	MASTERLine ES 30W GU5.3 12V 36D 1CT 4X5F	118
14583	MASTERLine ES 30W GU5.3 12V 60D 1CT 4X5F	118
14584	MASTERLine ES 35W GU5.3 12V 8D 1CT 4X5F	118
14585	MASTERLine ES 35W GU5.3 12V 24D 1CT 4X5F	118
14586	MASTERLine ES 35W GU5.3 12V 36D 1CT 4X5F	118
14587	MASTERLine ES 35W GU5.3 12V 60D 1CT 4X5F	118
14588	MASTERLine ES 45W GU5.3 12V 8D 1CT 4X5F	118
14589	MASTERLine ES 45W GU5.3 12V 24D 1CT 4X5F	118
14590	MASTERLine ES 45W GU5.3 12V 36D 1CT 4X5F	118
14591	MASTERLine ES 45W GU5.3 12V 60D 1CT 4X5F	118
14623P	14623P 95W GZ9.5 17V 1CT 10X10F	128
14656	Diamondline 35W 4100K GU5.3 12V 10D 1CT 10X5F	121
14658	Diamondline 35W 4100K GU5.3 12V 24D 1CT 10X5F	121
14659	Diamondline 35W 4100K GU5.3 12V 36D 1CT 10X5F	121
14668	Diamondline 50W 4100K GU5.3 12V 10D 1CT 10X5F	121
14670	Diamondline 50W 4100K GU5.3 12V 24D 1CT 10X5F	121
14671	Diamondline 50W 4100K GU5.3 12V 36D 1CT 10X5F	121
14715	Brilliantline Alu 20W GU5.3 12V MR16 36D 1CT 10X5F	120
14716	Brilliantline Alu 35W GU5.3 12V MR16 36D 1CT 10X5F	120
14717	Brilliantline Alu 50W GU5.3 12V MR16 36D 1CT 10X5F	120
14726	MASTERLine TC 45W G8.5 12V 1CT 12	126
14727	MASTERLine TC 60W G8.5 12V 1CT 12	126
14817ACTIVIVA	MASTER TL5 HE Activiva Active 14W 1SL 40	39
14830	MASTER TL5 HE 14W/830 1SL 40	33
14830IP	MASTER TL5 HE 14W/830 UNP 40	33
14835	MASTER TL5 HE 14W/835 1SL 40	33
14835IP	MASTER TL5 HE 14W/835 UNP 40	33
14840	MASTER TL5 HE 14W/840 1SL 40	33
14840IP	MASTER TL5 HE 14W/840 UNP 40	33
14840TL5SEC	MASTER TL5 HE Secura 14W/840 UNP 40	34
14865	MASTER TL5 HE 14W/865 1SL 40	33
14865IP	MASTER TL5 HE 14W/865 UNP 40	33
14880ACTIVIVA	MASTER TL5 HE Activiva Natural 14W 1SL 40	39
14PLR830ECO	MASTER PL-R Eco 14W/830/4P 1CT 5X10CC	58
14PLR840ECO	MASTER PL-R Eco 14W/840/4P 1CT 5X10CC	58
15004Z	15004Z 1500W 235V UNP 10	153
15005Z	15005Z 2000W 235V UNP 10	153
15007Z	15007Z 1000W 235V UNP 10	153
15009Z	15009Z 1000W 235V UNP 10	153
150CDMSAR942	CDM-SA/R 150W/942 UNP 1	85
150CDMT830	MASTERColour CDM-T 150W/830 G12 1CT 12	78
150CDMT942	MASTERColour CDM-T 150W/942 G12 1CT 12	78
150CDMTD830	MASTERColour CDM-TD 150W/830 RX7s 1CT 12	80
150CDMTD942	MASTERColour CDM-TD 150W/942 RX7s 1CT 12	80
150CDMTELITE930	MASTERColour CDM-T Elite 150W/930 G12 1CT 12	76
150CDMTP830	MASTERColour CDM-TP 150W/830 PGX12-2 1CT 12	80
150CDMTP942	MASTERColour CDM-TP 150W/942 PGX12-2 1CT 12	80
150CDMTSA942	CDM-SA/T 150W/942 1CT 12	82
150CDOET828	MASTER CityWhite CDO-ET 150W/828 E40 1SL 12	95
150CDOET828	MASTER CityWhite CDO-TT 150W/828 E40 1SL 12	92
150MHNTD	MHN-TD 150W/842 RX7s 1CT 12	84
150MHWTD	MHN-TD 150W/730 RX7s 1CT 12	85
150SON	SON 150W/220 E40 1SL 12	96
150SONCOM	SON Comfort 150W/621 E40 1SL 12	97
150SONPLUS	MASTER SON PIA Plus 150W/220 E40 1SL 12	94
150SONT	SON-T 150W/220 E40 1SL 12	95
150SONTCOM	SON-T Comfort 150W/621 E40 1SL 12	96
150SONTMF	MASTER SON-T PIA Hg-Free 150W/221 E40 1SL 12	94
150SONTPLUS	MASTER SON-T PIA Plus 150W/220 E40 1SL 12	93
15830	MASTER TL-D Super 80 15W/830 1SL 25	23
15840	MASTER TL-D Super 80 15W/840 1SL 25	23
15BCPLE	MASTER PL-Electronic 15W/827 B22 230-240V 1CT 6	48
15ESPLE	MASTER PL-Electronic 15W/827 E27 230-240V 1CT 6	48
15ESSIZP	Deco 15W E27 240V T29 CL 1CT 10X10F	160
15SESOZP	Appliance 15W E14 230-240V T22 CL OV 1CT 10X10F	162
15SESSINP	Deco 15W E14 230-240V T25 CL 1CT 10X10F	160
160ESMLL	ML 160W E27 235-245V Soft Glass SLV 24	103
16830	MASTER TL-D HF Super 80 16W/830 1SL 25	25
16830TLDECO	MASTER TL-D Eco 16W/830 1SL 25	22
16840	MASTER TL-D HF Super 80 16W/840 1SL 25	25
16840TLDECO	MASTER TL-D Eco 16W/840 1SL 25	22
16865TLDECO	MASTER TL-D Eco 16W/865 1SL 25	22
16BCPLEUPRO	PL-Electronic 16W/827 B22 230-240V 1CT 15	49
16BCSOFT8Y	Softone ESaver 16W WW B22 230-240V T60 1PH 6	52
16ESAMBMT	MASTERAmbiance 16W/827 E27 230-240V 1CH 6	51
16ESSOFT8Y	Softone ESaver 16W WW E27 230-240V T60 1PH 6	52
16ESSOFT8Y40W	Softone ESaver 16W WW E27 230-240V T60 1PH 40	52
16PLQ8272PIN	PL-Q 16W/827/2P 1CT 10	71
16PLQ8274PIN	PL-Q 16W/827/4P 1CT 10	72
16PLQ8302PIN	PL-Q 16W/830/2P 1CT 10	71
16PLQ8304PIN	PL-Q 16W/830/4P 1CT 10	72
16PLQ8352PIN	PL-Q 16W/835/2P 1CT 10	71
16PLQ8354PIN	PL-Q 16W/835/4P 1CT 10	72
17PLR830ECO	MASTER PL-R Eco 17W/830/4P 1CT 5X10CC	58
17PLR840ECO	MASTER PL-R Eco 17W/840/4P 1CT 5X10CC	58

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1808	TL-D 18W BLB SLV 25	32
18030	Twistline Alu 3000h 50W GU10 240V 25D 1CT 10X5F	129
18032	Twistline Alu 3000h 50W GU10 240V 50D 1CT 10X5F	129
18034	Twistline Dichroic 3000h 50W GZ10 240V 25D 1CT 10X5F	130
18036	Twistline Dichroic 3000h 50W GZ10 240V 50D 1CT 10X5F	130
18042	Twistline Alu 2000h 35W GU10 240V 40D 1CT 50	130
18045	Twistline Alu 2000h 50W GU10 240V 40D 1CT 10X5F	130
18073	Twistline Alu 2000h 50W GU10 240V 20D 1CT 10X5F	130
18075	Halogen Twist 2yr 50W GZ10 240V 40D 1CT 10X5F	131
18078	Halogen Twist 2yr 50W GZ10 240V 20D 1CT 10X5F	131
18160	MASTERCapsule 20W GY6.35 12V IR 1CT 5X10F	126
18161	MASTERCapsule 30W GY6.35 12V IR 1CT 5X10F	126
18162	MASTERCapsule 45W GY6.35 12V IR 1CT 5X10F	126
18163	MASTERCapsule 60W GY6.35 12V IR 1CT 5X10F	126
18817ACTIVIVA	MASTER TL-D ActiViva Active 18W 1SL 25	20
18827	MASTER TL-D Super 80 18W/827 1SL 25	23
18830	MASTER TL-D Super 80 18W/830 1SL 25	23
18830IP	MASTER TL-D Super 80 18W/830 UNP 25	23
18830R	MASTER TL-D Reflex 18W/830 1SL 25	25
18830XTRA	MASTER TL-D Xtra 18W/830 1SL 25	26
18830XTRAPOLAR	MASTER TL-D Xtra Polar 18W/830 T12 1SL 10	27
18830XTRASEC	MASTER TL-D Xtra Secura 18W/830 1SL 25	28
18830XTREME	MASTER TL-D Xtreme 18W/830 1SL 25	28
18830XTREMESEC	MASTER TL-D Xtreme Secura 18W/830 1SL 25	30
18835	MASTER TL-D Super 80 18W/835 1SL 25	23
18840	MASTER TL-D Super 80 18W/840 1SL 25	23
18840BSEC	MASTER TL-D Secura 18W/840 1SL 25	24
18840IP	MASTER TL-D Super 80 18W/840 UNP 25	23
18840R	MASTER TL-D Reflex 18W/840 1SL 25	25
18840XTRA	MASTER TL-D Xtra 18W/840 1SL 25	26
18840XTRAPOLAR	MASTER TL-D Xtra Polar 18W/840 T12 1SL 10	27
18840XTRASEC	MASTER TL-D Xtra Secura 18W/840 1SL 25	28
18840XTREME	MASTER TL-D Xtreme 18W/840 1SL 25	28
18840XTREMESEC	MASTER TL-D Xtreme Secura 18W/840 1SL 25	30
18840XTRMEPOLAR	MASTER TL-D Xtreme Polar 18W/840 1SL 10	29
18865	MASTER TL-D Super 80 18W/865 1SL 25	23
18865RFECO	MASTER TL-D Reflex 18W/865 1SL 25	25
18865XTRA	MASTER TL-D Xtra 18W/865 1SL 25	26
18865XTREME	MASTER TL-D Xtreme 18W/865 1SL 25	28
18880ACTIVIVA	MASTER TL-D ActiViva Natural 18W 1SL 25	30
18930DLP	MASTER TL-D 90 De Luxe 18W/930 1SL SLV 10	31
18940DLP	MASTER TL-D 90 De Luxe 18W/940 1SL SLV 10	31
18950DLP	MASTER TL-D 90 De Luxe 18W/950 1SL SLV 10	31
18950GP	MASTER TL-D 90 Graphica 18W/950 1SL 10	32
18965DLP	MASTER TL-D 90 De Luxe 18W/965 1SL SLV 10	31
18965GP	MASTER TL-D 90 Graphica 18W/965 1SL 10	32
18PLC8272PIN	MASTER PL-C 18W/827/2P 1CT 5X10CC	61
18PLC8274PIN	MASTER PL-C 18W/827/4P 1CT 5X10CC	62
18PLC8302PIN	MASTER PL-C 18W/830/2P 1CT 5X10CC	61
18PLC8302PXTRA	MASTER PL-C Xtra 18W/830/2P 1CT 5X10CC	63
18PLC8304PIN	MASTER PL-C 18W/830/4P 1CT 5X10CC	62
18PLC8304PXTRA	MASTER PL-C Xtra 18W/830/4P 1CT 5X10CC	63
18PLC8352PIN	MASTER PL-C 18W/835/2P 1CT 5X10CC	61
18PLC8402PIN	MASTER PL-C 18W/840/2P 1CT 5X10CC	61
18PLC8402PXTRA	MASTER PL-C Xtra 18W/840/2P 1CT 5X10CC	63
18PLC8404PIN	MASTER PL-C 18W/840/4P 1CT 5X10CC	62
18PLC8404PXTRA	MASTER PL-C Xtra 18W/840/4P 1CT 5X10CC	63
18PLL830	MASTER PL-L 18W/830/4P 1CT 25	68
18PLL835	MASTER PL-L 18W/835/4P 1CT 25	68
18PLL840	MASTER PL-L 18W/840/4P 1CT 25	68
18PLL865	MASTER PL-L 18W/865/4P 1CT 25	68
18PLT8272PINCS	MASTER PL-T 18W/827/2P 1CT 5X10CC	64
18PLT8274PINCS	MASTER PL-T 18W/827/4P 1CT 5X10CC	65
18PLT8302PINCS	MASTER PL-T 18W/830/2P 1CT 5X10CC	64
18PLT8304PINCS	MASTER PL-T 18W/830/4P 1CT 5X10CC	66
18PLT8304PINTOP	MASTER PL-T TOP 18W/830/4P 1CT 5X10CC	65
18PLT8402PINCS	MASTER PL-T 18W/840/2P 1CT 5X10CC	64
18PLT8404PINCS	MASTER PL-T 18W/840/4P 1CT 5X10CC	65
18PLT8404PINTOP	MASTER PL-T TOP 18W/840/4P 1CT 5X10CC	66
18WB22ECOCLAS30	EcoClassic30 18W B22 240V B35 CL 1CT 15	136
18WB22ECOCTWIST	EcoClassic30 18W B22 240V BW35 CL 1CT 15	136
18WSECOCLAS30	EcoClassic30 18W E14 240V B35 CL 1CT 15	136
2000HPI-T	HPI-T 2000W/646 E40 220V CRP 4	100
2000MHNFC740	MASTER MHN-FC 2000W/740 400V XW UNP 1	99
2000MHNLA842	MASTER MHN-LA 2000W/842 400V XWH UNP 1	98
2000MHNLA956	MASTER MHN-LA 2000W/956 400V XWH UNP 1	98
2000MHNSA956	MASTER MHN-SA 2000W/956 400V XW UNP 1	98
2000MHNSB956	MHN-SB 2000W/956 400V K12s-7 WH UNP 1	99
20BCPLE	MASTER PL-Electronic 20W/827 B22 230-240V 1CT 6	48
20BCSOFT8Y	Softone ESaver 20W WWW B22 230-240V T65 1PH 6	52
20CDMR11183010	MASTERC colour CDM-R111 20W/830 GX8.5 10D 1CT 6	81
20CDMR11183024	MASTERC colour CDM-R111 20W/830 GX8.5 24D 1CT 6	81
20CDMRM83010	MASTERC colour CDM-R Mini 20W/830 GX10 MR16 10D 1CT 6	83
20CDMRM83025	MASTERC colour CDM-R Mini 20W/830 GX10 MR16 25D 1CT 6	83
20CDMRM83040	MASTERC colour CDM-R Mini 20W/830 GX10 MR16 40D 1CT 6	83
20CDMT830	MASTERC colour CDM-T 20W/830 G12 1CT 12	78
20CDMTC830	MASTERC colour CDM-TC 20W/830 G8.5 1CT 12	79
20CDMTM830	MASTERC colour CDM-Tm Mini 20W/830 PGJ5 1CT 12	77
20ESAMBMT	MASTER Ambiance 20W/827 E27 230-240V 1CH 6	51
20ESPL	MASTER PL-Electronic 20W/827 E27 230-240V 1CT 6	48
20ESPLEREF	PL-Electronic Reflector R80 20W WWW E27 230-240V 1CT	54
20ESSOFT8Y	Softone ESaver 20W WWW E27 230-240V T65 1PH 6	52

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20PAR38CFL	PAR38 Downlighter ESaver 20W WW 220-240V 1CT 6	55
20PAREFL	MASTER PAR20 E 20W E27 240V 25D 1CT 4X3F	131
20PARESP	MASTER PAR20 E 20W E27 240V 10D 1CT 4X3F	131
210CDMTELITE930	MASTERC colour CDM-TMW Elite 210W/930 1CT 12	77
210CDMTELITE942	MASTERC colour CDM-TMW Elite 210W/942 1CT 12	77
21817ACTIVIVA	MASTER TL5 HE ActiViva Active 21W 1SL 40	39
21830	MASTER TL5 HE 21W/830 1SL 40	33
21830IP	MASTER TL5 HE 21W/830 UNP 40	33
21835IP	MASTER TL5 HE 21W/835 UNP 40	33
21840	MASTER TL5 HE 21W/840 1SL 40	33
21840IP	MASTER TL5 HE 21W/840 UNP 40	33
21865	MASTER TL5 HE 21W/865 1SL 40	33
21880ACTIVIVA	MASTER TL5 HE ActiViva Natural 21W 1SL 40	40
220SONH	SON H 220W/220 E40 1SL 12	97
22TL5C830	MASTER TL5 Circular 22W/830 1CT 10	41
22TL5C840	MASTER TL5 Circular 22W/840 1CT 10	41
23840	MASTER TL-D Super 80 23W/840 1SL 25	23
23BCPLE	MASTER PL-Electronic 23W/827 B22 230-240V 1CT 6	48
23ESPLE	MASTER PL-Electronic 23W/827 E27 230-240V 1CT 6	48
23PAR38CFL	PAR38 Downlighter ESaver 23W WW 220-240V 1CT 6	55
2440ESCP	Standard ELV 40W E27/BRC 24V A60 CL 1CT 12X10F	161
24817ACTIVIVA	MASTER TL5 HO ActiViva Active 24W 1SL 40	40
24827	MASTER TL5 HO 24W/827 1SL 40	35
24830	MASTER TL5 HO 24W/830 1SL 40	35
24830IP	MASTER TL5 HO 24W/830 UNP 40	35
24840	MASTER TL5 HO 24W/840 1SL 40	35
24840IP	MASTER TL5 HO 24W/840 UNP 40	35
24840TL5SEC	MASTER TL5 HO Secura 24W/840 UNP 40	36
24865	MASTER TL5 HO 24W/865 1SL 40	35
24880ACTIVIVA	MASTER TL5 HO ActiViva Natural 24W 1SL 40	40
24940	MASTER TL5 HO 90 De Luxe 24W/940 1SL 15	39
24950	MASTER TL5 HO 90 De Luxe 24W/950 1SL 15	39
24965	MASTER TL5 HO 90 De Luxe 24W/965 1SL 15	39
24PLL830	MASTER PL-L 24W/830/4P 1CT 25	68
24PLL830POLAR	MASTER PL-L Polar 24W/830/4P 1CT 25	69
24PLL830XTRA	MASTER PL-L Xtra 24W/830/4P 1CT 25	69
24PLL830XTRAPOL	MASTER PL-L Xtra Polar 24W/830/4P 1CT 25	70
24PLL835	MASTER PL-L 24W/835/4P 1CT 25	68
24PLL840	MASTER PL-L 24W/840/4P 1CT 25	68
24PLL840POLAR	MASTER PL-L Polar 24W/840/4P 1CT 25	69
24PLL840XTRA	MASTER PL-L Xtra 24W/840/4P 1CT 25	69
24PLL840XTRAPOL	MASTER PL-L Xtra Polar 24W/840/4P 1CT 25	70
24PLL865	MASTER PL-L 24W/865/4P 1CT 25	68
24TL5BLUE	MASTER TL5 HO Colored 24W Blue 1SL 15	40
24TL5GREEN	MASTER TL5 HO Colored 24W Green 1SL 15	40
24TL5RED	MASTER TL5 HO Colored 24W Red 1SL 15	40
250CDMT830	MASTERC colour CDM-T 250W/830 G12 1CT 12	78
250CDMT942	MASTERC colour CDM-T 250W/942 G12 1CT 12	78
250CDOTT828	MASTER CityWhite CDO-T 250W/828 E40 1SL 12	92
250HPIPLUSBU	MASTER HPI Plus 250W/745 BU E40 1SL 12	101
250HPIPLUSBUP	MASTER HPI Plus 250W/745 BU-P E40 1SL 12	101
250HPIPLUSDBU	MASTER HPI Plus 250W/767 BU E40 1SL 12	101
250HPIPLUSD	MASTER HPI Plus 250W/645 E40 1SL 12	100
250HPLCOM	HPL Comfort 250W E40 HG CRP 12	101
250HPLN	HPL-N 250W/542 E40 HG 1SL 12	102
250HPLR	HPL-R 250W E40 HG CRP 5	102
250MHN-TD	MHN-TD 250W/842 FC2 1CT 12	85
250SON	SON 250W/220 E40 1SL 12	96
250SONCOM	SON Comfort 250W/621 E40 1SL 12	97
250SONPLUS	MASTER SON PIA Plus 250W/220 E40 1SL 12	94
250SONT	SON-T 250W/220 E40 1SL 12	95
250SONTCOM	SON-T Comfort 250W/621 E40 1SL 12	96
250SONTFM	MASTER SON-T PIA Hg-Free 250W/221 E40 1SL 12	94
250SONTPLUS	SON-T PIA PLUS 250W E40 1SL 12	93
258ECON	Halogen Dichroic 2yr 50W GU5.3 12V 36D 1CT 10X5F	123
25BC2P2P	Standard 25W B22 240V B35 CL 2CT 2X10T/WL	159
25CLICKCL	Clickline 25W G9 240V CL 1CT 10X10F	138
25SESOZP	Appliance 25W E14 230-240V T25 CL OV 1CT 10X10F	162
26PLC8272PIN	MASTER PL-C 26W/827/2P 1CT 5X10CC	61
26PLC8274PIN	MASTER PL-C 26W/827/4P 1CT 5X10CC	62
26PLC8302PIN	MASTER PL-C 26W/830/2P 1CT 5X10CC	61
26PLC8302PXTRA	MASTER PL-C Xtra 26W/830/2P 1CT 5X10CC	63
26PLC8304PIN	MASTER PL-C 26W/830/4P 1CT 5X10CC	62
26PLC8304PXTRA	MASTER PL-C Xtra 26W/830/4P 1CT 5X10CC	63
26PLC8352PIN	MASTER PL-C 26W/835/2P 1CT 5X10CC	61
26PLC8354PIN	MASTER PL-C 26W/835/4P 1CT 5X10CC	62
26PLC8402PIN	MASTER PL-C 26W/840/2P 1CT 5X10CC	61
26PLC8402PXTRA	MASTER PL-C Xtra 26W/840/2P 1CT 5X10CC	63
26PLC8404PIN	MASTER PL-C 26W/840/4P 1CT 5X10CC	62
26PLC8404PXTRA	MASTER PL-C Xtra 26W/840/4P 1CT 5X10CC	63
26PLC8652PIN	MASTER PL-C 26W/865/2P 1CT 5X10CC	61
26PLT8272PINCS	MASTER PL-T 26W/827/2P 1CT 5X10CC	64
26PLT8274PINCS	MASTER PL-T 26W/827/4P 1CT 5X10CC	65
26PLT8302PINCS	MASTER PL-T 26W/830/2P 1CT 5X10CC	64
26PLT8304PINCS	MASTER PL-T 26W/830/4P 1CT 5X10CC	65
26PLT8304PINTOP	MASTER PL-T TOP 26W/830/4P 1CT 5X10CC	66
26PLT8402PINCS	MASTER PL-T 26W/840/2P 1CT 5X10CC	64
26PLT8404PINCS	MASTER PL-T 26W/840/4P 1CT 5X10CC	65
26PLT8404PINTOP	MASTER PL-T TOP 26W/840/4P 1CT 5X10CC	66
272ECON	Halogen Dichroic 2yr 35W GU5.3 12V 36D 1CT 10X5F	123
27ESPLE	MASTER PL-Electronic 27W/827 E27 230-240V 1CT 6	48
28817ACTIVIVA	MASTER TL5 HE ActiViva Active 28W 1SL 40	40
28830	MASTER TL5 HE 28W/830 1SL 40	33
28830IP	MASTER TL5 HE 28W/830 UNP 40	33

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28835	MASTER TL5 HE 28W/835 1SL 40	33
28835IP	MASTER TL5 HE 28W/835 UNP 40	33
28840	MASTER TL5 HE 28W/840 1SL 40	33
28840IP	MASTER TL5 HE 28W/840 UNP 40	33
28840TL5SEC	MASTER TL5 HE Secura 28W/840 UNP 40	34
28865	MASTER TL5 HE 28W/865 1SL 40	33
28865IP	MASTER TL5 HE 28W/865 UNP 40	33
28880ACTIVIVA	MASTER TL5 HE ActiViva Natural 28W 1SL 40	40
28BCCECO30CL	EcoClassic30 28W B22 240V B35 CL 1CT 15	136
28BCCECO30A55	EcoClassic30 28W B22 240V A60 CL 1CT 10	135
28CLICECOG9CLCC		137
28PLQ8274PIN	PL-Q 28W/827/4P 1CT 10	72
28PLQ8304PIN	PL-Q 28W/830/4P 1CT 10	72
28PLQ8354PIN	PL-Q 28W/835/4P 1CT 10	72
28PLQ8404PIN	PL-Q 28W/840/4P 1CT 10	72
28SECECO30OCL	EcoClassic30 28W E14 240V B35 CL 1CT 15	136
28WB22ECOC-GOLF	EcoClassic30 28W B22 240V P45 CL 1CT 20	137
28WE27ECOC-GOLF	EcoClassic30 28W E27 240V P45 CL 1CT 20	137
30830	MASTER TL-D Super 80 30W/830 1SL 25	23
30830XTRA	MASTER TL-D Xtra 30W/830 1SL 25	26
30840	MASTER TL-D Super 80 30W/840 1SL 25	23
30840XTRA	MASTER TL-D Xtra 30W/840 1SL 25	26
30ML11124D	MASTERLine 111 30W G53 12V 24D 1CT 6	119
30ML1118D	MASTERLine 111 30W G53 12V 8D 1CT 6	119
30SESR392P	Reflector 30W E14 240-250V R39 45D 2CT 2X10T/WL	163
315CDMTElite930	MASTERColour CDM-TMW Elite 315W/930 1CT 12	77
32830	MASTER TL-D HF Super 80 32W/830 1SL 25	25
32830TLDECO	MASTER TL-D Eco 32W/830 1SL 25	22
32840	MASTER TL-D HF Super 80 32W/840 1SL 25	25
32840TLDECO	MASTER TL-D Eco 32W/840 1SL 25	22
32865TLDECO	MASTER TL-D Eco 32W/865 1SL 25	22
32PLT8274PINCS	MASTER PL-T 32W/827/4P 1CT 5X10CC	65
32PLT8274PINTOP	MASTER PL-T TOP 32W/827/4P 1CT 5X10CC	66
32PLT8304PINCS	MASTER PL-T 32W/830/4P 1CT 5X10CC	65
32PLT8304PINTOP	MASTER PL-T TOP 32W/830/4P 1CT 5X10CC	66
32PLT8304PXTRA	MASTER PL-T Xtra 32W/830/4P 1CT 5X10CC	67
32PLT8404PINCS	MASTER PL-T 32W/840/4P 1CT 5X10CC	65
32PLT8404PINTOP	MASTER PL-T TOP 32W/840/4P 1CT 5X10CC	66
32PLT8404PXTRA	MASTER PL-T Xtra 32W/840/4P 1CT 5X10CC	67
33ESPL	MASTER PL-Electronic 33W/827 E27 230-240V 1CT 6	48
350SONH	SON H 350W/220 E40 1SL 12	97
35817ACTIVIVA	MASTER TL5 HE ActiViva Active 35W 1SL 40	40
35830	MASTER TL5 HE 35W/830 1SL 40	33
35830IP	MASTER TL5 HE 35W/830 UNP 40	33
35835	MASTER TL5 HE 35W/835 1SL 40	33
35835IP	MASTER TL5 HE 35W/835 UNP 40	33
35840	MASTER TL5 HE 35W/840 1SL 40	33
35840IP	MASTER TL5 HE 35W/840 UNP 40	33
35840TL5SEC	MASTER TL5 HE Secura 35W/840 UNP 40	34
35865	MASTER TL5 HE 35W/865 1SL 40	33
35880ACTIVIVA	MASTER TL5 HE ActiViva Natural 35W 1SL 40	40
35CDMR11183010	MASTERColour CDM-R111 35W/830 GX8.5 10D 1CT 6	81
35CDMR11183024	MASTERColour CDM-R111 35W/830 GX8.5 24D 1CT 6	81
35CDMR11183040	MASTERColour CDM-R111 35W/830 GX8.5 40D 1CT 6	81
35CDMR11194210	MASTERColour CDM-R111 35W/942 GX8.5 10D 1CT 6	81
35CDMR11194224	MASTERColour CDM-R111 35W/942 GX8.5 24D 1CT 6	81
35CDMR11194240	MASTERColour CDM-R111 35W/942 GX8.5 40D 1CT 6	81
35CDMR830FL	MASTERColour CDM-R 35W/830 E27 PAR30L 30D 1CT 6	82
35CDMR830FLP20	MASTERColour CDM-R 35W/830 E27 PAR20 30D 1CT 12	82
35CDMR830SP	MASTERColour CDM-R 35W/830 E27 PAR30L 10D 1CT 6	82
35CDMR830SPP20	MASTERColour CDM-R 35W/830 E27 PAR20 10D 1CT 12	82
35CDMR942P2010D	MASTERColour CDM-R 35W/942 E27 PAR20 10D 1CT 12	82
35CDMR942P2030D	MASTERColour CDM-R 35W/942 E27 PAR20 30D 1CT 12	82
35CDMT830	MASTERColour CDM-T 35W/830 G12 1CT 12	78
35CDMT942	MASTERColour CDM-T 35W/942 G12 1CT 12	78
35CDMT830	MASTERColour CDM-TC 35W/830 G8.5 1CT 12	79
35CDMT942	MASTERColour CDM-TC 35W/942 G8.5 1CT 12	79
35CDMTCElite930	MASTERColour CDM-TC Elite 35W/930 G8.5 1CT 12	76
35CDMTTElite930	MASTERColour CDM-T Elite 35W/930 G12 1CT 12	76
35CDMTM930	MASTERColour CDM-Tm Mini 35W/930 PGJ5 1CT 12	77
35GU10ECOHALT	EcoHalo Twist 35W GU10 240V MR16 50D 1CT 10X5F	129
35S14SPHZP	Philinea 35W S14s 240V T30 WH 1CT 25	160
35SDWT	MASTER SDW-T 35W/825 PG12-1 1SL 12	84
36817ACTIVIVA	MASTER TL-D ActiViva Active 36W 1SL 25	30
36827	MASTER TL-D Super 80 36W/827 1SL 25	23
36830	MASTER TL-D Super 80 36W/830 1SL 25	23
36830IP	MASTER TL-D Super 80 36W/830 UNP 25	23
36830R	MASTER TL-D Reflex 36W/830 1SL 25	25
36830XTRA	MASTER TL-D Xtra 36W/830 1SL 25	26
36830XTRAPOLAR	MASTER TL-D Xtra Polar 36W/830 T12 1SL 10	27
36830XTRASEC	MASTER TL-D Xtra Secura 36W/830 1SL 25	28
36830XTREME	MASTER TL-D Xtreme 36W/830 1SL 25	28
36830XTREMESEC	MASTER TL-D Xtreme Secura 36W/830 1SL 25	30
36835	MASTER TL-D Super 80 36W/835 1SL 25	23
36840	MASTER TL-D Super 80 36W/840 1SL 25	23
36840BSEC	MASTER TL-D Secura 36W/840 1SL 25	24
36840IP	MASTER TL-D Super 80 36W/840 UNP 25	23
36840R	MASTER TL-D Reflex 36W/840 1SL 25	26
36840XTRA	MASTER TL-D Xtra 36W/840 1SL 25	25
36840XTRAPOLAR	MASTER TL-D Xtra Polar 36W/840 T12 1SL 10	27
36840XTRASEC	MASTER TL-D Xtra Secura 36W/840 1SL 25	28
36840XTREME	MASTER TL-D Xtreme 36W/840 1SL 25	28
36840XTREMESEC	MASTER TL-D Xtreme Secura 36W/840 1SL 25	30
36840XTRMEPOLAR	MASTER TL-D Xtreme Polar 36W/840 1SL 10	29

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36865	MASTER TL-D Super 80 36W/865 1SL 25	23
36865XTRA	MASTER TL-D Xtra 36W/865 1SL 25	26
36865XTREME	MASTER TL-D Xtreme 36W/865 1SL 25	28
36880ACTIVIVA	MASTER TL-D ActiViva Natural 36W 1SL 25	30
36930DLP	MASTER TL-D 90 De Luxe 36W/930 1SL SLV 10	31
36940DLP	MASTER TL-D 90 De Luxe 36W/940 1SL SLV 10	31
36950DLP	MASTER TL-D 90 De Luxe 36W/950 1SL SLV 10	31
36950GP	MASTER TL-D 90 Graphica 36W/950 1SL 10	32
36965DLP	MASTER TL-D 90 De Luxe 36W/965 1SL SLV 10	31
36965GP	MASTER TL-D 90 Graphica 36W/965 1SL 10	32
36PLL830	MASTER PL-L 36W/830/4P 1CT 25	68
36PLL830POLAR	MASTER PL-L Polar 36W/830/4P 1CT 25	69
36PLL830XTRA	MASTER PL-L Xtra 36W/830/4P 1CT 25	70
36PLL830XTRAPOL	MASTER PL-L Xtra Polar 36W/830/4P 1CT 25	70
36PLL840	MASTER PL-L 36W/840/4P 1CT 25	68
36PLL840POLAR	MASTER PL-L Polar 36W/840/4P 1CT 25	69
36PLL840XTRA	MASTER PL-L Xtra 36W/840/4P 1CT 25	70
36PLL840XTRAPOL	MASTER PL-L Xtra Polar 36W/840/4P 1CT 25	70
36PLL865	MASTER PL-L 36W/865/4P 1CT 25	68
38830NG	MASTER TL-D Super 80 38W/830 1SL 25	23
38840NG	MASTER TL-D Super 80 38W/840 1SL 25	23
38PLQ8274PIN	PL-Q 38W/827/4P 1CT 10	72
38PLQ8304PIN	PL-Q 38W/830/4P 1CT 10	72
38PLQ8354PIN	PL-Q 38W/835/4P 1CT 10	72
38PLQ8404PIN	PL-Q 38W/840/4P 1CT 10	72
39827	MASTER TL5 HO 39W/827 1SL 40	35
39830	MASTER TL5 HO 39W/830 1SL 40	35
39830IP	MASTER TL5 HO 39W/830 UNP 40	35
39840	MASTER TL5 HO 39W/840 1SL 40	35
39840IP	MASTER TL5 HO 39W/840 UNP 40	35
39865	MASTER TL5 HO 39W/865 1SL 40	35
400HPIPLUSBU	MASTER HPI Plus 400W/745 BU E40 1SL 6	101
400HPIPLUSBUP	MASTER HPI Plus 400W/745 BU-P E40 1SL 6	101
400HPIPLUSBUS	MASTER HPI Plus 400W/745 BUS E40 1SL 6	101
400HPIPLUSBUSP	MASTER HPI Plus 400W/745 BUS-P E40 1SL 6	101
400HPIPLUSDBU	MASTER HPI Plus 400W/767 BU E40 1SL 6	101
400HPIPLUSD	MASTER HPI Plus 400W/645 E40 1SL 12	100
400HPLCOM	HPL Comfort 400W/534 E40 HG 1SL 6	101
400HPLN	HPL-N 400W/542 E40 HG 1SL 6	102
400SON	SON 400W/220 E40 1SL 12	96
400SONCOM	SON Comfort 400W/621 E40 1SL 12	97
400SONPLUS	MASTER SON PIA Plus 400W/220 E40 1SL 12	94
400SONT	SON-T 400W/220 E40 1SL 12	95
400SONTCOM	SON-T Comfort 400W/621 E40 1SL 12	96
400SONTGP	MASTER GreenPower CGT 400W E40 1SL 12	95
400SONTPLUS	SON-T PIA PLUS 400W E40 1SL 12	93
40102RA	Actinic BL TL-K 40W/10-R SLV 25	149, 150
40102RA	Actinic BL TL-K 40W/10-R SLV 25	149, 150
408	TL 4W BLB FAM 10X25BOX	43
40BC1PZP	Standard 40W B22 240V A55 CL 1CT 12X10F	158
40BCC2PZP	Standard 40W B22 240V B35 CL 2CT 2X10T/WL	159
40BCCANDL8350R	Softone 40W B22 240V B35 AP 2CT 10	158
40BCL2P	Standard 40W B22 240V P45 CL 2CT 12X5F	159
40CLICKCL	Clickline 40W G9 240V CL 1CT 10X10F	138
40CLICKFR	Clickline 40W G9 240V FR 1CT 10X10F	138
40ES1PZP	Standard 40W E27 240V A55 CL 1CT 12X10F	158
40PLL830	MASTER PL-L 40W/830/4P 1CT 25	68
40PLL830XTRA	MASTER PL-L Xtra 40W/830/4P 1CT 25	70
40PLL835	MASTER PL-L 40W/835/4P 1CT 25	68
40PLL840	MASTER PL-L 40W/840/4P 1CT 25	68
40PLL840XTRA	MASTER PL-L Xtra 40W/840/4P 1CT 25	70
40SBCC2PZP	Standard 40W B15 240V B35 CL 2CT 2X10T/WL	159
40SESC2PZP	Standard 40W E14 240V B35 CL 2CT 2X10T/WL	159
40SESCHP	Appliance 40W E14 230-240V T25L CL CH 1CT 5X10F	163
40SESOZ	Appliance 40W E14 240V P45 CL OV 1CT 10X10F	162
40SESPAR16BP	HalogenA PAR16 40W E14 240V 25D 1BL 10	132
40SESR50SPZP	Reflector 40W E14 240V NR50 30D 1CT 30	164
40TLC5830	MASTER TL5 Circular 40W/830 1CT 10	41
40TLC5840	MASTER TL5 Circular 40W/840 1CT 10	41
4151800MHN5A956	MASTER MHN-SA 1800W/956 (P)SFC 400V UNP 1	98
4152000HPITN	HPI-T 2000W/642 E40 380V CRP 4	100
42454960	Brilliantline Dichroic 20W GU5.3 12V MR16 10D 1CT 10X5F	119
42471660	Brilliantline Dichroic 20W GU5.3 12V MR16 24D 1CT 10X5F	120
42484660	Brilliantline Dichroic 20W GU5.3 12V MR16 36D 1CT 10X5F	120
42490760	Brilliantline Dichroic 35W GU5.3 12V MR16 10D 1CT 10X5F	120
42493860	Brilliantline Dichroic 35W GU5.3 12V MR16 24D 1CT 10X5F	120
42504160	Brilliantline Dichroic 35W GU5.3 12V MR16 36D 1CT 10X5F	120
42507260	Brilliantline Dichroic 35W GU5.3 12V MR16 60D 1CT 10X5F	120
42510260	Brilliantline Dichroic 50W GU5.3 12V MR16 10D 1CT 10X5F	120
42513360	Brilliantline Dichroic 50W GU5.3 12V MR16 24D 1CT 10X5F	120
42516460	Brilliantline Dichroic 50W GU5.3 12V MR16 36D 1CT 10X5F	120
42519560	Brilliantline Dichroic 50W GU5.3 12V MR16 60D 1CT 10X5F	120
42537960	Brilliantline Dichroic 20W GU4 12V MR11 10D 1CT 10X5F	119
42540960	Brilliantline Dichroic 20W GU4 12V MR11 30D 1CT 10X5F	119
42543060	Brilliantline Dichroic 35W GU4 12V MR11 10D 1CT 10X5F	120
42546160	Brilliantline Dichroic 35W GU4 12V MR11 30D 1CT 10X5F	120
42BCCECO30CLA55	EcoClassic30 42W B22 240V A60 CL 1CT 10	135
42CLICECOG9CLCC		137
42ESECO30CLA55	EcoClassic30 42W E27 240V A60 CL 1CT 10	135
42PLT8274PINCS	MASTER PL-T 42W/827/4P 1CT 5X10CC	65
42PLT8274PINTOP	MASTER PL-T TOP 42W/827/4P 1CT 5X10CC	66
42PLT8304PINCS	MASTER PL-T 42W/830/4P 1CT 5X10CC	65
42PLT8304PINTOP	MASTER PL-T TOP 42W/830/4P 1CT 5X10CC	66

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42PLT8304PXTRA	MASTER PL-T Xtra 42W/830/4P 1CT 5X10CC	67
42PLT8404PINCS	MASTER PL-T 42W/840/4P 1CT 5X10CC	65
42PLT8404PINTOP	MASTER PL-T TOP 42W/840/4P 1CT 5X10CC	66
42PLT8404PXTRA	MASTER PL-T Xtra 42W/840/4P 1CT 5X10CC	67
42WB22ECOC-GOLF	EcoClassic30 42W B22 240V P45 CL 1CT 20	137
42WB22ECOCTWIST	EcoClassic30 42W B22 240V BW35 CL 1CT 15	136
42WE27ECOC-GOLF	EcoClassic30 42W E27 240V P45 CL 1CT 20	137
42WSESECOC-GOLF	EcoClassic30 42W E14 240V P45 CL 1CT 20	137
433	TL Mini 4W/33-640 FAM 1FM 10X25CC	42
45CPOTW628	MASTER CosmoWhite CPO-TW 45W/628 PGZ12 1CT 12	91
45ML11124D	MASTERLine 111 45W G53 12V 24D 1CT 6	119
45ML11145D	MASTERLine 111 45W G53 12V 45D 1CT 6	119
45ML1118D	MASTERLine 111 45W G53 12V 8D 1CT 6	119
49817ACTIVIVA	MASTER TL5 HO ActiviVa Active 49W 1SL 40	40
49827	MASTER TL5 HO 49W/827 1SL 40	35
49830	MASTER TL5 HO 49W/830 1SL 40	35
49830IP	MASTER TL5 HO 49W/830 UNP 40	35
49830TOP	MASTER TL5 HO TOP 49W/830 1SL 20	37
49830XTRATL5	MASTER TL5 HO Xtra 49W/830 1SL 20	37
49835	MASTER TL5 HO 49W/835 UNP 40	35
49840	MASTER TL5 HO 49W/840 1SL 40	35
49840IP	MASTER TL5 HO 49W/840 UNP 40	35
49840TL5SEC	MASTER TL5 HO Secura 49W/840 UNP 40	36
49840XTRATL5	MASTER TL5 HO Xtra 49W/840 1SL 20	37
49865	MASTER TL5 HO 49W/865 1SL 40	35
49880ACTIVIVA	MASTER TL5 HO ActiviVa Natural 49W 1SL 40	40
49940	MASTER TL5 HO 90 De Luxe 49W/940 1SL 15	39
49950	MASTER TL5 HO 90 De Luxe 49W/950 1SL 15	39
49965	MASTER TL5 HO 90 De Luxe 49W/965 1SL 15	39
5/8ESNIGHT	Nightlight 5/8W E27 220-250V P45 FR 1CT 10X10F	162
500IDE	HalogenA IDE 500W E24 240V CL 1CT 6	138
5060ESCP	Standard ELV 60W E27/BRC 50W A60 CL 1CT 12X10F	161
50830	MASTER TL-D HF Super 80 50W/830 1SL 25	25
50840	MASTER TL-D HF Super 80 50W/840 1SL 25	22
50ALU11124D	Aluline 111 50W G53 12V 24D 1CT 6	122
50ALU1118D	Aluline 111 50W G53 12V 8D 1CT 6X1F	122
50CDOTT828	MASTER CityWhite CDO-TT 50W/828 E27 1SL 12	92
50ESHALPAR20FL	HalogenA PAR20 50W E27 240V 25D 1CT 15	132
50ESHALPAR20SP	HalogenA PAR20 50W E27 240V 10D 1CT 15	132
50HPLCOM	HPL Comfort 50W/534 E27 SG SLV 24	101
50HPLN	HPL-N 50W/542 E27 SG SLV 24	102
50SDWT	MASTER SDW-T 50W/825 PG12-1 1SL 12	84
50SDWTG	MASTER SDW-TG Mini 50W/825 GX12-1 1CT 12	83
50SONE	SON 50W/220 E27 1SL 24	96
50SONI	SON 50W/220 I E27 1SL 24	96
50SONTPLUS	MASTER SON-T PIA Plus 50W/220 E27 1SL 12	93
51830TLDECO	MASTER TL-D Eco 51W/830 1SL 25	22
51840TLDECO	MASTER TL-D Eco 51W/840 1SL 25	22
51865TLDECO	MASTER TL-D Eco 51W/865 1SL 25	22
53BCECO30CLA55	EcoClassic30 53W B22 240V A60 CL 1CT 10	135
53ESECO30CLA55	EcoClassic30 53W E27 240V A60 CL 1CT 10	135
54817ACTIVIVA	MASTER TL5 HO ActiviVa Active 54W 1SL 40	40
54827	MASTER TL5 HO 54W/827 1SL 40	35
54830	MASTER TL5 HO 54W/830 1SL 40	35
54830IP	MASTER TL5 HO 54W/830 UNP 40	35
54830TOP	MASTER TL5 HO TOP 54W/830 1SL 20	38
54830XTRATL5	MASTER TL5 HO Xtra 54W/830 1SL 20	37
54840	MASTER TL5 HO 54W/840 1SL 40	35
54840IP	MASTER TL5 HO 54W/840 UNP 40	35
54840TL5SEC	MASTER TL5 HO Secura 54W/840 UNP 40	36
54840TOP	MASTER TL5 HO TOP 54W/840 1SL 20	38
54840XTRATL5	MASTER TL5 HO Xtra 54W/840 1SL 20	37
54865	MASTER TL5 HO 54W/865 1SL 40	35
54880ACTIVIVA	MASTER TL5 HO ActiviVa Natural 54W 1SL 40	40
54940	MASTER TL5 HO 90 De Luxe 54W/940 1SL 15	39
54950	MASTER TL5 HO 90 De Luxe 54W/950 1SL 15	39
54965	MASTER TL5 HO 90 De Luxe 54W/965 1SL 15	39
54TL5BLUE	MASTER TL5 HO Colored 54W Blue 1SL 15	40
54TL5GREEN	MASTER TL5 HO Colored 54W Green 1SL 15	40
54TL5RED	MASTER TL5 HO Colored 54W Red 1SL 15	40
55PLL830	MASTER PL-L 55W/830/4P 1CT 25	68
55PLL830POLAR	MASTER PL-L Polar 55W/830/4P 1CT 25	69
55PLL830XTRA	MASTER PL-L Xtra 55W/830/4P 1CT 25	70
55PLL830XTRAPOL	MASTER PL-L Xtra Polar 55W/830/4P 1CT 25	70
55PLL835	MASTER PL-L 55W/835/4P 1CT 25	68
55PLL840	MASTER PL-L 55W/840/4P 1CT 25	68
55PLL840POLAR	MASTER PL-L Polar 55W/840/4P 1CT 25	69
55PLL840XTRA	MASTER PL-L Xtra 55W/840/4P 1CT 25	70
55PLL840XTRAPOL	MASTER PL-L Xtra Polar 55W/840/4P 1CT 25	70
55PLL865	MASTER PL-L 55W/865/4P 1CT 25	68
55TL5C830	MASTER TL5 Circular 55W/830 1CT 10	41
55TL5C840	MASTER TL5 Circular 55W/840 1CT 10	41
5761	5761 30W G4 6V 1CT 10X10F	127
57PLT8274PINCS	MASTER PL-T 57W/827/4P 1CT 5X10CC	65
57PLT8274PINTOP	MASTER PL-T TOP 57W/827/4P 1CT 5X10CC	66
57PLT8304PINCS	MASTER PL-T 57W/830/4P 1CT 5X10CC	65
57PLT8304PINTOP	MASTER PL-T TOP 57W/830/4P 1CT 5X10CC	66
57PLT8304PXTRA	MASTER PL-T Xtra 57W/830/4P 1CT 5X10CC	67
57PLT8404PINCS	MASTER PL-T 57W/840/4P 1CT 5X10CC	65
57PLT8404PINTOP	MASTER PL-T TOP 57W/840/4P 1CT 5X10CC	66
57PLT8404PXTRA	MASTER PL-T Xtra 57W/840/4P 1CT 5X10CC	67
58817ACTIVIVA	MASTER TL-D ActiviVa Active 58W 1SL 25	30
58827	MASTER TL-D Super 80 58W/827 1SL 25	23
58830	MASTER TL-D Super 80 58W/830 1SL 25	23

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58830IP	MASTER TL-D Super 80 58W/830 UNP 25	23
58830R	MASTER TL-D Reflex 58W/830 1SL 25	25
58830XTRA	MASTER TL-D Xtra 58W/830 1SL 25	26
58830XTRAPOLAR	MASTER TL-D Xtra Polar 58W/830 T12 1SL 10	27
58830XTRASEC	MASTER TL-D Xtra Secura 58W/830 1SL 25	28
58830XTREME	MASTER TL-D Xtreme 58W/830 1SL 25	28
58830XTREMESEC	MASTER TL-D Xtreme Secura 58W/830 1SL 25	30
58835	MASTER TL-D Super 80 58W/835 1SL 25	23
58840	MASTER TL-D Super 80 58W/840 1SL 25	23
58840BSEC	MASTER TL-D Secura 58W/840 1SL 25	24
58840IP	MASTER TL-D Super 80 58W/840 UNP 25	23
58840R	MASTER TL-D Reflex 58W/840 1SL 25	25
58840XTRA	MASTER TL-D Xtra 58W/840 1SL 25	26
58840XTRAPOLAR	MASTER TL-D Xtra Polar 58W/840 T12 1SL 10	27
58840XTRASEC	MASTER TL-D Xtra Secura 58W/840 1SL 25	28
58840XTREME	MASTER TL-D Xtreme 58W/840 1SL 25	28
58840XTREMESEC	MASTER TL-D Xtreme Secura 58W/840 1SL 25	30
58840XTREMEPOLAR	MASTER TL-D Xtreme Polar 58W/840 1SL 10	29
58865	MASTER TL-D Super 80 58W/865 1SL 25	23
58865RFECO	MASTER TL-D Reflex 58W/865 1SL 25	25
58865XTRA	MASTER TL-D Xtra 58W/865 1SL 25	26
58865XTREME	MASTER TL-D Xtreme 58W/865 1SL 25	28
58880ACTIVIVA	MASTER TL-D ActiviVa Natural 58W 1SL 25	30
58930DLP	MASTER TL-D 90 De Luxe 58W/930 1SL SLV 10	31
58940DLP	MASTER TL-D 90 De Luxe 58W/940 1SL SLV 10	31
58950DLP	MASTER TL-D 90 De Luxe 58W/950 1SL SLV 10	31
58950GP	MASTER TL-D 90 Graphica 58W/950 1SL 10	32
58965DLP	MASTER TL-D 90 De Luxe 58W/965 1SL SLV 10	31
58965GP	MASTER TL-D 90 Graphica 58W/965 1SL 10	32
5ESPLE	MASTER PL-Electronic 5W/827 E27 230-240V 1CT 10BOX	48
5ESSOFT8Y	Softone ESaver 5W WW E27 230-240V T60 1PF 1PH 6	52
5PLS8272PINB	MASTER PL-S 5W/827/2P 1CT 5X10CC	59
5PLS8274PINB	MASTER PL-S 5W/827/4P 1CT 5X10CC	60
5PLS8404PINB	MASTER PL-S 5W/840/4P 1CT 5X10CC	60
5SESCANDLEMINI	Softone ESaver 5W WW E14 220-240V B38 1PH 10	53
5SESPL	MASTER PL-Electronic 5W/827 E14 230-240V 1CT 10BOX	48
600SONTGP	MASTER GreenPower CG T 600W E40 1SL 12	95
600SONTPLUS	MASTER SON-T PIA Plus 600W/220 E40 1SL 12	93
608	TL 6W BLB FAM 10X25BOX	43
60BC10PZP	Standard 60W B22 240V A55 CL F10 12	158
60BC1PZP	Standard 60W B22 240V A55 CL 1CT 12X10F	158
60BC2PZP	Standard 60W B22 240V B35 CL 2CT 2X10T/WL	159
60BCRSP1PZP	Reinforced Construction 60W B22 230V A60 FR 1CT 20	161
60CLICKL	Clickline 60W G9 240V CL 1CT 10X10F	138
60COTW728	MASTER CosmoWhite CPO-TW 60W/728 PGZ12 1CT 12	91
60ES1PZP	Standard 60W E27 240V A55 CL 1CT 12X10F	158
60ESR63SPZP	Reflector 60W E27 240V NR63 30D 1CT 30	164
60ESR80SPZP	Reflector 60W E27 240V NR80 25D 1CT 30	165
60ESR80ZP	Reflector 60W E27 240V E80 80D 1CT 30	165
60ESRSP1PEP	Reinforced Construction 60W E27 230V A60 FR 1CT 20	161
60ML11124D	MASTERLine 111 60W G53 12V 24D 1CT 6	119
60ML11145D	MASTERLine 111 60W G53 12V 45D 1CT 6	119
60ML1118D	MASTERLine 111 60W G53 12V 8D 1CT 6	119
60PLH830	MASTER PL-H 60W/830/4P 1CT 10	71
60PLH840	MASTER PL-H 60W/840/4P 1CT 10	71
60S14SPHZP	Philinea 60W S14s 240V T30 WH 1CT 25	160
60TL5C830	MASTER TL5 Circular 60W/830 1CT 10	41
60TL5C840	MASTER TL5 Circular 60W/840 1CT 10	41
633	TL Mini 6W/33-640 1FM 10X25CC	42
63830TLDECO	MASTER TL-D Eco 63W/830 1SL 25	22
63840TLDECO	MASTER TL-D Eco 63W/840 1SL 25	22
6423	6423 150W GZ6.35 15V 1CT 10X5F	124
6424	Aluline 15W 6V R37 6D CL 1CT 10X5F	122
6425	Aluline 15W 6V R56 4D CL 1CT 10X5F	122
6429	Aluline 35W 6V R56 6D CL 1CT 10X5F	122
6430	Aluline 35W 6V R56 14D CL 1CT 10X5F	122
6433	Aluline 20W 12V R37 6D CL 1CT 10X5F	122
6434	Aluline 20W 12V R37 18D CL 1CT 10X5F	122
6438	Aluline 50W 12V R56 10D CL 1CT 10X5F	122
658010RA	TL 80W/10-R SLV 25	150
6642ECON	Accentline 20W GU5.3 12V 10D 1CT 10X5F	121
6644ECON	Accentline 20W GU5.3 12V 36D 1CT 10X5F	121
6645ECON	Accentline 35W GU5.3 12V 10D 1CT 10X5F	121
6647ECON	Accentline 35W GU5.3 12V 36D 1CT 10X5F	121
6648ECON	Accentline 50W GU5.3 12V 10D 1CT 10X5F	121
6649ECON	Accentline 50W GU5.3 12V 24D 1CT 10X5F	121
6650ECON	Accentline 50W GU5.3 12V 36D 1CT 10X5F	121
6651ECON	Accentline 50W GU5.3 12V 60D 1CT 10X5F	121
6656ECON	Halogen Dichroic 2yr 35W GU5.3 12V 1CT 10X5F	123
6834/8H	6834/8H 100W GZ6.35 12V 1CT 10X5F	125
68SONH	SON H 68W/220 E27 1SL 24	97
6993P	6993P 650W GX9.5 230V 1CT 10	143
6995BP	6995BP 1000W GY9.5 240V 1CT 10	141
700HPLN	HPL-N 700W/542 E40 HG 1SL 6	102
7015TXO	7015TXO 750W GX9.5 100V 1CT 10	140
70830	MASTER TL-D Super 80 70W/830 1SL 25	23
70830XTRA	MASTER TL-D Xtra 70W/830 1SL 25	26
70835	MASTER TL-D Super 80 70W/835 1SL 25	23
70840	MASTER TL-D Super 80 70W/840 1SL 25	23
70840XTRA	MASTER TL-D Xtra 70W/840 1SL 25	26
70BCECO30CL1CT	EcoClassic30 70W B22 240V A60 CL 1CT 10	135
70CDMR11183010	MASTERColour CDM-R111 70W/830 GX8.5 10D 1CT 6	81
70CDMR11183024	MASTERColour CDM-R111 70W/830 GX8.5 24D 1CT 6	81
70CDMR11183040	MASTERColour CDM-R111 70W/830 GX8.5 40D 1CT 6	81

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70CDMR11194224	MASTERColour CDM-R111 70W/942 GX8.5 24D 1CT 6	81
70CDMR830FLP30	MASTERColour CDM-R 70W/830 E27 PAR30L 40D 1CT 6	82
70CDMR830SP30	MASTERColour CDM-R 70W/830 E27 PAR30L 10D 1CT 6	82
70CDMR942P3010	MASTERColour CDM-R 70W/942 E27 PAR30L 10D 1CT 6	82
70CDMR942P3030	MASTERColour CDM-R 70W/942 E27 PAR30L 30D 1CT 6	82
70CDMR942P3040	MASTERColour CDM-R 70W/942 E27 PAR30L 40D 1CT 6	82
70CDMT830	MASTERColour CDM-T 70W/830 G12 1CT 12	78
70CDMT942	MASTERColour CDM-T 70W/942 G12 1CT 12	78
70CDMTC830	MASTERColour CDM-TC 70W/830 G8.5 1CT 12	79
70CDMTC942	MASTERColour CDM-TC 70W/942 G8.5 1CT 12	79
70CDMTCelite930	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT 12	76
70CDMTD830	MASTERColour CDM-TD 70W/830 RX7s 1CT 12	80
70CDMTD942	MASTERColour CDM-TD 70W/942 RX7s 1CT 12	80
70CDMTELITE930	MASTERColour CDM-T Elite 70W/930 G12 1CT 12	76
70CDMTP830	MASTERColour CDM-TP 70W/830 PG12-2 1CT 12	79
70CDMTP942	MASTERColour CDM-TP 70W/942 PG12-2 1CT 12	79
70CDOET828	MASTER CityWhite CDO-ET 70W/828 E27 1SL 24	92
70CDDOT828	MASTER CityWhite CDO-TT 70W/828 E27 1SL 12	92
70ESECO30CL1CT	EcoClassic30 70W E27 240V A60 CL 1CT 10	135
70MHNHD	MHN-TD 70W/842 RX7s 1CT 12	84
70MHWTD	MHN-TD 70W/730 RX7s 1CT 12	84
70SONE	SON 70W/220 E27 1SL 24	96
70SONI	SON 70W/220 I E27 1SL 24	96
70SONIPLUS	MASTER SON PIA Plus 70W/220 I E27 1SL 24	94
70SONT	SON-T 70W/220 E27 1SL 12	96
70SONTPLUS	MASTER SON-T PIA Plus 70W/220 E27 1SL 12	94
750W80VFASTFIT	Hi-Brite 750W FastFit 1CT 10	133
75ALU11124D	Aluline 111 75W G53 12V 24D 1CT 6	122
75ALU11145D	Aluline 111 75W G53 12V 45D 1CT 6	122
75ALU1118D	Aluline 111 75W G53 12V 8D 1CT 6	122
75ESR80SPZP	Reflector 75W E27 240V NR80 25D 1CT 30	165
75PAR30SFL	HalogenA PAR30S 75W E27 240V 30D 1CT 15	133
75PAR30SSP	HalogenA PAR30S 75W E27 240V 10D 1CT 15	133
7787LL	7787LL 400W G6.35 36V 1CT 3X8F	128
7804	7804 900W GY9.5 230V 1CT 10	134
7GU10MINI	Downlighter ESaver 7W WW GU10 R50 1CT 10	55
7PLS8272PINB	MASTER PL-S 7W/827/2P 1CT 5X10CC	59
7PLS8274PINB	MASTER PL-S 7W/827/4P 1CT 5X10CC	60
7PLS8402PINB	MASTER PL-S 7W/840/2P 1CT 5X10CC	59
7PLS8404PINB	MASTER PL-S 7W/840/4P 1CT 5X10CC	60
7SESR50MINI	Downlighter ESaver 7W WW E14 R50 1CT 10	55
80827IP	MASTER TL5 HO 80W/827 UNP 40	35
80830	MASTER TL5 HO 80W/830 1SL 40	35
80830TOP	MASTER TL5 HO TOP 80W/830 1SL 20	38
80830XTRATL5	MASTER TL5 HO Xtra 80W/830 1SL 20	37
80840	MASTER TL5 HO 80W/840 1SL 40	35
80840IP	MASTER TL5 HO 80W/840 UNP 40	35
80840TL5SEC	MASTER TL5 HO Secura 80W/840 UNP 40	36
80840TOP	MASTER TL5 HO TOP 80W/840 1SL 20	38
80840XTRATL5	MASTER TL5 HO Xtra 80W/840 1SL 20	37
80865	MASTER TL5 HO 80W/865 1SL 40	35
80ESHPLN	HPL-N 80W/542 E27 SG 1SL 24	102
80ESPAR38FLZ	PAR38 80W E27 240V FL 30D 1CT 6	165
80ESPAR38YEL	PAR38 Colours 80W E27 240V YE 1CT 12	166
80HPLCOM	HPL Comfort 80W/534 E27 SG 1SL 24	101
80PLL830	MASTER PL-L 80W/830/4P 1CT 25	68
80PLL835	MASTER PL-L 80W/835/4P 1CT 25	68
80PLL840	MASTER PL-L 80W/840/4P 1CT 25	68
833	TL Mini 8W/33-640 1FM 10X25CC	42
85PLH830	MASTER PL-H 85W/830/4P 1CT 10	71
85PLH840	MASTER PL-H 85W/840/4P 1CT 10	71
884	MASTER TL Mini Super 80 8W/840 1FM 10X25CC	42
8BCLUSTRE	Softone ESaver 8W WW B22 230-240V T45 1PP 10	52
8BCPLE	MASTER PL-Electronic 8W/827 B22 230-240V 1CT 10BOX	48
8BCPLEUPRO	PL-Electronic 8W/827 B22 230-240V 1CT 15	49
8BCSOFT8Y	Softone ESaver 8W WW B22 230-240V T60 1PH 6	52
8ESLUSTRE	Softone ESaver 7W WW E27 230-240V T45 1PP 10	52
8ESPLE	MASTER PL-Electronic 8W/827 E27 230-240V 1CT 10BOX	48
8ESR60REFL1P	Downlighter ESaver 8W WW E27 1CT 6	55
8ESSOFT8Y	Softone ESaver 8W WW E27 230-240V T60 1PH 6	52
8ESSOFTPL	Softone ESaver 8W WW E27 230-240V B42 1PF 10	53
8SESCANDMINIB42	Softone ESaver 8W WW E14 230-240V B42 1PF 10	53
8SESLUSTRE	Softone ESaver 7W WW E14 220-240V T45 1PP 10	52
8SESPLE	MASTER PL-Electronic 8W/827 E14 230-240V 1CT 10BOX	48
90CPOTW728	MASTER CosmoWhite CPO-TW 90W/728 PGZ12 1CT 12	91
95830VHOIP	MASTER TL5 VHO TOP 95W/840 UNP 40	38
9BCAMBST		51
9BCNL1P	Nightlight ESaver 9W WW B22 230-240V A65 1PH 6	53
9ESAMBST		51
9ESNL1P	Nightlight ESaver 9W WW E27 230-240V A65 1PH 6	53
9PLS8272PINB	MASTER PL-S 9W/827/2P 1CT 5X10CC	59
9PLS8274PINB	MASTER PL-S 9W/827/4P 1CT 5X10CC	60
9PLS8302PINB	MASTER PL-S 9W/830/2P 1CT 5X10CC	59
9PLS8402PINB	MASTER PL-S 9W/840/2P 1CT 5X10CC	59
9PLS8404PINB	MASTER PL-S 9W/840/4P 1CT 5X10CC	60
A1215	7023 100W GY6.35 12V 1CT 10X10F	128
A1216	7158 150W G6.35 24V 1CT 10X10F	128
A1220	7027 50W G6.35 12V 1CT 10X10F	128
A1223X	7748XHP 250W G6.35 24V 1CT 10X10F	128
A1230	6853FO 75W GZ6.35 12V 1CT 10X5F	124
A1231	6834FO 100W GZ6.35 12V 1CT 10X5F	124
A1231/25H	6834/25H FO 100W GZ6.35 12V 1CT 10X5F	124
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HFMBLUE118SH	HF-M BLUE 118 SH PL-C/PL-T 230-240V UNP 50	206
HFMBLUE121LH	HF-M BLUE 121 LH TL5 230-240V UNP 50	206
HFMBLUE124LH	HF-M BLUE 124 LH TL/TL5/PL-L 230-240V UNP 50	206
HFMBLUE124SH	HF-M BLUE 124 SH TL/TL5/PL-L 230-240V UNP 50	206
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HFR118TLDEII	HF-Regulator 118 TL-D EII 220-240V 50/60Hz UNP 12	196
HFR122TL5C	HF-Regulator 122 TL5C 220-240V 50/60Hz UNP 12	198
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HFR136TLDEII	HF-Regulator 136 TL-D EII 220-240V 50/60Hz UNP 12	196
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HFR154TL5EII	HF-Regulator 154 TL5 EII 220-240V 50/60Hz UNP 12	195
HFR155PLLEII	HF-Regulator 155 PL-L EII 220-240V 50/60Hz UNP 12	197
HFR158TLDEII	HF-Regulator 158 TL-D EII 220-240V 50/60Hz UNP 12	196
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HFR180TL5/PLL	HF-Regulator 180 TL5/PL-L EII 220-240V 50/60Hz UNP 12	195,
HFR21435TL5EII	HF-Regulator 2 14-35 TL5 EII 220-240V 50/60Hz UNP 12	198
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HFR236TLDEII	HF-Regulator 236 TL-D EII 220-240V 50/60Hz UNP 12	196
HFR240PLLEII	HF-Regulator 240 PL-L EII 220-240V 50/60Hz UNP 12	197
HFR249TL5EII	HF-Regulator 249 TL5 EII 220-240V 50/60Hz UNP 12	195
HFR254TL5EII	HF-Regulator 254 TL5 EII 220-240V 50/60Hz UNP 12	195
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HFR258TLDEII	HF-Regulator 258 TL-D EII 220-240V 50/60Hz UNP 12	196
HFR280TL5/PLL	HF-Regulator 280 TL5/PL-L EII 220-240V 50/60Hz UNP 12	196,
HFR280TL5/PLL	HF-Regulator 280 TL5/PL-L EII 220-240V 50/60Hz UNP 12	197
HFR280TL5/PLL	HF-Regulator 280 TL5/PL-L EII 220-240V 50/60Hz UNP 12	196,
HFR314TL5EII	HF-Regulator 314 TL5 EII 220-240V 50/60Hz UNP 10	196
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HFR324TL5EII	HF-Regulator 324 TL5/PL-L EII 220-240V 50/60Hz UNP 10	197
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HFR414TL5EII	HF-Regulator 414 TL5 EII 220-240V 50/60Hz UNP 10	196
HFR418TLDEII	HF-Regulator 418 TL-D EII 220-240V 50/60Hz UNP 10	196
HFR424TL5EII	HF-Regulator 424 TL5/PL-L EII 220-240V 50/60Hz UNP 10	196,
HFR424TL5EII	HF-Regulator 424 TL5/PL-L EII 220-240V 50/60Hz UNP 10	197
HFR424TL5EII	HF-Regulator 424 TL5/PL-L EII 220-240V 50/60Hz UNP 10	196,
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HFRTD118PLTCEII	HF-Regulator TD 118 PL-T/C EII 220-240V 50/60Hz UNP 12	194
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HFRTD136PLLEII	HF-Regulator TD 136 PL-L EII 220-240V 50/60Hz UNP 12	199
HFRTD136TLDEII	HF-Regulator TD 136 TL-D EII 220-240V 50/60Hz UNP 12	193
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HFRTD149TL5EII	HF-Regulator TD 149 TL5 EII 220-240V 50/60Hz UNP 12	192
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HFRTD158TLDEII	HF-Regulator TD 158 TL-D EII 220-240V 50/60Hz UNP 12	193
HFRTD180TL5EII	HF-Regulator TD 180 TL5/PL-L EII 220-240V UNP 12	192,
HFRTD180TL5EII	HF-Regulator TD 180 TL5/PL-L EII 220-240V UNP 12	199
HFRTD180TL5EII	HF-Regulator TD 180 TL5/PL-L EII 220-240V UNP 12	192,
HFRTD180TL5EII	HF-Regulator TD 180 TL5/PL-L EII 220-240V UNP 12	199
HFRTD21417PLREI	HF-Regulator TD 2 14-17 PL-R EII 220-240V UNP 12	194
HFRTD21435TL5EII	HF-Regulator TD 2 14-35 TL5 EII 220-240V 50/60Hz UNP 12	192
HFRTD218PLTCEII	HF-Regulator TD 218 PL-T/C EII 220-240V 50/60Hz UNP 12	194
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HFRTD236TLDEII	HF-Regulator TD 236 TL-D EII 220-240V 50/60Hz UNP 12	193
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HFRTD254TL5EII	HF-Regulator TD 254 TL5 EII 220-240V 50/60Hz UNP 12	192
HFRTD255PLLEII	HF-Regulator TD 255 PL-L EII 220-240V 50/60Hz UNP 12	199
HFRTD258TLDEII	HF-Regulator TD 258 TL-D EII 220-240V 50/60Hz UNP 12	193
HFRTD280TL5/PLL	HF-Regulator TD 280 TL5/PL-L EII 220-240V UNP 12	192,
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HFRTD280TL5/PLL	HF-Regulator TD 280 TL5/PL-L EII 220-240V UNP 12	192,
HFRTD280TL5/PLL	HF-Regulator TD 280 TL5/PL-L EII 220-240V UNP 12	199
HFRTD314TL5EII	HF-Regulator TD 314 TL5 EII 220-240V 50/60Hz UNP 10	192
HFRTD414TL5EII	HF-Regulator TD 414 TL5 EII 220-240V 50/60Hz UNP 10	192
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13528 15W GZ4 6V 1CT	8711500 409782 60	123
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13824 360W GY5.3 82V 1CT	8711500 410641 30	124
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13938XHP 50W GX5.3 22.8V 1CT	8711500 438881 60	124
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6423XHP FO 150W GZ6.35 15V 1CT	8711500 411822 60	124
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6605 10W G4 6V 1CT	8711500 410092 50	127
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6800C 600W P28s 240V 1CT	8711500 184849 25	142
6820P 500W GY9.5 240V 1CT	8711500 184634 25	142
6823P 650W GY9.5 240V 1CT	8711500 184573 25	142
6834/25H FO 100W GZ6.35 12V 1CT	8711500 404428 60	124
6834RH 100W GZ6.35 12V 1CT	8711500 436832 60	125
6834FO 100W GZ6.35 12V 1CT	8711500 409737 60	124
6853FO 75W GZ6.35 12V 1CT	8711500 409744 60	124
6872P 300W GY9.5 240V 1CT	8711500 187598 25	143
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6963Z 5000W G38 240V UNP	8711500 186782 00	143
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6998C 650W P28s 240V 1CT	8711500 185082 25	142
6998P 650W GX9.5 240V 1CT	8711500 184900 25	142
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7387 10W G4 6V 1CT	8711500 410276 50	127
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7748XHP 250W G6.35 24V 1CT	8711500 410290 50	128
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Aluline 111 75W G53 12V 8D 1CT	8711500 426987 33	122
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Aluline 20W 12V R37 6D CL 1CT	8711500 401946 60	122
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BBG464 LED-25-4200-GU10 7W WH 50W	8717943 888290 99	225
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BBG466 LED-25-3000-GU10 3W WH 35W	8717943 887842 99	224
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Brilliantine Dichroic 20W GU5.3 12V MR16 10D 1CT	8711500 425459	60 119
Brilliantine Dichroic 20W GU5.3 12V MR16 24D 1CT	8711500 424716	60 120
Brilliantine Dichroic 20W GU5.3 12V MR16 36D 1CT	8711500 424846	60 120
Brilliantine Dichroic 35W GU4 12V MR11 10D 1CT	8711500 425430	60 120
Brilliantine Dichroic 35W GU4 12V MR11 30D 1CT	8711500 425461	60 120
Brilliantine Dichroic 35W GU5.3 12V MR16 10D 1CT	8711500 424907	60 120
Brilliantine Dichroic 35W GU5.3 12V MR16 24D 1CT	8711500 424938	60 120
Brilliantine Dichroic 35W GU5.3 12V MR16 36D 1CT	8711500 425041	60 120
Brilliantine Dichroic 35W GU5.3 12V MR16 60D 1CT	8711500 425072	60 120
Brilliantine Dichroic 50W GU5.3 12V MR16 10D 1CT	8711500 425102	60 120
Brilliantine Dichroic 50W GU5.3 12V MR16 24D 1CT	8711500 425133	60 120
Brilliantine Dichroic 50W GU5.3 12V MR16 36D 1CT	8711500 425164	60 120
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Capsuleline 10W G4 12V CL 4000h 1CT	8711500 409706	50 127
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Capsuleline 20W G4 24V CL 4000h 1CT	8711500 409621	50 127
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Capsuleline 50W GY6.35 12V CL 2000h 1CT	8711500 412959	50 127
Capsuleline 50W GY6.35 12V CL 4000h 1CT	8711500 402172	50 127
Capsuleline 50W GY6.35 24V CL 4000h 1CT	8711500 409638	50 127
Capsuleline 75W GY6.35 12V CL 4000h 1CT	8711500 402165	50 127
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Downlighter ESaver 7W WW SES R50 1CT	8727900 212006	25 55
Downlighter ESaver 8W WW ES 1CT	8711500 797988	10 55
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EcoClassic30 42W BC 240V BW35 CL 1CT	8727900 863802	00 136
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EcoClassic30 53W BC 240V A60 CL 1CT	8727900 251883	25 135
EcoClassic30 53W ES 240V A60 CL 1CT	8727900 251807	25 135
EcoClassic30 70W BC 240V A60 CL 1CT	8727900 251890	25 135
EcoClassic30 70W ES 240V A60 CL 1CT	8727900 251814	25 135
EcoHalo Twist 35W GU10 240V MR16 50D 1CT	8727900 864175	00 129
EXC 35 SOX 220-240V 50/60Hz UNP	8711500 062383	30 179
EXC 36 SOX-E 220-240V 50/60Hz UNP	8711500 062406	30 179
EXC 55 SOX 220-240V 50/60Hz UNP	8711500 062420	30 179
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extension cable 4-wire UNP	8711559 763934	00 8, 19
Halogen Dichroic 2yr 35W GU5.3 12V 1CT	8711500 413093	60 123
Halogen Dichroic 2yr 35W GU5.3 12V 36D 1CT	8727900 252439	60 123
Halogen Dichroic 2yr 50W GU5.3 12V 36D 1CT	8727900 252446	60 123
Halogen Twist 2yr 50W GZ10 240V 20D 1CT	8711500 428417	60 131
Halogen Twist 2yr 50W GZ10 240V 40D 1CT	8711500 428448	60 131
HalogenA IDE 1000W GES 240V CL 1CT	8711500 491299	10 138
HalogenA IDE 500W GES 240V CL 1CT	8711500 491275	10 138
HalogenA PAR16 40W SES 240V 25D 1BL	8711500 438614	25 132
HalogenA PAR20 50W ES 240V 10D 1CT	8711500 494887	20 132
HalogenA PAR20 50W ES 240V 25D 1CT	8711500 494900	20 132
HalogenA PAR30S 75W ES 240V 10D 1CT	8711500 504425	20 133
HalogenA PAR30S 75W ES 240V 30D 1CT	8711500 504401	20 133
HF-M BLUE 105 LH TL/PL-S 230-240V UNP	8711500 536785	30 206
HF-M BLUE 109 LH TL/PL-S 230-240V UNP	8711500 536808	30 206
HF-M BLUE 109 SH TL/PL-S 230-240V UNP	8711500 536747	30 206
HF-M BLUE 114 LH TL/PL-S/PL-C 230-240V UNP	8711500 536822	30 206
HF-M BLUE 114 SH TL/PL-S/PL-C 230-240V UNP	8711500 536761	30 206
HF-M BLUE 118 SH PL-C/PL-T 230-240V UNP	8711500 741660	30 206
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HF-M BLUE 124 LH TL5/PL-L 230-240V UNP	8711500 536402	30 206
HF-M BLUE 124 SH TL5/PL-L 230-240V UNP	8711500 536389	30 206
HF-M BLUE 128 LH TL5 230-240V UNP	8711500 932433	30 206
HF-M RED 109 SH TL/PL-S 230-240V UNP	8711500 914239	30 205
HF-M RED 113 SH PL-S/PL-C 230-240V UNP	8711500 927989	30 205
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HF-M RED 118 SH PL-C/PL-T 230-240V UNP	8711500 928023	30 205
HF-M RED 124 SH TL/PL5/L 230-240V UNP	8711500 910400	30 205
HF-Performer 1 13-17 PL-T/C/R EII 220-240V UNP	8711500 914071	30 205
HF-Performer 1 14-35 TL5 HE EII 220-240V 50/60Hz UNP	8711500 928559	30 201
HF-Performer 1 22-42 PL-T/C/L/TL5C EII 220-240V UNP	8711500 913975	30 205
HF-Performer 1 24-39 TL5 HO EII 220-240V 50/60Hz UNP	8711500 928573	30 201
HF-Performer 1 95-120 TL5 EII 220-240V 50/60Hz UNP	8711500 914828	30 201
HF-Performer 118 PL-T/C EII 220-240V 50/60Hz UNP	8711500 914033	30 205
HF-Performer 118 TL-D EII 220-240V 50/60Hz UNP	8711500 934086	30 202
HF-Performer 136 PL-L EII 220-240V 50/60Hz UNP	8711500 063700	30 203
HF-Performer 136 TL-D EII 220-240V 50/60Hz UNP	8711500 931467	30 202
HF-Performer 140 PL-L EII 220-240V 50/60Hz UNP	8711500 063724	30 203
HF-Performer 149 TL5 HO EII 220-240V 50/60Hz UNP	8711500 928597	30 201
HF-Performer 154 TL5 HO EII 220-240V 50/60Hz UNP	8711500 928610	30 201
HF-Performer 155 PL-L EII 220-240V 50/60Hz UNP	8711500 063748	30 204
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HF-Performer 2 13-17 PL-T/C/R EII 220-240V UNP	8711500 914095	30 205
HF-Performer 2 14-35 TL5 HE EII 220-240V 50/60Hz UNP	8711500 910233	30 201
HF-Performer 2 22-42 PL-T/C/L/TL5C EII 220-240V UNP	8711500 913999	30 205
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HF-Performer 3/418 TL-D EII 220-240V 50/60Hz UNP	8711500 931641 30	202
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HF-Regulator 140 PL-L EII 220-240V 50/60Hz UNP	8711500 914705 30	197
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HF-Regulator 2 26-42 PL-T/C EII 220-240V 50/60Hz UNP	8727900 809725 00	198
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HF-Regulator 236 TL-D EII 220-240V 50/60Hz UNP	8711500 910158 30	196
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HF-Regulator 255 PL-L EII 220-240V 50/60Hz UNP	8711500 911889 30	197
HF-Regulator 258 TL-D EII 220-240V 50/60Hz UNP	8711500 910196 30	196
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HF-Regulator TD 1 14-35 TL5 EII 220-240V 50/60Hz UNP	8711500 911582 30	192
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HF-Regulator TD 139 TL5 EII 220-240V 50/60Hz UNP	8711500 914484 30	192
HF-Regulator TD 140 PL-L EII 220-240V 50/60Hz UNP	8711500 914507 30	199
HF-Regulator TD 149 TL5 EII 220-240V 50/60Hz UNP	8711500 908889 30	192
HF-Regulator TD 154 TL5 EII 220-240V 50/60Hz UNP	8711500 909619 30	192
HF-Regulator TD 155 PL-L EII 220-240V 50/60Hz UNP	8711500 911681 30	199
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HF-Regulator TD 224 TL5/PL-L EII 220-240V UNP	8711500 914521 30	192, 199
HF-Regulator TD 224 TL5/PL-L EII 220-240V UNP	8711500 914521 30	192, 199
HF-Regulator TD 236 PL-L EII 220-240V 50/60Hz UNP	8711500 911667 30	193
HF-Regulator TD 236 TL-D EII 220-240V 50/60Hz UNP	8711500 909695 30	199
HF-Regulator TD 240 PL-L EII 220-240V 50/60Hz UNP	8711500 914583 30	199
HF-Regulator TD 249 TL5 EII 220-240V 50/60Hz UNP	8711500 909596 30	192
HF-Regulator TD 254 TL5 EII 220-240V 50/60Hz UNP	8711500 909633 30	192
HF-Regulator TD 255 PL-L EII 220-240V 50/60Hz UNP	8711500 911704 30	199
HF-Regulator TD 258 TL-D EII 220-240V 50/60Hz UNP	8711500 909732 30	193
HF-Regulator TD 280 TL5/PL-L EII 220-240V UNP	8711500 910677 30	192, 199
HF-Regulator TD 280 TL5/PL-L EII 220-240V UNP	8711500 910677 30	192, 199
HF-Regulator TD 314 TL5 EII 220-240V 50/60Hz UNP	8711500 913517 30	192
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HF-Regulator TD 418 TL-D EII 220-240V 50/60Hz UNP	8711500 913586 30	193
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HID-DV LS-6 Xt 140 /S CPO-TW 220-240V UNP	8727900 813494 00	177
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HID-HeavyDuty BSN 400 L34-TS 240V 50Hz HD3-166 UNP	8711500 059789 30	184
HID-HeavyDuty BSN 70 L34-TS 240V 50Hz HD1-118 UNP	8711500 059703 31	184
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HID-HighPower BHD 2000 L76 380/400/415V 50Hz HP-317 UNP	8711500 572666 00	185
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LED Driver Indoor 8W/0.7A 100-255V 1CT	8710163 062228	30 219
LED Driver Outdoor 40W/1.75A-24V 230V UNP	8711500 912732	30 219
LED Driver Outdoor 67W/2.80A-24V 230V UNP	8711500 931207	30 219
LED Driver Outdoor 80W/3.15A-24V 230V UNP	8711500 931245	30 219
LED Power Driver Outd. 100-240V 100W 24V UNP	8711500 911964	30 220
LED Power Driver Outd. 100-240V 20W 24V UNP	8711500 911940	30 220
LED Power Driver Outd. 100-240V 60W 24V UNP	8711500 911469	30 220
LivingColors Black UK 1CT	8727900 270198	47 17
LivingColors Crystal Clear UK 1CT	8727900 270020	00 17
LivingColors Mini Glossy Black UK 1CT	8727900 536843	45 18
LivingColors Mini Glossy White UK 1CT	8727900 536836	45 18
LivingColors Mini Silver UK 1CT	8727900 536867	45 18
LRM1070/00 SENSR SURFACE BOX	8711559 731438	99 222
LRM1070/00 SENSR MOV DET ST	8711559 731384	99 222
LRM1080/00 SENSR MOV DET ST IR	8711559 731407	99 222
LS hp cable 4xAWG24 UNP	8727900 805901	00 18
LS hp connector end cap UNP	8727900 805932	00 8
LS hp mounting clip UNP	8727900 805895	00 8
MASTER CityWhite CDO-ET 100W/828 GES 1SL	8711500 206794	30 92
MASTER CityWhite CDO-ET 150W/828 GES 1SL	8711500 205483	15 92
MASTER CityWhite CDO-ET 70W/828 ES 1SL	8711500 205445	30 92
MASTER CityWhite CDO-TT 100W/828 GES 1SL	8711500 206817	15 92
MASTER CityWhite CDO-TT 150W/828 GES 1SL	8711500 205360	15 92
MASTER CityWhite CDO-TT 250W/828 GES 1SL	8711500 209054	15 92
MASTER CityWhite CDO-TT 50W/828 ES 1SL	8727900 800296	00 92
MASTER CityWhite CDO-TT 70W/828 ES 1SL	8711500 205469	15 92
MASTER CosmoWhite CPO-TW 140W/728 PGZ12 1CT	8711500 208538	15 91
MASTER CosmoWhite CPO-TW 45W/628 PGZ12 1CT	8711500 211194	15 91
MASTER CosmoWhite CPO-TW 60W/728 PGZ12 1CT	8711500 208514	15 91
MASTER CosmoWhite CPO-TW 90W/728 PGZ12 1CT	8711500 211217	15 91
MASTER GreenPower CG T 400W GES 1SL	8711500 201966	15 95
MASTER GreenPower CG T 600W GES 1SL	8711500 202024	15 95
MASTER HPI Plus 250W/745 BU GES 1SL	8711500 181145	15 101
MASTER HPI Plus 250W/745 BU-P GES 1SL	8711500 211477	15 101
MASTER HPI Plus 250W/767 BU GES 1SL	8711500 207395	15 101
MASTER HPI Plus 400W/745 BU GES 1SL	8711500 182524	10 101
MASTER HPI Plus 400W/745 BU-P GES 1SL	8711500 211439	10 101
MASTER HPI Plus 400W/745 BUS GES 1SL	8711500 181114	10 101
MASTER HPI Plus 400W/745 BUS-P GES 1SL	8711500 211453	10 101
MASTER HPI Plus 400W/767 BU GES 1SL	8711500 207371	10 101
MASTER HPI-T Plus 250W/645 GES 1SL	8711500 179890	15 100
MASTER HPI-T Plus 400W/645 GES 1SL	8711500 179906	15 100
MASTER LEDbulb 6W ES 2700K 230V A55 1CT	8727900 853537	00 9
MASTER LEDbulb 6W ES 4200K 230V A55 1CT	8727900 867381	00 9
MASTER LEDbulb 7W BC 2700K 230V A60 1CT	8727900 866513	00 9
MASTER LEDbulb 7W ES 2700K 230V A60 1CT	8727900 853056	00 9
MASTER LEDspot 11W 2700K 230V PAR30S 25D 1CT	8727900 853018	00 12
MASTER LEDspot 16W 2700K 230V PAR38 25D 1CT	8727900 852998	00 12
MASTER LEDspot 16W 2700K 230V PAR38 OD 1CT	8727900 853032	00 12
MASTER LEDspotLV 4-20W 2700K MR16 24D 1CT	8727900 819564	00 10
MASTER LEDspotLV 4-20W 3000K MR16 24D 1CT	8727900 819588	00 10
MASTER LEDspotMV 3-35W GU10 3000K 25D 1CT	8727900 852974	00 11
MASTER LEDspotMV 7-35W GU10 2700K 25D 1CT	8727900 867671	00 11
MASTER LEDspotMV 7-35W GU10 2700K 40D 1CT	8727900 867725	00 11
MASTER LEDspotMV 7-35W GU10 3000K 25D 1CT	8727900 867565	00 11
MASTER LEDspotMV 7-35W GU10 3000K 40D 1CT	8727900 867640	00 11
MASTER LEDspotMV 7-35W GU10 4200K 25D 1CT	8727900 867527	00 11
MASTER LEDspotMV 7-35W GU10 4200K 40D 1CT	8727900 867589	00 11
MASTER LEDspotMV 7-50W GU10 2700K 25D 1CT	8727900 860337	00 11
MASTER LEDspotMV 7-50W GU10 2700K 40D 1CT	8727900 860351	00 11
MASTER LEDspotMV 7-50W GU10 3000K 25D 1CT	8727900 860399	00 11
MASTER LEDspotMV 7-50W GU10 3000K 40D 1CT	8727900 860412	00 11
MASTER LEDspotMV 7-50W GU10 4200K 25D 1CT	8727900 860436	00 11
MASTER LEDspotMV 7-50W GU10 4200K 40D 1CT	8727900 860450	00 11
MASTER LEDspotMV 7W 2700K 230V NR63 25D 1CT	8727900 867442	00 11
MASTER LEDspotMV 7W 2700K 230V NR63 40D 1CT	8727900 867480	00 11
MASTER LEDspotMV 7W 4200K 230V NR63 25D 1CT	8727900 867428	00 11
MASTER LEDspotMV 7W 4200K 230V NR63 40D 1CT	8727900 867466	00 11
MASTER MHN-FC 1000W/740 230V XW UNP	8711500 214249	00 99
MASTER MHN-FC 2000W/740 400V XW UNP	8711500 213495	00 99
MASTER MHN-LA 1000W/842 230V XWH UNP	8711500 200785	00 98
MASTER MHN-LA 1000W/956 230V XWH UNP	8711500 200778	00 98
MASTER MHN-LA 2000W/842 400V XWH UNP	8711500 200747	00 98
MASTER MHN-LA 2000W/956 400V XWH UNP	8711500 200730	00 98
MASTER MHN-SA 1800W/956 (P)SFC 230V UNP	8711500 200754	00 98
MASTER MHN-SA 1800W/956 (P)SFC 400V UNP	8711500 200761	00 98
MASTER MHN-SA 1800W/956 230V XW UNP	8711500 201065	00 98
MASTER MHN-SA 2000W/956 400V XW UNP	8711500 200792	00 98

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MASTER PAR20 E 20W ES 240V 10D 1CT	8711500 412393	17 131
MASTER PAR20 E 20W ES 240V 25D 1CT	8711500 412379	17 131
MASTER PL-C 10W/827/2P 1CT	8711500 706812	70 61
MASTER PL-C 10W/827/4P 1CT	8711500 623256	70 62
MASTER PL-C 10W/830/2P 1CT	8711500 707246	70 61
MASTER PL-C 10W/830/4P 1CT	8711500 623294	70 62
MASTER PL-C 10W/840/2P 1CT	8711500 704986	70 61
MASTER PL-C 10W/840/4P 1CT	8711500 623300	70 62
MASTER PL-C 13W/827/2P 1CT	8711500 623011	70 61
MASTER PL-C 13W/827/4P 1CT	8711500 623263	70 62
MASTER PL-C 13W/830/2P 1CT	8711500 620842	70 61
MASTER PL-C 13W/830/4P 1CT	8711500 623317	70 62
MASTER PL-C 13W/840/2P 1CT	8711500 620866	70 61
MASTER PL-C 13W/840/4P 1CT	8711500 623324	70 62
MASTER PL-C 18W/827/2P 1CT	8711500 620880	70 61
MASTER PL-C 18W/827/4P 1CT	8711500 623270	70 62
MASTER PL-C 18W/830/2P 1CT	8711500 620910	70 61
MASTER PL-C 18W/830/4P 1CT	8711500 623331	70 62
MASTER PL-C 18W/835/2P 1CT	8711500 866462	70 61
MASTER PL-C 18W/840/2P 1CT	8711500 620934	70 61
MASTER PL-C 18W/840/4P 1CT	8711500 623348	70 62
MASTER PL-C 26W/827/2P 1CT	8711500 620958	70 61
MASTER PL-C 26W/827/4P 1CT	8711500 623287	70 62
MASTER PL-C 26W/830/2P 1CT	8711500 620989	70 61
MASTER PL-C 26W/830/4P 1CT	8711500 623355	70 62
MASTER PL-C 26W/835/2P 1CT	8711500 866509	70 61
MASTER PL-C 26W/835/4P 1CT	8711500 866530	70 62
MASTER PL-C 26W/840/2P 1CT	8711500 621009	70 61
MASTER PL-C 26W/840/4P 1CT	8711500 623362	70 62
MASTER PL-C 26W/865/2P 1CT	8711500 635310	70 61
MASTER PL-C Xtra 18W/830/2P 1CT	8711500 898951	70 63
MASTER PL-C Xtra 18W/830/4P 1CT	8711500 950338	70 63
MASTER PL-C Xtra 18W/840/2P 1CT	8711500 950307	70 63
MASTER PL-C Xtra 18W/840/4P 1CT	8711500 950369	70 63
MASTER PL-C Xtra 26W/830/2P 1CT	8711500 898838	70 63
MASTER PL-C Xtra 26W/830/4P 1CT	8711500 898890	70 63
MASTER PL-C Xtra 26W/840/2P 1CT	8711500 898869	70 63
MASTER PL-C Xtra 26W/840/4P 1CT	8711500 898920	70 63
MASTER PL-Electronic 11W/827 BC 230-240V 1CT	8711500 263759	25 48
MASTER PL-Electronic 11W/827 ES 230-240V 1CT	8711500 263681	25 48
MASTER PL-Electronic 11W/827 SES 230-240V 1CT	8711500 263773	25 48
MASTER PL-Electronic 15W/827 BC 230-240V 1CT	8711500 752055	10 48
MASTER PL-Electronic 15W/827 ES 230-240V 1CT	8711500 751423	10 48
MASTER PL-Electronic 20W/827 BC 230-240V 1CT	8711500 752062	10 48
MASTER PL-Electronic 20W/827 ES 230-240V 1CT	8711500 751430	10 48
MASTER PL-Electronic 23W/827 BC 230-240V 1CT	8711500 752079	10 48
MASTER PL-Electronic 23W/827 ES 230-240V 1CT	8711500 751447	10 48
MASTER PL-Electronic 27W/827 ES 230-240V 1CT	8711500 543851	10 48
MASTER PL-Electronic 33W/827 ES 230-240V 1CT	8711500 659996	10 48
MASTER PL-Electronic 5W/827 ES 230-240V 1CT	8711500 263537	25 48
MASTER PL-Electronic 5W/827 SES 230-240V 1CT	8711500 263568	25 48
MASTER PL-Electronic 8W/827 BC 230-240V 1CT	8711500 263636	25 48
MASTER PL-Electronic 8W/827 ES 230-240V 1CT	8711500 263582	25 48
MASTER PL-Electronic 8W/827 SES 230-240V 1CT	8711500 263667	25 48
MASTER PL-Electronic Automatic 15W/827 BC 1CT	8727900 260618	10 50
MASTER PL-Electronic Automatic 15W/827 ES 1CT	8727900 260601	10 50
MASTER PL-Electronic Polar 15W/827 ES 1CT	8711500 660459	10 49
MASTER PL-Electronic Polar 20W/827 ES 1CT	8711500 660039	10 49
MASTER PL-Electronic Polar 23W/827 ES 1CT	8711500 660053	10 49
MASTER PL-H 120W/830/4P 1CT	8711500 264039	25 71
MASTER PL-H 120W/840/4P 1CT	8711500 264053	25 71
MASTER PL-H 60W/830/4P 1CT	8711500 264077	25 71
MASTER PL-H 60W/840/4P 1CT	8711500 264091	25 71
MASTER PL-H 85W/830/4P 1CT	8711500 264114	25 71
MASTER PL-H 85W/840/4P 1CT	8711500 264237	25 71
MASTER PL-L 18W/830/4P 1CT	8711500 706683	40 68
MASTER PL-L 18W/835/4P 1CT	8711500 643285	40 68
MASTER PL-L 18W/840/4P 1CT	8711500 706690	40 68
MASTER PL-L 18W/865/4P 1CT	8711500 635143	40 68
MASTER PL-L 24W/830/4P 1CT	8711500 706713	40 68
MASTER PL-L 24W/835/4P 1CT	8711500 643308	40 68
MASTER PL-L 24W/840/4P 1CT	8711500 706720	40 68
MASTER PL-L 24W/865/4P 1CT	8711500 635174	40 68
MASTER PL-L 36W/830/4P 1CT	8711500 706744	40 68
MASTER PL-L 36W/840/4P 1CT	8711500 706751	40 68
MASTER PL-L 36W/865/4P 1CT	8711500 635204	40 68
MASTER PL-L 40W/830/4P 1CT	8711500 610942	40 68
MASTER PL-L 40W/835/4P 1CT	8711500 638656	40 68
MASTER PL-L 40W/840/4P 1CT	8711500 610973	40 68
MASTER PL-L 55W/830/4P 1CT	8711500 615411	40 68
MASTER PL-L 55W/835/4P 1CT	8711500 636652	40 68
MASTER PL-L 55W/840/4P 1CT	8711500 615428	40 68
MASTER PL-L 55W/865/4P 1CT	8711500 261700	40 68
MASTER PL-L 80W/830/4P 1CT	8711500 867087	40 68
MASTER PL-L 80W/835/4P 1CT	8711500 867100	40 68
MASTER PL-L 80W/840/4P 1CT	8711500 867124	40 68
MASTER PL-L Polar 24W/830/4P 1CT	8711500 261540	40 69
MASTER PL-L Polar 24W/840/4P 1CT	8711500 261564	40 69
MASTER PL-L Polar 36W/830/4P 1CT	8711500 261588	40 69
MASTER PL-L Polar 36W/840/4P 1CT	8711500 261601	40 69
MASTER PL-L Polar 55W/830/4P 1CT	8711500 261625	40 69
MASTER PL-L Polar 55W/840/4P 1CT	8711500 261649	40 69
MASTER PL-L Xtra 24W/830/4P 1CT	8711500 267672	40 69
MASTER PL-L Xtra 24W/840/4P 1CT	8711500 267702	40 69

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MASTER PL-L Xtra 36W/830/4P 1CT	8711500 897589	40 70
MASTER PL-L Xtra 36W/840/4P 1CT	8711500 897602	40 70
MASTER PL-L Xtra 40W/830/4P 1CT	8711500 267801	40 70
MASTER PL-L Xtra 40W/840/4P 1CT	8711500 267825	40 70
MASTER PL-L Xtra 55W/830/4P 1CT	8711500 897626	40 70
MASTER PL-L Xtra 55W/840/4P 1CT	8711500 897640	40 70
MASTER PL-L Xtra Polar 24W/830/4P 1CT	8711500 267726	40 70
MASTER PL-L Xtra Polar 24W/840/4P 1CT	8711500 267740	40 70
MASTER PL-L Xtra Polar 36W/830/4P 1CT	8711500 267764	40 70
MASTER PL-L Xtra Polar 36W/840/4P 1CT	8711500 267788	40 70
MASTER PL-L Xtra Polar 55W/830/4P 1CT	8711500 267849	40 70
MASTER PL-L Xtra Polar 55W/840/4P 1CT	8711500 267863	40 70
MASTER PL-R Eco 14W/830/4P 1CT	8711500 265951	70 58
MASTER PL-R Eco 14W/840/4P 1CT	8711500 265982	70 58
MASTER PL-R Eco 17W/830/4P 1CT	8711500 266019	70 58
MASTER PL-R Eco 17W/840/4P 1CT	8711500 266040	70 58
MASTER PL-S 11W/827/2P 1CT	8711500 261014	70 59
MASTER PL-S 11W/827/4P 1CT	8711500 261144	70 60
MASTER PL-S 11W/840/2P 1CT	8711500 261090	70 59
MASTER PL-S 11W/840/4P 1CT	8711500 261229	70 60
MASTER PL-S 5W/827/2P 1CT	8711500 260451	70 59
MASTER PL-S 5W/827/4P 1CT	8711500 260512	70 60
MASTER PL-S 5W/840/4P 1CT	8711500 260543	70 60
MASTER PL-S 7W/827/2P 1CT	8711500 260574	70 59
MASTER PL-S 7W/827/4P 1CT	8711500 260703	70 60
MASTER PL-S 7W/840/2P 1CT	8711500 260659	70 59
MASTER PL-S 7W/840/4P 1CT	8711500 260765	70 60
MASTER PL-S 9W/827/2P 1CT	8711500 260796	70 59
MASTER PL-S 9W/827/4P 1CT	8711500 260901	70 60
MASTER PL-S 9W/830/2P 1CT	8711500 260840	70 59
MASTER PL-S 9W/840/2P 1CT	8711500 260871	70 59
MASTER PL-S 9W/840/4P 1CT	8711500 260963	70 60
MASTER PL-T 13W/827/2P 1CT	8711500 559265	70 64
MASTER PL-T 13W/827/4P 1CT	8711500 559760	70 65
MASTER PL-T 13W/830/2P 1CT	8711500 272119	70 64
MASTER PL-T 13W/830/4P 1CT	8711500 610447	70 65
MASTER PL-T 13W/840/2P 1CT	8711500 559739	70 64
MASTER PL-T 13W/840/4P 1CT	8711500 610478	70 65
MASTER PL-T 18W/827/2P 1CT	8711500 559791	70 64
MASTER PL-T 18W/827/4P 1CT	8711500 559821	70 65
MASTER PL-T 18W/830/2P 1CT	8711500 610508	70 64
MASTER PL-T 18W/830/4P 1CT	8711500 610768	70 65
MASTER PL-T 18W/840/2P 1CT	8711500 610614	70 64
MASTER PL-T 18W/840/4P 1CT	8711500 610997	70 65
MASTER PL-T 26W/827/2P 1CT	8711500 559883	70 64
MASTER PL-T 26W/827/4P 1CT	8711500 559937	70 65
MASTER PL-T 26W/830/2P 1CT	8711500 611024	70 64
MASTER PL-T 26W/830/4P 1CT	8711500 611208	70 65
MASTER PL-T 26W/840/2P 1CT	8711500 611130	70 64
MASTER PL-T 26W/840/4P 1CT	8711500 611253	70 65
MASTER PL-T 32W/827/4P 1CT	8711500 559968	70 65
MASTER PL-T 32W/830/4P 1CT	8711500 611284	70 65
MASTER PL-T 32W/840/4P 1CT	8711500 611314	70 66
MASTER PL-T 42W/827/4P 1CT	8711500 560025	70 65
MASTER PL-T 42W/830/4P 1CT	8711500 611345	70 65
MASTER PL-T 42W/840/4P 1CT	8711500 611376	70 65
MASTER PL-T 57W/827/4P 1CT	8711500 560056	70 65
MASTER PL-T 57W/830/4P 1CT	8711500 611406	70 66
MASTER PL-T 57W/840/4P 1CT	8711500 611451	70 65
MASTER PL-T TOP 18W/830/4P 1CT	8711500 889089	70 66
MASTER PL-T TOP 18W/840/4P 1CT	8711500 889416	70 66
MASTER PL-T TOP 26W/830/4P 1CT	8711500 889447	70 66
MASTER PL-T TOP 26W/840/4P 1CT	8711500 889478	70 66
MASTER PL-T TOP 32W/827/4P 1CT	8711500 611581	70 66
MASTER PL-T TOP 32W/830/4P 1CT	8711500 560230	70 66
MASTER PL-T TOP 32W/840/4P 1CT	8711500 560261	70 66
MASTER PL-T TOP 42W/827/4P 1CT	8711500 272089	70 66
MASTER PL-T TOP 42W/830/4P 1CT	8711500 610041	70 66
MASTER PL-T TOP 42W/840/4P 1CT	8711500 610089	70 66
MASTER PL-T TOP 57W/827/4P 1CT	8711500 560186	70 66
MASTER PL-T TOP 57W/830/4P 1CT	8711500 610225	70 66
MASTER PL-T TOP 57W/840/4P 1CT	8711500 610348	70 66
MASTER PL-T Xtra 32W/830/4P 1CT	8711500 897404	70 67
MASTER PL-T Xtra 32W/840/4P 1CT	8711500 897435	70 67
MASTER PL-T Xtra 42W/830/4P 1CT	8711500 897466	70 67
MASTER PL-T Xtra 42W/840/4P 1CT	8711500 897497	70 67
MASTER PL-T Xtra 57W/830/4P 1CT	8711500 897527	70 67
MASTER PL-T Xtra 57W/840/4P 1CT	8711500 897558	70 67
MASTER SDW-T 100W/825 PG12-1 1SL	8711500 734044	15 84
MASTER SDW-T 35W/825 PG12-1 1SL	8711500 734020	15 84
MASTER SDW-T 50W/825 PG12-1 1SL	8711500 734037	15 84
MASTER SDW-TG Mini 100W/825 GX12-1 1CT	8711500 202338	15 83
MASTER SDW-TG Mini 50W/825 GX12-1 1CT	8711500 203236	15 83
MASTER SON PIA Plus 100W/220 GES 1SL	8711500 182258	15 94
MASTER SON PIA Plus 150W/220 GES 1SL	8711500 182289	15 94
MASTER SON PIA Plus 250W/220 GES 1SL	8711500 193445	15 94
MASTER SON PIA Plus 400W/220 GES 1SL	8711500 193452	15 94
MASTER SON PIA Plus 70W/220 I ES 1SL	8711500 204264	30 94
MASTER SON-T PIA Hg-Free 150W/221 GES 1SL	8711500 200617	15 94
MASTER SON-T PIA Hg-Free 250W/221 GES 1SL	8711500 200594	15 94
MASTER SON-T PIA Plus 100W/220 GES 1SL	8711500 192301	15 93
MASTER SON-T PIA Plus 150W/220 GES 1SL	8711500 192295	15 93
MASTER SON-T PIA Plus 50W/220 ES 1SL	8711500 192653	15 93
MASTER SON-T PIA Plus 600W/220 GES 1SL	8711500 197429	15 93

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MASTER TL Mini Super 80 13W/840 1FM	8711500 716859	27 42
MASTER TL Mini Super 80 8W/840 1FM	8711500 716422	27 42
MASTER TL-D 90 De Luxe 18W/930 1SL SLV	8711500 888372	25 31
MASTER TL-D 90 De Luxe 18W/940 1SL SLV	8711500 888396	25 31
MASTER TL-D 90 De Luxe 18W/950 1SL SLV	8711500 888433	25 31
MASTER TL-D 90 De Luxe 18W/965 1SL SLV	8711500 888464	25 31
MASTER TL-D 90 De Luxe 36W/930 1SL SLV	8711500 888563	25 31
MASTER TL-D 90 De Luxe 36W/940 1SL SLV	8711500 888587	25 31
MASTER TL-D 90 De Luxe 36W/950 1SL SLV	8711500 888600	25 31
MASTER TL-D 90 De Luxe 36W/965 1SL SLV	8711500 888624	25 31
MASTER TL-D 90 De Luxe 58W/930 1SL SLV	8711500 888679	25 31
MASTER TL-D 90 De Luxe 58W/940 1SL SLV	8711500 888693	25 31
MASTER TL-D 90 De Luxe 58W/950 1SL SLV	8711500 888716	25 31
MASTER TL-D 90 De Luxe 58W/965 1SL SLV	8711500 888730	25 31
MASTER TL-D 90 Graphica 18W/950 1SL	8711500 888501	25 32
MASTER TL-D 90 Graphica 18W/965 1SL	8711500 888525	25 32
MASTER TL-D 90 Graphica 36W/950 1SL	8711500 888648	25 32
MASTER TL-D 90 Graphica 36W/965 1SL	8711500 888365	25 32
MASTER TL-D 90 Graphica 58W/950 1SL	8711500 888754	25 32
MASTER TL-D 90 Graphica 58W/965 1SL	8711500 888778	25 32
MASTER TL-D ActiViva Active 18W 1SL	8711500 267306	40 30
MASTER TL-D ActiViva Active 36W 1SL	8711500 267337	40 30
MASTER TL-D ActiViva Active 58W 1SL	8711500 267351	40 30
MASTER TL-D ActiViva Natural 18W 1SL	8711500 951830	40 30
MASTER TL-D ActiViva Natural 36W 1SL	8711500 951854	40 30
MASTER TL-D ActiViva Natural 58W 1SL	8711500 951878	40 30
MASTER TL-D Eco 16W/830 1SL	8711500 268570	40 22
MASTER TL-D Eco 16W/840 1SL	8711500 268617	40 22
MASTER TL-D Eco 16W/865 1SL	8711500 268716	40 22
MASTER TL-D Eco 32W/830 1SL	8711500 264589	40 22
MASTER TL-D Eco 32W/840 1SL	8711500 264626	40 22
MASTER TL-D Eco 32W/865 1SL	8711500 264640	40 22
MASTER TL-D Eco 51W/830 1SL	8711500 264664	40 22
MASTER TL-D Eco 51W/840 1SL	8711500 264701	40 22
MASTER TL-D Eco 51W/865 1SL	8711500 264725	40 22
MASTER TL-D Eco 63W/830 1SL	8711500 268730	40 22
MASTER TL-D Eco 63W/840 1SL	8711500 268754	40 22
MASTER TL-D HF Super 80 16W/830 1SL	8711500 631442	40 25
MASTER TL-D HF Super 80 16W/840 1SL	8711500 631473	40 25
MASTER TL-D HF Super 80 32W/830 1SL	8711500 631503	40 25
MASTER TL-D HF Super 80 32W/840 1SL	8711500 631534	40 25
MASTER TL-D HF Super 80 50W/830 1SL	8711500 631656	40 25
MASTER TL-D HF Super 80 50W/840 1SL	8711500 631596	40 25
MASTER TL-D Reflex 18W/830 1SL	8711500 636447	40 25
MASTER TL-D Reflex 18W/840 1SL	8711500 636478	40 25
MASTER TL-D Reflex 18W/865 1SL	8711500 260291	40 25
MASTER TL-D Reflex 36W/830 1SL	8711500 559494	40 25
MASTER TL-D Reflex 36W/840 1SL	8711500 559531	40 25
MASTER TL-D Reflex 58W/830 1SL	8711500 559579	40 25
MASTER TL-D Reflex 58W/840 1SL	8711500 559623	40 25
MASTER TL-D Reflex 58W/865 1SL	8711500 260338	40 25
MASTER TL-D Secura 18W/840 1SL	8711500 640109	40 24
MASTER TL-D Secura 36W/840 1SL	8711500 640147	40 24
MASTER TL-D Secura 58W/840 1SL	8711500 640185	40 24
MASTER TL-D Super 80 15W/830 1SL	8711500 702791	40 23
MASTER TL-D Super 80 15W/840 1SL	8711500 702807	40 23
MASTER TL-D Super 80 18W/827 1SL	8711500 631626	40 23
MASTER TL-D Super 80 18W/830 1SL	8711500 631657	40 23
MASTER TL-D Super 80 18W/830 UNP	8711500 610546	40 23
MASTER TL-D Super 80 18W/835 1SL	8711500 631688	40 23
MASTER TL-D Super 80 18W/840 1SL	8711500 631718	40 23
MASTER TL-D Super 80 18W/840 UNP	8711500 610126	40 23
MASTER TL-D Super 80 18W/865 1SL	8711500 631770	40 23
MASTER TL-D Super 80 1m 36W/830 1SL	8711500 558749	40 23
MASTER TL-D Super 80 1m 36W/840 1SL	8711500 558770	40 23
MASTER TL-D Super 80 23W/840 1SL	8711500 558701	40 23
MASTER TL-D Super 80 30W/830 1SL	8711500 631831	40 23
MASTER TL-D Super 80 30W/840 1SL	8711500 631862	40 23
MASTER TL-D Super 80 36W/827 1SL	8711500 631923	40 23
MASTER TL-D Super 80 36W/830 1SL	8711500 631954	40 23
MASTER TL-D Super 80 36W/830 UNP	8711500 610171	40 23
MASTER TL-D Super 80 36W/835 1SL	8711500 631985	40 23
MASTER TL-D Super 80 36W/840 1SL	8711500 632012	40 23
MASTER TL-D Super 80 36W/840 UNP	8711500 610188	40 23
MASTER TL-D Super 80 36W/865 1SL	8711500 632074	40 23
MASTER TL-D Super 80 38W/830 1SL	8711500 558800	40 23
MASTER TL-D Super 80 38W/840 1SL	8711500 558831	40 23
MASTER TL-D Super 80 58W/827 1SL	8711500 632104	40 23
MASTER TL-D Super 80 58W/830 1SL	8711500 632135	40 23
MASTER TL-D Super 80 58W/830 UNP	8711500 610195	40 23
MASTER TL-D Super 80 58W/835 1SL	8711500 632166	40 23
MASTER TL-D Super 80 58W/840 1SL	8711500 632197	40 23
MASTER TL-D Super 80 58W/840 UNP	8711500 610294	40 23
MASTER TL-D Super 80 58W/865 1SL	8711500 632258	40 23
MASTER TL-D Super 80 70W/830 1SL	8711500 615985	40 23
MASTER TL-D Super 80 70W/835 1SL	8711500 642738	40 23
MASTER TL-D Super 80 70W/840 1SL	8711500 615923	40 23
MASTER TL-D Xtra 18W/830 1SL	8711500 544988	40 26
MASTER TL-D Xtra 18W/840 1SL	8711500 558626	40 26
MASTER TL-D Xtra 18W/865 1SL	8711500 892812	40 26
MASTER TL-D Xtra 30W/830 1SL	8711500 895325	40 26
MASTER TL-D Xtra 30W/840 1SL	8711500 895363	40 26
MASTER TL-D Xtra 36W/830 1SL	8711500 558718	40 26

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MASTER TL-D Xtra 36W/840 1SL	8711500 558763	40 26
MASTER TL-D Xtra 36W/865 1SL	8711500 892836	40 26
MASTER TL-D Xtra 58W/830 1SL	8711500 558886	40 26
MASTER TL-D Xtra 58W/840 1SL	8711500 558909	40 26
MASTER TL-D Xtra 58W/865 1SL	8711500 892850	40 26
MASTER TL-D Xtra 70W/830 1SL	8711500 895486	40 26
MASTER TL-D Xtra 70W/840 1SL	8711500 895523	40 26
MASTER TL-D Xtra Polar 18W/830 T12 1SL	8711500 893031	25 27
MASTER TL-D Xtra Polar 18W/840 T12 1SL	8711500 893055	25 27
MASTER TL-D Xtra Polar 36W/830 T12 1SL	8711500 893154	25 27
MASTER TL-D Xtra Polar 36W/840 T12 1SL	8711500 893178	25 27
MASTER TL-D Xtra Polar 58W/830 T12 1SL	8711500 893277	25 27
MASTER TL-D Xtra Polar 58W/840 T12 1SL	8711500 893291	25 27
MASTER TL-D Xtra Secura 18W/830 1SL	8711500 889737	40 28
MASTER TL-D Xtra Secura 18W/840 1SL	8711500 889751	40 28
MASTER TL-D Xtra Secura 36W/830 1SL	8711500 889812	40 28
MASTER TL-D Xtra Secura 36W/840 1SL	8711500 889836	40 28
MASTER TL-D Xtra Secura 58W/830 1SL	8711500 889898	40 28
MASTER TL-D Xtra Secura 58W/840 1SL	8711500 889911	40 28
MASTER TL-D Xtreme 18W/830 1SL	8711500 544926	40 28
MASTER TL-D Xtreme 18W/840 1SL	8711500 544964	40 28
MASTER TL-D Xtreme 18W/865 1SL	8711500 892751	40 28
MASTER TL-D Xtreme 36W/830 1SL	8711500 558664	40 28
MASTER TL-D Xtreme 36W/840 1SL	8711500 558688	40 28
MASTER TL-D Xtreme 36W/865 1SL	8711500 892775	40 28
MASTER TL-D Xtreme 58W/830 1SL	8711500 558824	40 28
MASTER TL-D Xtreme 58W/840 1SL	8711500 558862	40 28
MASTER TL-D Xtreme 58W/865 1SL	8711500 892799	40 28
MASTER TL-D Xtreme Polar 18W/840 1SL	8711500 892997	25 29
MASTER TL-D Xtreme Polar 36W/840 1CT	8711500 893116	25 29
MASTER TL-D Xtreme Polar 58W/840 1SL	8711500 893239	25 29
MASTER TL-D Xtreme Secura 18W/830 1SL	8711500 889690	40 30
MASTER TL-D Xtreme Secura 18W/840 1SL	8711500 889713	40 30
MASTER TL-D Xtreme Secura 36W/830 1SL	8711500 889775	40 30
MASTER TL-D Xtreme Secura 36W/840 1SL	8711500 889799	40 30
MASTER TL-D Xtreme Secura 58W/830 1SL	8711500 889850	40 30
MASTER TL-D Xtreme Secura 58W/840 1SL	8711500 889874	40 30
MASTER T5 Circular 22W/830 1CT	8711500 640956	25 41
MASTER T5 Circular 22W/840 1CT	8711500 642219	25 41
MASTER T5 Circular 40W/830 1CT	8711500 640970	25 41
MASTER T5 Circular 40W/840 1CT	8711500 642233	25 41
MASTER T5 Circular 55W/830 1CT	8711500 642790	25 41
MASTER T5 Circular 55W/840 1CT	8711500 642516	25 41
MASTER T5 Circular 60W/830 1CT	8711500 642592	25 41
MASTER T5 Circular 60W/840 1CT	8711500 642615	25 41
MASTER T5 HE 14W/830 1SL	8711500 639387	55 33
MASTER T5 HE 14W/830 UNP	8711500 610638	55 33
MASTER T5 HE 14W/835 1SL	8711500 707659	55 33
MASTER T5 HE 14W/835 UNP	8711500 610645	55 33
MASTER T5 HE 14W/840 1SL	8711500 639400	55 33
MASTER T5 HE 14W/840 UNP	8711500 610669	55 33
MASTER T5 HE 14W/865 1SL	8711500 710093	55 33
MASTER T5 HE 14W/865 UNP	8711500 610683	55 33
MASTER T5 HE 21W/830 1SL	8711500 639424	55 33
MASTER T5 HE 21W/830 UNP	8711500 610706	55 33
MASTER T5 HE 21W/835 UNP	8711500 610713	55 33
MASTER T5 HE 21W/840 1SL	8711500 639448	55 33
MASTER T5 HE 21W/840 UNP	8711500 610720	55 33
MASTER T5 HE 21W/865 1SL	8711500 710116	55 33
MASTER T5 HE 28W/830 1SL	8711500 639462	55 33
MASTER T5 HE 28W/830 UNP	8711500 610812	55 33
MASTER T5 HE 28W/835 1SL	8711500 710048	55 33
MASTER T5 HE 28W/835 UNP	8711500 610874	55 33
MASTER T5 HE 28W/840 1SL	8711500 639486	55 33
MASTER T5 HE 28W/840 UNP	8711500 610904	55 33
MASTER T5 HE 28W/865 1SL	8711500 710154	55 33
MASTER T5 HE 28W/865 UNP	8711500 610928	55 33
MASTER T5 HE 35W/830 1SL	8711500 639509	55 33
MASTER T5 HE 35W/830 UNP	8711500 611031	55 33
MASTER T5 HE 35W/835 1SL	8711500 710062	55 33
MASTER T5 HE 35W/835 UNP	8711500 611048	55 33
MASTER T5 HE 35W/840 1SL	8711500 639523	55 33
MASTER T5 HE 35W/840 UNP	8711500 611055	55 33
MASTER T5 HE 35W/865 1SL	8711500 710185	55 33
MASTER T5 HE ActiViva Active 14W 1SL	8711500 267429	55 39
MASTER T5 HE ActiViva Active 21W 1SL	8711500 267467	55 39
MASTER T5 HE ActiViva Active 28W 1SL	8711500 267597	55 40
MASTER T5 HE ActiViva Active 35W 1SL	8711500 267658	55 40
MASTER T5 HE ActiViva Natural 14W 1SL	8711500 267405	55 39
MASTER T5 HE ActiViva Natural 21W 1SL	8711500 267443	55 40
MASTER T5 HE ActiViva Natural 28W 1SL	8711500 267566	55 40
MASTER T5 HE ActiViva Natural 35W 1SL	8711500 267610	55 40
MASTER T5 HE Secura 14W/840 UNP	8711500 954763	55 34
MASTER T5 HE Secura 28W/840 UNP	8711500 952158	55 34
MASTER T5 HE Secura 35W/840 UNP	8711500 952196	55 34
MASTER T5 HO 24W/827 1SL	8711500 643087	55 35
MASTER T5 HO 24W/830 1SL	8711500 639585	55 35
MASTER T5 HO 24W/830 UNP	8711500 636980	55 35
MASTER T5 HO 24W/840 1SL	8711500 639608	55 35
MASTER T5 HO 24W/840 UNP	8711500 637048	55 35
MASTER T5 HO 24W/865 1SL	8711500 643933	55 35
MASTER T5 HO 39W/827 1SL	8711500 643100	55 35
MASTER T5 HO 39W/830 1SL	8711500 639622	55 35
MASTER T5 HO 39W/830 UNP	8711500 637161	55 35

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MASTER T5 HO 39W/840 1SL	8711500 639646	55 35
MASTER T5 HO 39W/840 UNP	8711500 637222	55 35
MASTER T5 HO 39W/865 1SL	8711500 643872	55 35
MASTER T5 HO 49W/827 1SL	8711500 643124	55 35
MASTER T5 HO 49W/830 1SL	8711500 639547	55 35
MASTER T5 HO 49W/830 UNP	8711500 637529	55 35
MASTER T5 HO 49W/835 UNP	8711500 891105	55 35
MASTER T5 HO 49W/840 1SL	8711500 639561	55 35
MASTER T5 HO 49W/840 UNP	8711500 637581	55 35
MASTER T5 HO 49W/865 1SL	8711500 643896	55 35
MASTER T5 HO 54W/827 1SL	8711500 643148	55 35
MASTER T5 HO 54W/830 1SL	8711500 263292	55 35
MASTER T5 HO 54W/830 UNP	8711500 637345	55 35
MASTER T5 HO 54W/840 1SL	8711500 643186	55 35
MASTER T5 HO 54W/840 UNP	8711500 637406	55 35
MASTER T5 HO 54W/865 1SL	8711500 643919	55 35
MASTER T5 HO 80W/827 UNP	8711500 263292	55 35
MASTER T5 HO 80W/830 1SL	8711500 710406	55 35
MASTER T5 HO 80W/840 1SL	8711500 710451	55 35
MASTER T5 HO 80W/840 UNP	8711500 644381	55 35
MASTER T5 HO 80W/865 1SL	8711500 710475	55 35
MASTER T5 HO 90 De Luxe 24W/940 1SL	8711500 868954	20 39
MASTER T5 HO 90 De Luxe 24W/950 1SL	8711500 890641	20 39
MASTER T5 HO 90 De Luxe 24W/965 1SL	8711500 261304	20 39
MASTER T5 HO 90 De Luxe 49W/940 1SL	8711500 868978	20 39
MASTER T5 HO 90 De Luxe 49W/950 1SL	8711500 890627	20 39
MASTER T5 HO 90 De Luxe 49W/965 1SL	8711500 869722	20 39
MASTER T5 HO 90 De Luxe 54W/940 1SL	8711500 869050	20 39
MASTER T5 HO 90 De Luxe 54W/950 1SL	8711500 890665	20 39
MASTER T5 HO 90 De Luxe 54W/965 1SL	8711500 869838	20 39
MASTER T5 HO ActiViva Active 24W 1SL	8711500 951755	55 40
MASTER T5 HO ActiViva Active 49W 1SL	8711500 951816	55 40
MASTER T5 HO ActiViva Active 54W 1SL	8711500 951779	55 40
MASTER T5 HO ActiViva Natural 24W 1SL	8711500 951694	55 40
MASTER T5 HO ActiViva Natural 49W 1SL	8711500 951793	55 40
MASTER T5 HO ActiViva Natural 54W 1SL	8711500 951717	55 40
MASTER T5 HO Colored 24W Blue 1SL	8711500 611864	20 40
MASTER T5 HO Colored 24W Green 1SL	8711500 611840	20 40
MASTER T5 HO Colored 24W Red 1SL	8711500 611826	20 40
MASTER T5 HO Colored 54W Blue 1SL	8711500 611949	20 40
MASTER T5 HO Colored 54W Green 1SL	8711500 611925	20 40
MASTER T5 HO Colored 54W Red 1SL	8711500 611901	20 40
MASTER T5 HO Secura 24W/840 UNP	8711500 954800	55 36
MASTER T5 HO Secura 49W/840 UNP	8711500 952271	55 36
MASTER T5 HO Secura 54W/840 UNP	8711500 952318	55 36
MASTER T5 HO Secura 80W/840 UNP	8711500 952356	55 36
MASTER T5 HO TOP 49W/830 1SL	8711500 266835	05 37
MASTER T5 HO TOP 54W/830 1SL	8711500 266934	05 38
MASTER T5 HO TOP 54W/840 1SL	8711500 266958	05 38
MASTER T5 HO TOP 80W/830 1SL	8711500 266897	05 38
MASTER T5 HO TOP 80W/840 1SL	8711500 266910	05 38
MASTER T5 HO Xtra 49W/830 1SL	8711500 262516	05 37
MASTER T5 HO Xtra 49W/840 1SL	8711500 262530	05 37
MASTER T5 HO Xtra 54W/830 1SL	8711500 262320	05 37
MASTER T5 HO Xtra 54W/840 1SL	8711500 263520	05 37
MASTER T5 HO Xtra 80W/830 1SL	8711500 262615	05 37
MASTER T5 HO Xtra 80W/840 1SL	8711500 263032	05 37
MASTER T5 VHO TOP 120W/830 UNP	8711500 267245	55 38
MASTER T5 VHO TOP 95W/840 UNP	8711500 267221	55 38
MASTERAmbiance 12W/827 ES 230-240V 1CH	8711500 468062	00 51
MASTERAmbiance 16W/827 ES 230-240V 1CH	8711500 468109	00 51
MASTERAmbiance 20W/827 ES 230-240V 1CH	8711500 468185	00 51
MASTERCapsule 20W GY6.35 12V IR 1CT	8727900 203530	70 126
MASTERCapsule 30W GY6.35 12V IR 1CT	8727900 203547	70 126
MASTERCapsule 45W GY6.35 12V IR 1CT	8727900 203554	70 126
MASTERCapsule 60W GY6.35 12V IR 1CT	8727900 203561	70 126
MASTERCoolour CDM-R 35W/830 ES PAR20 10D 1CT	8711500 198082	15 82
MASTERCoolour CDM-R 35W/830 ES PAR20 30D 1CT	8711500 198105	15 82
MASTERCoolour CDM-R 35W/830 ES PAR30L 10D 1CT	8711500 197016	10 82
MASTERCoolour CDM-R 35W/830 ES PAR30L 30D 1CT	8711500 197030	10 82
MASTERCoolour CDM-R 35W/942 ES PAR20 10D 1CT	8711500 207852	15 82
MASTERCoolour CDM-R 35W/942 ES PAR20 30D 1CT	8711500 207876	15 82
MASTERCoolour CDM-R 70W/830 ES PAR30L 10D 1CT	8711500 197054	10 82
MASTERCoolour CDM-R 70W/830 ES PAR30L 40D 1CT	8711500 197078	10 82
MASTERCoolour CDM-R 70W/942 ES PAR30L 10D 1CT	8711500 207258	10 82
MASTERCoolour CDM-R 70W/942 ES PAR30L 30D 1CT	8711500 207296	10 82
MASTERCoolour CDM-R 70W/942 ES PAR30L 40D 1CT	8711500 207272	10 82
MASTERCoolour CDM-R Mini 20W/830 GX10 MR16 10D 1CT	8727900 800012	00 83
MASTERCoolour CDM-R Mini 20W/830 GX10 MR16 25D 1CT	8727900 800036	00 83
MASTERCoolour CDM-R Mini 20W/830 GX10 MR16 40D 1CT	8727900 800050	00 83
MASTERCoolour CDM-R11 20W/830 GX8.5 10D 1CT	8711500 209474	10 81
MASTERCoolour CDM-R11 20W/830 GX8.5 24D 1CT	8711500 209511	10 81
MASTERCoolour CDM-R11 35W/830 GX8.5 10D 1CT	8711500 204486	10 81
MASTERCoolour CDM-R11 35W/830 GX8.5 24D 1CT	8711500 204509	10 81
MASTERCoolour CDM-R11 35W/830 GX8.5 40D 1CT	8711500 204523	10 81
MASTERCoolour CDM-R11 35W/942 GX8.5 10D 1CT	8711500 213853	10 81
MASTERCoolour CDM-R11 35W/942 GX8.5 24D 1CT	8711500 213877	10 81
MASTERCoolour CDM-R11 35W/942 GX8.5 40D 1CT	8711500 213891	10 81
MASTERCoolour CDM-R11 70W/830 GX8.5 10D 1CT	8711500 207197	10 81
MASTERCoolour CDM-R11 70W/830 GX8.5 24D 1CT	8711500 207210	10 81
MASTERCoolour CDM-R11 70W/830 GX8.5 40D 1CT	8711500 207234	10 81
MASTERCoolour CDM-R11 70W/942 GX8.5 24D 1CT	8711500 213938	10 81
MASTERCoolour CDM-T 150W/830 G12 1CT	8711500 197801	15 78
MASTERCoolour CDM-T 150W/942 G12 1CT	8711500 200051	15 78

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MASTERCouleur CDM-T 20W/830 G12 1CT	8727900 821994 00	78
MASTERCouleur CDM-T 250W/830 G12 1CT	8711500 208019 15	78
MASTERCouleur CDM-T 250W/942 G12 1CT	8711500 211125 15	78
MASTERCouleur CDM-T 35W/830 G12 1CT	8711500 196972 15	78
MASTERCouleur CDM-T 35W/942 G12 1CT	8711500 211262 15	78
MASTERCouleur CDM-T 70W/830 G12 1CT	8711500 196996 15	78
MASTERCouleur CDM-T 70W/942 G12 1CT	8711500 199270 15	78
MASTERCouleur CDM-T Elite 150W/930 G12 1CT	8711500 213129 15	76
MASTERCouleur CDM-T Elite 35W/930 G12 1CT	8711500 208132 15	76
MASTERCouleur CDM-T Elite 70W/930 G12 1CT	8711500 208156 15	76
MASTERCouleur CDM-TC 20W/830 G8.5 1CT	8727900 803600 00	79
MASTERCouleur CDM-TC 35W/830 G8.5 1CT	8711500 200006 15	79
MASTERCouleur CDM-TC 35W/942 G8.5 1CT	8711500 209573 15	79
MASTERCouleur CDM-TC 70W/830 G8.5 1CT	8711500 201676 15	79
MASTERCouleur CDM-TC 70W/942 G8.5 1CT	8711500 212757 15	79
MASTERCouleur CDM-TC Elite 35W/930 G8.5 1CT	8711500 208170 15	76
MASTERCouleur CDM-TC Elite 70W/930 G8.5 1CT	8711500 208194 15	76
MASTERCouleur CDM-TD 150W/830 RX7s 1CT	8711500 197849 15	80
MASTERCouleur CDM-TD 150W/942 RX7s 1CT	8711500 200259 15	80
MASTERCouleur CDM-TD 70W/830 RX7s 1CT	8711500 197825 15	80
MASTERCouleur CDM-TD 70W/942 RX7s 1CT	8711500 200020 15	80
MASTERCouleur CDM-Tm Mini 20W/830 PGJ5 1CT	8711500 207517 15	77
MASTERCouleur CDM-Tm Mini 35W/930 PGJ5 1CT	8711500 211491 15	77
MASTERCouleur CDM-TMW Elite 210W/930 1CT	8727900 801743 00	77
MASTERCouleur CDM-TMW Elite 210W/942 1CT	8727900 801804 00	77
MASTERCouleur CDM-TMW Elite 315W/930 1CT	8727900 801576 00	77
MASTERCouleur CDM-TP 150W/830 PGX12-2 1CT	8711500 201256 15	80
MASTERCouleur CDM-TP 150W/942 PGX12-2 1CT	8711500 201119 15	80
MASTERCouleur CDM-TP 70W/830 PG12-2 1CT	8711500 201270 15	79
MASTERCouleur CDM-TP 70W/942 PG12-2 1CT	8711500 201133 15	79
MASTERLine 111 30W G53 12V 24D 1CT	8711500 411037 10	119
MASTERLine 111 30W G53 12V 8D 1CT	8711500 411013 10	119
MASTERLine 111 45W G53 12V 24D 1CT	8711500 411075 10	119
MASTERLine 111 45W G53 12V 45D 1CT	8711500 411099 10	119
MASTERLine 111 45W G53 12V 8D 1CT	8711500 411051 10	119
MASTERLine 111 60W G53 12V 24D 1CT	8711500 411150 10	119
MASTERLine 111 60W G53 12V 45D 1CT	8711500 411136 10	119
MASTERLine 111 60W G53 12V 8D 1CT	8711500 411112 10	119
MASTERLine ES 20W GU5.3 12V 36D 1CT	8711500 413673 71	118
MASTERLine ES 20W GU5.3 12V 8D 1CT	8711500 413642 71	118
MASTERLine ES 30W GU5.3 12V 24D 1CT	8711500 413758 71	118
MASTERLine ES 30W GU5.3 12V 36D 1CT	8711500 413789 71	118
MASTERLine ES 30W GU5.3 12V 60D 1CT	8711500 413826 71	118
MASTERLine ES 30W GU5.3 12V 8D 1CT	8711500 413703 71	118
MASTERLine ES 35W GU5.3 12V 24D 1CT	8711500 413970 71	118
MASTERLine ES 35W GU5.3 12V 36D 1CT	8711500 424327 71	118
MASTERLine ES 35W GU5.3 12V 60D 1CT	8711500 424358 71	118
MASTERLine ES 35W GU5.3 12V 8D 1CT	8711500 413871 71	118
MASTERLine ES 45W GU5.3 12V 24D 1CT	8711500 424419 71	118
MASTERLine ES 45W GU5.3 12V 36D 1CT	8711500 424440 71	118
MASTERLine ES 45W GU5.3 12V 60D 1CT	8711500 424471 71	118
MASTERLine ES 45W GU5.3 12V 8D 1CT	8711500 424389 71	118
MASTERLine TC 45W G8.5 12V 1CT	8711500 438973 15	126
MASTERLine TC 60W G8.5 12V 1CT	8711500 439017 15	126
MHN-SB 2000W/956 400V K12s-7 WH UNP	8711500 206732 00	99
MHN-TD 150W/730 RX7s 1CT	8711500 193506 15	85
MHN-TD 150W/842 RX7s 1CT	8711500 733993 15	84
MHN-TD 250W/842 FC2 1CT	8711500 734006 15	85
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