



Lamps & Lighting Electronics Catalogue

PHILIPS



See what light can do

Philips prides itself for being at the forefront of technology and innovation. As the world leader in lighting we continue to expand the depth and scope of our range of lighting solutions to help customers realise their creative ambitions in a project or business environment.

With this in mind, the book you are about to read and use has also been designed around our customers to help make the right lighting choice. We invite you to have a look at the following pages to see how we are applying our expertise to inspire you.

Whether you are looking to 'Be Inspired' by light, or 'Be Informed' on technical specification information, we present to you new and exciting innovations applied in many different applications in a simple and accessible way.

We believe light is potential – light is possibility, and we are bringing those possibilities to life.

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LED Lamps and Systems



LED Lamps ⇨



LED Tubes ⇨



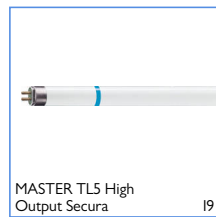
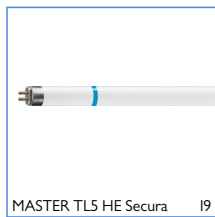
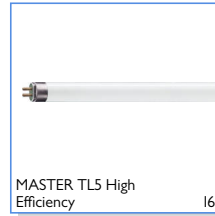
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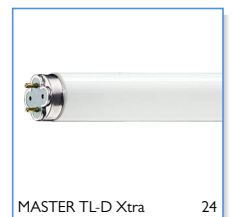
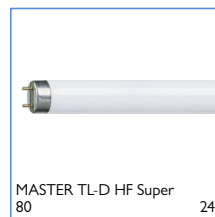
Fluorescent Lamps



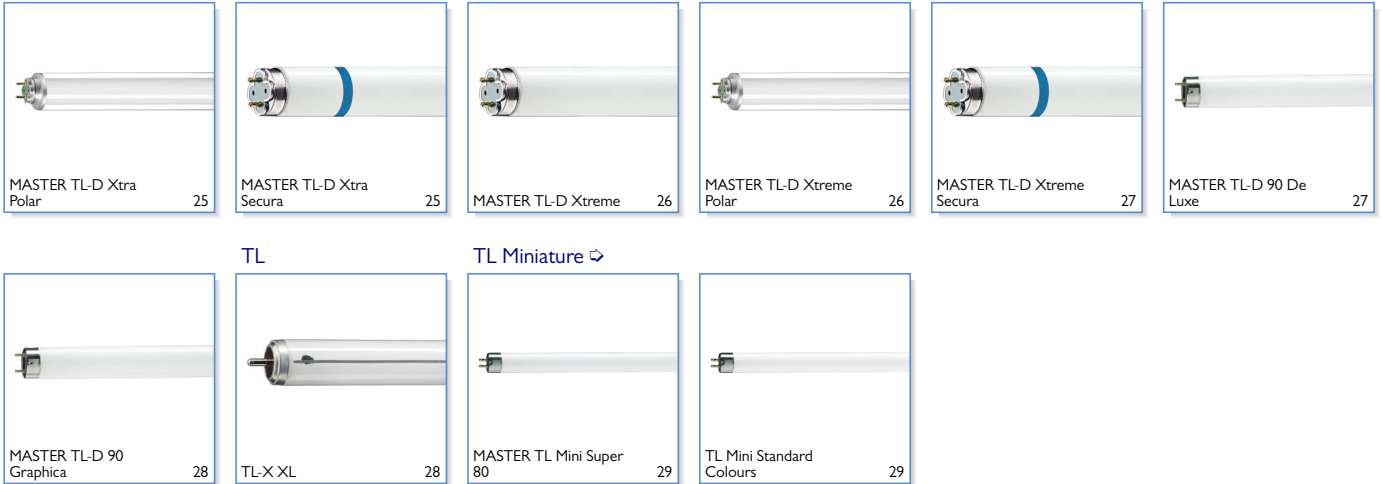
TL5 ⇨



TL-D ⇨



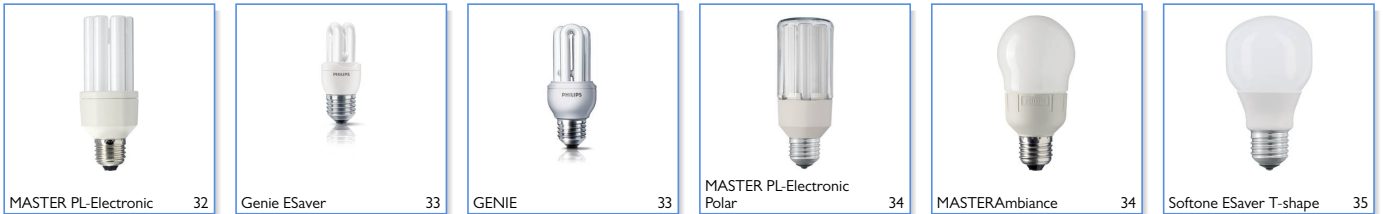
Fluorescent Lamps (continued)



Compact Fluorescent Integrated



Energy Saver Stick shape ⇨



Energy Saver Reflectors



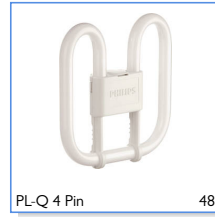
Compact Fluorescent Non Integrated



Compact Fluorescent Non Integrated (continued)



PL-Q ⇨



Compact High Intensity Discharge



MASTERCLOUR CDM ⇨



MASTERSDW White SON ⇨



MHN Low Wattage
Metal Halide





High Intensity Discharge Lamps

Outdoor Ceramic White Light ↗



Quartz Metal Halide ↗



SON High Pressure Sodium ↗



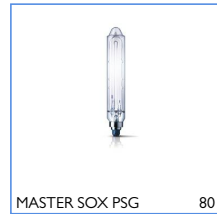
HPL High Pressure Mercury ↗



HID Horticulture



SOX Low Pressure Sodium ↗



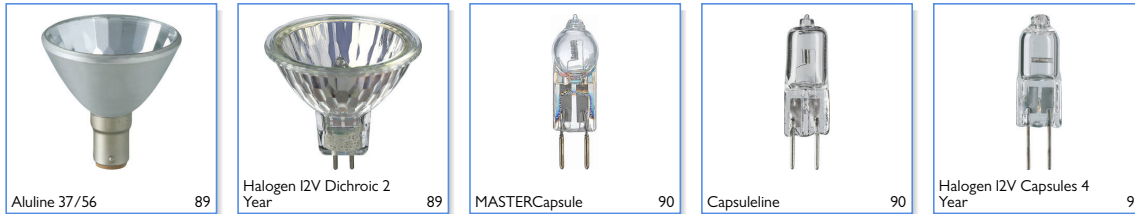
Halogen Lamps



LV Halogen with Reflector ⇨



LV Halogen without Reflector ⇨



MV Halogen with Reflector ⇨



MV Halogen without Reflector ⇨



Starters for Fluorescent Lamps



Starters for Fluorescent Lamps ⇨



Infrared Lamps



InfraRed Incandescent





Incandescent Lamps

Tubular (T-shape)



Philinea I00

GLS Specialties ⇨



Standard Extra Low Voltage A60 I00



Nightlight I00

Domestic Appliances ⇨



Appliance Oven Tubular I01



Appliance Oven P45 I01

Reflector (NR/R/PAR/E/A/P/PC-shape) ⇨



Reflector diam 50 mm I01



Reflector diam 63 mm I02



PAR38 I02



PAR56 I02

Electronic Control Gear



HID Electronic Indoor ⇨



AspiraVision DALI for CDM Elite Light Boost I04



AspiraVision Compact for CDM I04



PrimaVision Compact for CDM I05



PrimaVision Mini for CDM I06



PrimaVision Twin for CDM I06



PrimaVision Power for CDM I07

HID Electronic Outdoor ⇨



PrimaVision for SDW-TG I07



PrimaVision Xtreme for CPO I08



DynaVision LumiStep Xtreme for CPO I08



PrimaVision Xtreme for SON I09



EXC for SOX I09



DynaVision LumiStep Xtreme for SON I10



PrimaVision Xtreme for CDO I10



DynaVision Programmable Xtreme for CDO I11



DynaVision Programmable Xtreme for CPO I11



DynaVision Programmable Xtreme for SON I12



DynaVision Programmable Xtreme for CDMe I12



PrimaVision for CDM Elite MW I13

Controllers ⇨

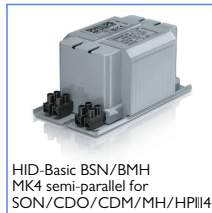


Gear for SDW-T lamps I13

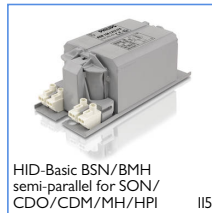


HID-DynaVision Control for SON I14

HID electromagnetic ⇨



HID-Basic BSN/BMH MK4 semi-parallel for SON/CDO/CDM/MH/HPII4



HID-Basic BSN/BMH semi-parallel for SON/CDO/CDM/MH/HPI I15

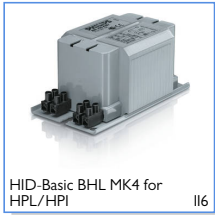


HID-Basic BSN/BMH series multi-wattage for SON/CDO/CDM/MH/HPI I15



HID-HeavyDuty BSN semi-parallel for SON/CDO/MH/HPI I16

Electronic Control Gear (continued)



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HID-Basic BSX for SOX I18



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Ignitors ↗



HID ignitors for series systems I19



HID ignitors for MK4 semi-parallel systems I20

Fluorescent Dimming gear ↗



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HF-Regulator II for TLS lamps I23



HF-Regulator II for TL-D lamps I23



HF-Regulator II for PL-L lamps I24



HF-Regulator II for PL-T/C I24

Fluorescent Fixed Output gear ↗



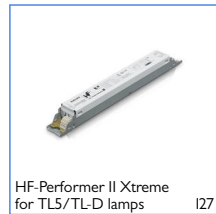
HF-Performer Intelligent for TLS HE/HO lamps I25



HF-Performer III for TLS lamps I26



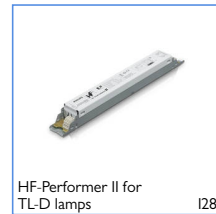
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HF-Performer II Xtreme for TLS/TL-D lamps I27



HF-Performer II (flat) for TLS lamps I28



HF-Performer II for TL-D lamps I28



HF-Performer III for PL-L lamps I29



HF-Performer III for PL-T/C lamps I30



HF-Performer II for PL-T/C/R/L/TL5C lamps I30



HF-Matchbox Red I31



HF-Matchbox Blue I31



HF-Performer TLS Circular I32

Halogen electronic transformers ↗

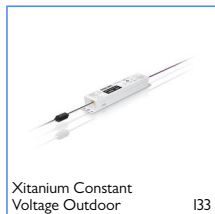


Primaline Halogen Transformers I32

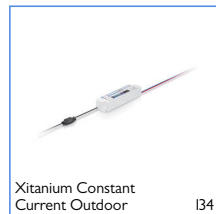


Certaline Halogen Transformers I33

LED Electronic Drivers ↗



Xitanium Constant Voltage Outdoor I33



Xitanium Constant Current Outdoor I34



Xitanium Constant Current Xtreme I34



Xitanium/Fortimo LED Drivers indoor dimmable I35



Xitanium LED Driver Indoor Dimmable I35

LED Lamps and Systems

LED Lamps MASTER LEDbulb Designer



Energy meets efficiency
MASTER LEDbulb Designer combines warm, incandescent-like light with customisable MASTER LEDlamp covers to offer design freedom in a simple retrofit LED bulb like never before. Ideal for open fixtures where the bulb is fully visible, it offers the excellent light performance, dimming and energy savings of MASTER LEDbulbs along with a uniquely customisable design. It is particularly suited to the hospitality and retail industry, where aesthetic design is especially important.

The elegant MASTER LEDlamp covers can be individually selected and installed by the user to match the surrounding décor, also as it changes over the extended lifetime of the lamp. The innovative lamp design ensures excellent light quality, and the broadly compatible dimmable driver helps create the desired ambiance while further improving efficiency

Product Features

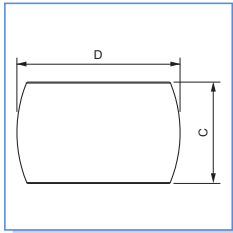
- customisable lamp cover
- dimmable
- lifetime of 25,000 hours
- low energy consumption: 7-40 W

Product Benefits

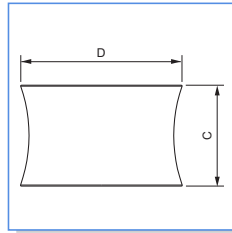
- freedom to design your lamp with a choice of lamp covers
- dimming with validated leading edge dimmers
- 80% energy saving (short payback time)

Applications

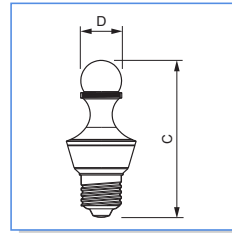
- suitable for general lighting/ambiance creation in e. g. hotels, restaurants, shops and offices



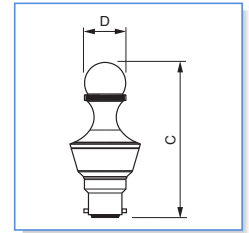
Dim. no.	C nom.	D nom.
1	39.8	64



Dim. no.	C nom.	D nom.
2	39.8	63.6



Dim. no.	C nom.	D nom.
3	101.5	45.3



Dim. no.	C nom.	D nom.
4	101.5	45.3

MASTER LEDbulb

Wattage	Voltage	Cap-Base	Bulb	Colour Temperature	Rated Lifetime	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
(W)	(V)			(K)	(h)					8718291...	
			Cover Convex				1	ICT / 6 6	MLEDCONVEX	17176800	yes
			Cover Concave				2	ICT / 6 6	MLEDCONCAVE	17180500	yes
7	230	ES		2,700	25,000	Yes	3	ICT / 6 6	MLED7WDESE2727	15501000	yes
7	230	BC		2,700	25,000	Yes	4	ICT / 6 6	MLED7WDESB2227	15503400	yes

MASTER LEDlamps DimTone



Energy meets efficiency
 MASTER LEDlamps DimTone delivers the warm, defined beam and the shift to warmer colour during dimming that is provided by halogen and GLS, while offering the energy savings, minimised maintenance costs and extended lifetime of LED lamps. Enabling maximum warmth and ambiance at lower dimming levels, it is ideal for hospitality applications requiring heightened customer comfort, such as restaurants, bars, washrooms and lobbies. The DimTone feature means light colour shifts from regular warm white

at maximum light output to warmer white at lowest light under full dimming, same as halogen and GLS. Further efficiency and energy savings are offered under such dimmed conditions. These DimTone MVspots fit most existing fixtures with a GU10 socket, and the innovative driver design ensures compatibility with a broad range of dimmer types. The DimTone bulbs are designed to retrofit replacement of dimmable incandescent bulbs.

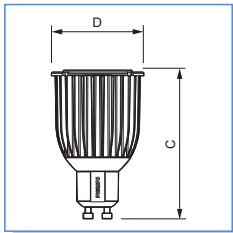
Product Features

- DimTone dimming
- low energy consumption
- lifetime of 25,000 to 40,000 hours

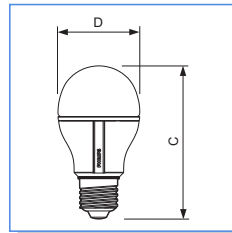
- CRI > 80
 - UV and IR free light
- Product Benefits**
- The light gets warmer when dimmed (creates pleasant, intimate ambiance)
 - 80-90% energy saving (short payback time)
 - dimmable with leading edge dimmers

Applications

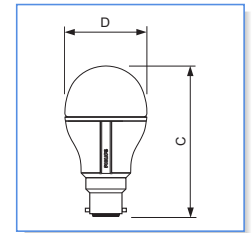
- suitable for indoor applications in open luminaires (with an open/free air gap of min. 10 mm)
- accent and general lighting (e. g. hotels, shops and offices)



Dim. no.	C nom.	D nom.
1	80	50



Dim. no.	C nom.	D nom.
2	105.4	56.7



Dim. no.	C nom.	D nom.
3	104.2	56.7

230V

Type	Wattage (W)	Cap-Base	Colour Temperature (K)	Luminous Intensity (cd)	Rated Lifetime (h)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
MASTER LEDspotMV DimTone	8	GU10	25	2,700	1,800	Yes	1	ICT / 6 6	MLED8GU10DIMT25	68243100	yes
MASTER LEDspotMV DimTone	8	GU10	40	2,700	900	Yes	1	ICT / 6 6	MLED8GU10DIMT40	68245500	yes
MASTER LEDbulb DimTone	8	ES	2,700		25,000	Yes	2	ICC / 6 6	MLED8WA60E27DT	19200800	yes
MASTER LEDbulb DimTone	8	BC	2,700		25,000	Yes	3	ICC / 6 6	MLED8WA60B22DT	19198800	yes

MASTER LEDbulb



MASTER LEDbulb - Elegance meets efficiency

MASTER LEDbulb range delivers a dimmable glow effect for a welcoming, warm atmosphere, making it ideal for general lighting applications in the hospitality industry. Its unique design radiates warm light in all directions, making it a true alternative to the incandescent lamp. It is particularly suitable for public areas such as lobbies, corridors, stairwells, where the light is always on.

Compatible with existing fixtures with an E27 or a B22 holder and designed for retrofit replacement of incandescent bulbs, MASTER LEDbulb

delivers huge energy savings and minimises maintenance cost without any compromise on light quality.

They can be used together with most leading-edge dimmers, enabling further efficiencies while helping to create the desired atmosphere.

Product Features

- Dimmable
- Compatible with an extensive range of dimmers
- Warm white light
- Lifetime of 25,000 to 45,000 hours
- UV- and IR-free light

Product Benefits

- Up to 80% energy saving compared with traditional incandescent lamps

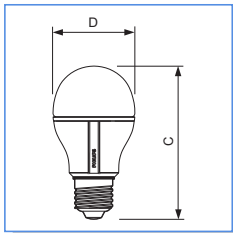
- Easy (retrofit) replacement
- Lower maintenance costs

Applications

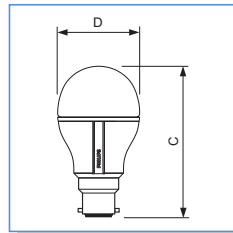
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells, reception areas

Warnings and Safety

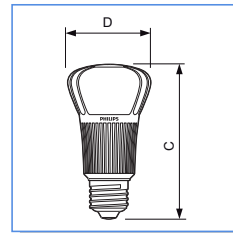
- Operating temperature range is between -20° C and 45° C ambient
- Only to apply in dry or damp locations and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights



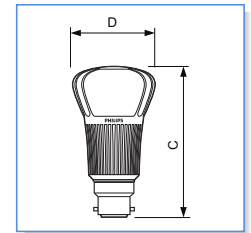
Dim. no.	C nom.	D nom.
1	105.4	56.7



Dim. no.	C nom.	D nom.
2	104.2	56.7



Dim. no.	C nom.	D nom.
3	108.0	58
4	127.2	61



Dim. no.	C nom.	D nom.
5	108.0	58
6	127.2	61

MASTER LEDbulb 230V

Wattage (W)	Cap-Base	Bulb	Colour Temperature (K)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
8	ES	A60	2,700	25,000	Yes	1	ICC / 6	MLED8WA60E27D	8718291 19350000	yes
8	BC	A60	2,700	25,000	Yes	2	ICC / 6	MLED8WA60B22D	8718291 19348700	yes
12	ES	A60	2,700	25,000	Yes	3	ICC / 6	MLED12WA60E2727	8727900 93448900	yes
12	BC	A60	2,700	25,000	Yes	5	ICC / 6	MLED12WA60B2227	8727900 93450200	yes
13	ES	A67	2,700	25,000	Yes	4	ICC / 6	MLED13WA60E27	8718291 66350800	yes
13	BC	A67	2,700	25,000	Yes	6	ICC / 6	MLED13WA60B22	8718291 66352200	yes

MASTER LEDcandle



MASTER LEDcandles - Eye-catching design for chandeliers and other decorative fixtures

Delivering incandescent-like sparkling light effects, MASTER LEDcandle bulbs are ideal for general and decorative lighting in the hospitality industry, as well as in home environments. The dimmable MASTER LEDcandles drive further efficiencies, while helping to create the desired atmosphere. Mounted in full view in chandeliers, wall scones or modern luminaires, the clear or frosted glass bulbs fit all existing fixtures with an E14 and B15

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 minimizes maintenance cost.

The flame-shaped candle lamps comes in a classical slender shape with a unique, eye-catching lens design that perfectly complements modern LED candles

Product Features

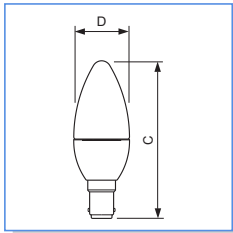
- Retrofittable with existing E14 and B15 holders
- Lifetime of 20,000 hours
- Available in clear and frosted versions
- Free of mercury and hazardous materials

Product Benefits

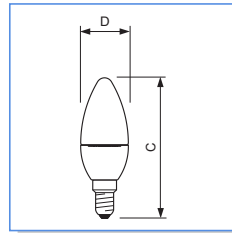
- Sparkling warm white light
- Up to 80% energy saving
- Lower maintenance costs

Application

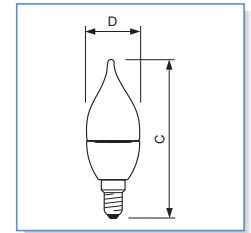
- Hotels, restaurants, bars, cafés
- Chandelier, wall sconce or modern luminaire



Dim. no.	C nom.	D nom.
1	100.5	35.5



Dim. no.	C nom.	D nom.
2	102.5	35.5



Dim. no.	C nom.	D nom.
3	106.5	35.5

MASTER LEDcandle 230V

Wattage (W)	Cap-Base	Bulb	Colour Temperature (K)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
4	SBC	B35	2,700	20,000	Yes	1	ICT / 10 10	MLED4WB35B15CL	19250300	yes
4	SES	B35	2,700	20,000	Yes	2	ICT / 10 10	MLED4WB35E14CL	19370800	yes
4	SES	B35	2,700	20,000	Yes	2	ICT / 10 10	MLED4WB35E14FR	19252700	yes
4	SES	BA35	2,700	20,000	Yes	3	ICT / 10 10	MLED4WBA35E14CL	21063400	yes

MASTER LEDluster



MASTER LEDlusters - Eye-catching design for chandeliers and other decorative fixtures

Delivering incandescent-like sparkling light effects, MASTER LEDluster bulbs are ideal for general and decorative lighting in the hospitality industry, as well as in home environments. The dimmable MASTER LEDlusters drive further efficiencies, while helping to create the desired atmosphere. Mounted in full view in chandeliers, wall scones or modern luminaires, the clear or frosted glass bulbs fit all existing fixtures with an E14, E27 and B22 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 minimizes maintenance cost.

Product Features

- Retrofittable with existing E14, E27 and B22 holders

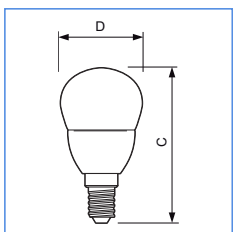
- Lifetime of 20,000 hours
- Available in clear and frosted versions
- Free of mercury and hazardous materials

Product Benefits

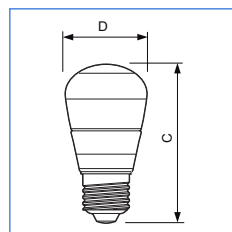
- Sparkling warm white light
- Up to 80% energy saving
- Lower maintenance costs

Application

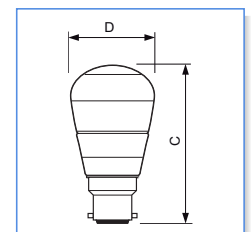
- Hotels, restaurants, bars, cafés
- Chandelier, wall sconce or modern luminaire



Dim. no.	C nom.	D nom.
1	86	43.5



Dim. no.	C nom.	D nom.
2	91.5	46.5



Dim. no.	C nom.	D nom.
3	90	46.5

MASTER LEDluster 230V

Wattage (W)	Cap-Base	Bulb	Colour Temperature (K)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
4	SES	P45	2,700	20,000	Yes	1	ICT / 10 10	MLED4WP45E14CL	19372200	yes
4	SES	P45	2,700	20,000	Yes	1	ICT / 10 10	MLED4WP45E14FR	19254100	yes
4	ES	P45	2,700	20,000	Yes	2	ICT / 10 10	MLED4WP45E27CL	19256500	yes
4	ES	P45	2,700	20,000	Yes	2	ICT / 10 10	MLED4WP45E27FR	19258900	yes
4	BC	P45	2,700	20,000	Yes	3	ICT / 10 10	MLED4WP45B22CL	21065800	yes

MASTER LEDspot LV



MASTER LEDspot LV - The ideal solution for spot lighting

Delivering a warm, halogen-like accent beam, MASTER LEDspot LV 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 offers a choice of beam angles 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.).

Innovative active cooling technology

- thanks to the fan inside - results in maximum performance of the lamp. The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. The dimmable versions drive further efficiencies, while helping to create the desired atmosphere.

Product Features

- Dimmable (the 7-35 W and 10-50 W versions)
- Patented intelligent driver
- Air movement mechanism (active fan cooling) with very low sound levels
- Warm white light
- Lifetime of 25,000 to 45,000 hours

Product Benefits

- Up to 80% energy saving compared with halogen lamp

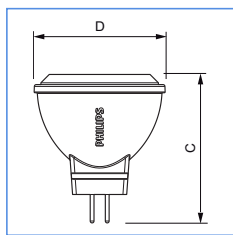
- Broad compatibility with transformers
- Retrofittable with low-voltage MR16 halogen lamps with GU5.3 socket

Applications

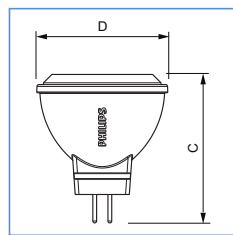
- Ideal for accent lighting in hotels, hospitals, shops and museums (e. g. floors, elevators, displays)

Warnings and Safety

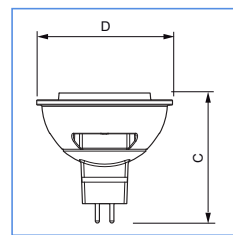
- Operating temperature range is between -20° C and 45° C ambient
- Only to apply in dry or damp locations and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights



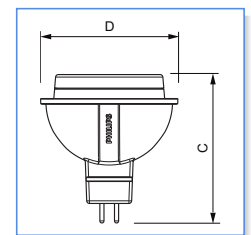
Dim. no.	C nom.	D nom.
1	40	35



Dim. no.	C nom.	D nom.
2	40	35



Dim. no.	C nom.	D nom.
3	47.8	50

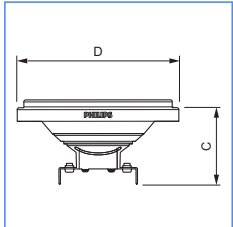


Dim. no.	C nom.	D nom.
4	54	50

MASTER LEDspotLV 12V

Wattage (W)	Cap-Base	Bulb	Beam angle (°)	Colour Temperature (K)	Luminous Intensity (cd)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8718291...	RoHS
4	GU4	MR11	24	2,700	580	25,000	No	1	ICT / 12 12	MLED4WMR1127	11923400	yes
4	GU4	MR11	24	3,000	650	25,000	No	2	ICT / 12 12	MLED420G4MR1124	19224400	yes
4	GU4	MR11	24	4,000	700	25,000	No	1	ICT / 12 12	MLED4WMR1140	11925800	yes
4	GU5.3	MR16	24	2,700	1,000	45,000	No	3	ICT / 10 10	MLED4GU532724NE	19378400	yes
4		MR16	36	2,700	600	45,000	No	3	ICT / 10 10	MLED4GU532736NE	19222000	yes
4	GU5.3	MR16	24	3,000	1,100	45,000	No	3	ICT / 10 10	MLED4GU533024NE	19380700	yes
4		MR16	36	3,000	660	45,000	No	3	ICT / 10 10	MLED4GU533036NE	19226800	yes
4	GU5.3	MR16	24	4,000	700	45,000	No	3	ICT / 10 10	MLED4GU534024NE	19228200	yes
4		MR16	36	4,000	1,150	45,000	No	3	ICT / 10 10	MLED4GU534036NE	19230500	yes
7	GU5.3	MR16	24	2,700	2,140	40,000	Yes	4	ICT / 10 10	MLED7WGU532724U	21039900	yes
7	GU5.3	MR16	36	2,700	1,180	40,000	Yes	4	ICT / 10 10	MLED7WGU532736U	21045000	yes
7	GU5.3	MR16	24	3,000	2,200	40,000	Yes	4	ICT / 10 10	MLED7WGU533024U	21041200	yes
7	GU5.3	MR16	36	3,000	1,210	40,000	Yes	4	ICT / 10 10	MLED7WGU533036U	21047400	yes
7	GU5.3	MR16	24	4,000	2,340	40,000	Yes	4	ICT / 10 10	MLED7WGU534024	21043600	yes
7	GU5.3	MR16	36	4,000	1,230	40,000	Yes	4	ICT / 10 10	MLED7WGU534036	21049800	yes
10	GU5.3	MR16	24	2,700	2,720	30,000	Yes	4	ICT / 10 10	MLED10GU532724U	21051100	yes
10	GU5.3	MR16	36	2,700	1,500	30,000	Yes	4	ICT / 10 10	MLED10GU532736U	21057300	yes
10	GU5.3	MR16	24	3,000	2,840	30,000	Yes	4	ICT / 10 10	MLED10GU533024U	21053500	yes
10	GU5.3	MR16	36	3,000	1,560	30,000	Yes	4	ICT / 10 10	MLED10GU533036U	21059700	yes
10	GU5.3	MR16	24	4,000	3,010	30,000	Yes	4	ICT / 10 10	MLED10GU534024	21055900	yes
10	GU5.3	MR16	36	4,000	1,580	30,000	Yes	4	ICT / 10 10	MLED10GU534036	21061000	yes

MASTER LEDspot LV AR111



Dim. no.	C nom.	D nom.
1	60.5	111

MASTER LEDspot LV AR111 - Ideal solution for spot lighting in shops

Delivering a warm, halogen-like accent beam, MASTER LEDspot LV AR111 is an ideal retrofit solution for spot and general lighting applications in the hospitality and retail industry. It is particularly suitable for general lighting where the light is on all the time, such as creative accent lighting applications in shops, restaurants, hotels, and especially for galleries, exhibitions and museums. The robustly designed MASTER LEDspot LV AR111 offers various beam angles 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.). The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. MASTER LEDspot LV AR111 delivers huge energy savings and minimises maintenance cost without any reduction in brightness.

Product Features

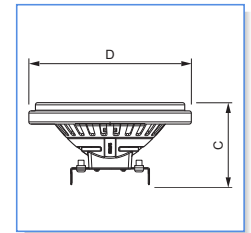
- Patented intelligent driver
- Lifetime of 45,000 hours
- Low energy consumption
- Clearly defined beam spread
- UV- and IR-free light for less heat and protection for heat-sensitive objects

Product Benefits

- Up to 80% energy saving compared with halogen lamps
- Broad compatibility with transformers
- Retrofittable

Application

- Shops, hotels, restaurants, bars, cafés
- Galleries, museums, exhibitions, lobbies, corridors, stairwells, washrooms, reception areas



Dim. no.	C nom.	D nom.
2	56	111



MASTER LEDspotLV AR111 I2V G53

Wattage (W)	Bulb	Beam angle (°)	Colour Temperature (K)	Luminous Intensity (cd)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/Packing configuration	Units per pack	National Order Code	Ordering number 8718291...	RoHS
15.0	Reflector	24	3,000	4,240	45,000	No	1	ICT / 6	6	MLED15AR1113024	15527000	yes
15.0	Reflector	40	3,000	1,520	45,000	No	1	ICT / 6	6	MLED15AR1113040	15529400	yes
15.8	AR111	24	2,700	4,560	45,000	No	1	ICT / 6	6	MLED15AR1112724	15523200	yes
15.8	AR111	40	2,700	1,520	45,000	No	1	ICT / 6	6	MLED15AR1112740	15525600	yes
10.0	AR111	24	2,700	3,360	45,000	Yes	2	ICC / 6	6	MLED10R1112724D	19204600	yes
10.0	AR111	40	2,700	1,220	45,000	Yes	2	ICC / 6	6	MLED10R1112740D	19206000	yes
10.0	AR111	24	3,000	3,470	45,000	Yes	2	ICC / 6	6	MLED10R1113024D	19208400	yes
10.0	AR111	40	3,000	1,270	45,000	Yes	2	ICC / 6	6	MLED10R1113040D	19210700	yes
15.0	AR111	24	2,700	4,560	45,000	Yes	2	ICC / 6	6	MLED15R1112724D	19212100	yes
15.0	AR111	40	2,700	1,660	45,000	Yes	2	ICC / 6	6	MLED15R1112740D	19214500	yes
15.0	AR111	24	3,000	4,700	45,000	Yes	2	ICC / 6	6	MLED15R1113024D	19216900	yes
15.0	AR111	40	3,000	1,700	45,000	Yes	2	ICC / 6	6	MLED15R1113040D	19218300	yes

MASTER LEDspot MV



The perfect replacement for mains voltage halogen spots

Delivering a warm, halogen-like accent beam, MASTER LEDspot MV is a perfect fit for spot lighting (track, corridors, lift lobbies, display cases and cabinets) in the hospitality industry. It is particularly suitable to public areas where the light is on 24/7, such as lobbies, corridors, stairwells. MASTER LEDspot MV 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. These LEDspots are compatible with most existing fixtures with a GU10 holder and designed as

a retrofit replacement for halogen or incandescent spots. The dimmable versions drive further efficiencies, while helping to create the desired atmosphere. For environments where the right atmosphere needs to be created (e. g. bars and restaurants), the "DimTone" feature could be useful. This is a LED feature that creates a warmer tone once light is dimmed down to lower intensities.

Product Features

- Compatible with an extensive range of dimmers
- Lifetime of 25,000 to 45,000 hours
- Clearly defined beam spread
- UV- and IR-free light for less heat and protection for heat-sensitive objects

Product Benefits

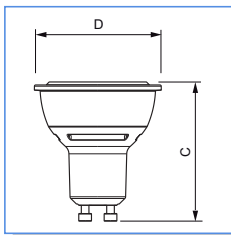
- Up to 80% energy saving compared with halogen lamps
- Retrofittable
- Lower maintenance costs

Applications

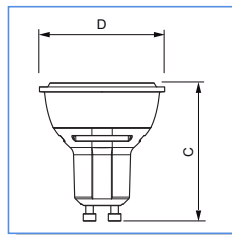
- Hotels, restaurants, bars, cafés
- Lobbies, corridors, stairwells, washrooms, reception areas

Warnings and Safety

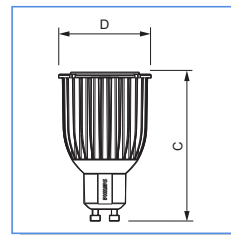
- Operating temperature range is between -20° C and 45° C ambient
- Only to apply in dry or damp locations and most of open fixtures with lamp-holders that offer sufficient space (10 mm free air space)
- Not intended for use with emergency light fixtures or exit lights



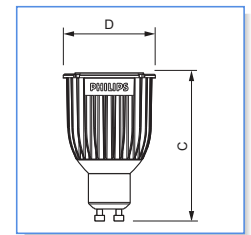
Dim. no.	C nom.	D nom.
1	55	50



Dim. no.	C nom.	D nom.
2	55	50



Dim. no.	C nom.	D nom.
3	80	50



Dim. no.	C nom.	D nom.
4	80	50

MASTER LEDspotMV GU10

Wattage (W)	Additional Information	Beam Angle (°)	Colour Temperature (K)	Luminous Intensity (cd)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	RoHS
4		25	2,700	700	25,000	Yes	1	ICT / 10 10	MLED4GU102725	19234300	yes
4		40	2,700	350	25,000	Yes	1	ICT / 10 10	MLED4GU102740	19236700	yes
4		25	3,000	700	25,000	Yes	1	ICT / 10 10	MLED4GU103025	19238100	yes
4		40	3,000	350	25,000	Yes	1	ICT / 10 10	MLED4GU103040	19240400	yes
4		25	4,000	760	25,000	Yes	1	ICT / 10 10	MLED4GU104025	19242800	yes
4		40	4,000	380	25,000	Yes	1	ICT / 10 10	MLED4GU104040	19244200	yes
6		25	2,700	1,000	40,000	Yes	2	ICT / 10 10	MLED6GU102725D	21067200	yes
6		40	2,700	600	40,000	Yes	2	ICT / 10 10	MLED6GU102740D	21073300	yes
6		25	3,000	1,100	40,000	Yes	2	ICT / 10 10	MLED6GU103025D	21069600	yes
6		40	3,000	600	40,000	Yes	2	ICT / 10 10	MLED6GU103040D	21075700	yes
6		25	4,000	1,100	40,000	Yes	2	ICT / 10 10	MLED6GU104025D	21071900	yes
6		40	4,000	1,100	40,000	Yes	2	ICT / 10 10	MLED6GU104040D	21077100	yes
8	Ra90	25	2,700	1,200	40,000	Yes	3	ICT / 6 6	MLED8GU1092725	68227100	yes
8		25	2,700	1,800	40,000	Yes	4	ICT / 6 6	MLED8GU1082725	68231800	yes
8	Ra90	40	2,700	600	40,000	Yes	3	ICT / 6 6	MLED8GU1092740	68229500	yes
8		40	2,700	900	40,000	Yes	4	ICT / 6 6	MLED8GU1082740	68233200	yes
8		25	3,000	1,900	40,000	Yes	4	ICT / 6 6	MLED8GU1083025	68235600	yes
8		40	3,000	950	40,000	Yes	4	ICT / 6 6	MLED8GU1083040	68237000	yes
8		25	4,000	1,900	40,000	Yes	4	ICT / 6 6	MLED8GU1084025	68239400	yes
8		40	4,000	950	40,000	Yes	4	ICT / 6 6	MLED8GU1084040	68241700	yes

MASTER LEDspot PAR



MASTER LEDspot PAR - The energy-saving alternative for lighting in public areas

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 and industry. There is a choice of dimmable and non-dimmable versions. 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 halogen/incandescent lamps, MASTER LEDspot PAR deliver huge energy savings and minimize 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. The dimmable PAR 20 is a perfect replacement for an incandescent spot.

Product Features

- Lifetime of 45,000 hours
- Dimmable (except PAR38 OD)

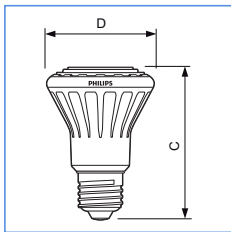
- UV- and IR-free light for less heat and protection for heat-sensitive objects
- Free of mercury and hazardous materials

Product Benefits

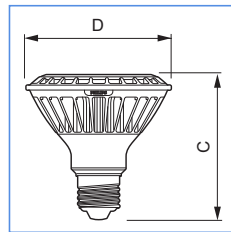
- Up to 80% energy saving compared to halogen lamps
- Retrofittable and compatible with existing fixtures with E27 holder
- Lower maintenance costs

Applications

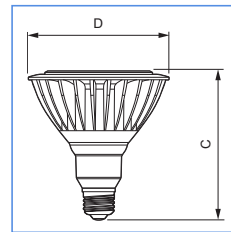
- Especially suitable for public areas like lobbies, corridors, stairwells and restaurants/bars



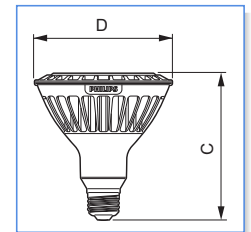
Dim. no.	C nom.	D nom.
1	90.2	63.7



Dim. no.	C nom.	D nom.
2	91	92



Dim. no.	C nom.	D nom.
3	132.5	121.6



Dim. no.	C nom.	D nom.
4	133	122

MASTER LEDspot 230V ES

Wattage (W)	Bulb	Additional Information	Colour Temperature (°C) (K)	Luminous Intensity (cd)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
7	PAR20	Dimmable	25 (2,700)	1,000	45,000	Yes	1	ICT / 6 6	MLEDPAR202725D	872790093398700	yes
7	PAR20	Dimmable	40 (2,700)	450	45,000	Yes	1	ICT / 6 6	MLEDPAR202740D	872790093406900	yes
7	PAR20	Dimmable	25 (3,000)	1,050	45,000	Yes	1	ICT / 6 6	MLEDPAR203025D	872790093400700	yes
7	PAR20	Dimmable	40 (3,000)	500	45,000	Yes	1	ICT / 6 6	MLEDPAR203040D	872790093408300	yes
7	PAR20	Dimmable	25 (4,000)	1,200	45,000	Yes	1	ICT / 6 6	MLEDPAR204025D	872790093402100	yes
7	PAR20	Dimmable	40 (4,000)	550	45,000	Yes	1	ICT / 6 6	MLEDPAR204040D	872790093410600	yes
12	PAR30S	Dimm	25 (2,700)	2,250	45,000	Yes	2	ICC / 6 6	MLED12WPAR30N	871829111927200	yes
17	PAR38	Outdoor	25 (2,700)	3,500	25,000	No	3	ICC / 6 6	MLED17WPAR38OD	871829111931900	yes
18	PAR38	Dimm	25 (2,700)	3,400	45,000	Yes	4	ICC / 6 6	MLED18WPAR38N	871829111929600	yes

MASTER LEDcapsule LV



MASTER LEDcapsule LV - For task lighting and decorative applications

The MASTER LEDcapsule radiates warm light in all directions, making it a true alternative for the halogen capsule. It is particularly suitable for task lighting and decorative applications in homes, shops, hotels and restaurants.

Compatible with existing fixtures with G4 holders and designed for retrofit replacement of halogen capsules, MASTER LEDcapsule

delivers huge energy savings and minimizes maintenance costs without any compromise on light quality. The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers.

Product Features

- Patented intelligent driver
- Removable lens cover
- Warm white light

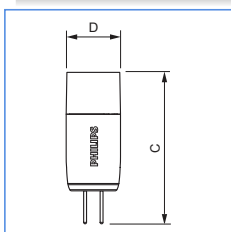
- Lifetime of 35,000 hours
- UV- and IR-free light for less heat and protection for heat-sensitive objects

Product Benefits

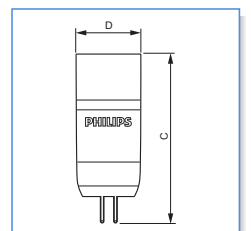
- Up to 75% energy saving compared with halogen lamps
- Broad compatibility with transformers
- Lower maintenance costs

Application

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



Dim. no.	C nom.	D nom.
1	36.8	13.2



Dim. no.	C nom.	D nom.
2	49.8	18.7

MASTER LEDcapsuleLV 12V G4

Wattage (W)	Colour Temperature (K)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
1.0	2,700	25,000	No	1	ICT / 12 12	MLEDLV152700K	871829119202200	yes
2.5	2,700	25,000	No	2	ICT / 12 12	MLED2WG427N	871829115535500	yes

CorePro LEDlamps



The non-dimmable LEDlamps are ideal for general lighting applications. Delivering a warm, halogen-like accent beam, LEDspots are a perfect fit for spot lighting and have a broad compatibility with transformers. LEDspots are compatible with most existing fixtures with a GU10 / MR16 GU5.3 holder and are designed as a retrofit replacement for halogen or incandescent spots. LEDbulbs are compatible with existing fixtures with an

E27 or a B22 holder and are designed for retrofit replacement of incandescent bulbs. LEDlamps deliver huge energy savings and minimise maintenance cost.

Product Features

- non dimmable
- warm white light
- lifetime of 10,000 to 20,000 hours
- UV- and IR-free light for less heat and protection for heat-sensitive objects

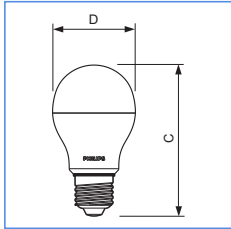
Product Benefits

- up to 80% energy saving compared with halogen lamps

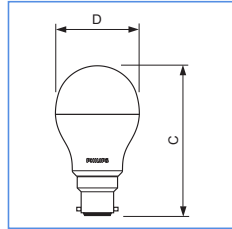
- retrofittable
- lower maintenance costs

Application

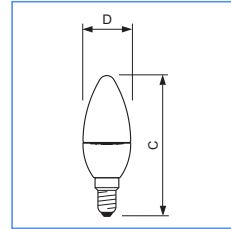
- hotels, restaurants, bars, cafés
- lobbies, corridors, stairwells, washrooms, reception areas



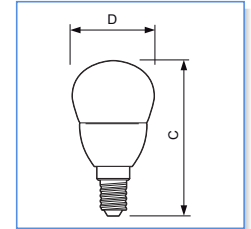
Dim. no.	C nom.	D nom.
1	102.6	56.2



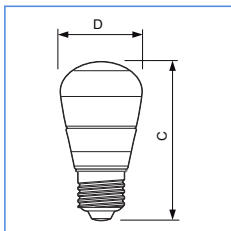
Dim. no.	C nom.	D nom.
2	102.6	56.2



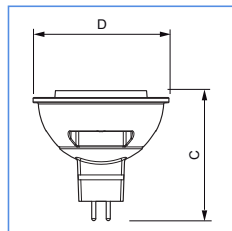
Dim. no.	C nom.	D nom.
3	102	35



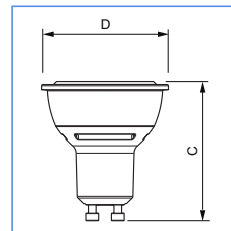
Dim. no.	C nom.	D nom.
4	86	43



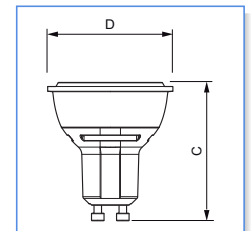
Dim. no.	C nom.	D nom.
5	91	46



Dim. no.	C nom.	D nom.
6	47.8	50



Dim. no.	C nom.	D nom.
7	55	50



Dim. no.	C nom.	D nom.
8	50	54.3

Type	Wattage (W)	Voltage (V)	Cap-Base	Bulb	Colour Temperature (K)	Luminous Intensity (cd)	Rated Lifetime (hours)	Dimmable	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
CorePro LEDBulb	6.0	230	ES		2,700		15,000	No	1	ICC / 6	LED6WE27ND	19268800	yes
CorePro LEDBulb	6.0	230	BC		2,700		15,000	No	2	ICC / 6	LED6WB22ND	19266400	yes
CorePro LEDBulb	9.5	230	ES		2,700		15,000	No	1	ICC / 6	LED9WE27ND	19262600	yes
CorePro LEDBulb	9.5	230	BC		2,700		15,000	No	2	ICC / 6	LED9WB22ND	19260200	yes
CorePro LEDBulb	10.5	230	BC		2,700		15,000	No	2	IBB / 6	LED10WB22ND	25628100	yes
CorePro LEDBulb	10.5	230	ES		2,700		15,000	No	1	IBB / 6	LED10WE27ND	24281900	yes
CorePro LEDcandle	4.0	220-240	SES	B35	2,700		20,000	No	3	ICC / 10	LED4WB35E14FR	67712300	yes
CorePro LEDluster	4.0	220-240	SES	P45	2,700		20,000	No	4	ICC / 10	LED4WP45E14FR	67714700	yes
CorePro LEDluster	4.0	220-240	ES	P45	2,700		20,000	No	5	ICC / 10	LED4WP45E27FR	67716100	yes
CorePro LEDspotLV	5.5	12		MR16 36	2,700	1,000	20,000	No	6	ICT / 10	LEDS5WGU532736	20183000	yes
CorePro LEDspotLV	5.5	12		MR16 36	3,000	1,030	20,000	No	6	ICT / 10	LEDS5WGU533036	19272500	yes
CorePro LEDspotLV	6.5	12		MR16 36	2,700	1,200	20,000	No	6	ICT / 10	LEDS6WGU532736	20191500	yes
CorePro LEDspotLV	6.5	12		MR16 36	3,000	1,250	20,000	No	6	ICT / 10	LEDS6WGU533036	19270100	yes
CorePro LEDspotMV	4.0	230	GU10	36	3,000	300	10,000	No	7	ICT / 10	LEDS4WGU1030ND	20197700	yes
CorePro LEDspotMV	5.0	230	GU10	36	2,700	550	20,000	No	8	IBB / 10	LEDS5WGU1027ND	24277200	yes

LED Tubes

MASTER LEDtube GA



Product Description

Philips MASTER LEDtube integrates a LED light source with a frosted cover design into the traditional linear fluorescent form factor. The new light source offers natural light colours while consumes 22 W system energy when used to replace a TL-D 36 W with electromagnetic ballast, resulting in up to 50% energy saving. The product's long lifetime and excellent lumen maintenance minimize the hassle of re-lamping while reducing maintenance costs. A complete range is available to replace 600, 900, 1,200 and 1,500 mm TL-D tubes.

Product Features

- Only 50% energy consumption compared to fluorescent tubes
- Extra-long life of 40,000 hours
- Retrofit to existing T8 lamps on EM ballast installations
- Full safety features and EM Protector safety device
- No mercury

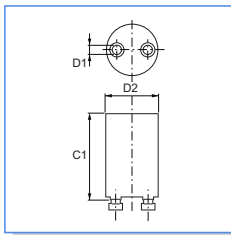
Product Benefits

- Reduced operational cost thanks to lower energy consumption
- Lower maintenance cost thanks to 2-3 times longer lifetime than normal fluorescent tubes

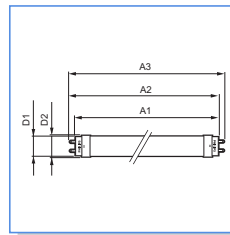
- Fastest and easiest way to upgrade existing luminaire to LED technology; 100%- safe installation process

Application

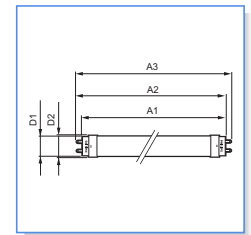
- Parking lots / covered car parks
- Warehouses / coldrooms / signage
- Transport and distribution areas



Dim. no.	C1 nom.	D1 nom.
I	34.5	3



Dim. no.	A1 nom.	A2 nom.	A3 nom.	D1 nom.	D2 nom.
2	588.5	595.5	602.5	25.68	28
3	893.5	900.5	907.5	25.68	28
4	1198.0	1205.0	1212.0	25.68	28
5	1500.0	1507.0	1514.0	25.68	28



Dim. no.	A1 nom.	A2 nom.	A3 nom.	D1 nom.	D2 nom.
6	602.5	595.5	602.5	25.68	28.00
7	602.5	595.5	602.5	28.00	25.68
8	1212.0	1205.0	1212.0	25.68	28.00
9	1212.0	1205.0	1212.0	28.00	25.68
10	1514.2	1507.1	1514.2	25.68	28.00
11	1763.8	1770.9	1778.0	28.00	25.68

Type	Wattage (W)	Colour Rendering Index (R _a)	Beam Angle (°)	Luminous Flux (lm)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 829 1...	RoHS
MASTER LEDtube Starter EMP 050 CP					1	INO / 4X10CC	MLEDSTARTER4X10	15720500	yes
MASTER LEDtube GA110 600mm 10W 840 C	10	83		825	2	ICC / 10	MLEDGA11010840C	23868300	yes
MASTER LEDtube GA110 600mm 10W 840 I	10	83		825	2	ISL / 10	MLEDGA11010840I	23876800	yes
MASTER LEDtube GA110 600mm 10W 865 I	10	83		825	2	ISL / 10	MLEDGA11010865I	23878200	yes
MASTER LEDtube GA110 600mm 10W 865 C	10	83		825	2	ICC / 10	MLEDGA11010865C	23870600	yes
MASTER LEDtube GA110 600mm 10W 840 I ROT	10	83		825	6	ICC / 10	MLEDGA11010840R	66233400	yes
MASTER LEDtube GA300 600mm 11W 840 C	11	85	140	1,050	7	ICC / 10	MLEDGA30011840C	23864500	yes
MASTER LEDtube GA300 600mm 11W 840 I	11	85	140	1,050	7	ISL / 10	MLEDGA30011840I	23872000	yes
MASTER LEDtube GA300 600mm 11W 865 I	11	85	140	1,050	7	ISL / 10	MLEDGA30011865I	23874400	yes
MASTER LEDtube GA300 600mm 11W 865 C	11	85	140	1,050	7	ICC / 10	MLEDGA30011865C	23866900	yes
MASTER LEDtube GA300 600mm 11W 840 I ROT	11	85	140	1,050	7	ICC / 10	MLEDGA30011840R	66229700	yes
MASTER LEDtube GA110 900mm 15W 840 C	15	83		1,265	3	ICC / 10	MLEDGA11015840C	23880500	yes
MASTER LEDtube GA110 900mm 15W 840 I	15	83		1,265	3	ISL / 10	MLEDGA11015840I	23884300	yes
MASTER LEDtube GA110 900mm 15W 865 I	15	83		1,265	3	ISL / 10	MLEDGA11015865I	23886700	yes
MASTER LEDtube GA110 900mm 15W 865 C	15	83		1,265	3	ICC / 10	MLEDGA11015865C	23882900	yes
MASTER LEDtube GA110 1200mm 19W 840 I	19	83		1,650	4	ISL / 10	MLEDGA11019840I	23844700	yes
MASTER LEDtube GA110 1200mm 19W 840 C	19	83		1,650	4	ICC / 10	MLEDGA11019840C	23856000	yes
MASTER LEDtube GA110 1200mm 19W 865 C	19	83		1,650	4	ICC / 10	MLEDGA11019865C	23858400	yes
MASTER LEDtube GA110 1200mm 19W 865 I	19	83		1,650	4	ISL / 10	MLEDGA11019865I	23846100	yes
MASTER LEDtube GA110 1200mm 19W 840 I ROT	19	83		1,650	8	ICC / 10	MLEDGA11019840R	66235800	yes
MASTER LEDtube GA300 1200mm 22W 840 I	22	85	140	2,100	9	ISL / 10	MLEDGA30022840I	23840900	yes
MASTER LEDtube GA300 1200mm 22W 840 C	22	85	140	2,100	9	ICC / 10	MLEDGA30022840C	23852200	yes
MASTER LEDtube GA300 1200mm 22W 865 C	22	85	140	2,100	9	ICC / 10	MLEDGA30022865C	23854600	yes
MASTER LEDtube GA300 1200mm 22W 865 I	22	85	140	2,100	9	ISL / 10	MLEDGA30022865I	23842300	yes
MASTER LEDtube GA300 1200mm 22W 840 I ROT	22	85	140	2,100	9	ICC / 10	MLEDGA30022840R	66231000	yes
MASTER LEDtube GA110 1500mm 24W 840 I	24	83		2,065	5	ISL / 10	MLEDGA11024840I	23848500	yes
MASTER LEDtube GA110 1500mm 24W 840 C	24	83		2,065	5	ICC / 10	MLEDGA11024840C	23860700	yes
MASTER LEDtube GA110 1500mm 24W 865 C	24	83		2,065	5	ICC / 10	MLEDGA11024865C	23862100	yes
MASTER LEDtube GA110 1500mm 24W 865 I	24	83		2,065	5	ISL / 10	MLEDGA11024865I	23850800	yes
MASTER LEDtube GA110 1500mm 24W 840 I ROT	24	83		2,065	10	ICC / 10	MLEDGA11024840R	66237200	yes
MASTER LEDtube GA210 1500mm 34W 840 G13	34	85	140	3,000	10	ISL / 10	MLEDGA34W840	19860400	yes
MASTER LEDtube GA300 1800mm 45W 840 C	45	85	140	4,000	11	ICC / 10	MLEDGA30045840C	66100900	yes

CorePro LEDtube



The affordable LED solution

The CorePro LEDtube is an affordable LED solution suitable for replacing T8 fluorescent lamps. The product provides a natural lighting effect for use in general lighting applications, as well as instant energy savings – an environmentally friendly solution.

Product Features

- Only 50% energy consumption compared to fluorescent tubes

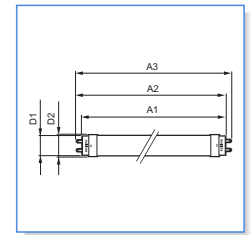
- Lasts two times longer than fluorescent tubes
- Retrofit replacement of existing T8 lamps on electromagnetic (EM) ballast installations

Product Benefits

- Minimizes overall lighting costs
- Offers cheapest and easiest upgrade to LED lighting technology

Application

- Parking lots and covered car parks
- Warehouses and coldrooms
- Signage



Dim. no.	A1 nom.	A2 nom.	A3 nom.	D1 nom.	D2 nom.
1	588.5	595.5	602.5	25.68	28
2	1198.0	1205.0	1212.0	25.68	28

Type	Wattage (W)	Colour Rendering Index (Ra)	Beam angle (°)	Luminous Flux (lm)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 871 8291...	RoHS
CorePro LEDtube 600mm 10W 840 I	10	80	140	800	1	ICC / 10	CLEDTUBE10W840I	66963000	yes
CorePro LEDtube 600mm 10W 840 C	10	80	140	800	1	ICC / 10	CLEDTUBE10W840C	66971500	yes
CorePro LEDtube 600mm 10W 865 C	10	80	140	800	1	ICC / 10	CLEDTUBE10W865C	66973900	yes
CorePro LEDtube 600mm 10W 865 I	10	80	140	800	1	ICC / 10	CLEDTUBE10W865I	66965400	yes
CorePro LEDtube 1200mm 20W 840 I	20	80	140	1,600	2	ICC / 10	CLEDTUBE20W840I	66959300	yes
CorePro LEDtube 1200mm 20W 840 C	20	80	140	1,600	2	ICC / 10	CLEDTUBE20W840C	66967800	yes
CorePro LEDtube 1200mm 20W 865 C	20	80	140	1,600	2	ICC / 10	CLEDTUBE20W865C	66969200	yes
CorePro LEDtube 1200mm 20W 865 I	20	80	140	1,600	2	ICC / 10	CLEDTUBE20W865I	66961600	yes

LED Freezer System

Affinium LED freezer modules 393



Lighting food. Brightening faces.

Affinium LED freezer modules LFM393 can be installed horizontally in the top section of a glass-door cabinet to offer extra lighting in the upper section of the cabinet and on eye-level shelves, thus improving the visibility of the merchandise. The modules are typically used in combination with Affinium LED display modules such as the LDM400/410 and are operated by a separate Philips LED power driver.

Product Features

- Module length 490 mm
- Available in cool white and neutral white

Product Benefits

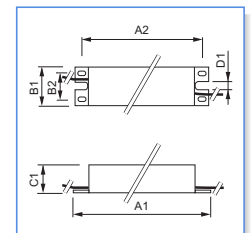
- Affinium LED lighting offers excellent total cost of ownership with attractive payback times
- Improved visibility and presentation of the fresh food on display; especially in the upper section and on shelves at eye level.
- Reduced risk of the food on display spoiling, because LEDs generate less heat than fluorescent lamps.
- Virtually maintenance-free throughout the life of the cooler display thanks to the long lifetime of 50,000 hours with excellent lumen maintenance.

Application

- Glass-door freezer cabinets (horizontal installation in the top section).

System

- The lighting appearance of the LFM393 modules, combined with LDM400/410 for example, gives a store a sparkling, modern touch.



A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
241	228.6	43	26.6	30	4.4

Type	Packing type/Packing configuration	National Order Code	Ordering number 871 1500...
LED Power Driver Outd. 100-240V 100W 24V	UNP / 10	LPD-100WLED	91196430

Fluorescent Lamps

TL5

MASTER TL5 High Efficiency Xtra Eco



The ideal combination of extra-long life and highest efficiency

TL5 High Efficiency Xtra Eco lamp (tube diameter 16 mm) provides the ideal combination of extra-long life and extra energy savings via simple lamp-for-lamp replacement of TL5 HE lamps, without any compromise on the high lighting quality.

Product Features

- High lamp efficacies up to 114 lm/W
- Up to 10% power reduction and double the lamp life compared to standard MASTER TL5 HE

Product Benefits

- The longer product lifetime lowers maintenance costs and facilitates the change from spot to group replacement, while at the same time reducing waste and disposal cost.

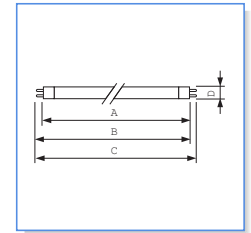
- Up to 10% energy saving
- The same quality of light as from MASTER TL5 HE lamps

Application

- All current TL5 HE applications, e. g. offices, schools, supermarkets, industry

Warnings and Safety

- Power reduction and energy savings are only achieved with current-controlled gear (N. B. Operation with power-controlled gear will result in more light output instead of reduced power and energy use).



Dim. no.	A		B		C		D	
	max.	min.	max.	min.	max.	min.	max.	
1	549	553.7	556.1	563.2	17			
2	1149	1153.7	1156.1	1163.2	17			
3	1449	1453.7	1456.1	1463.2	17			



MASTER TL5 HE Xtra Eco G5

Wattage/Colour Code	Colour Rendering Index	Colour Temperature	Luminous Flux EL 25°C, Rated	Lum Efficacy Rated HF 35°C	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number	8718291...	Recycling symbol	
													(R _a)
13W/830	85	3,000	A	1,150	104	30,000	45,000	1	ISL / 40	40	13830TL5ECOXTTRA	66940100	yes
13W/840	85	4,000	A	1,150	104	30,000	45,000	1	ISL / 40	40	13840TL5ECOXTTRA	66942500	yes
25W/830	85	3,000	A	2,450	112	30,000	45,000	2	ISL / 40	40	25830TL5ECOXTTRA	66944900	yes
25W/840	85	4,000	A	2,450	112	30,000	45,000	2	ISL / 40	40	25840TL5ECOXTTRA	66946300	yes
32W/830	85	3,000	A	3,100	111	30,000	45,000	3	ISL / 40	40	32830TL5ECOXTTRA	66948700	yes
32W/840	85	4,000	A	3,100	111	30,000	45,000	3	ISL / 40	40	32840TL5ECOXTTRA	66950000	yes

MASTER TL5 High Efficiency Eco



The world's most efficient fluorescent lighting

This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HE Eco lamp offers excellent lumen maintenance and colour rendering. Application areas vary from offices and industry to schools and retail environments.

Product Features

- High lamp efficacies up to 114 lm/W
- Up to 10% power reduction in comparison with standard MASTER TL5 HE lamps
- Fluorescent Super 80 light quality

Product Benefits

- Up to 10% energy saving with simply changing the lamp
- The same quality of light as compared with MASTER TL5 HE lamps
- All benefits of regular TL5 lamps

Environment

- Best environmental choice because of highest available energy efficiency for fluorescent lighting
- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions
- This product range is RoHS compliant
- This product range is covered by WEEE

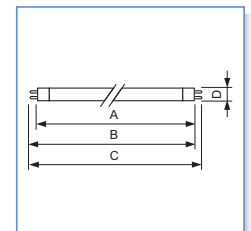
Application

- Ideally suited for recessed, surface-mounted and suspended luminaires e. g. in offices, shops, schools, public buildings and industry (low ceiling), wherever high-quality, energy-efficient lighting is required

Warnings and Safety

- Energy reduction is only achieved with current-controlled gear

- The lamps operate perfectly with power-controlled gear, but in that case give more light output instead of using less energy
- Depending on the technical design of the ballast the increase of light output can be up to 10% with a fully power-controlled ballast



Dim. no.	A		B		C		D	
	max.	min.	max.	min.	max.	min.	max.	
1	549	553.7	556.1	563.2	17			
2	1149	1153.7	1156.1	1163.2	17			
3	1449	1453.7	1456.1	1463.2	17			

MASTER TL5 HE Eco G5

Wattage/Colour Code	Colour Rendering Index	Colour Temperature	Luminous Flux EL 25°C, Rated	Lum Efficacy Rated HF 35°C	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number	8727900...	Recycling symbol	
													(R _a)
13=14W/840	85	4,000	A	1,150	108	21,000	25,000	1	UNP / 40	40	13840TL5ECO	88083000	yes
25=28W/840	85	4,000	A	2,600	114	21,000	25,000	2	UNP / 40	40	25840TL5ECO	82589300	yes
32=35W/840	85	4,000	A	3,100	114	21,000	25,000	3	UNP / 40	40	32840TL5ECO	82593000	yes

MASTER TL5 High Output EcoPlus



The ultimate step in energy saving with TL5 High Output EcoPlus lamp (tube diameter 16 mm) provides extra energy savings by simple lamp-for-lamp replacement of TL5 HO Eco lamps, at the expense of slightly reduced light output. No compromises are made on the excellent TL5 lumen maintenance, lifetime and colour rendering. Application areas vary from offices and industry to schools and retail environments.

Product Features

- High lamp efficacies up to 107 lm/W
- Up to 20% power reduction compared with standard MASTER TL5 HO lamps and up to 10% compared with TL5 HO Eco lamps

Product Benefits

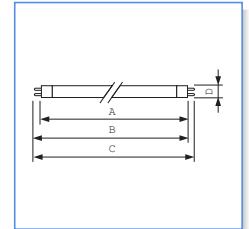
- Up to 20% energy saving simply by changing the lamp
- The same quality of light as from MASTER TL5 HO lamps
- All benefits of regular TL5 lamps

Application

- All current non-dimmable TL5 HO indoor applications, e. g. offices, schools, supermarkets, industrial facilities with room temperatures above 20°C (which means temperatures around the lamp of over 25-30°C)
- Not recommended for use where there is a strong air flow around the lamps

Warnings and Safety

- Power reduction and energy savings are only achieved with current-controlled gear. (N. B. Operation with power-controlled gear will result in more light output instead of reduced power and energy use.)
- TL5 HO EcoPlus is not designed for dimming applications.



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	1449	1453.7	1456.1	1463.2	17
2	1149	1153.7	1156.1	1163.2	17

MASTER TL5 HO EcoPlus G5

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Lum Efficacy Rated HF 35°C (lm/W)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8718291...	
41W/830	82	3,000	A	107	21,000	25,000	1	UNP / 40	40	41830TLSECO+	66336200	yes
41W/840	82	4,000	A	107	21,000	25,000	1	UNP / 40	40	41840TLSECO+	66337900	yes
44W/830	82	3,000	A	102	21,000	25,000	2	UNP / 40	40	44830TLSECO+	66332400	yes
44W/840	82	4,000	A	102	21,000	25,000	2	UNP / 40	40	44840TLSECO+	66333100	yes
66W/830	82	3,000	A	97	21,000	25,000	1	UNP / 40	40	66830TLSECO+	66340900	yes
66W/840	82	4,000	A	97	21,000	25,000	1	UNP / 40	40	66840TLSECO+	66341600	yes

MASTER TL5 High Output Eco



The world's most efficient and brightest fluorescent lighting. This extremely efficient TL5 lamp (tube diameter 16 mm) saves considerable energy by simple lamp-for-lamp replacement. The TL5 HO Eco lamp is optimized for installations requiring high light output and offers excellent lumen maintenance and colour rendering. Application areas vary from offices and industry to schools and retail environments.

Product Features

- High lamp efficacies up to 109 lm/W
- Up to 10% power reduction in comparison with standard MASTER TL5 HO lamps

Product Benefits

- Up to 10% energy saving with simply changing the lamp
- The same quality of light as compared with MASTER TL5 HO lamps
- All benefits of regular TL5 lamps

Environment

- Best environmental choice because of highest available energy efficiency for fluorescent lighting
- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions
- This product range is RoHS compliant
- This product range is covered by WEEE

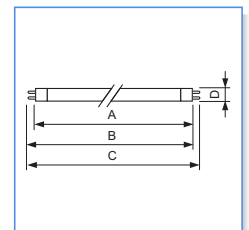
Application

- Offers very economic solutions for 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

Warnings and Safety

- Energy reduction is only achieved with current-controlled gear

- The lamps operate perfectly with power-controlled gear, but in that case give more light output instead of using less energy
- Depending on the technical design of the ballast the increase of light output can be up to 10% with a fully power-controlled ballast



Dim. no.	A max.	B min.	B max.	C max.	D max.
1	549	553.7	556.1	563.2	17
2	1449	1453.7	1456.1	1463.2	17
3	1149	1153.7	1156.1	1163.2	17

MASTER TL5 HO Eco G5

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EL 25°C, Rated (lm)	Lum Efficacy Rated HF 35°C (lm/W)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8727900...	
20=24W/840	85	4,000	A	1,650	99	21,000	25,000	1	UNP / 40	40	20840TLSECO	88086100	yes
45=49W/830	85	3,000	A	4,100	109	21,000	25,000	2	UNP / 40	40	45830TLSECO	82594700	yes
45=49W/840	85	4,000	A	4,100	109	21,000	25,000	2	UNP / 40	40	45840TLSECO	82595400	yes
50=54W/830	85	3,000	A	4,450	102	21,000	25,000	3	UNP / 40	40	50830TLSECO	82590900	yes
50=54W/840	85	4,000	A	4,450	102	21,000	25,000	3	UNP / 40	40	50840TLSECO	82591600	yes
73=80W/840	85	4,000	A	6,550	96	21,000	25,000	2	UNP / 40	40	73840TLSECO	82597800	yes

MASTER TL5 High Efficiency



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

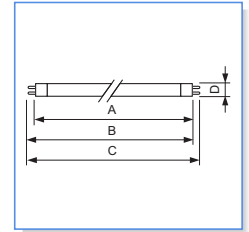
- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Offers higher efficiencies and energy savings compared with TL-D lamps
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

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



Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
1	549	553.7	556.1	563.2	17		
2	849	853.7	856.1	863.2	17		
3	1149	1153.7	1156.1	1163.2	17		
4	1449	1453.7	1456.1	1463.2	17		

MASTER TL5 HE G5

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EL 25°C, Rated (lm)	Lum Efficacy Rated HF 35°C (lm/W)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration 	National Order Code	Ordering number	
14W/830	85	3,000	A	1,250	99	19,000	24,000	1	ISL / 40 40	14830	87115006 3938755	yes
14W/835	85	3,500	A	1,250	99	19,000	24,000	1	ISL / 40 40	14835	87115007 7065955	yes
14W/840	85	4,000	A	1,250	99	19,000	24,000	1	ISL / 40 40	14840	87115006 3940055	yes
14W/865	85	6,500	A	1,175	91	19,000	24,000	1	ISL / 40 40	14865	87115007 1009355	yes
21W/830	85	3,000	A	1,925	101	19,000	24,000	2	ISL / 40 40	21830	87115006 3942455	yes
21W/835	85	3,500	A	1,925	101	19,000	24,000	2	ISL / 40 40	21835	87182911 1501400	yes
21W/840	85	4,000	A	1,925	101	19,000	24,000	2	ISL / 40 40	21840	87115006 3944855	yes
21W/865	85	6,500	A	1,775	94	19,000	24,000	2	ISL / 40 40	21865	87115007 1011655	yes
28W/830	85	3,000	A	2,625	104	19,000	24,000	3	ISL / 40 40	28830	87115006 3946255	yes
28W/835	85	3,500	A	2,625	104	19,000	24,000	3	ISL / 40 40	28835	87115007 1004855	yes
28W/840	85	4,000	A	2,625	104	19,000	24,000	3	ISL / 40 40	28840	87115006 3948655	yes
28W/865	85	6,500	A	2,450	97	19,000	24,000	3	ISL / 40 40	28865	87115007 1015455	yes
28W/865	85	6,500	A	2,450	97	19,000	24,000	3	UNP / 40 40	28865IP	87115006 1092855	yes
35W/830	85	3,000	A	3,325	105	19,000	24,000	4	ISL / 40 40	35830	87115006 3950955	yes
35W/835	85	3,500	A	3,325	105	19,000	24,000	4	ISL / 40 40	35835	87115007 1006255	yes
35W/840	85	4,000	A	3,325	105	19,000	24,000	4	ISL / 40 40	35840	87115006 3952355	yes
35W/865	85	6,500	A	3,100	98	19,000	24,000	4	ISL / 40 40	35865	87115007 1018555	yes

MASTER TL5 High Output



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

Product Benefits

- Allows system miniaturisation and maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Optimised for installations which need high luminous flux
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Product Description

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

Product Features

- 40% thinner than TL-D lamps
- Designed for high light output and system miniaturisation
- Highly efficient 3-band fluorescent coating in combination with precoating

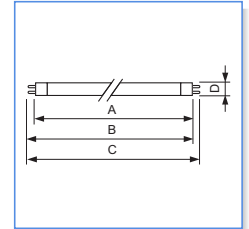
Environment

- 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.	max.	max.	max.	
1	549	553.7	556.1	563.2	17		
2	849	853.7	856.1	863.2	17		
3	1449	1453.7	1456.1	1463.2	17		
4	1149	1153.7	1156.1	1163.2	17		

MASTER TL5 HO G5

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EL 25°C, Rated (lm)	Lum Efficacy Rated HF 35°C (lm/W)	Life to 10% fail Preheat EL _{3h} (h)	Life to 50% fail Preheat EL _{3h} (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
24W/830	85	3,000	A	1,750	87	19,000	24,000	1	ISL / 40 40	24830	87115006 3958555	yes
24W/840	85	4,000	A	1,750	87	19,000	24,000	1	ISL / 40 40	24840	87115006 3960855	yes
39W/830	85	3,000	A	3,100	92	19,000	24,000	2	ISL / 40 40	39830	87115006 3962255	yes
39W/830	85	3,000	A	3,100	92	19,000	24,000	2	UNP / 40 40	39830IP	87115006 3716155	yes
39W/840	85	4,000	A	3,100	92	19,000	24,000	2	ISL / 40 40	39840	87115006 3964655	yes
49W/830	85	3,000	A	4,375	99	19,000	24,000	3	ISL / 40 40	49830	87115006 3954755	yes
49W/835	85	3,500	A	4,375	99	19,000	24,000	3	ISL / 40 40	49835	87182911 1503800	yes
49W/840	85	4,000	A	4,375	99	19,000	24,000	3	ISL / 40 40	49840	87115006 3956155	yes
49W/840	85	4,000	A	4,375	99	19,000	24,000	3	UNP / 40 40	49840IP	87115006 3758155	yes
49W/865	85	6,500	A	4,075	92	19,000	24,000	3	ISL / 40 40	49865	87115006 4389655	yes
54W/830	85	3,000	A	4,450	93	19,000	24,000	4	ISL / 40 40	54830	87115006 4316255	yes
54W/840	85	4,000	A	4,450	93	19,000	24,000	4	ISL / 40 40	54840	87115006 4318655	yes
54W/865	85	6,500	A	4,150	86	19,000	24,000	4	ISL / 40 40	54865	87115006 4391955	yes

MASTER TL5 High Output Xtra



- 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 colour rendering

Environment

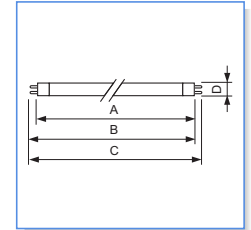
- Best environmental choice because of highest energy efficiency for fluorescent lighting and long reliable life. This leads to lower CO₂ emissions than any other comparable light source (40% less than TL-D standard lamp, 26% less than TL-D 800) and less waste. Products with the 'Green Flagship' logo 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		B		C		D
	max.	min.	max.	min.	max.	min.	
1	1449	1453.7	1456.1	1463.2	17		
2	1149	1153.7	1156.1	1163.2	17		




Product Description

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

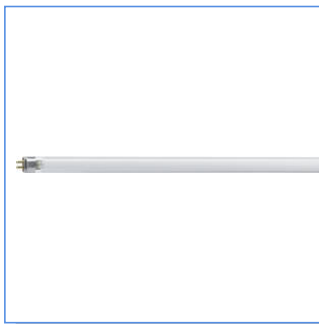
Product Features

- 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)

MASTER TL5 HO Xtra G5

Wattage/ Colour Code	Colour Rendering Index	Colour Temperature		Luminous Flux EL 25°C, Rated	Lum Efficacy Rated HF 35°C	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
49W/830	85	3,000	A	4,375	99	30,000	45,000	1	ISL / 20	20	49830XTRATLS	26251605	yes
49W/840	85	4,000	A	4,375	99	30,000	45,000	1	ISL / 20	20	49840XTRATLS	26253005	yes
54W/830	85	3,000	A	4,450	93	30,000	45,000	2	ISL / 20	20	54830XTRATLS	26323005	yes
54W/840	85	4,000	A	4,450	93	30,000	45,000	2	ISL / 20	20	54840XTRATLS	26352005	yes
80W/830	85	3,000	A	6,240	88	30,000	45,000	1	ISL / 20	20	80830XTRATLS	26261505	yes
80W/840	85	4,000	A	6,240	88	30,000	45,000	1	ISL / 20	20	80840XTRATLS	26303205	yes

MASTER TL5 High Output TOP



Product Features

- Lumen output higher than 90% of maximum value at ambient lamp temperatures from 20 to 75°C due to amalgam-controlled operation
- Allows dimming-down to 30% light output
- Hot restrike and good run-up behaviour compared to high intensity discharge lamps due to auxiliary amalgams at both lamp ends
- Can be ignited at temperatures from -15 to +75°C
- Allows system miniaturization with maximum luminaire design freedom
- Lamp lengths enable easy fitting into ceiling module systems
- Retrofit to current TL5 HO non-amalgam lamps
- Optimized for installations which need high luminous flux, especially in hot (above 40°C) conditions

- Constant lumen level over a wide temperature range (20-75°C) with excellent lumen maintenance
- Good colour rendering

Environment

- Highest energy efficiency in fluorescent lighting
- 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

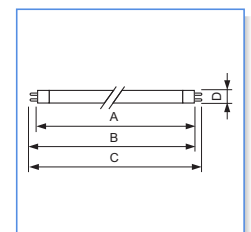
Application

- Architectural lighting and customized solutions thanks to compact lamp size and high lumen package, especially in 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

Warnings and Safety

Not recommended for emergency lighting due to slower run-up behaviour than non-amalgam TL5 lamps






A	B	C	D
max.	min.	max.	max.
1449	1453.7	1456.1	1463.2
			17

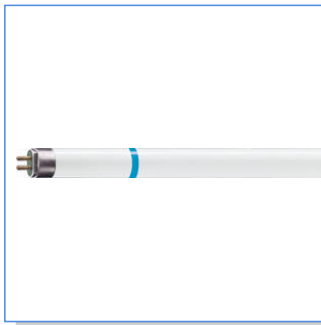
Temperature independent fluorescent lighting

This TL5 HO lamp (tube diameter 16 mm) offers a constant light level, independent of temperature fluctuations, making it an excellent solution for warm applications. The TL5 HO TOP can be operated on equivalent systems as MASTER TL5 HO. Excellent solution for warm applications, such as unconditioned warehouses, wall washers, etc.

MASTER TL5 HO TOP G5

Wattage/ Colour Code	Colour Rendering Index	Colour Temperature		Luminous Flux EL 25°C, Rated	Lum Efficacy Rated HF 35°C	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
49W/840	85	4,000	A	4,650	99	19,000	24,000	ISL / 20	20	49840TOP	26687305	yes
80W/840	85	4,000	B	6,650	88	19,000	24,000	ISL / 20	20	80840TOP	26691005	yes

MASTER TL5 HE Secura



Shatterfree fluorescent lighting

This TL5 High Efficiency Secura lamp (tube diameter 16 mm) has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by a blue ring at one end. Application areas are all places where glass shatters can disturb operations and can have an impact on product and people safety, e. g. the food and beverage industry. This lamp is compliant with HACCP regulations and supports HACCP certification.

Product Features

- Protective coating around the lamp
- Fully compliant with IEC 61549 - Fragment Retention Lamp Standard
- Compliant with relevant standards in the food industry, such as HACCP and ISO 22000

- Superior coating material (Teflon) with high temperature resistance (up to 200°C) and no degradation under influence of temperature or UV
 - Single blue ring around one end for identification
 - Direct retrofit for all TL5 HE lamps
- ### Product Benefits
- Special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage
 - High temperature-resistance (up to 200°C) and no degradation under influence of temperature or UV
 - Making luminaires compliant with relevant standards in the industry, such as HACCP, ISO 22000 and IEC 61549

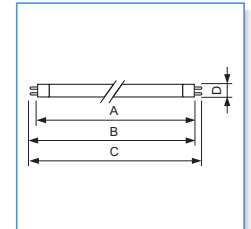
Environment

- Best environmental choice because of highest energy efficiency

- 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

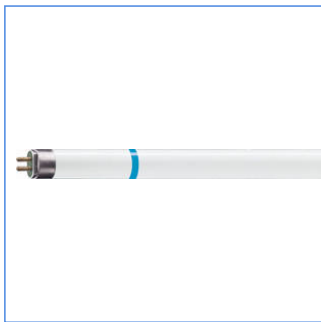


A	B	C	D
max.	min.	max.	max.
1149	1153.7	1156.1	1163.2
			17

MASTER TL5 HE Secura G5

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Tempera- ture (K)		Luminous Flux EL 25°C, Rated (lm)	Lum Efficacy Rated HF 35°C (lm/W)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Packing type/ Packing configuration		National Order Code	Ordering number 871 1500...	
28W/840	85	4,000	A	2,625	104	19,000	24,000	UNP / 40	40	28840TL5SEC	95215855	yes

MASTER TL5 High Output Secura



Shatterfree fluorescent lighting

This TL5 High Output Secura lamp (tube diameter 16 mm) has a protective coating that keeps glass and lamp components together in the event of accidental breakage. The lamp is easily identifiable by a blue ring at one end. Application areas are all places where glass shatters can disturb operations and can have an impact on product and people safety, e. g. the food and beverage industry. This lamp is compliant with HACCP regulations and supports HACCP certification.

Product Features

- Protective coating around the lamp
- Fully compliant with IEC 61549 - Fragment Retention Lamp Standard
- Superior coating material (Teflon) with high temperature-resistance (up to 200°C) and no degradation under influence of temperature or UV

- Single blue ring around one end for identification
- Direct retrofit for all TL5 HO lamps

Product Benefits

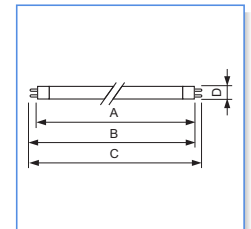
- Special protective coating around the lamp prevents products from contamination in case of accidental lamp breakage
- High temperature-resistance (up to 200°C) and no degradation under influence of temperature or UV
- Making luminaires compliant with relevant standards in the industry, such as HACCP, ISO 22000 and IEC 61549

Environment

- Best environmental choice because of highest energy efficiency
- 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



Dim. no.	A	B	C	D
1	max.	min.	max.	max.
1	1149	1153.7	1156.1	1163.2
2	1449	1453.7	1456.1	1463.2
				17

MASTER TL5 HO Secura G5

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Tempera- ture (K)		Lamp Lumi- nous Flux 25°C EL (lm)	Luminous Flux EL 25°C, Rated (lm)	Lum Efficacy Rated HF 35°C (lm/W)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 871 1500...	
54W/840	85	4,000	A	4,450	4,450	93	19,000	24,000	1	UNP / 40	40	54840TL5SEC	95231855	yes
80W/840	85	4,000	A	6,550	6,550	88	19,000	24,000	2	UNP / 40	40	80840TL5SEC	95235655	yes

MASTER TL5 Circular



Product Description

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

Product Features

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

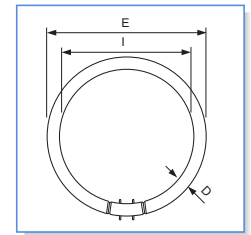
Product Benefits

- Slim 16 mm tube allows creation of extremely flat luminaires
- Allows appealing circular designs

- High lamp efficacy
- Good colour rendering
- Temperature independent light output
- Higher average system efficiency

Application

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



Dim. no.	D		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 (R _a)	Colour Temperature (K)		Luminous Flux EL 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
22W/830	85	3,000	A	1,800	8,000	12,000	1	ICT / 10	10	22TL5C830	64095625	yes
22W/840	85	4,000	A	1,800	8,000	12,000	1	ICT / 10	10	22TL5C840	64221925	yes
40W/830	85	3,000	A	3,300	8,000	12,000	2	ICT / 10	10	40TL5C830	64097025	yes
40W/840	85	4,000	A	3,300	8,000	12,000	2	ICT / 10	10	40TL5C840	64223325	yes
55W/830	85	3,000	B	4,200	8,000	12,000	2	ICT / 10	10	55TL5C830	64279025	yes
55W/840	85	4,000	B	4,200	8,000	12,000	2	ICT / 10	10	55TL5C840	64251625	yes
60W/830	85	3,000	B	5,000	8,000	12,000	3	ICT / 10	10	60TL5C830	64259225	yes
60W/840	85	4,000	B	5,000	8,000	12,000	3	ICT / 10	10	60TL5C840	64261525	yes

TL-D

MASTER TL-D Eco



- Uses the latest highly efficient phosphors and special filling gas
- High-quality lighting with good colour rendering (CRI > 80)
- Light output comparable to other TL-D Super 80 colours
- Lumen maintenance and lifetime the same as other TL-D Super 80 colours
- Dimmable

Product Benefits

- Simple lamp-for-lamp replacement for more than 10% energy savings
- Makes lighting installations compliant with latest indoor lighting standards
- Relatively high efficacy, both initially and during lifetime, with high lumen maintenance

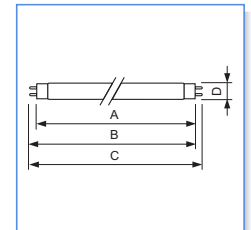
Environment

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

- RoHS compliant
- Covered by WEEE

Application

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



Dim. no.	A		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 lamps with a tubular 26 mm envelope

Product Features

- The only T8 fluorescent lamp that saves more than 10% of energy in existing indoor luminaires
- Can be directly retrofitted into existing fluorescent fittings operating on conventional EM or HF gear in indoor applications

MASTER TL-D Eco G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux Lamp EM 30°C (lm)	Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
16W/840	85	4,000	A	1,300	1,175	17,000	20,000	1	ISL / 25	25	16840TLDECO	26861740	yes
32W/830	85	3,000	A	3,000	2,650	17,000	20,000	2	ISL / 25	25	32830TLDECO	26458940	yes
32W/840	85	4,000	A	3,000	2,650	17,000	20,000	2	ISL / 25	25	32840TLDECO	26462640	yes
51W/830	85	3,000	A	4,800	4,550	17,000	20,000	3	ISL / 25	25	51830TLDECO	26466440	yes
51W/840	85	4,000	A	4,800	4,550	17,000	20,000	3	ISL / 25	25	51840TLDECO	26470140	yes

MASTER TL-D Power Saver Set



Product Features

- Up to 30% energy saving, while maintaining the lighting level compared to a TL-D Standard colours lamps (halophosphate), is achieved by an intelligent electronic starter in combination with the most efficient fluorescent TL-D lamp
- Designed for operation on electro-magnetic gear only
- Full thermal safety monitoring which cuts off defective or end-of-life lamps
- Instant flicker-free ignition (nom. 2.0 seconds)
- Can be ignited from -15 to +50°C
- Product range is RoHS-compliant
- Product range is covered by WEEE

Product Benefits

- Significant energy saving while maintaining light levels and improving light quality in comparison with TL-D Standard colours lamps (halophosphate)

Simply 30% energy saving

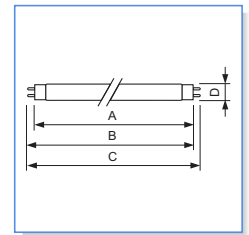
The MASTER TL-D Power Saver Set is a perfect solution for upgrading your existing lighting installation with a special TL-D lamp with an intelligent starter. It offers considerable energy savings while maintaining the same lighting level and a better light quality. The MASTER TL-D Power Saver Set is easy to install, simply by changing the lamp and the starter. The benefits are huge in all current installations with TL-D lamps.

- Higher colour rendering than TL-D Standard colours lamps (halophosphate)
- Longer lifetime than TL-D Standard colours lamps (halophosphate)
- Instant, smooth and flicker-free start-up of the lamps
- Lamps are switched off directly at end-of-life, preventing irritation (no flickering), unnecessary electricity consumption and fire risk
- Starter contains flame-retardant components; UV-resistant canister ensures increased safety and secure ignition

Application

- Suitable to replace TL-D Standard colours lamps (halophosphate) in all existing TL-D luminaires with electromagnetic gear (220/240 V, 50 Hz). Use on 60 Hz and/or 110 V systems leads to non-functionality of the system.

- Can also be used to replace MASTER TL-D Super 80 lamps, but the light output of the total installation will then be reduced by approximately 20%.

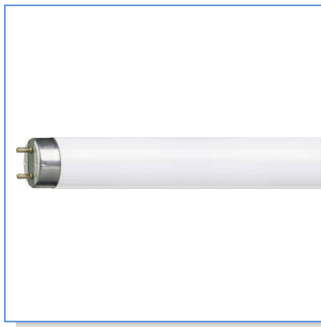


Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.		
1	589.8	594.5	596.9	604.0	28		
2	1199.4	1204.1	1206.5	1213.6	28		
3	1500.0	1504.7	1507.1	1514.2	28		

MASTER TL-D Power Saver Set G13

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...			
12=18W/830	82	3,000	A	1	ISL / 25	25	18830TLDPSSI XI	91496200	yes
12=18W/840	82	4,000	A	1	ISL / 25	25	18840TLDPSSI XI	91498600	yes
12=18W/865	82	6,500	A	1	ISL / 25	25	18865TLDPSSI XI	91500600	yes
23=36W/830	82	3,000	A	2	ISL / 25	25	36830TLDPSSI XI	91502000	yes
23=36W/840	82	4,000	A	2	ISL / 25	25	36840TLDPSSI XI	91504400	yes
23=36W/865	82	6,500	A	2	ISL / 25	25	36865TLDPSSI XI	91506800	yes
37=58W/830	82	3,000	A	3	ISL / 25	25	58830TLDPSSI XI	91508200	yes
37=58W/840	82	4,000	A	3	ISL / 25	25	58840TLDPSSI XI	91510500	yes
37=58W/865	82	6,500	A	3	ISL / 25	25	58865TLDPSSI XI	91512900	yes

MASTER TL-D Super 80



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

Product Description

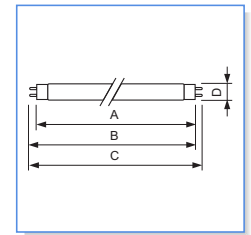
- Low-pressure mercury discharge lamps with a tubular 26 mm envelope

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.



Dim. no.	A		B		C		D	
	max.	min.	max.	max.	max.	max.		
1	437.4	442.1	444.5	451.6	28			
2	589.8	594.5	596.9	604.0	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	1778.0	28			

MASTER TL-D Super 80 G13

Wattage/Colour Code/Version	Colour Rendering Index (Ra)	Colour Temperature (K)		Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL, 3h (h)	Life to 50% fail Preheat EL, 3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
15W/830	85	3,000	B	1,000	17,000	20,000	1	ISL / 25 25	15830	70279140	yes
15W/840	82	4,000	B	1,000	17,000	20,000	1	ISL / 25 25	15840	70280740	yes
18W/827	85	2,700	A	1,350	17,000	20,000	2	ISL / 25 25	18827	63162640	yes
18W/830	85	3,000	A	1,350	17,000	20,000	2	ISL / 25 25	18830	63165740	yes
18W/835	85	3,500	A	1,350	17,000	20,000	2	ISL / 25 25	18835	63168840	yes
18W/840	85	4,000	A	1,350	17,000	20,000	2	ISL / 25 25	18840	63171840	yes
18W/865	85	6,500	A	1,300	17,000	20,000	2	ISL / 25 25	18865	63177040	yes
23W/840	82	4,000	A	2,050	17,000	20,000	3	ISL / 25 25	23840	55870140	yes
30W/830	85	3,000	A	2,400	17,000	20,000	4	ISL / 25 25	30830	63183140	yes
30W/840	85	4,000	A	2,400	17,000	20,000	4	ISL / 25 25	30840	63186240	yes
36W/827	85	2,700	A	3,350	17,000	20,000	5	ISL / 25 25	36827	63192340	yes
36W/830	85	3,000	A	3,350	17,000	20,000	5	ISL / 25 25	36830	63195440	yes
36W/835	85	3,500	A	3,350	17,000	20,000	5	ISL / 25 25	36835	63198540	yes
36W/840	85	4,000	A	3,350	17,000	20,000	5	ISL / 25 25	36840	63201240	yes
36W/840 - 1m	85	4,000	A	3,100	17,000	20,000	3	ISL / 25 25	M36840NG	55877040	yes
36W/865	85	6,500	A	3,250	17,000	20,000	5	ISL / 25 25	36865	63207440	yes
38W/830	85	3,000	A	3,350	17,000	20,000	6	ISL / 25 25	38830NG	55880040	yes
38W/840	85	4,000	A	3,350	17,000	20,000	6	ISL / 25 25	38840NG	55883140	yes
58W/827	85	2,700	A	5,240	17,000	20,000	7	ISL / 25 25	58827	63210440	yes
58W/835	85	3,500	A	5,240	17,000	20,000	7	ISL / 25 25	58835	63216640	yes
58W/840	85	4,000	A	5,240	17,000	20,000	7	ISL / 25 25	58840	63219740	yes
58W/865	85	6,500	A	5,000	17,000	20,000	7	ISL / 25 25	58865	63225840	yes
70W/830	85	3,000	A	6,200	17,000	20,000	8	ISL / 25 25	70830	61598540	yes
70W/835	85	3,500	A	6,200	17,000	20,000	8	ISL / 25 25	70835	64273840	yes
70W/840	85	4,000	A	6,200	17,000	20,000	8	ISL / 25 25	70840	61592340	yes

MASTER TL-D Secura



Product Description

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

Product Features

- Protective coating around the entire lamp
- Blue ring around one end

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

Product Benefits

- Special protective coating in the lamp-, prevents products from contamination in case of accidental lamp breakage
- Easy identification in audit situations by blue ring at one end
- Special fluorescent coating gives good colour rendering

- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Protects products from discolouring and loss of taste by 90% lower UV emission
- Compliant with HACCP regulations and supports HACCP certification

Environment

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

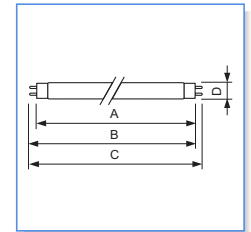
Application

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

- Suitable for use in environments where UV emission should be reduced (museums, libraries, archives, food industry, fashion shops, etc.)

Warnings and Safety

- Not suitable for closed luminaires (as indicated by two blue rings)
- Recommended use in combination with self-stopping lamp control system

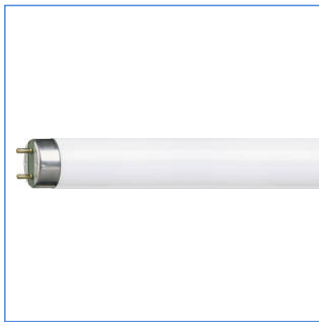


Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
1	589.8	594.5	596.9	604.0	28		
2	1500.0	1504.7	1507.1	1514.2	28		

MASTER TL-D Secura G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
18W/830	85	3,000	A	1,300	17,000	20,000	1	ISL / 25 25	18830SEC	64006240	yes
58W/840	85	4,000	A	5,000	17,000	20,000	2	ISL / 25 25	58840BSEC	64018540	yes

MASTER TL-D Reflex



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 colour rendering (CRI > 80)
- Light output comparable to other TL-D Super 80 colours
- Lumen maintenance and lifetime the same as other TL-D Super 80 colours
- Dimmable

Product Benefits

- Internal reflector directs the light where it is needed

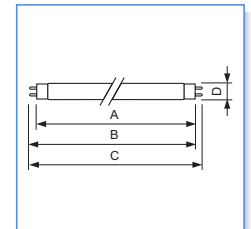
- Energy savings of 30-50% in non-reflector luminaires without loss of light
- Internal reflector is not affected by dust accumulation (in contrast to normal TL-D lamps)
- Relatively high efficacy, both initially and during lifetime, with high lumen maintenance

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

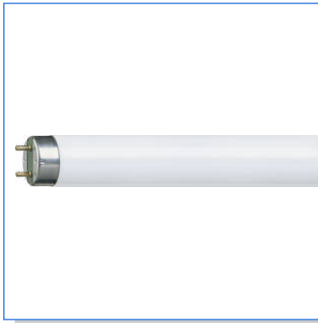


Dim. no.	A		B		C		D
	max.	min.	max.	max.	max.	max.	
1	589.8	594.5	596.9	604.0	28		
2	1199.4	1204.1	1206.5	1213.6	28		
3	1500.0	1504.7	1507.1	1514.2	28		

MASTER TL-D Reflex G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
18W/830	85	3,000	A	1,350	17,000	20,000	1	ISL / 25 25	18830R	63644740	yes
18W/840	85	4,000	A	1,350	17,000	20,000	1	ISL / 25 25	18840R	63647840	yes
18W/865	85	6,500	A	1,300	17,000	20,000	1	ISL / 25 25	18865RFECO	26029140	yes
36W/840	85	4,000	A	3,350	17,000	20,000	2	ISL / 25 25	36840R	55953140	yes
58W/840	85	4,000	A	5,240	17,000	20,000	3	ISL / 25 25	58840R	55962340	yes
58W/865	85	6,500	A	5,000	17,000	20,000	3	ISL / 25 25	58865RFECO	26033840	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

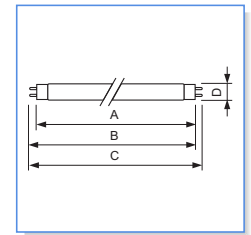
- Relatively high efficacy, both initially and during lamp lifetime, with high lumen maintenance
- Good colour rendering
- Creates atmospheres from warm white to cool daylight

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.

Warnings and Safety

- Special electronic gear must be used



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 HF Super 80 G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EL 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
16W/830	85	3,000	A	1,400	17,000	20,000	1	ISL / 25	25	16830	63144240	yes
16W/840	85	4,000	A	1,400	17,000	20,000	1	ISL / 25	25	16840	63147340	yes
32W/840	85	4,000	A	3,200	17,000	20,000	2	ISL / 25	25	32840	63153440	yes
50W/840	85	4,000	A	5,000	17,000	20,000	3	ISL / 25	25	50840	63159640	yes

MASTER TL-D Xtra



- 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

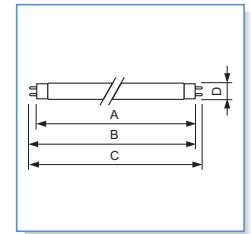
- Longer lifetime and less early failures lead to less hassle and lower maintenance costs and facilitate the change from spot to group replacement
- Less waste and disposal cost at end-of-life
- Special fluorescent coating gives good colour rendering

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



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

Product Description

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

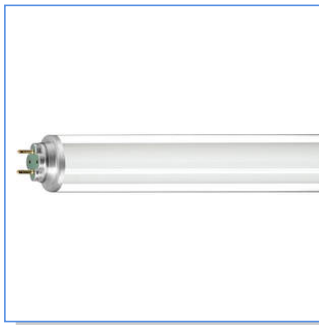
Product Features

- Significant reduction of early failures based upon a new technology (patent pending)

MASTER TL-D Xtra G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18W/830	85	3,000	A	1,350	46,500	55,000	1	ISL / 25	25	18830XTRA	54498840	yes
18W/840	85	4,000	A	1,350	46,500	55,000	1	ISL / 25	25	18840XTRA	55862640	yes
30W/830	85	3,000	A	2,400	47,000	55,000	2	ISL / 25	25	30830XTRA	89532540	yes
30W/840	85	4,000	A	2,400	47,000	55,000	2	ISL / 25	25	30840XTRA	89536340	yes
36W/830	85	3,000	A	3,350	47,000	55,000	3	ISL / 25	25	36830XTRA	55871840	yes
36W/840	85	4,000	A	3,350	47,000	55,000	3	ISL / 25	25	36840XTRA	55876340	yes
58W/830	85	3,000	A	5,200	47,000	55,000	4	ISL / 25	25	58830XTRA	55888640	yes
58W/840	85	4,000	A	5,200	47,000	55,000	4	ISL / 25	25	58840XTRA	55890940	yes
70W/840	85	4,000	A	6,150	47,000	55,000	5	ISL / 25	25	70840XTRA	89552340	yes

MASTER TL-D Xtra Polar



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

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)

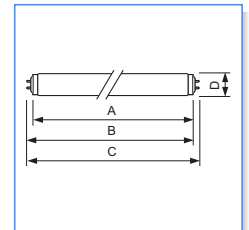
- Supports end-user sustainability programs (low mercury level and low waste due to long lifetime)
- Miniaturisation: Polar T10 version (32 mm) is suited for situations where the diameter of the Polar T12 lamp (38 mm) is too large

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



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

MASTER TL-D Xtra Polar G13

Wattage/Colour Code	Bulb	Colour Rendering Index	Colour Temperature		Luminous Flux EM 25°C, Rated	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
		(R _a)	(K)		(lm)	(h)	(h)						
18W/830	T12	85	3,000	A	1,350	47,000	55,000	1	ISL / 10	10	18830XTRAPOLAR	89303125	yes
36W/830	T12	85	3,000	A	3,350	47,000	55,000	2	ISL / 10	10	36830XTRAPOLAR	89315425	yes

MASTER TL-D Xtra Secura



- 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

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

- 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

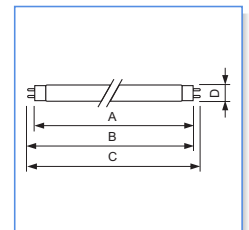
- Good environmental choice because of long reliable life (180% better than T8 standard), low waste (only 1 lamp compared to 2 T8 standard), lowest mercury content and lead-free
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

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

Warnings and Safety

- No dimming below 30% should be applied for achieving lifetimes as published for 100% operations
- The longest lifetime to be achieved with Philips HF Xtreme gear
- Recommended use in combination with self-stopping lamp control system



A	B	C	D
max.	min.	max.	max.
1500	1504.7	1507.1	1514.2
			28

MASTER TL-D Xtra Secura G13

Wattage/Colour Code	Colour Rendering Index	Colour Temperature		Luminous Flux EM 25°C, Rated	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
	(R _a)	(K)		(lm)	(h)	(h)					
58W/840	85	4,000	A	5,100	47,000	55,000	ISL / 25	25	58840XTRASEC	88991140	yes

MASTER TL-D Xtreme



- 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

Product Description

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

Product Features

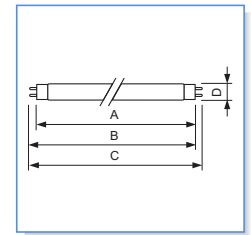
- Significant reduction of early failures based upon a new technology (patent pending)

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



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



MASTER TL-D Xtreme G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18W/840	85	4,000	A 1,350	66,000	79,000	1	ISL / 25	25	18840XTREME	54496440	yes
18W/865	85	6,500	A 1,250	66,000	79,000	1	ISL / 25	25	18865XTREME	89275140	yes
36W/840	85	4,000	A 3,250	66,000	79,000	2	ISL / 25	25	36840XTREME	55868840	yes
36W/865	85	6,500	A 3,150	66,000	79,000	2	ISL / 25	25	36865XTREME	89277540	yes
58W/840	85	4,000	A 5,150	66,000	79,000	3	ISL / 25	25	58840XTREME	55886240	yes
58W/865	85	6,500	A 5,000	66,000	79,000	3	ISL / 25	25	58865XTREME	89279940	yes

MASTER TL-D Xtreme Polar



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

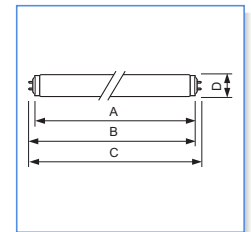
- Fully temperature-resistant in all conditions; no temperature-related relamping problems
- Supports end-user sustainability programs (low mercury level and low waste due to long lifetime)

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

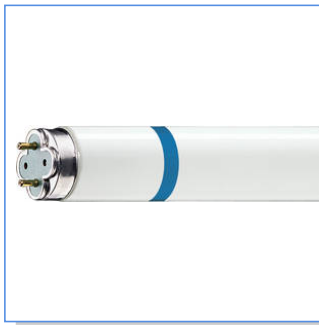


Dim. no.	A max.	B min.	B max.	C max.	D max.
1	1199.4	1204.1	1206.5	1213.6	40.5
2	1500.0	1504.7	1507.1	1514.2	40.5

MASTER TL-D Xtreme Polar G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
36W/840	85	4,000	A 3,250	66,000	79,000	1	ISL / 10	10	36840XTREMPOLAR	89311625	yes
58W/840	85	4,000	A 5,150	66,000	79,000	2	ISL / 10	10	58840XTREMPOLAR	89323925	yes

MASTER TL-D Xtreme Secura



- 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

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

- 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

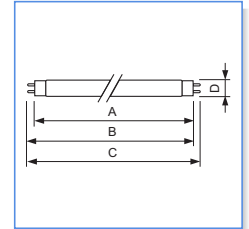
- Good environmental choice because of long reliable life (380% better than T8 standard), low waste (only 1 lamp compared to 4 T8 standard), lowest mercury content and lead-free
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

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)

Warnings and Safety

- No dimming below 30% should be applied for achieving lifetimes as published for 100% operations
- The longest lifetime to be achieved with Philips HF Xtreme gear
- Recommended use in combination with self-stopping lamp control system



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

MASTER TL-D Xtreme Secura G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...	
18W/840	85	4,000	A	1,300	66,000	79,000	1	ISL / 25 25	18840XTREMESEC	88971340	yes
36W/840	85	4,000	A	3,250	66,000	79,000	2	ISL / 25 25	36840XTREMESEC	88979940	yes

MASTER TL-D 90 De Luxe



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 I2464-1), without investing in new luminaires

Product Description

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

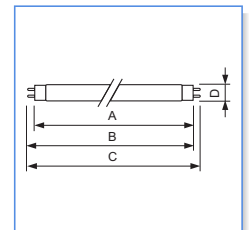
- Attractive packaging configuration
- Direct retrofit for all Standard and Super 80 TL-D lamps operating on conventional or HF gear
- Possible to create atmospheres from warm white to cool daylight

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



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

MASTER TL-D 90 De Luxe G13

Wattage/ Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)		Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...	
18W/930	91	3,000	B	1,200	17,000	20,000	1	SLV / 10 10	18930DLP	88837225	yes
18W/940	91	4,000	B	1,200	17,000	20,000	1	SLV / 10 10	18940DLP	88839625	yes
18W/950	92	5,300	B	1,150	17,000	20,000	1	SLV / 10 10	18950DLP	88843325	yes
18W/965	93	6,500	B	1,150	17,000	20,000	1	SLV / 10 10	18965DLP	88846425	yes
36W/930	91	3,000	B	2,800	17,000	20,000	2	SLV / 10 10	36930DLP	88856325	yes
36W/940	91	4,000	B	2,800	17,000	20,000	2	SLV / 10 10	36940DLP	88858725	yes
36W/950	92	5,300	B	2,800	17,000	20,000	2	SLV / 10 10	36950DLP	88860025	yes
36W/965	93	6,500	B	2,800	17,000	20,000	2	SLV / 10 10	36965DLP	88862425	yes
58W/940	91	4,000	B	4,600	17,000	20,000	3	SLV / 10 10	58940DLP	88869325	yes
58W/950	92	5,300	B	4,550	17,000	20,000	3	SLV / 10 10	58950DLP	88871625	yes
58W/965	93	6,500	B	4,550	17,000	20,000	3	SLV / 10 10	58965DLP	88873025	yes

MASTER TL-D 90 Graphica



Product Description

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

Product Features

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

Product Benefits

- Excellent colour rendering. Making representation of colours extremely realistic
- Lamp developed to answer the needs of the demanding graphical industry (consistent with the strict standards for the graphical industry defined in EN I2464)

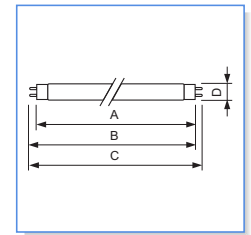
- Very accurate colour point
- Attractive packaging configuration
- Direct retrofit for all Standard and Super 80 TL-D lamps operating on conventional or electronic gear
- Choice of daylight and cool daylight colours

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.



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 90 Graphica G13

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	B	Luminous Flux EM 25°C, Rated (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
18W/950	97	5,300	B	950	17,000	20,000	1	ISL / 10 10	18950GP	88850125	yes
18W/965	98	6,500	B	930	17,000	20,000	1	ISL / 10 10	18965GP	88852525	yes
36W/950	97	5,300	B	2,340	17,000	20,000	2	ISL / 10 10	36950GP	88864825	yes
36W/965	98	6,500	B	2,100	17,000	20,000	2	ISL / 10 10	36965GP	88836525	yes
58W/950	97	5,300	B	3,670	17,000	20,000	3	ISL / 10 10	58950GP	88875425	yes
58W/965	98	6,500	B	3,350	17,000	20,000	3	ISL / 10 10	58965GP	88877825	yes

TL TL-X XL



Product Description

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

Product Features

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

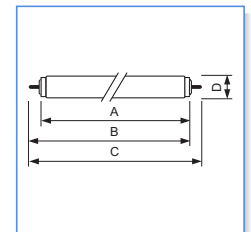
Product Benefits

- 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.	max.	max.	max.	
1	574.0	589.0	592.5	611.0	40.5		
2	1183.5	1198.5	1202.0	1220.5	40.5		
3	1484.1	1499.1	1502.6	1521.1	40.5		

TL-X - Long Life Fa6

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	B	Lamp Luminous Flux EM (lm)	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
20W/33-640	63	4,100	B	940	21,000	26,000	1	ISL / 25 25	TLX2033XL	26135940	yes
40W/33-640	63	4,100	B	2,300	21,000	26,000	2	ISL / 25 25	TLX4033XL	26137340	yes
65W/33-640	63	4,100	B	4,400	21,000	26,000	3	ISL / 25 25	TLX6533XL	26139740	yes

TL Miniature MASTER TL Mini Super 80



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

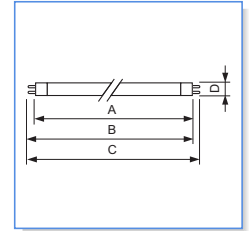
Environment

- 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 I-I-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.	C max.	D max.
1	288.3	293.0	295.4	302.5
2	516.9	521.6	524.0	531.1

Product Description

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

MASTER TL Mini Super 80 G5

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 10% fail Preheat EL, 3h (h)	Life to 50% fail Preheat EL, 3h (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 871 1500...	
8W/840	85	4,000	470	5,000	10,000	1	1FM / 10X25CC	250	884	71642227
13W/840	85	4,000	1,000	4,000	8,000	2	1FM / 10X25CC	250	1384	71685927

TL Mini Standard Colours



Product Description

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

Product Features

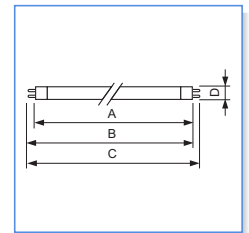
- 16 mm diameter tubes with moderate colour rendering

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
- Possibility for operation on low-voltage DC supply

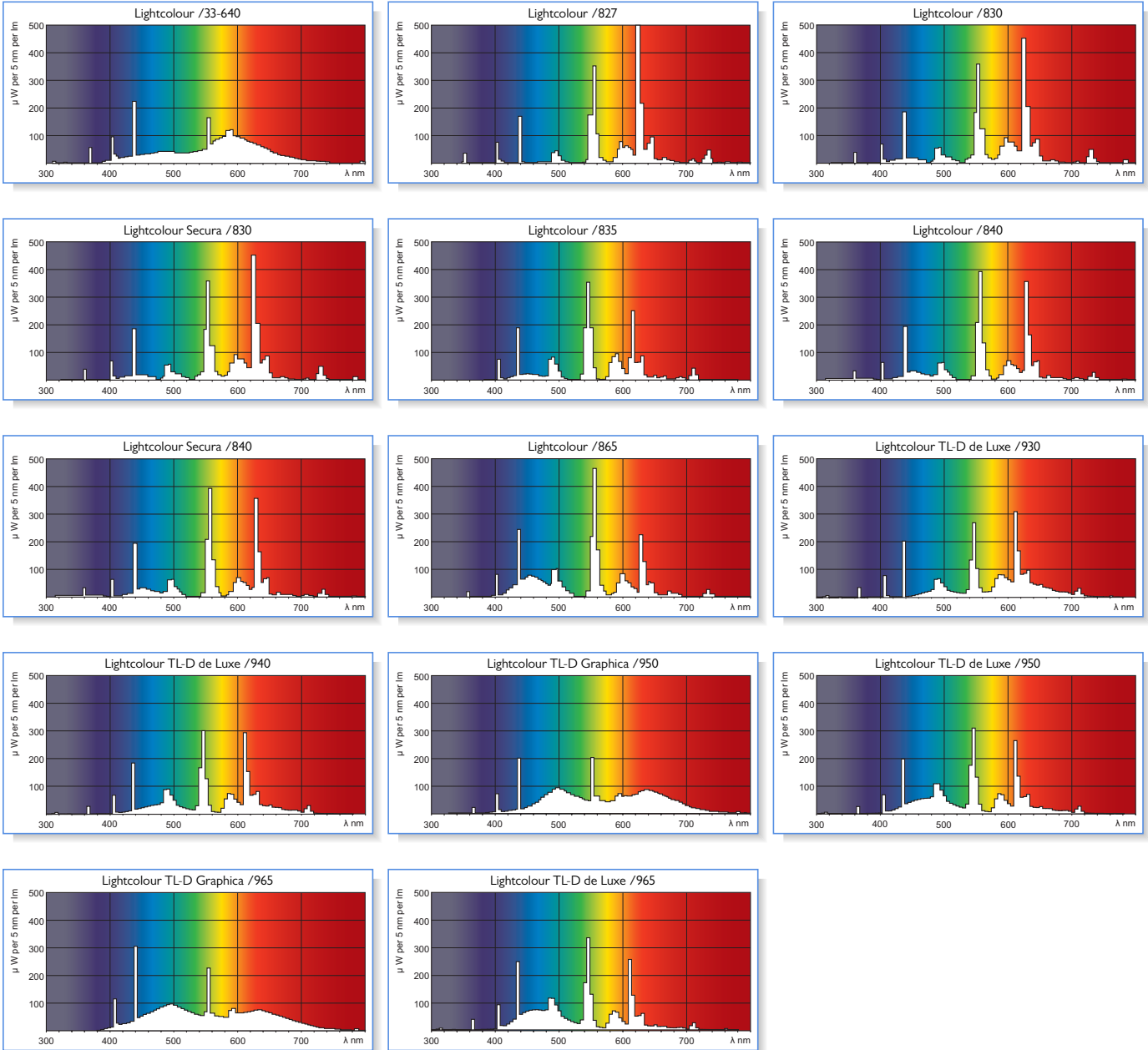


Dim. no.	A max.	B min.	C max.	D max.
1	212.1	216.8	219.2	226.3
2	288.3	293.0	295.4	302.5
3	516.9	521.6	524.0	531.1

TL Mini G5

Wattage/Colour Code	Colour Rendering Index (R _a)	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 10% fail Preheat EL, 3h (h)	Life to 50% fail Preheat EL, 3h (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 871 1500...	
6W/33-640	60	4,100	260	5,000	10,000	1	1FM / 10X25CC	250	633	71583827
8W/33-640	60	4,100	410	5,000	10,000	2	1FM / 10X25CC	250	833	70473327
13W/33-640	60	4,100	930	4,000	8,000	3	1FM / 10X25CC	250	1333	70475727

Spectral power distribution



Compact Fluorescent Integrated

Energy Saver Stick shape

MASTER PL-Electronic



- 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:

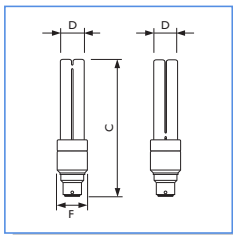
- Designed to replace incandescent lamps in most professional and semi-professional applications
- Mainly indoor (e. g. hotels, restaurants, offices)
- For outdoor applications 3 types (15, 20, 23 W) will remain available also in Amalgam with the benefit of virtually constant light output (>90%) over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

Product Description

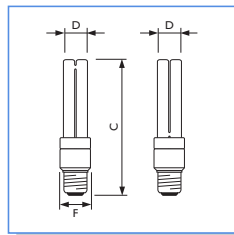
- Non-covered energy-saving MASTER lamps for professional use

Product Features

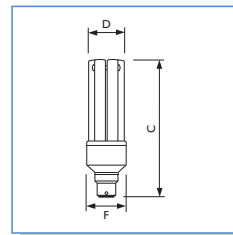
- Lightweight, superior long-life alternative to incandescent lamps



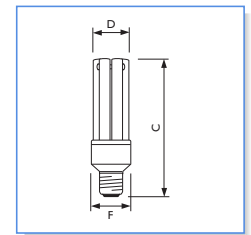
Dim. no.	C max.	D max.	E max.	F max.
1	117.4	28	40.3	40.3
2	139.4	28	40.3	40.3



Dim. no.	C max.	D max.	E max.	F max.
3	119.2	28	40.3	40.3
4	141.2	28	40.3	40.3



Dim. no.	C max.	D max.	E max.	F max.
5	124.7	39.6	48	48
6	135.7	39.6	48	48
7	150.7	39.6	48	48



Dim. no.	C max.	D max.	E max.	F max.
8	126.2	39.6	48	48
9	137.2	39.6	48	48
10	152.2	39.6	48	48
11	174.2	39.6	48	48
12	196.2	39.6	48	48

MASTER PL-Electronic 230-240V Warm white

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Energy Class	Lamp Luminous Flux (lm)	Rated Lifetime (hours)	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8711500...	
8W/827	BC	2,700	A	432	15,000	1	ICT / 10BOX	10	8BCPLE	26363625	yes
8W/827	ES	2,700	A	432	15,000	3	ICT / 10BOX	10	8ESPLE	26358225	yes
11W/827	BC	2,700	A	600	15,000	2	ICT / 10	10	11BCPLE	26375925	yes
11W/827	ES	2,700	A	600	15,000	4	ICT / 10BOX	10	11ESPLE	26368125	yes
15W/827	BC	2,700	A	875	20,000	5	ICT / 6	6	15BCPLE	75205510	yes
15W/827	ES	2,700	A	875	20,000	8	ICT / 6	6	15ESPLE	75142310	yes
20W/827	BC	2,700	A	1,200	20,000	6	ICT / 6	6	20BCPLE	75206210	yes
20W/827	ES	2,700	A	1,200	20,000	9	ICT / 6	6	20ESPLE	75143010	yes
23W/827	BC	2,700	A	1,500	20,000	7	ICT / 6	6	23BCPLE	75207910	yes
23W/827	ES	2,700	A	1,500	20,000	10	ICT / 6	6	23ESPLE	75144710	yes
27W/827	ES	2,700	A	1,800	20,000	11	ICT / 6	6	27ESPLE	54385110	yes
33W/827	ES	2,700	A	2,250	20,000	12	ICT / 6	6	33ESPLE	65999610	yes

Genie ESaver



Product Description

- Standard Non-covered energy saving lamp

Product Features

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

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

- Flawless ignition at -20°C and up.

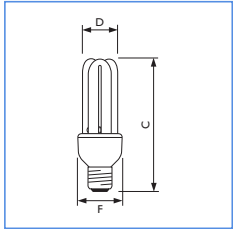
Product Benefits

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

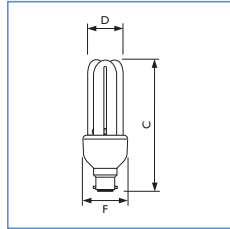
Applications:

- Designed for incandescent lamp replacement in consumer applications where the lamp is not directly visible

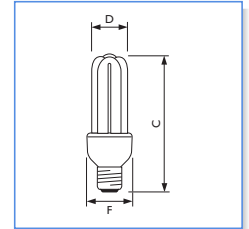
- Especially suitable for (indoor) applications in functional areas
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	F max.
1	107	35	44.4
2	117	35	44.4
3	132	35	44.4



Dim. no.	C max.	D max.	F max.
4	130.5	35	44.4



Dim. no.	C max.	D max.	F max.
5	135	41	48.4

Genie ESaver 220-240V Warm white

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Energy Star	Rated Lifetime (hours) (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Recycling
8W/827	ES	2,700	A	10,000	1	IPF / 6 6	8ESGENIE10Y	80118010	yes
11W/827	ES	2,700	A	10,000	2	IPF / 6 6	11ESGENIE10Y	80119710	yes
14W/827	ES	2,700	A	10,000	3	IPF / 6 6	14ESGENIE10Y	80120310	yes
14W/827	BC	2,700	A	10,000	4	IPF / 6 6	14BCGENIE10Y	80124110	yes
18W/827	ES	2,700	A	10,000	5	IPF / 6 6	18ESGENIE8Y	80121010	yes

GENIE



Our Europe's no 1 Energy Saver

Energy saving lamp with stick shape. This lamp gives you beautiful light with saving money.

Product Features

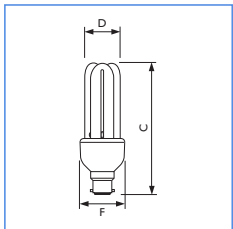
- Long lifetime
- Almost instant, flicker-free start
- Saves up by 80%
- Low mercury content

Product Benefits

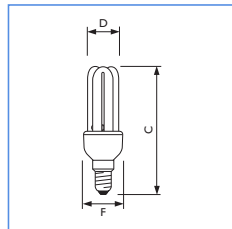
- Rapid start
- High energy efficiency

Application

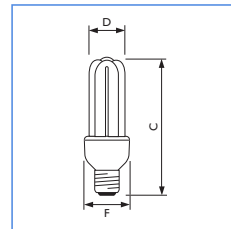
- Designed for incandescent lamp replacement in consumer applications where the lamp is not directly visible.
- Especially suitable for indoor applications in functional areas.



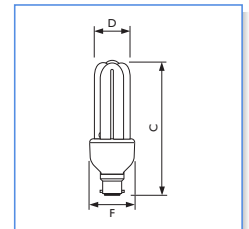
Dim. no.	C max.	D max.	F max.
1	105.5	35	44.4
2	115.5	35	44.4



Dim. no.	C max.	D max.	F max.
3	112	35	44.4



Dim. no.	C max.	D max.	F max.
4	135	41	48.4



Dim. no.	C max.	D max.	F max.
5	133.5	41	48.4

GENIE 220-240V Warm white

Wattage/Colour Code	Cap-Base	Colour Temperature (K)	Energy Star	Rated Lifetime (hours) (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871016322406010	Recycling
8W/827	BC	2,700	A	10,000	1	IPF / 6 6	8BCGENIE10Y	871016322406010	yes
8W/827	SES	2,700	A	10,000	3	IPF / 12 12	8SEGENIESRP	871150080115901	yes
11W/827	BC	2,700	A	10,000	2	IPF / 6 6	11BCGENIE10Y	871016322407710	yes
18W/827	ES	2,700	A	10,000	4	IPF / 12 12	18SEGENIESRP	871150080121000	yes
18W/827	BC	2,700	A	10,000	5	IPF / 6 6	18WBCGENIE10Y	871016322409110	yes

Energy Saver Bulb shape

MASTER PL-Electronic Polar



- 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 Description

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

Product Features

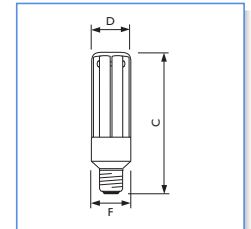
- Long-life alternative to incandescent lamps

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 to $+40$ °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



C	D	E	F
max.	max.	max.	max.
132	50.8	50.8	48

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

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux (lm)	Rated Lifetime (hours) (h)	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
15W/827	2,700	A 875	20,000	1CH / 6 6	MPLE15ESPOL	66045910	yes

MASTERAmbiance



Energy Saving for professional applications

Designed for incandescent lamp replacement in professional applications (hotels, restaurants, where you want to create an intimate and cozy atmosphere).

Product Features

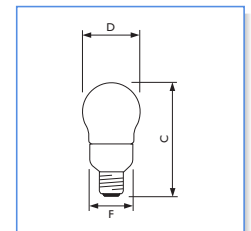
- Professional long-life energy saving alternative to incandescent lamps
- Almost instant, flicker-free start (<1 s)
- 80% of nominal light output reached two minutes after switching on
- Almost constant light output ($>90\%$) over recommended temperature range -20 to $+40$ °C

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	D	E	F
1	max. 128.1	max. 65.8	max. 65.8	max. 48.1
2	137.1	65.8	65.8	48.1

230-240V Warm white ES

Type	Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux (lm)	Rated Lifetime (hours) (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
MASTERAmbiance	12W/827	2,700	A 630	12,000	1	1CH / 6 6	12ESAMB MST	46806200	yes
MASTERAmbiance	16W/827	2,700	A 900	12,000	2	1CH / 6 6	16ESAMB MST	46810900	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.

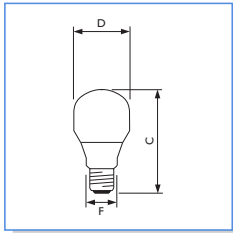
Product Benefits

- 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)

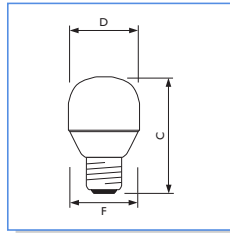
Applications:

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

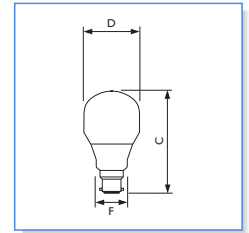
- Ideal replacement for incandescent lamps in places where lights burn for longer periods and where good light effect is important
- Especially suitable for applications where lamp replacement is difficult
- Closed fixtures are required for outdoor applications
- Not suitable for dimming and electronic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



Dim. no.	C max.	D max.	E max.	F max.
1	114	60.8	60.8	46.5
2	129	65.8	65.8	46.5



Dim. no.	C max.	D max.	E max.	F max.
3	80	45	45	44.1



Dim. no.	C max.	D max.	E max.	F max.
4	112.5	60.8	60.8	46.5

Softone ESaver 230-240V Warm white

Wattage/Colour Code	Cap-Base	Bulb	Colour Temperature (K)	Energy Class	Lamp Luminous Flux (lm)	Rated Lifetime (hours)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	Recycling symbol	
5W/827	ES	T60	2,700	A	200	10,000	1	IPH / 6	6	5ESSOFT10Y	87115006625210	yes
7W/827	ES	T45	2,700	A	310	10,000	3	IPF / 10	10	7ESLUSTRE	872790021184925	yes
12W/827	BC	T60	2,700	A	610	10,000	4	IPF / 6	6	12BCSOFT10Y	871150066261310	yes
12W/827	ES	T60	2,700	A	610	10,000	1	IPF / 6	6	12ESSOFT10Y	871150066257610	yes
16W/827	ES	T60	2,700	A	870	10,000	1	IPF / 6	6	16ESSOFT10Y	871150066258310	yes
20W/827	ES	T65	2,700	A	1,160	10,000	2	IPF / 6	6	20ESSOFT10Y	871150066259010	yes

Softone ESaver Candle



Product Description

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

Product Features

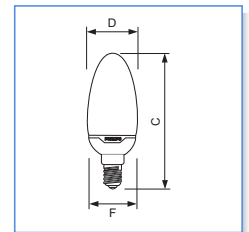
- Long average lifetime compared to a standard incandescent lamp
- Almost instant, flicker-free start (<1 s)
- Light output after 1 minute 95%
- Recommended ambient temperature range to ensure almost constant light output (>90%): between +10°C and +45°C
- Flawless ignition at -20°C and up.

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

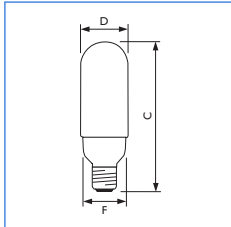


C max.	D max.	F max.
106	39.5	37.3

Softone Candle 220-240V Warm white SES

Wattage/Colour Code	Colour Temperature (K)	Energy Class	Packing type/Packing configuration	Dim. no.	National Order Code	Ordering number	Recycling symbol
8W/827	2,700	A	IPF / 12	12	8WSESCANDLE10YR	89723400	yes

SL-Electronic



Dim. no.	C max.	D max.	E max.	F max.
1	134.5	50.8	50.8	48.2
2	153.6	50.8	50.8	48.2
3	173.6	50.8	50.8	48.2

Product Description

- Covered energy-saving lamps for professional use

Product Features

- Professional long-life alternative to incandescent lamps
- Time to reach 80% of nominal light output is 2 min
- Almost constant light output (>90%) over recommended temperature range

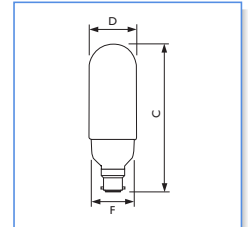
Product Benefits

- Maximum energy savings due to highest energy efficiency class (European energy efficiency labelling class A)
- Prismatic cover designed to give sparkle and reduce glare

Applications:

- Designed for incandescent lamp replacement in most professional luminaires

- Especially suitable for applications in functional areas where lighting is required for longer periods of time or where lamp replacement is difficult
- Ambient temperature range -20 to +55°C
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices



Dim. no.	C max.	D max.	E max.	F max.
4	151.9	50.8	50.8	48.2

SL-Electronic Warm white

Wattage/Colour Code	Voltage (V)	Cap-Base	Colour Temperature (K)	Energy Class	Lamp Luminous Flux (lm)	Rated Lifetime (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Recycling symbol	
12W/827	230-240	ES	2,700	A	670	12,000	1	1CH / 6	6	12ESSLE	54292200	yes
16W/827	230-240	ES	2,700	A	960	12,000	2	1CH / 6	6	16ESSLE	54296000	yes
20W/827	220-240	ES	2,700	A	1,280	12,000	2	1CH / 6	6	20ESSLE	54300400	yes
20W/827	230-240	BC	2,700	A	1,280	12,000	4	1CH / 6	6	20BCSLE	54302800	yes
23W/827	230-240	ES	2,700	A	1,450	12,000	3	1CH / 6	6	23ESSLE	54371400	yes

Energy Saver Reflectors

PL-Electronic Reflector R80



- 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

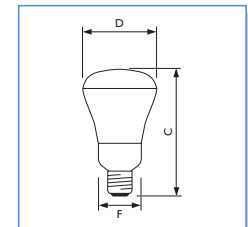
- 50% energy saving compared with standard incandescent lamps
- Direct replacement for R80 reflector lamps in numerous professional applications

- 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



C max.	D max.	E max.	F max.
143	81	81	48.1

Product Description

- Energy-saving lamp approximating the shape of an R80 incandescent reflector lamp

230-240V Warm white ES

Wattage/Colour Code	Colour Temperature (K)	Energy Class	Lamp Luminous Flux (lm)	Rated Lifetime (h)	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	Recycling symbol	
20W/827	2,700	A	750	10,000	1CT / 6	6	20ESPLERFL	65989700	yes

Compact Fluorescent Non Integrated

PL-R

MASTER PL-R Eco 4 Pin



The ultimate Saver!

MASTER PL-R Eco is an extremely efficient compact fluorescent lamp for downlight applications. It consists of six parallel tubes with a new innovative 'twist and lock' lamp base, designed for operation with electronic gear. The MASTER PL-R Eco contains the original bridge technology invented and patented by Philips. This guarantees optimum performance in the application and results in significantly higher efficacies than with regular compact fluorescent lamps. On top of that, MASTER PL-R Eco lamps offer more than double the service life of a standard compact fluorescent lamp, thanks to superior lumen maintenance. The 'twist and lock' lamp base provides easy and safe (dis-)mounting and sturdy fixation in the luminaire.

Product Features

- Twist and lock 4-pin lamp base GRI4q-I without starter and capacitor
- Maximum light output reached at approximately 35-40°C in free-burning base-up position
- Fluorescent tri-phosphor technology
- Extra long lifetime and less early failures
- Very low light depreciation over lamp life
- Service lifetime of 19,000 hours

Product Benefits

- Up to 50% less energy consumption in application versus 18 and 26 W PL-C/T on electromagnetic ballasts for comparable lighting levels
- Up to 25% less energy consumption in application versus 18 and 26 W 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
- Dimming possible down to 10%

Environment

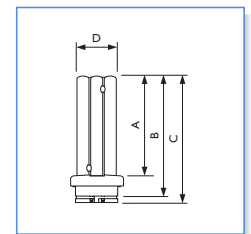
- Most sustainable compact fluorescent solution for comparable lighting solutions
- Up to 50% reduction of CO₂ emissions in application and lower light output depreciation
- Longer service life and lowest mercury content leads to less environmental waste
- Compliant with all RoHS and WEEE requirements: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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.
1	99.7	120	126.6	41
2	121.7	142	148.6	41

MASTER PL-R Eco GRI4q-I

Wattage/Colour Code	Colour Rendering Index (R _a)		Dimmable	Life to 10% fail Preheat EL ₃ h (h)	Life to 50% fail Preheat EL ₃ h (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	
14W/840	82	A	yes	19,000	24,000	1	ICT / 5X10CC 50	14PLR840ECO	26598270	yes
17W/830	82	A	yes	19,000	24,000	2	ICT / 5X10CC 50	17PLR830ECO	26601970	yes
17W/840	82	A	yes	19,000	24,000	2	ICT / 5X10CC 50	17PLR840ECO	26604070	yes

PL-S

MASTER PL-S 2 Pin



- 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

Product Description

- Energy-saving compact fluorescent lamps

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

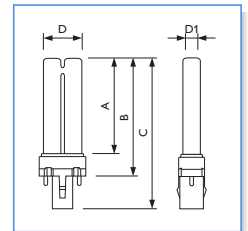
Application

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

Warnings and Safety

- Use only with electromagnetic control gear

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position
- Dimming is not possible



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	67	83	105.0	28	13
2	97	113	135.0	28	13
3	129	145	167.0	28	13
4	198	214	235.8	28	13

MASTER PL-S /2P G23

Wattage/ Colour Code	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
5W/827	82	B	259	no	6,500	10,000	1	ICT / 5X10CC	50	5PLS8272PINB	26045170	yes
7W/827	82	B	405	no	6,500	10,000	2	ICT / 5X10CC	50	7PLS8272PINB	26057470	yes
7W/840	82	B	405	no	6,500	10,000	2	ICT / 5X10CC	50	7PLS8402PINB	26065970	yes
9W/827	82	A	583	no	6,500	10,000	3	ICT / 5X10CC	50	9PLS8272PINB	26079670	yes
9W/830	82	A	583	no	6,500	10,000	3	ICT / 5X10CC	50	9PLS8302PINB	26084070	yes
9W/840	82	A	583	no	6,500	10,000	3	ICT / 5X10CC	50	9PLS8402PINB	26087170	yes
11W/827	82	A	893	no	6,500	10,000	4	ICT / 5X10CC	50	11PLS8272PINB	26101470	yes
11W/840	82	A	893	no	6,500	10,000	4	ICT / 5X10CC	50	11PLS8402PINB	26109070	yes

MASTER PL-S 4 Pin



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

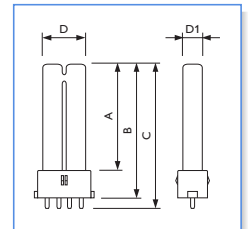
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	128	145	151.1	28	13
2	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

MASTER PL-S /4P 2G7

Wattage/ Colour Code	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
9W/840	82	A	583	yes	8,000	13,000	1	ICT / 5X10CC	50	9PLS8404PINB	26096370	yes
11W/827	82	A	880	yes	8,000	13,000	2	ICT / 5X10CC	50	11PLS8274PINB	26114470	yes
11W/840	82	A	900	yes	8,000	13,000	2	ICT / 5X10CC	50	11PLS8404PINB	26122970	yes

PL-C

MASTER PL-C 2 Pin



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

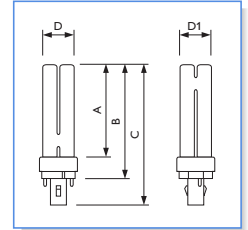
Application

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

Warnings and Safety

- Use only with electromagnetic control gear

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position
- Dimming is not possible



Dim. no.	A	B	C	D	D1
1	75.7	94	116.4	27.1	27.1
2	109.7	128	150.4	27.1	27.1
3	130.7	149	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

MASTER PL-C /2P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (R _a)		Luminous Flux EM 25°C, Rated (lm)	Dimmable	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 871 1500...	
10W/840	G24d-1	82	B	600	no	6,500	10,000	1	ICT / 5X10CC	50	10PLC8402PIN	70498670	yes
18W/827	G24d-2	82	B	1,200	no	6,500	10,000	2	ICT / 5X10CC	50	18PLC8272PIN	62088070	yes
18W/830	G24d-2	82	B	1,200	no	6,500	10,000	2	ICT / 5X10CC	50	18PLC8302PIN	62091070	yes
18W/840	G24d-2	82	B	1,200	no	6,500	10,000	2	ICT / 5X10CC	50	18PLC8402PIN	62093470	yes
26W/827	G24d-3	82	B	1,800	no	6,500	10,000	3	ICT / 5X10CC	50	26PLC8272PIN	62095870	yes
26W/830	G24d-3	82	B	1,800	no	6,500	10,000	3	ICT / 5X10CC	50	26PLC8302PIN	62098970	yes
26W/840	G24d-3	82	B	1,800	no	6,500	10,000	3	ICT / 5X10CC	50	26PLC8402PIN	62100970	yes

MASTER PL-C 4 Pin



- 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

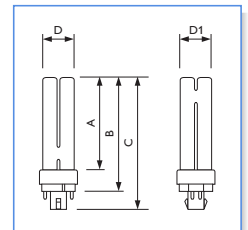
Application

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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear

- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A	B	C	D	D1
1	109.7	128	142.9	27.1	27.1
2	130.7	149	163.9	27.1	27.1

Product Description

- Energy-saving compact fluorescent lamps

MASTER PL-C /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 871 1500...	
18W/827	G24q-2	82	B	1,200	yes	8,000	13,000	1	ICT / 5X10CC	50	18PLC8274PIN	62327070	yes
18W/830	G24q-2	82	B	1,200	yes	8,000	13,000	1	ICT / 5X10CC	50	18PLC8304PIN	62333170	yes
18W/840	G24q-2	82	B	1,200	yes	8,000	13,000	1	ICT / 5X10CC	50	18PLC8404PIN	62334870	yes
26W/827	G24q-3	82	B	1,800	yes	8,000	13,000	2	ICT / 5X10CC	50	26PLC8274PIN	62328770	yes
26W/830	G24q-3	82	B	1,800	yes	8,000	13,000	2	ICT / 5X10CC	50	26PLC8304PIN	62335570	yes
26W/835	G24q-3	82	B	1,800	yes	8,000	13,000	2	ICT / 5X10CC	50	26PLC8354PIN	86653070	yes
26W/840	G24q-3	82	B	1,800	yes	8,000	13,000	2	ICT / 5X10CC	50	26PLC8404PIN	62336270	yes

MASTER PL-C Xtra 2 Pin



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

Product Description

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

- 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

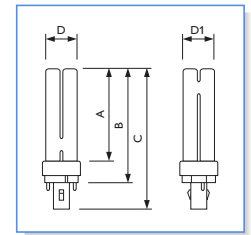
Application

- 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

Warnings and Safety

- Use only with electromagnetic control gear

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position
- Dimming is not possible



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	109.7	128	150.4	27.1	27.1
2	130.7	149	171.4	27.1	27.1

MASTER PL-C Xtra /2P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	EM Mark	Luminous Flux EM 25°C, Rated (lm)	Dimmable	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18W/830	G24d-2	82	B	1,200	no	12,000	16,000	1	ICT / 5X10CC	50	18PLC8302PXTRA	89895170	yes
18W/840	G24d-2	82	B	1,200	no	12,000	16,000	1	ICT / 5X10CC	50	18PLC8402PXTRA	95030770	yes
26W/840	G24d-3	82	B	1,800	no	12,000	16,000	2	ICT / 5X10CC	50	26PLC8402PXTRA	89886970	yes

MASTER PL-C Xtra 4 Pin



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

Product Description

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

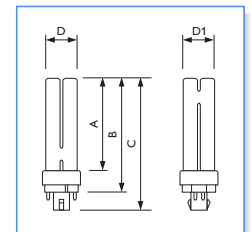
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



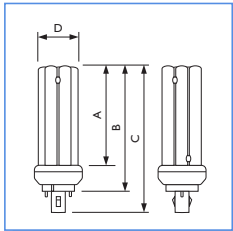
Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	109.7	128	142.9	27.1	27.1
2	130.7	149	163.9	27.1	27.1

MASTER PL-C Xtra /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	EM Mark	Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL, 3h (h)	Life to 50% fail Preheat EL, 3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18W/840	G24q-2	82	B	1,200	yes	20,000	33,000	1	ICT / 5X10CC	50	18PLC8404PXTRA	95036970	yes
26W/830	G24q-3	82	B	1,800	yes	20,000	33,000	2	ICT / 5X10CC	50	26PLC8304PXTRA	89889070	yes
26W/840	G24q-3	82	B	1,800	yes	20,000	33,000	2	ICT / 5X10CC	50	26PLC8404PXTRA	89892070	yes

PL-T

MASTER PL-T 2 Pin



Dim. no.	A max.	B max.	C max.	D max.
1	71.8	96	119.2	41

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

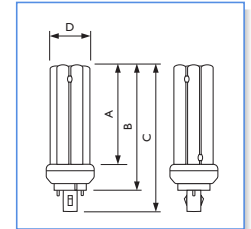
Application

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

Warnings and Safety

- Use only with electromagnetic control gear

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position
- Dimming is not possible



Dim. no.	A max.	B max.	C max.	D max.
2	86.7	111	134.2	41

MASTER PL-T / 2P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (R _a)	Energy Class	Luminous Flux EM 25°C, Rated (lm)	Dimmable	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18W/840	GX24d-2	82	B	1,200	no	6,500	10,000	1	ICT / 5X10CC	50	18PLT8402PINCS	61061470	yes
26W/830	GX24d-3	82	B	1,725	no	6,500	10,000	2	ICT / 5X10CC	50	26PLT8302PINCS	61102470	yes
26W/840	GX24d-3	82	B	1,725	no	6,500	10,000	2	ICT / 5X10CC	50	26PLT8402PINCS	61113070	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

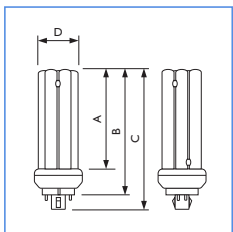
Application

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

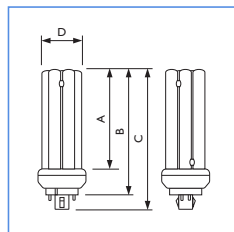
- Ideal for use in recessed or surface mounted downlighters, wall units, outdoor lighting
- First choice for short switching cycles, emergency lighting and deep dimming

Warnings and Safety

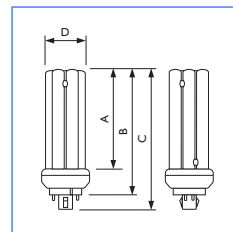
- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



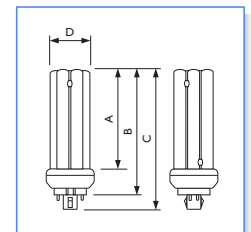
Dim. no.	A max.	B max.	C max.	D max.
1	66.7	91	106.7	41
2	157.7	182	197.7	41



Dim. no.	A max.	B max.	C max.	D max.
3	71.7	96	111.7	41



Dim. no.	A max.	B max.	C max.	D max.
4	86.7	111	126.7	41
5	98.7	123	138.7	41






Dim. no.	A max.	B max.	C max.	D max.
6	120.7	145	160.7	41

MASTER PL-T / 4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (R _a)	Energy Class	Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL _{3h} (h)	Life to 50% fail Preheat EL _{3h} (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
13W/840	GX24q-1	82	A	850	yes	8,000	13,000	1	ICT / 5X10CC	50	13PLT8404PINCS	61047870	yes
18W/830	GX24q-2	82	B	1,200	yes	8,000	13,000	3	ICT / 5X10CC	50	18PLT8304PINCS	61076870	yes

More data see next page

MASTER PL-T /4P (continued)

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 87 11 500...	
18W/840	GX24q-2	82	B	1,200	yes	8,000	13,000	3	ICT / 5X10CC	50	18PLT8404PINCS	61099770	yes
26W/827	GX24q-3	82	B	1,725	yes	8,000	13,000	4	ICT / 5X10CC	50	26PLT8274PINCS	55993770	yes
26W/830	GX24q-3	83	B	1,725	yes	8,000	13,000	4	ICT / 5X10CC	50	26PLT8304PINCS	61120870	yes
26W/840	GX24q-3	82	B	1,725	yes	8,000	13,000	4	ICT / 5X10CC	50	26PLT8404PINCS	61125370	yes
32W/827	GX24q-3	82	B	2,400	yes	8,000	13,000	5	ICT / 5X10CC	50	32PLT8274PINCS	55996870	yes
32W/830	GX24q-3	82	B	2,400	yes	8,000	13,000	5	ICT / 5X10CC	50	32PLT8304PINCS	61128470	yes
32W/840	GX24q-3	82	B	2,400	yes	8,000	13,000	5	ICT / 5X10CC	50	32PLT8404PINCS	61131470	yes
42W/830	GX24q-4	82	B	3,050	yes	8,000	13,000	6	ICT / 5X10CC	50	42PLT8304PINCS	61134570	yes
42W/840	GX24q-4	82	B	3,050	yes	8,000	13,000	6	ICT / 5X10CC	50	42PLT8404PINCS	61137670	yes
57W/830	GX24q-5	82	B	4,200	yes	8,000	13,000	2	ICT / 5X10CC	50	57PLT8304PINCS	61140670	yes
57W/840	GX24q-5	82	B	4,200	yes	8,000	13,000	2	ICT / 5X10CC	50	57PLT8404PINCS	61145170	yes

MASTER PL-T TOP 4 Pin



Product Description

- Energy saving compact fluorescent lamp

- Compact long-arc low-pressure mercury discharge lamp
- Envelope consists of 6 parallel narrow fluorescent tubes
- Amalgam controlled operation

Product Features

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

Product Benefits

- Optimal lighting performance for long periods of continuous operation

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

Environment

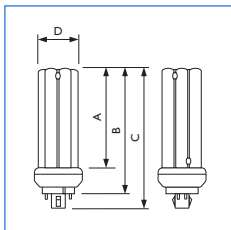
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame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

Application

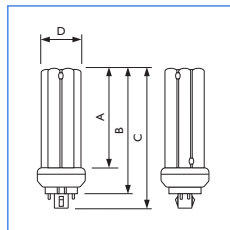
- Designed for general or supplementary lighting in professional and semi-professional environments
- Ideal for use in recessed or surface mounted downlighters, wall units
- First choice for long switching cycles and highest light output

Warnings and Safety

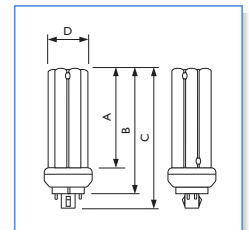
- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.
1	86.7	111	126.7	41






Dim. no.	A max.	B max.	C max.	D max.
2	120.7	145	160.7	41



Dim. no.	A max.	B max.	C max.	D max.
3	157.7	182	197.7	41

MASTER PL-T TOP /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 87 11 500...	
26W/830	GX24q-3	82	B	1,725	yes	8,000	13,000	1	ICT / 5X10CC	50	26PLT8304PINTOP	88944770	yes
26W/840	GX24q-3	82	B	1,725	yes	8,000	13,000	1	ICT / 5X10CC	50	26PLT8404PINTOP	88947870	yes
42W/830	GX24q-4	82	B	3,050	yes	8,000	13,000	2	ICT / 5X10CC	50	42PLT8304PINTOP	61004170	yes
42W/840	GX24q-4	82	B	3,050	yes	8,000	13,000	2	ICT / 5X10CC	50	42PLT8404PINTOP	61008970	yes
57W/830	GX24q-5	82	B	3,900	yes	8,000	13,000	3	ICT / 5X10CC	50	57PLT8304PINTOP	61022570	yes
57W/840	GX24q-5	82	B	3,900	yes	8,000	13,000	3	ICT / 5X10CC	50	57PLT8404PINTOP	61034870	yes

MASTER PL-T Xtra 4 Pin



Product Description

- Energy saving compact fluorescent lamp

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

Product Features

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

Product Benefits

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

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

Environment

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

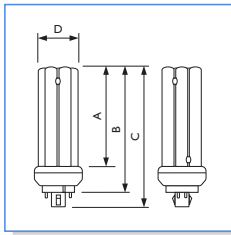
Application

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

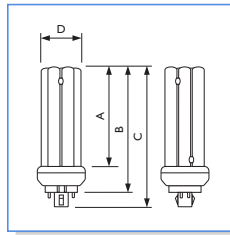
- Ideal for use in recessed or surface mounted downlighters, wall units, outdoor lighting
- Suitable for use in applications where maintenance costs are high (high ceilings, difficult to reach): department stores, supermarkets, warehouses, production halls and public areas

Warnings and Safety

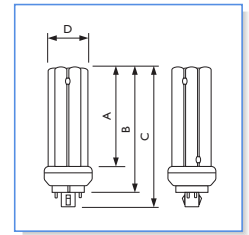
- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.
1	98.7	123	138.7	41



Dim. no.	A max.	B max.	C max.	D max.
2	120.7	145	160.7	41



Dim. no.	A max.	B max.	C max.	D max.
3	157.7	182	197.7	41

MASTER PL-T Xtra /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...		
32W/830	GX24q-3	82	B	2,400	yes	20,000	33,000	1	1CT / 5X10CC	50	32PLT8304PXTRA	89740470	yes
32W/840	GX24q-3	82	B	2,400	yes	20,000	33,000	1	1CT / 5X10CC	50	32PLT8404PXTRA	89743570	yes
42W/830	GX24q-4	82	B	3,050	yes	20,000	33,000	2	1CT / 5X10CC	50	42PLT8304PXTRA	89746670	yes
42W/840	GX24q-4	82	B	3,050	yes	20,000	33,000	2	1CT / 5X10CC	50	42PLT8404PXTRA	89749770	yes
57W/840	GX24q-5	82	B	4,200	yes	20,000	33,000	3	1CT / 5X10CC	50	57PLT8404PXTRA	89755870	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
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content

Environment

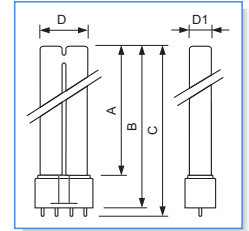
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

Application

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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	194.2	220	226.6	39	18
2	289.2	315	321.6	39	18
3	384.2	410	416.6	39	18
4	509.2	535	541.6	39	18
5	539.2	565	571.6	39	18

MASTER PL-L /4P 2GII

Wattage/ Colour Code	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18W/830	82	B	1,200	yes	14,000	20,000	1	ICT / 25	25	18PLL830	70668340	yes
18W/835	82	B	1,200	yes	14,000	20,000	1	ICT / 25	25	18PLL835	64328540	yes
18W/840	82	B	1,200	yes	14,000	20,000	1	ICT / 25	25	18PLL840	70669040	yes
24W/830	82	B	1,800	yes	14,000	20,000	2	ICT / 25	25	24PLL830	70671340	yes
24W/840	82	B	1,800	yes	14,000	20,000	2	ICT / 25	25	24PLL840	70672040	yes
36W/830	82	A	2,900	yes	14,000	20,000	3	ICT / 25	25	36PLL830	70674440	yes
36W/840	82	A	2,900	yes	14,000	20,000	3	ICT / 25	25	36PLL840	70675140	yes
36W/865	80	A	2,880	yes	14,000	20,000	3	ICT / 25	25	36PLL865	63520440	yes
40W/830	82	A	3,500	yes	14,000	20,000	4	ICT / 25	25	40PLL830	61094240	yes
40W/835	82	A	3,500	yes	14,000	20,000	4	ICT / 25	25	40PLL835	63865640	yes
40W/840	82	A	3,500	yes	14,000	20,000	4	ICT / 25	25	40PLL840	61097340	yes
55W/830	82	A	4,800	yes	14,000	20,000	4	ICT / 25	25	55PLL830	61541140	yes
55W/835	82	A	4,800	yes	14,000	20,000	4	ICT / 25	25	55PLL835	63665240	yes
55W/840	82	A	4,800	yes	14,000	20,000	4	ICT / 25	25	55PLL840	61542840	yes
55W/865	80	A	4,800	yes	14,000	20,000	4	ICT / 25	25	55PLL865	26170040	yes
80W/830	82	B	6,000	yes	14,000	20,000	5	ICT / 25	25	80PLL830	86708740	yes
80W/840	82	B	6,000	yes	14,000	20,000	5	ICT / 25	25	80PLL840	86712440	yes

MASTER PL-L Polar 4 Pin



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 16,000 hours
- Environmental impact minimised by long lifetime and low hazardous materials content
- Dimming is possible

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

Environment

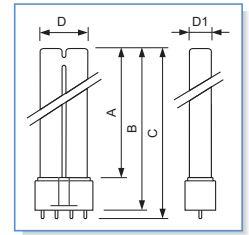
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame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

Application

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




Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	385	410	416.6	39	18
2	510	535	541.6	39	18

MASTER PL-L Polar /4P 2GII

Wattage/ Colour Code	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration 	National Order Code	Ordering number 871 1500...	
36W/830	82	A	2,900	yes	14,000	20,000	1	ICT / 25 25	36PLL830POLAR	26158840	yes
36W/840	82	A	2,900	yes	14,000	20,000	1	ICT / 25 25	36PLL840POLAR	26160140	yes
55W/840	82	A	4,800	yes	14,000	20,000	2	ICT / 25 25	55PLL840POLAR	26164940	yes

MASTER PL-L Xtra 4 Pin



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

Product Description

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

Environment

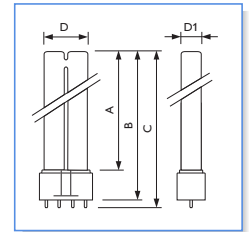
- Good environmental choice because of long reliable life, high-energy efficiency and lowest mercury content
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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




Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	384.2	410	416.6	39	18
2	509.2	535	541.6	39	18

MASTER PL-L Xtra /4P 2GII

Wattage/ Colour Code	Colour Rendering Index (R _a)		Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration 	National Order Code	Ordering number 871 1500...	
36W/830	82	A	2,900	yes	25,000	36,000	1	ICT / 25 25	36PLL830XTRA	89758940	yes
36W/840	82	A	2,900	yes	25,000	36,000	1	ICT / 25 25	36PLL840XTRA	89760240	yes
55W/830	82	A	4,800	yes	25,000	36,000	2	ICT / 25 25	55PLL830XTRA	89762640	yes
55W/840	82	A	4,800	yes	25,000	36,000	2	ICT / 25 25	55PLL840XTRA	89764040	yes

MASTER PL-L Xtra Polar 4 Pin



Optimized for lower temperatures and extra long life!

MASTER PL-L Xtra Polar is a medium to high-wattage linear compact fluorescent lamp, typically used for lower-temperature applications such as outdoor lighting and cold storage. MASTER PL-L Xtra Polar lamps furthermore provide significantly lower operating costs thanks to their lifetime, which is more than double that of a standard MASTER PL-L lamp, and their very low early failure rate. The original Philips-invented bridge technology guarantees optimum performance in the application, enabling more light and higher efficacy than the bended technology. It is designed for operation on electromagnetic as well as HF electronic gear and is provided with a plug-in/pull-out lamp base.

Product Features

- 4-pin base
- Fluorescent tri-phosphor technology
- Extra long lifetime and less early failures
- Low light depreciation over lamp life

Product Benefits

- Less hassle and lower maintenance costs and facilitating the change from spot to group replacement
- Optimal light performance for short or long operation per switch-on for lower temperature applications
- Multiple light colour choice
- Good colour rendering (CRI > 80)
- Dimming possible down to 30%

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

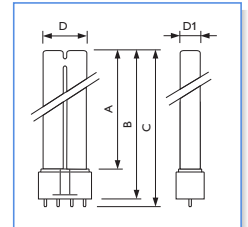
Application

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

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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



Dim. no.	A max.	B max.	C max.	D max.	D1 max.
1	290.0	315	321.6	39	18
2	384.2	410	416.6	39	18
3	509.2	535	541.6	39	18

MASTER PL-L Xtra Polar /4P 2GII

Wattage/Colour Code	Colour Rendering Index (R _a)	Energy Class	Luminous Flux EL 25°C, Rated (lm)	Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	RoHS
24W/830	82	B	1,800	yes	25,000	36,000	1	ICT / 25 25	24PLL830XTRAPOL	26772640	yes
36W/830	82	A	2,900	yes	25,000	36,000	2	ICT / 25 25	36PLL830XTRAPOL	26776440	yes
55W/830	82	A	4,800	yes	25,000	36,000	3	ICT / 25 25	55PLL830XTRAPOL	26784940	yes

PL-Q

PL-Q 2 Pin



Product Features

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

Product Benefits

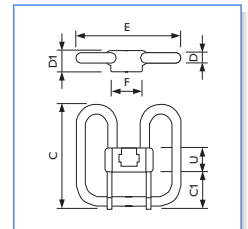
- High light quality and optimum lumen output provide increased value for money
- Energy-saving light with good colour rendering
- Long service lifetime
- The Philips Lighting stamp of quality

Application

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

Warnings and Safety

- Use only with electromagnetic control gear
- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position
- Dimming is not possible



C max.	CI max.	D max.	DI max.	E max.	F max.	U max.
141	51	15	27.5	138	41	40

Product Description

- Compact fluorescent lamps with a quadrant-like shape

PL-Q /2P GR8

Wattage/Colour Code	Colour Rendering Index (R _a)	Energy Class	Luminous Flux EM 25°C, Rated (lm)	Dimmable	Life to 10% failures EM (h)	Life to 50% failures EM (h)	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	RoHS
16W/827	82	B	1,050	no	6,000	10,000	ICT / 10 10	16PLQ8272PIN	26965225	yes
16W/830	82	B	1,050	no	6,000	10,000	ICT / 10 10	16PLQ8302PIN	26987425	yes
16W/835	82	B	1,050	no	6,000	10,000	ICT / 10 10	16PLQ8352PIN	26966925	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

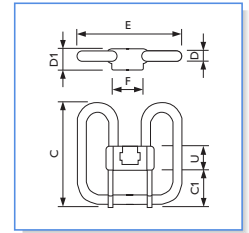
Application

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

Warnings and Safety

- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied HF control gear

- Shorter lamp life when often switching and not well pre-heated electrodes

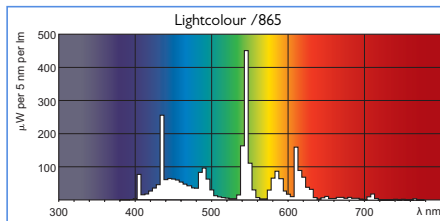
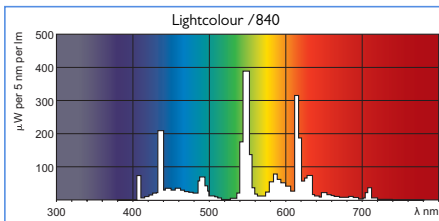
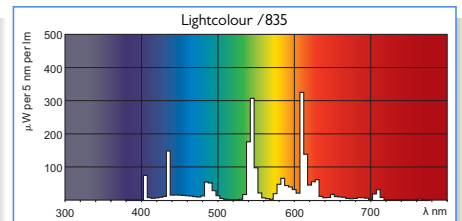
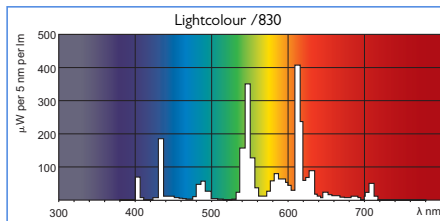
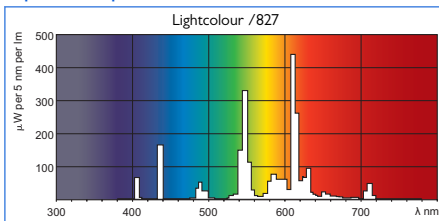


Dim. no.	C max.	CI max.	D max.	DI max.	E max.	F max.	U max.
1	141	51	15	27.5	138	41	40
2	207	77	24	33.0	205	41	49

PL-Q /4P GR10q

Wattage/Colour Code	Colour Rendering Index (R _a)		Dimmable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
16W/835	82	B	yes	8,000	13,000	1	ICT / 10	10	16PLQ8354PIN	27206525	yes
28W/827	82	B	yes	8,000	13,000	2	ICT / 10	10	28PLQ8274PIN	26991125	yes
28W/830	82	B	yes	8,000	13,000	2	ICT / 10	10	28PLQ8304PIN	26992825	yes
28W/835	82	B	yes	8,000	13,000	2	ICT / 10	10	28PLQ8354PIN	26967625	yes
28W/840	82	B	yes	8,000	13,000	2	ICT / 10	10	28PLQ8404PIN	26993525	yes
38W/830	82	B	yes	8,000	12,000	2	ICT / 10	10	38PLQ8304PIN	27172325	yes
38W/835	82	B	yes	8,000	13,000	2	ICT / 10	10	38PLQ8354PIN	27173025	yes
38W/840	82	B	yes	8,000	13,000	2	ICT / 10	10	38PLQ8404PIN	27174725	yes

Spectral power distribution



Compact High Intensity Discharge

MASTERCcolour CDM

MASTERCcolour CDM-T Elite



Product Description

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

Product Features

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

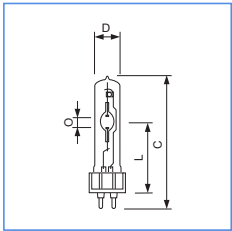
Product Benefits

- Outstanding rendering of displayed merchandise due to high colour rendering ($R_a = 90$) in combination with high lumen output; best offer in the market for 'enhancing merchandize'

- Excellent colour 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

Decorative outdoor floodlighting Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



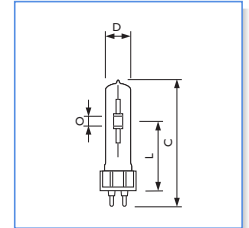
Dim. no.	A max.	C max.	D max.	L nom.	O nom.
1	90	103	20	56	4.80
2	90	103	20	56	6.00
3	90	103	20	56	7.15
4	96	110	20	56	8.50

Environment

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

Application

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



Dim. no.	C max.	D max.	L nom.	O nom.
5	110	20	56	9

MASTERCcolour CDM-T Elite G12

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	
35W/930	3,000	4,000	10,000	15,000	any	1	ICT / 12	12	35CDMTELITE930	872790091137400	yes
35W/942	4,200	3,800	10,000	15,000	any	1	ICT / 12	12	35CDMTELITE942	871829116364000	yes
50W/930	3,000	5,400	10,000	15,000	any	2	ICT / 12	12	50CDMTELITE930	872790093060300	yes
50W/942	4,200	5,000	10,000	15,000	any	2	ICT / 12	12	50CDMTELITE942	871829120159500	yes
70W/930	3,000	7,750	10,000	15,000	any	3	ICT / 12	12	70CDMTELITE930	872790091141100	yes
70W/942	4,200	7,500	10,000	15,000	any	3	ICT / 12	12	70CDMTELITE942	871829116362600	yes
100W/930	3,000	11,000	10,000	15,000	any	4	ICT / 12	12	100CDMTELITE930	872790087169200	yes
100W/942	4,200	10,500	10,000	15,000	any	4	ICT / 12	12	100CDMTELITE942	871829123178300	yes
150W/930	3,000	15,000	10,000	12,000	p10	5	ICT / 12	12	150CDMTELITE930	871150021312915	yes

MASTERCcolour CDM-T



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

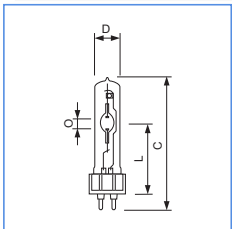
Application

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

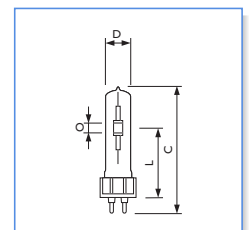
Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Lamps may use electronic or electromagnetic control gear, except 35 W/942 and 20 W lamps, which must use electronic control gear.



Dim. no.	A max.	C max.	D max.	L nom.	O nom.
1	92	103	20	56	4





Dim. no.	A max.	C max.	D max.	L nom.	O nom.
2	90	103	20	56.0	5.0
3	90	103	20	56.0	7.0
4	90	103	20	56.0	6.0
5	96	110	20	56.0	9.0
6	96	110	20	56.0	8.0
7	122	135	25	72.5	12.3

MASTERCcolour CDM-T G12

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Lamp Luminous Flux EM (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	
20W/830	3,000	1,800		10,000	15,000	any	1	ICT / 12	12	20CDMT830+	872790087156200	yes

More data see next page

MASTERColour CDM-T G12 (continued)

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Lamp Luminous Flux EM (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	
35W/830	3,000	3,150	3,150	9,000	12,000	any	2	ICT / 12	12	35CDMT830	8711500196972/5	yes
35W/842	4,200	3,300	3,300	9,000	12,000	any	2	ICT / 12	12	35CDMT942	8711500211262/5	yes
70W/830	3,000	6,600	6,600	10,000	12,000	any	3	ICT / 12	12	70CDMT830	8711500196996/5	yes
70W/942	4,200	6,600	6,600	10,000	12,000	any	4	ICT / 12	12	70CDMT942	8711500199270/5	yes
150W/830	3,000	14,000	14,000	10,000	12,000	any	5	ICT / 12	12	150CDMT830	8711500197801/5	yes
150W/942	4,200	12,700	12,700	10,000	12,000	any	6	ICT / 12	12	150CDMT942	8711500200051/5	yes
250W/830	3,000		27,540	4,500	8,000	any	7	ICT / 12	12	250CDMT830	8711500208019/5	yes
250W/942	4,200		26,000	4,500	8,000	any	7	ICT / 12	12	250CDMT942	8711500211125/5	yes

MASTERColour CDM-TC Elite



Product Description

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

Product Features

- Crisp white light
- Excellent colour rendering ($R_a = 90$)
- Reliable lifetime performance

- Stable colour performance during lifetime
- Increased light output compared with regular MASTERColour lamps
- Improved maintenance compared with regular MASTERColour lamps
- Burning position for
 - CDM Elite-TC 35 W: vertical +/- 60 degrees
 - CDM Elite-TC 70 W: universal

Product Benefits

- Outstanding rendering of displayed merchandise due to high colour rendering ($R_a = 90$) in combination with high lumen output; best offer in the market for 'enhancing merchandize'
- Excellent colour 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

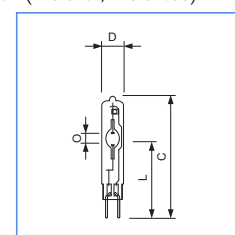
- Good environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

Application

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



Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)

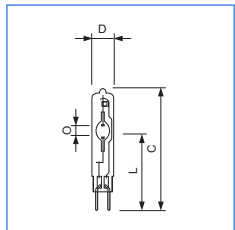


Dim. no.	C max.	D max.	L nom.	O nom.
1	85	15	52	4.80
2	85	15	52	6.00
3	85	15	52	7.15

MASTERColour CDM-TC Elite G8.5

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number	
35W/930	3,000	4,000	10,000	15,000	any	1	ICT / 12	12	35CDMTCELITE930	872790091149700	yes
35W/942	4,200	3,700	10,000	15,000	any	1	ICT / 12	12	35CDMTCELITE942	871829116366400	yes
50W/930	3,000	5,400	10,000	15,000	any	2	ICT / 12	12	50CDMTCELITE930	872790093062700	yes
50W/942	4,200	5,000	10,000	15,000	any	2	ICT / 12	12	50CDMTCELITE942	871829120163200	yes
70W/930	3,000	7,650	10,000	15,000	any	3	ICT / 12	12	70CDMTCELITE930	872790091153400	yes
70W/942	4,200	7,400	10,000	15,000	any	3	ICT / 12	12	70CDMTCELITE942	871829116368800	yes

MASTERColour CDM-TC



Dim. no.	C max.	D max.	L min.	O nom.
1	85	15	51	4

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

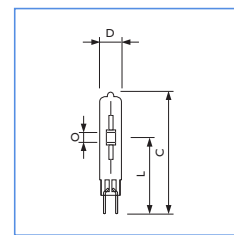
Application

- Sparkling effect, ideal for accent lighting
- General and decorative lighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Use only with electronic control gear. 35 W/830 lamps may also use electromagnetic gear.



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

MASTERColour CDM-TC G8.5

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Lamp Luminous Flux EM (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number		
20W/830	2,980	1,800		10,000	15,000	any	1	ICT / 12	12	20CDMTC830+	872790087158600	yes
35W/830	3,000	3,100	3,000	8,000	12,000	any	2	ICT / 12	12	35CDMTC830	871150020000615	yes
35W/842	4,200	3,000		8,000	12,000	any	2	ICT / 12	12	35CDMTC942	871150020957315	yes
70W/830	3,000	6,500		8,000	12,000	any	3	ICT / 12	12	70CDMTC830	871150020167615	yes
70W/842	4,200	5,900		8,000	12,000	any	2	ICT / 12	12	70CDMTC942	871150021275715	yes

MASTERColour CDM-T Elite Light Boost



Perfect sparkle, adjustable energy

Single-ended, very high-efficiency, long-life Ceramic Metal Halide discharge lamp producing crisp white sparkling light with high colour rendering; enables adjustable light levels

Product Features

- Crisp white sparkling light
- Excellent colour rendering, with extra red
- High efficacy with unparalleled lumen maintenance
- Adjustable light level
- Stable colour performance over lifetime

Product Benefits

- High-intensity beam of crisp white sparkling light makes merchandise look irresistible

- Stable colour and lumen output over life keeps your store attractive season after season
- Adjustable light levels enable energy savings and attract attention

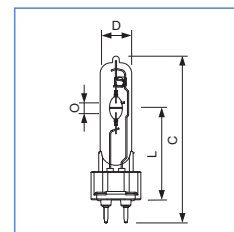
Application

- Accent and display lighting in retail; ideal for use in places where "fun factor" is needed to attract shoppers' attention: shop windows, high-impact shop areas
- General and decorative indoor lighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	A max.	C max.	D max.	L nom.	O nom.
1	90	103	20	56	6
2	90	103	20	56	5

MASTERColour CDM-T Elite Light Boost G12

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number		
70W/930	3,000	7,650	9,000	15,000	any	1	ICT / 12	12	70CDMTDIM930	93888300	yes
70W/942	4,200	6,500	8,000	15,000	any	2	ICT / 12	12	70CDMTDIM942	93890600	yes

MASTERColour CDM-TC Elite Light Boost



Perfect sparkle, adjustable energy
Compact, single-ended, very high-efficiency, long-life Ceramic Metal Halide discharge lamp producing crisp white sparkling light with high colour rendering; enables adjustable light levels

Product Features

- Crisp white sparkling light
- Excellent colour rendering, with extra red
- High efficacy with unparalleled lumen maintenance
- Adjustable light level
- Stable colour performance over lifetime

Product Benefits

- High-intensity beam of crisp white sparkling light makes merchandise look irresistible

- Stable colour and lumen output over life keeps your store attractive season after season
- Adjustable light levels enable energy savings and attract attention

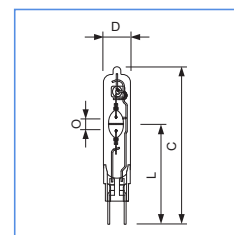
Application

- Accent and display lighting in retail; ideal for use in places where "fun factor" is needed to attract shoppers' attention: shop windows, high-impact shop areas
- General and decorative indoor lighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	C max.	D max.	L nom.	O nom.
1	85	15	52	6
2	85	15	52	5

MASTERColour CDM-TC Elite Light Boost G8.5

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	
70W/930	3,000	7,650	9,000	15,000	any	1	ICT / 12 12	70CDMTCDIM930	93892000	yes
70W/942	4,200	6,500	8,000	15,000	any	2	ICT / 12 12	70CDMTCDIM942	93894400	yes

MASTERColour CDM-T Fresh



Incredible colours, unbeatable efficiency

Single-ended, high-efficiency Ceramic Metal Halide discharge lamp with special colour enhancement properties

Product Features

- Excellent colour enhancement (red, green, orange, blue)
- Highest efficacy in fresh food lighting
- Long life with stable colour
- Standard CDM shapes and sizes
- Can be operated on standard CDM gear

Product Benefit

- Makes fresh food (meat, fish, fruit, vegetables) look incredibly beautiful with full colours
- Makes coloured packaging material look vibrant
- Saves 30-50% energy compared to normal SDW!

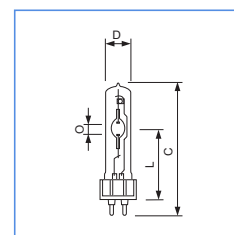
Application

- Fresh food displays

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



A max.	C max.	D max.	L nom.	O nom.
90	103	20	56	7.15

MASTERColour CDM-T Fresh G12

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
70W/740	4,000	6,000	10,000	15,000	any	ICT / 12 12	70CDMTFRESH	12544000	yes

MASTERColour CDM-TC Fresh



Incredible colours, unbeatable efficiency

Single-ended, high-efficiency Ceramic Metal Halide discharge lamp with special colour enhancement properties

Product Features

- Excellent colour enhancement (red, green, orange, blue)
- Highest efficacy in fresh food lighting
- Long life with stable colour
- Standard CDM shapes and sizes
- Can be operated on standard CDM gear

Product Benefits

- Makes fresh food (meat, fish, fruit, vegetables) look incredibly beautiful with full colours
- Makes coloured packaging material look vibrant
- Saves 30-50% energy compared to normal SDW!

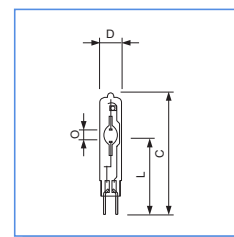
Application

- Fresh food displays

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



C	D	L	O
max.	max.	nom.	nom.
85	15	52	7.15

MASTERColour CDM-TC Fresh G8.5

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number		
70W/740	3,900	6,000	10,000	15,000	any	ICT / 12 12	70CDMTCFRESH	8718291...	16329900	yes

MASTERColour CDM-T Warm



Warm sparkle, unrivalled efficiency

The world's most efficient and lowest-cost accent lighting is to become available in highly efficient sparkling warm light. CDM Warm is the only light source that combines very warm light with near-perfect colour rendering and very high efficacy.

Product Features

- Warm colour temperature (2,500 K)
- High lamp efficacy
- Excellent lumen maintenance (80% at 15,000 hours)
- Excellent colour rendering (CRI > 90)
- Long life (15,000 hours)

Product Benefits

- Warm atmosphere creation
- Accurate colour reproduction to make your merchandise look very attractive
- High energy efficiency

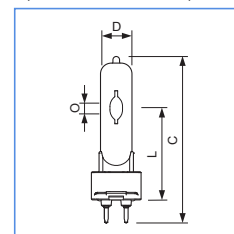
Application

- Ideal for retail display and general lighting (particularly in supermarkets, bakeries and furniture stores)

Warning and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



C	D	L	O
max.	max.	min.	nom.
103	20	56	5

MASTERColour CDM-T Warm G12

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number		
70W/925	2,600	6,500	8,000	15,000	any	ICT / 12 12	CDMTW70W925G12	8718291...	20305600	yes

MASTERColour CDM-TC Warm



Warm sparkle, unrivalled efficiency
The world's most efficient and lowest-cost accent lighting is to become available in highly efficient sparkling warm light. CDM Warm is the only light source that combines very warm light with near-perfect colour rendering and very high efficacy.

Product Features

- Warm colour temperature (2,500 K)
- High lamp efficacy
- Excellent lumen maintenance (80% at 15,000 hours)
- Excellent colour rendering (CRI > 90)
- Long life (15,000 hours)

Product Benefits

- Warm atmosphere creation
- Accurate colour reproduction to make your merchandise look very attractive
- High energy efficiency

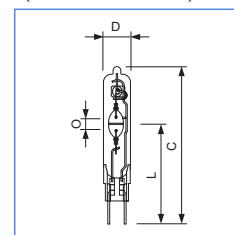
Application

- Ideal for retail display and general lighting (particularly in supermarkets, bakeries and furniture stores)

Warning and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



C	D	L	O
max.	max.	min.	nom.
85	15	52	5

MASTERColour CDM-TC Warm G8.5

Wattage/Colour Code	Colour Temperature	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number	
	(K)	(lm)	(h)	(h)				8718291...	
70W/925	2,600	6,500	8,000	15,000	any	ICT / 12 12	CDMTCW70925G8.5	20307000	yes

MASTERColour CDM-T Evolution



Product Features

- Crisp white sparkling light
- Excellent colour rendering, with extra red
- High efficacy with unrivalled lumen maintenance
- Stable colour performance over lifetime
- Clean beam

Product Benefits

- High-intensity beam of crisp white sparkling light makes merchandise look irresistible
- Stable colour and lumen output over life keeps your store attractive season after season

- Lowest Total Cost of Ownership as a result of high efficacy (same light, less energy or same energy, more light) and long life

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life
- Philips Green Flagship
- RoHS-compliant
- Covered by WEEE

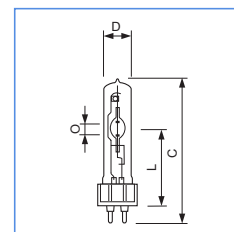
Application

- Accent and display lighting in retail
- General and decorative indoor lighting

Warnings and Safety

- Use only in a totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	A	C	D	L	O
	max.	max.	max.	nom.	nom.
1	92	103	20	56	3.6
2		103	20	56	5.5

Ultimate sparkle, unbeatable value
Single-ended, highest-efficiency, longest-life Ceramic Metal Halide discharge lamp producing crisp white sparkling light with high colour rendering

MASTERColour CDM-T Evolution G12

Wattage/Colour Code	Colour Temperature	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
	(K)	(lm)	(h)	(h)					8718291...	
20W/930	3,000	2,050	16,000	20,000	any	1	ICT / 12 12	20CDMTEVO930	65912900	yes
35W/930	3,000	4,300	12,000	20,000	any	2	ICT / 12 12	35CDMTEVO930	65121500	yes

MASTERColour CDM-TC Evolution



Ultimate sparkle, unbeatable value
Single-ended, highest-efficiency, longest-life Ceramic Metal Halide discharge lamp producing crisp white sparkling light with high colour rendering

Product Features

- Crisp white sparkling light
- Excellent colour rendering, with extra red
- High efficacy with unrivalled lumen maintenance
- Stable colour performance over lifetime
- Clean beam

Product Benefits

- High-intensity beam of crisp white sparkling light makes merchandise look irresistible
- Stable colour and lumen output over life keeps your store attractive season after season

- Lowest Total Cost of Ownership as a result of high efficacy (same light, less energy or same energy, more light) and long life

Environment

- Excellent environmental choice because of high energy efficiency and long reliable life
- Philips Green Flagship
- RoHS-compliant
- Covered by WEEE

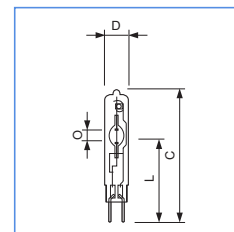
Application

- Accent and display lighting in retail
- General and decorative indoor lighting

Warnings and Safety

- Use only in a totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	C max.	D max.	L min.	O nom.
1	85	15	51	3.6
2	85	15	51	5.5

MASTERColour CDM-TC Evolution G8.5

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	RoHS
20W/930	3,000	2,050	16,000	20,000	any	1	ICT / 12 12	20CDMTCEVO930	65920400	yes
35W/930	3,000	4,300	12,000	20,000	any	2	ICT / 12 12	35CDMTCEVO930	65125300	yes

MASTERColour CDM-Tm Mini GU6.5



Beautiful sparkle, mini design

- Miniature, single-ended ceramic metal halide lamp
- GU6.5 twist-lock lamp base, according to global IEC standard

Product Features

- Crisp, white sparkling light
- Good colour rendering for the 20 W lamp
- Best-in-class lumen efficacy and unrivalled lumen maintenance
- Miniature size allows design of compact luminaires with high beam intensities for mounting close to illuminated object
- Easy replacement due to standard robust twist-lock socket

Product Benefits

- Stable colour impression over lifetime
- High efficacy and high lumen maintenance for low operating costs and low heat generation
- Extra long life compared with halogen lamps

- Relatively low heat output enhances comfort for shoppers and staff
- Fully retrofit in existing GU6.5 luminaires
- UV Block for reduced fading risk of merchandise

Environment

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

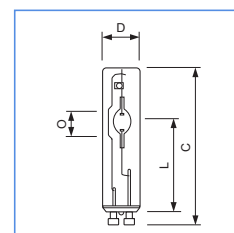
Application

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

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



C max.	D max.	L nom.	O nom.
56.7	13.3	30	3.5

MASTERColour CDM-Tm Mini GU6.5

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	RoHS
20W/830	3,000	1,800	10,000	15,000	any	1	ICT / 12 12	20CDMTM830GU6.5	89083900	yes

MASTERColour CDM-Tm Elite Mini



Perfect sparkle, mini design
Mini, single-ended, very high-efficiency, long-life Ceramic Metal Halide discharge lamp producing crisp white sparkling light with high colour rendering

Product Features

- Crisp white sparkling light
- Excellent colour rendering, with extra red
- High efficacy with unparalleled lumen maintenance
- Stable colour performance over lifetime
- Mini size

Product Benefits

- High-intensity beam of crisp white sparkling light makes merchandise look irresistible
- Lowest Total Cost of Ownership as a result of high efficacy (same light, less energy or same energy, more light) and long life
- Fits in small luminaires which are less visible

Environment

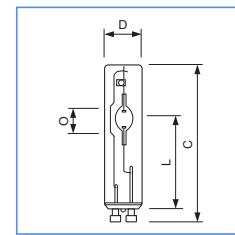
- This product is RoHS-compliant
- This product is covered by WEEE

Application

- Accent and display lighting in retail
- General and decorative indoor lighting
- Outdoor area lighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- For 50 W use with Philips electronic gear only
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	C	D	L	O
1	max. 56.7	max. 13.3	nom. 30	nom. 4.8
2	56.7	13.3	30	6.0

MASTERColour CDM-Tm Elite Mini GU6.5

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
35W/930	3,000	3,900	10,000	15,000	any	1	ICT / 12 12	CDMTM35930GU6.5 I	15382500	yes
50W/930	3,000	5,200	10,000	15,000	any	2	ICT / 12 12	50CDMTMELITE930	15386300	yes

MASTERColour CDM-Tm Mini



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

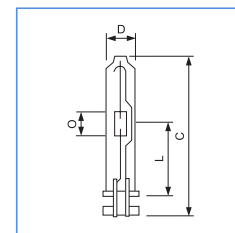
Application

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

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear

- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- For 20 W PGJ5 lamp, use only Philips electronic control gear HID PV mini PGJ5 22 W
- For 35 W PGJ5 lamp, use only Philips electronic control gear HID PV mini 35 W



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

MASTERColour CDM-Tm Mini PGJ5

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
20W/830	3,000	1,650	10,000	12,000	any	1	ICT / 12 12	20CDMTM830	20751715	yes
35W/930	3,000	3,000	10,000	12,000	any	2	ICT / 12 12	35CDMTM930	21149115	yes

MASTERColour CDM-TP



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

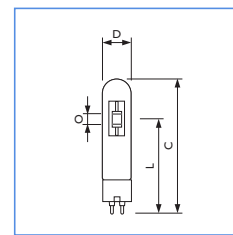
Application

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

Warnings and Safety

- Lamps may use electronic or electromagnetic control gear

- Control gear must include end-of-life protection (IEC 61167, IEC 62035)

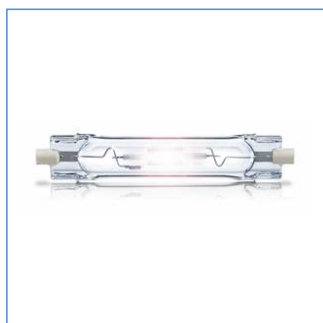


Dim. no.	C max.	D max.	L nom.	O nom.
1	149	32	91	7
2	149	32	91	6
3	149	32	91	9
4	149	32	91	8

MASTERColour CDM-TP

Wattage/ Colour Code	Cap-Base	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 5% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
70W/830	PG12-2	3,000	5,800	9,000	16,000	any	1	ICT / 12 12	70CDMTP830	201270 / 5	yes
70W/842	PG12-2	4,200	5,800	9,000	16,000	any	2	ICT / 12 12	70CDMTP942	201133 / 5	yes
150W/830	PGX12-2	3,000	13,000	9,000	16,000	any	3	ICT / 12 12	150CDMTP830	201256 / 5	yes
150W/942	PGX12-2	4,200	12,000	9,000	16,000	any	4	ICT / 12 12	150CDMTP942	201119 / 5	yes

MASTERColour CDM-TD



Product Description

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

Product Features

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

Product Benefits

- Stable colour impression over lifetime
- High lamp efficacy results in low operating costs and low heat generation. Provides better operating costs and improved light quality versus standard quartz metal halide (MHN/W-TD)
- Long lamp life compared with incandescent, halogen and quartz metal halide (MHN/W-TD) lamps

- Relatively low heat output enhances comfort for shoppers and staff
- All types are UV-Block for reduced fading risks

Environment

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

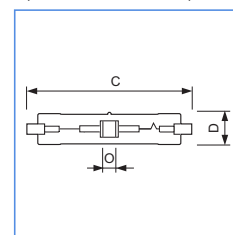
Application

- Shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting of facades, statues and monuments

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



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

MASTERColour CDM-TD RX7s

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
70W/830	3,000	6,000	13,000	16,000	p45	1	ICT / 12 12	70CDMTD830	197825 / 5	yes
70W/942	4,200	5,600	13,000	16,000	p45	2	ICT / 12 12	70CDMTD942	200020 / 5	yes
150W/830	3,000	13,250	13,000	16,000	p45	3	ICT / 12 12	150CDMTD830	197849 / 5	yes
150W/942	4,200	14,200	13,000	16,000	p45	3	ICT / 12 12	150CDMTD942	200259 / 5	yes

MASTERColour CDM-Rm Elite Mini



Perfect sparkle, easy application
Mini, very high-efficiency Ceramic Metal Halide discharge reflector lamp producing crisp white sparkling light with high colour rendering

Product Features

- Crisp white sparkling light
- Excellent colour rendering, with extra red
- High efficacy with unparalleled lumen maintenance
- Mini design fitting in open luminaires
- UV-blocking front glass

Product Benefits

- High-intensity beam of crisp white sparkling light makes merchandise look irresistible

- Easy to install and replace, reducing installation and relamping costs
- Fits in small luminaires which are less visible

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

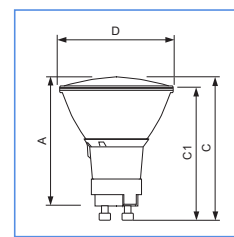
Application

- Accent and display lighting in retail
- General and decorative indoor lighting

Warnings and Safety

- Use only with electronic control gear

- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



A	C	CI	D
max.	max.	max.	nom.
59	65.4	60.9	50

MASTERColour CDM-Rm Elite Mini GX10

Wattage/ Colour Code	Beam Angle	Colour Tem- perature	Luminous Intensity	Life to 10% failures	Life to 50% failures	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	RoHS
(°)	(K)	(cd)	(h)	(h)						yes
35W/930	10	3,000	20,000	10,000	15,000	any	ICT / 12 12	35CDMRMELI93010	16296400	yes
35W/930	25	3,000	8,500	10,000	15,000	any	ICT / 12 12	35CDMRMELI93025	16300800	yes
35W/930	40	3,000	4,400	10,000	15,000	any	ICT / 12 12	35CDMRMELI93040	16306000	yes
50W/930	25	3,000	11,500	7,500	12,000	any	ICT / 12 12	50CDMRMELI93025	12090200	yes
50W/930	40	3,000	7,000	7,500	12,000	any	ICT / 12 12	50CDMRMELI93040	12094000	yes
50W/930	60	3,000	3,000	7,500	12,000	any	ICT / 12 12	50CDMRMELI93060	12086500	yes

MASTERColour CDM-R Elite



Perfect sparkle, simple use
Compact, very high-efficiency, long-life Ceramic Metal Halide discharge reflector lamp producing crisp white sparkling light with high colour rendering

Product Features

- Excellent colour rendering ($R_a = 90$) and high efficacy
- Unparalleled lumen maintenance
- UV-blocking front glass to reduce risk of merchandise fading

- Fits in simple open luminaires
- Easy to install and replace

Product Benefits

- Lamp is easy to install and provides superior light from start to finish
- Unique crisp white sparkling light makes merchandise irresistible
- Unrivalled combination of high lumen output and excellent lumen maintenance

Environment

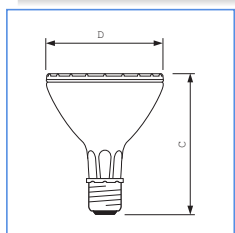
- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

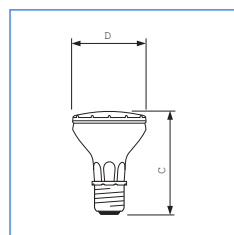
- Accent lighting in retail and hospitality
- General and decorative lighting

Warnings and Safety

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	C	D
1	123	97



Dim. no.	C	D
2	95	65

MASTERColour CDM-R Elite ES

Wattage/ Colour Code	Beam Description	Colour Tem- perature	Luminous Intensity	Life to 10% failures EL	Life to 50% failures EL	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	RoHS		
(°)	(K)	(cd)	(h)	(h)							yes		
35W/930	10	Spot	3,000	56,000	10,000	15,000	any	1	ICT / 6	6	35CDM930PAR3010	24192800	yes
35W/930	10	Spot	3,000	29,000	10,000	15,000	any	2	ICT / 12	12	35CDM930PAR2010	65155000	yes
35W/930	30	Flood	3,000	8,200	10,000	15,000	any	1	ICT / 6	6	35CDM930PAR3030	24194200	yes
35W/930	30	Flood	3,000	5,600	10,000	15,000	any	2	ICT / 12	12	35CDM930PAR2030	65157400	yes
50W/930	10	Spot	3,000	60,700	10,000	15,000	any	1	ICT / 6	6	50CDM930PAR3010	24196600	yes
50W/930	30	Flood	3,000	11,000	10,000	15,000	any	1	ICT / 6	6	50CDM930PAR3030	24198000	yes
50W/930	40	Flood	3,000	7,200	10,000	15,000	any	1	ICT / 6	6	50CDM930PAR3040	24200000	yes
70W/930	10	Spot	3,000	74,500	10,000	15,000	any	1	ICT / 6	6	70CDM930PAR3010	24186700	yes
70W/930	30	Flood	3,000	15,000	10,000	15,000	any	1	ICT / 6	6	70CDM930PAR3030	24188100	yes
70W/930	40	Flood	3,000	10,300	10,000	15,000	any	1	ICT / 6	6	70CDM930PAR3040	24190400	yes

MASTERCcolour CDM-Rm Mini



Product Description

- The easy way to reflect more sparkle

- The new Philips MASTERColour CDM-R mini brings trusted MASTERColour quality to 50 mm 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 50 mm CDM reflector lamp
- High beam intensity
- Long lamp lifetime compared to halogen lamps
- Twist and lock system

Product Benefits

- The miniaturized 50 mm 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

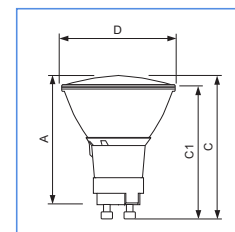
- Good environmental choice because of high energy efficiency and long reliable life
- The product is certified by Philips Green Flagship
- The product is RoHS compliant
- The product is covered by WEEE

Application

- Miniaturized crisp white light system for superior accent and general lighting in shops

Warnings and Safety

- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)

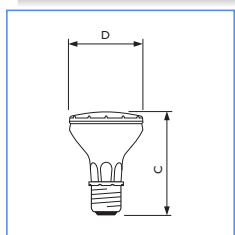


A	C	Cl	D
max.	max.	max.	nom.
59	65.4	60.9	50

MASTERCcolour CDM-Rm Mini GX10

Wattage/ Colour Code	Colour Temperature (°)	Colour Temperature (K)	Luminous Intensity (cd)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...	
20W/830	10	3,000	13,500	10,000	15,000	any	ICT / 12	12	20CDMRM83010	20274500	yes
20W/830	25	3,000	4,500	10,000	15,000	any	ICT / 12	12	20CDMRM83025	20301800	yes
20W/830	40	3,000	2,100	10,000	15,000	any	ICT / 12	12	20CDMRM83040	20303200	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

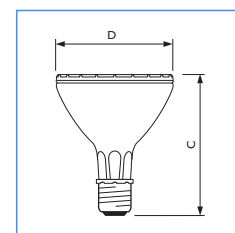
- This product is RoHS compliant
- This product is covered by WEEE

Application

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

Warnings and Safety

- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Use only with electronic control gear. Colour 830 lamps may also use electromagnetic gear.



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

MASTERCcolour CDM-R ES

Wattage/ Colour Code	Bulb	Beam Description	Colour Tem- perature	Luminous Intensity	Life to 5% failures EL	Life to 50% failures EL	Burning Position	Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...		
		(°)	(K)	(cd)	(h)	(h)								
35W/830	PAR20	10	Spot	3,000	21,000	5,000	9,000	any	1	ICT / 12	12	35CDMR830SP20	19808215	yes
35W/942	PAR20	10	Spot	4,200	21,500	5,000	9,000	any	1	ICT / 12	12	35CDMR942P2010D	20785215	yes
35W/830	PAR20	30	Flood	3,000	5,300	5,000	9,000	any	1	ICT / 12	12	35CDMR830FLP20	19810515	yes
35W/942	PAR20	30	Flood	4,200	5,000	5,000	9,000	any	1	ICT / 12	12	35CDMR942P2030D	20787615	yes
35W/830	PAR30L	10	Spot	3,000	44,000	5,000	11,000	any	2	ICT / 6	6	35CDMR830SP	19701610	yes
70W/830	PAR30L	10	Spot	3,000	68,000	5,500	12,000	any	2	ICT / 6	6	70CDMR830SP30	19705410	yes
70W/942	PAR30L	10	Spot	4,200	60,000	5,000	12,000	any	2	ICT / 6	6	70CDMR942P3010	20725810	yes
35W/830	PAR30L	30	Flood	3,000	7,400	5,000	11,000	any	2	ICT / 6	6	35CDMR830FL	19703010	yes
70W/942	PAR30L	30	Flood	4,200	13,000	5,000	12,000	any	2	ICT / 6	6	70CDMR942P3030	20729610	yes
70W/830	PAR30L	40	Flood	3,000	9,500	5,500	12,000	any	2	ICT / 6	6	70CDMR830FLP30	19707810	yes
70W/942	PAR30L	40	Flood	4,200	9,000	5,000	12,000	any	2	ICT / 6	6	70CDMR942P3040	20727210	yes

MASTERColour CDM-RIII



Product Description

- The MASTER Colour CDM-RIII combines the trendy look of the III mm 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

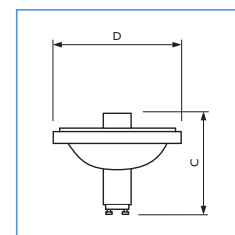
- Good environmental choice because of high energy efficiency and long reliable life
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

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


Warnings and Safety

- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Use only with electronic control gear. 35 W/830 lamps may also use electromagnetic gear.



C	D
max.	max.
95	111

MASTERColour CDM-RIII GX8.5

Wattage/ Colour Code	Beam Description	Colour Tempera- ture	Luminous Intensity	Life to 10% failures EL	Life to 50% failures EL	Burning Position	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...		
	(°)	(K)	(cd)	(h)	(h)							
20W/830	10	Spot	3,000	20,000	7,000	9,000	any	ICT / 6	6	20CDMR11183010	209474/0	yes
20W/830	24	Narrow Flood	3,000	4,500		9,000	any	ICT / 6	6	20CDMR11183024	209511/0	yes
35W/830	10	Spot	3,000	35,000	7,000	11,000	any	ICT / 6	6	35CDMR11183010	204486/0	yes
35W/830	24	Narrow Flood	3,000	8,500	7,000	11,000	any	ICT / 6	6	35CDMR11183024	204509/0	yes
35W/830	40	Flood	3,000	4,000	7,000	11,000	any	ICT / 6	6	35CDMR11183040	204523/0	yes
35W/942	10	Spot	4,200	35,000	6,500	9,000	any	ICT / 6	6	35CDMR11194210	213853/0	yes
35W/942	24	Narrow Flood	4,200	8,500	6,500	9,000	any	ICT / 6	6	35CDMR11194224	213877/0	yes
35W/942	40	Flood	4,200	4,000	6,500	9,000	any	ICT / 6	6	35CDMR11194240	213891/0	yes
70W/830	10	Spot	3,000	50,000	5,000	9,000	any	ICT / 6	6	70CDMR11183010	207197/0	yes
70W/830	24	Narrow Flood	3,000	15,000	5,000	9,000	any	ICT / 6	6	70CDMR11183024	207210/0	yes
70W/830	40	Flood	3,000	9,000	5,000	9,000	any	ICT / 6	6	70CDMR11183040	207234/0	yes
70W/942	24	Narrow Flood	4,200	15,000	8,500	11,000	any	ICT / 6	6	70CDMR11194224	213938/0	yes
70W/942	40	Flood	4,200	9,000	8,500	11,000	any	ICT / 6	6	70CDMR11194240	213952/0	yes

MASTER SDW White SON

MASTER SDW-TG Mini



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

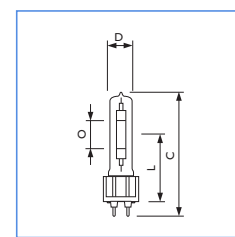
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Shop lighting (create cosy atmosphere e. g. in furniture shops), excellent display of fresh goods (at butchers, bakeries, flower-shops)


Warnings and Safety

- Use only with dedicated Philips control gear



Dim. no.	C max.	D max.	L nom.	O nom.
1	103	20	56	14
2	110	20	56	18

MASTER SDW-TG Mini GX12-I

Wattage/Colour Code	Colour Temperature	Lamp Luminous Flux EL	Life to 5% failures	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
	(K)	(lm)	(h)	(h)							
50W/825	2,500	2,400	7,000	10,000	any	1	ICT / 12	12	50SDWTG	203236/5	yes
100W/825	2,500	4,900	5,000	10,000	any	2	ICT / 12	12	100SDWTG	202338/5	yes

MASTER SDW-T



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

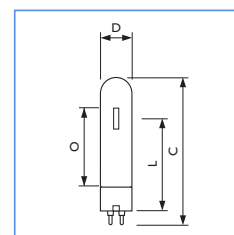
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

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)

Warnings and Safety

- Use only with dedicated Philips control gear



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

MASTER SDW-T PGI2-I

Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 5% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
35W/825	2,500	1,300	8,000	15,000	any	1	ISL / 12 12	35SDWT	734020 / 5	yes
50W/825	2,500	2,300	8,000	15,000	any	2	ISL / 12 12	50SDWT	734037 / 5	yes
100W/825	2,500	5,000	5,000	15,000	any	3	ISL / 12 12	100SDWT	734044 / 5	yes

MHN Low Wattage Metal Halide

MHN-TD



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

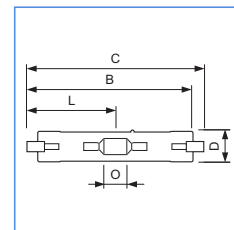
- All types are UV-Block for reduced health and fading risks

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

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	B max.	C max.	D max.	L nom.	O nom.
1	114.2	117.6	19.5	57	7.7
2	132.0	135.4	23.0	66	17.8

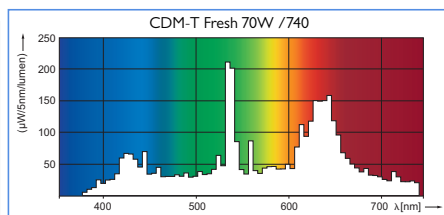
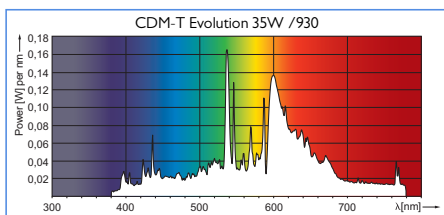
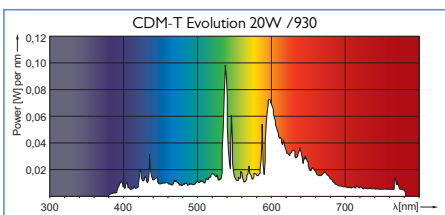
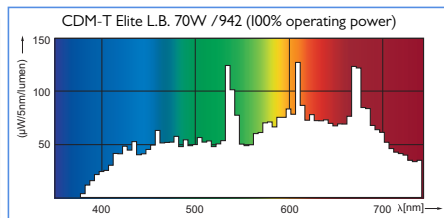
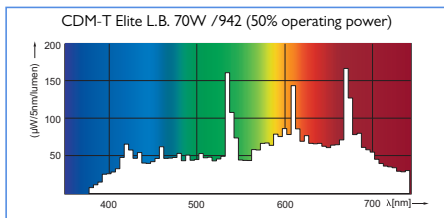
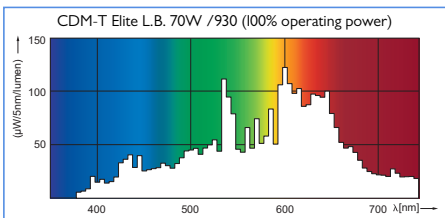
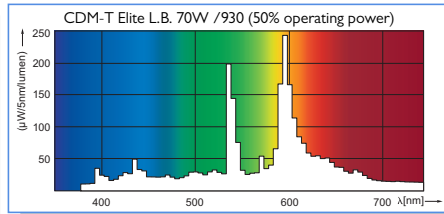
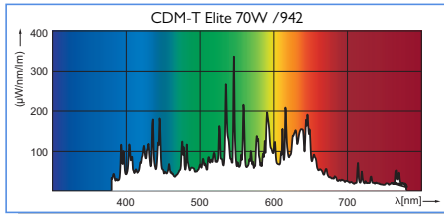
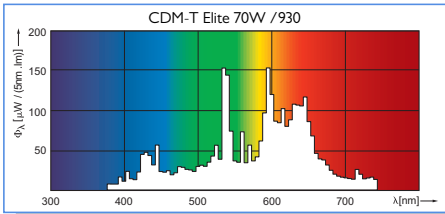
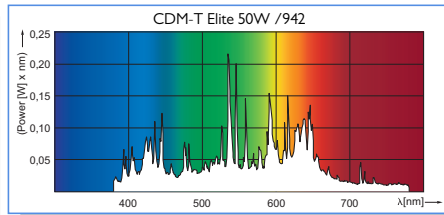
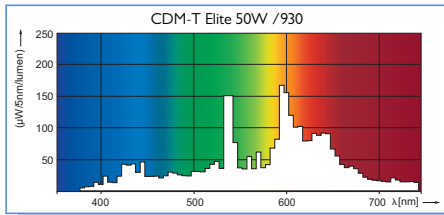
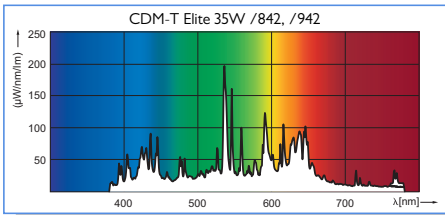
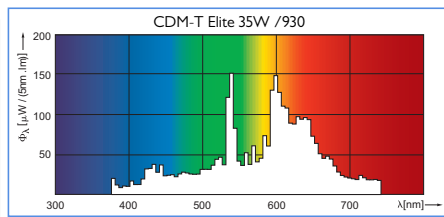
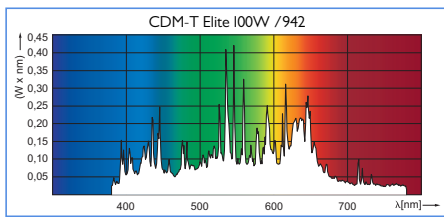
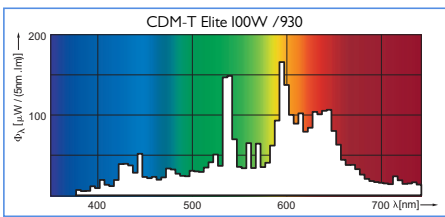
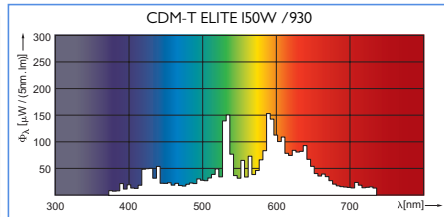
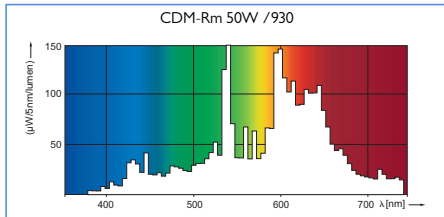
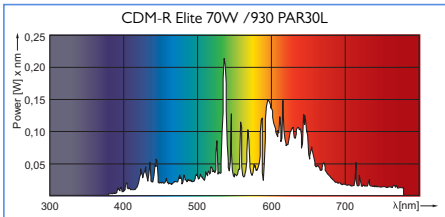
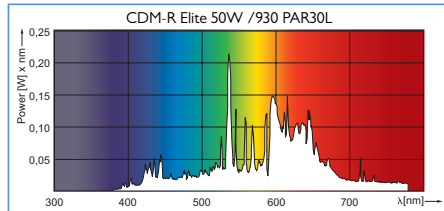
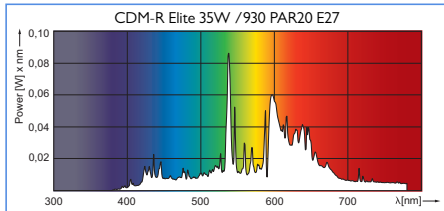
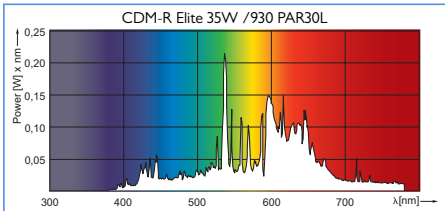
Product Description

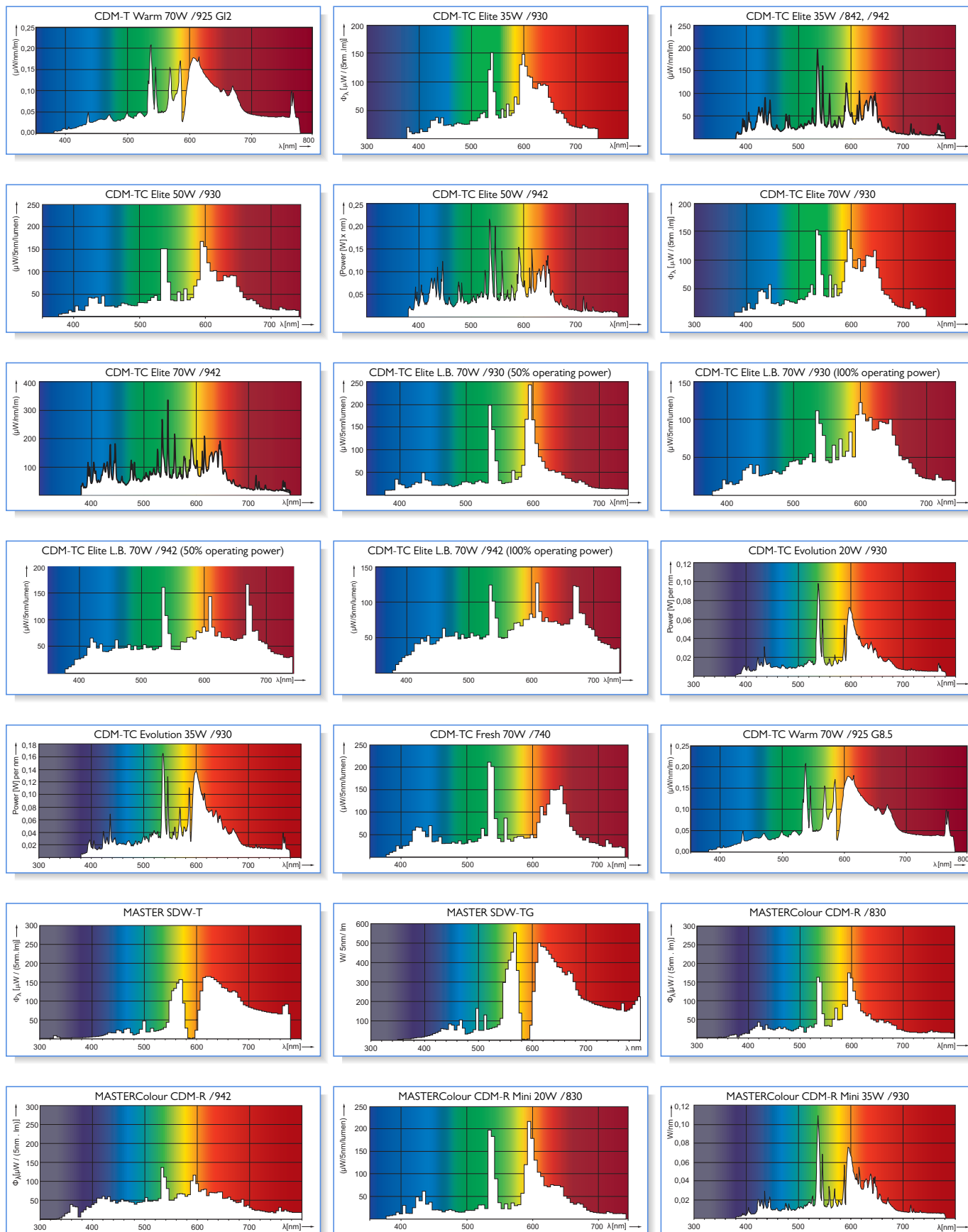
- Double-envelope, single- or double-ended Metal halide lamps

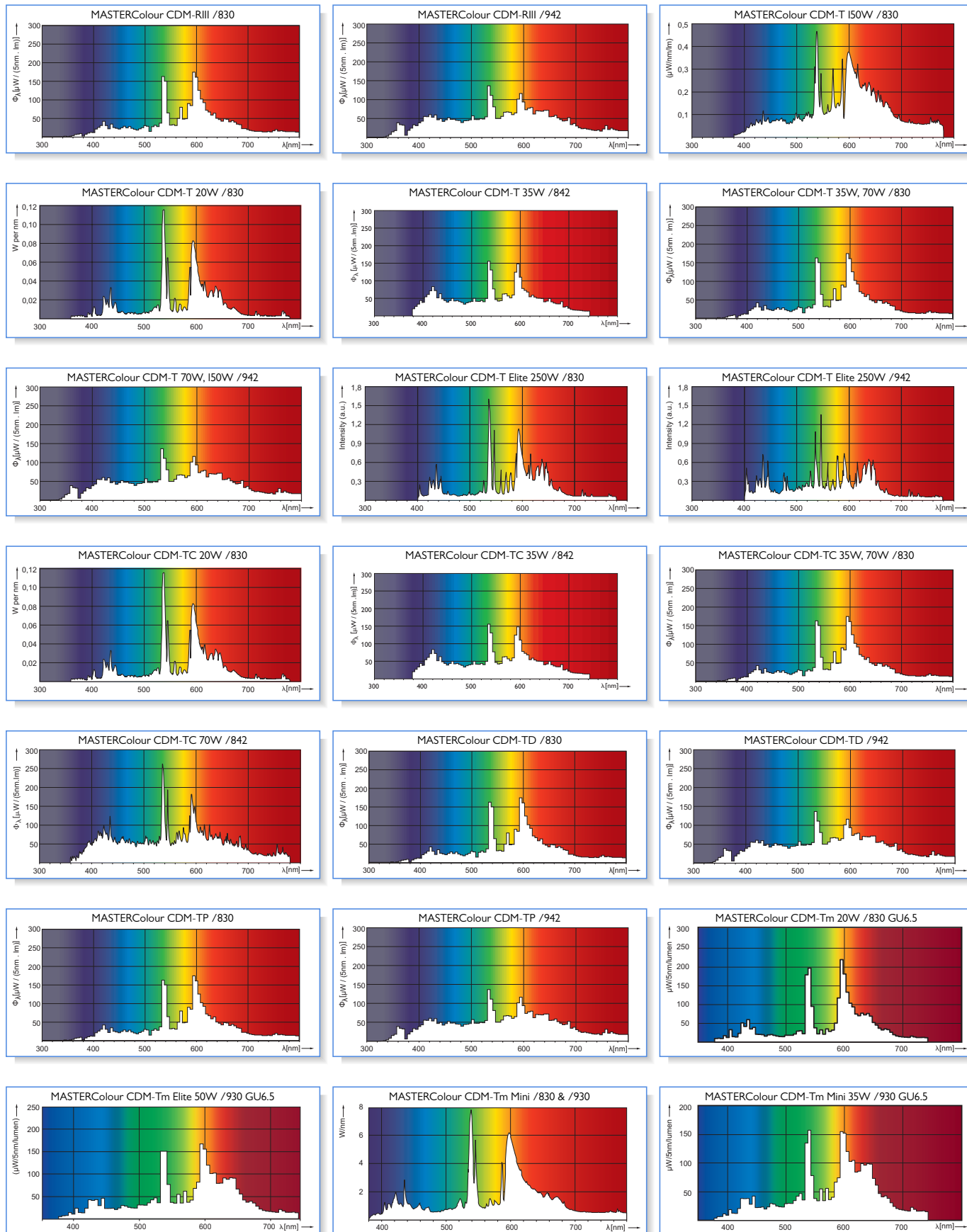
MHN-TD RX7s

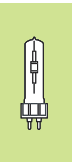
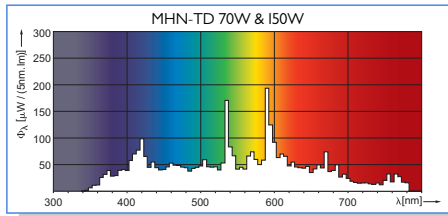
Wattage/Colour Code	Colour Temperature (K)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
70W/730	3,000	6,000	9,000	p45	1	ICT / 12 12	70MHWTD	215301 / 00	yes
150W/842	4,200	12,900	10,500	p45	2	ICT / 12 12	150MHNTD	215363 / 00	yes

Spectral power distribution









High Intensity Discharge Lamps

Outdoor Ceramic White Light

MASTER CosmoWhite CPO-TW & CPO-TW Xtra



Product Features

- Highly efficient white light
- Long reliable lifetime combined with highest system efficacy
- Unique new burner design and positioning in combination with best lamp fixation (PGZI2) provides best optical efficacy
- Compact size: 50% smaller than SON/HPL systems
- New electronic gear platform including dimming options

Product Benefits

- Attractive white light

- Best optical efficacy allows greater spacing between luminaires, thereby reducing investment
- Highest energy saving and lowest cost of ownership

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

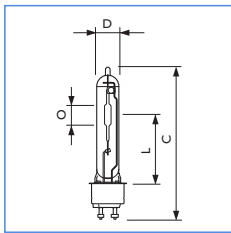
- Urban public lighting for city centers, residential areas and roads

Warnings and Safety

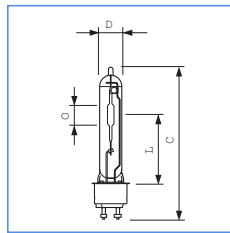
- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)

The most energy-efficient reliable white light solution for Outdoor

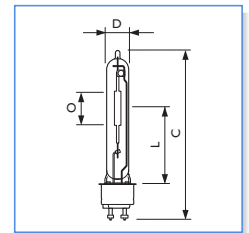
New-generation ceramic metal halide lamps used in Outdoor offering efficient and pleasant white light



Dim. no.	C max.	D nom.	L nom.	O nom.
1	132	19	59	14



Dim. no.	C max.	D nom.	L nom.	O nom.
2	143	19	66	18



Dim. no.	C max.	D nom.	L nom.	O nom.
3	143.0	19	66	18
4	149.8	19	66	22

PGZI2 Clear

Type	Wattage/ Colour Code	Lum. Flux EL25°C, Rat. base up (lm)	Lum. Flux EL25°C, Rat. horiz. (lm)	Life to 10% failures, horiz. (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
MASTER CosmoWhite CPO-TW Xtra	45W/628	4,455	4,950	24,000	any	1	ICT / 12 12	45CPOTW728	871829115001500	yes
MASTER CosmoWhite CPO-TW Xtra	60W/728	6,780	7,200	24,000	any	1	ICT / 12 12	60CPOTW728	871150020851415	yes
MASTER CosmoWhite CPO-TW Xtra	90W/728	9,810	10,800	20,000	any	2	ICT / 12 12	90CPOTW728	871150021121715	yes
MASTER CosmoWhite CPO-TW	90W/840	9,450	10,350	12,000	any	3	ICT / 12 12	90CPOTW840	871829113789400	yes
MASTER CosmoWhite CPO-TW	140W/728	16,500	16,500	16,000	any	4	ICT / 12 12	140CPOTW728	871150020853815	yes
MASTER CosmoWhite CPO-TW	140W/840	15,120	16,100	12,000	any	4	ICT / 12 12	140CPOTW840	871829113791700	yes



MASTERColour CDM-T Elite MW



Perfect sparkle, reliable life
The medium wattage lighting system that gives superior, longer-lasting white light for both indoor and outdoor use

Product Features

- Very high-quality white light with excellent colour rendering
- Long reliable lifetime combined with highest system efficacy
- New socket design makes lamp extremely compact and improves efficiency
- New electronic gear platform

Product Benefits

- High quality sparkling white light
- Highest energy saving and lowest cost of ownership
- Reduced energy consumption/CO₂ emission
- Dimmable

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

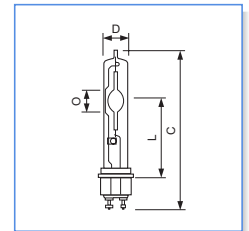
Application

- 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.

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing, except for protected versions with PGZX18 cap, which are designed for open luminaires (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	C nom.	D nom.	L nom.	O nom.
1	186	28	90	12.1
2	186	28	90	
3	186	28	90	14.0
4	193	38	90	

MASTERColour CDM-TMW Elite Clear

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
		(lm)	(h)	(h)						
210W/930	PGZ18	24,150	14,000	27,000	any	1	ICT / 12 12	210CDMTELITE930	871829113950800	yes
210W/942	PGZ18	23,000	15,000	30,000	any	2	ICT / 12 12	210CDMTELITE942	871829113952200	yes
315W/942	PGZ18	35,500	16,000	30,000	any	3	ICT / 12 12	315CDMTELITE942	871829154803400	yes
210W/942W - P	PGZX18	22,800	12,000	20,000	any	4	ICT / 12 12	210CDMPELIT942	872790086211900	yes

MASTER CityWhite CDO-TT



The easiest switch to comfortable white light

Ceramic metal halide lamp with clear tubular outer bulb shape, used in outdoor offering pleasant white light

Product Features

- High-quality white light
- Directly retrofit on HPS (SON/NAV) installations for upgrade from yellow to white light
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Good colour rendering and harmonized warm white colour temperature
- Dimmable

Product Benefits

- White warm colour impression providing comfort and safety

- Easy upgrade from SON to white light without additional cost
- Flexible light levels and reduced energy consumption possible via dimming option

Environment

- Good environmental choice because of high energy efficiency in white light
- Products are RoHS compliant
- Products are covered by WEEE

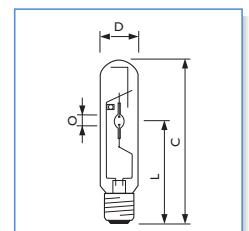
Application

- Beautification and functional lighting for City centers, shopping centers and pedestrian areas, residential areas, road lighting and floodlighting

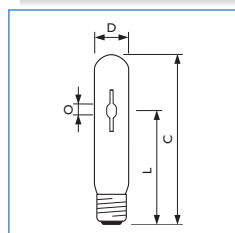
Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



Dim. no.	C max.	D max.	L nom.	O nom.
3	211	47	132	8.5
4	211	47	132	10.0
5	257	47	157	12.1



Dim. no.	C max.	D max.	L nom.	O nom.
1	156	36	102	5.25
2	156	36	102	7.15

MASTER CityWhite CDO-TT Plus Clear

Wattage/Colour Code	Cap-Base	Luminous Flux EM 25°C, Rated	Life to 10% failures	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
		(lm)	(h)	(h)					8718291...	
50W/828	ES	5,500	10,000	16,000	any	1	ISL / 12 12	50CDOTPLUS828	18561100	yes
70W/828	ES	7,500	12,000	20,000	any	2	ISL / 12 12	70CDOTPLUS828	12030800	yes
100W/828	GES	10,700	18,000	27,000	any	3	ISL / 12 12	100CDOTPLUS828	12032200	yes
150W/828	GES	16,500	18,000	27,000	any	4	ISL / 12 12	150CDOTPLUS828	12034600	yes
250W/830	GES	28,300	16,000	23,000	any	5	ISL / 12 12	250CDOTPLUS830	12197800	yes

MASTER CityWhite CDO-ET



The easiest switch to comfortable white light

Ceramic metal halide lamp, with opalized ovoid outer bulb shape, used in outdoor offering pleasant white light

Product Features

- High-quality white light
- Directly retrofit on HPS (SON/NAV) installations for upgrade from yellow to white light
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Good colour rendering and harmonized warm white colour temperature
- Dimmable

Product Benefits

- White warm colour impression providing comfort and safety
- Easy upgrade from SON to white light without additional cost
- Flexible light levels and reduced energy consumption possible via dimming option

Environment

- Good environmental choice because of high energy efficiency in white light
- Products are RoHS compliant
- Products are covered by WEEE

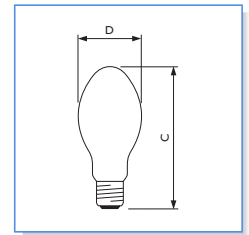
Application

- Beautification and functional lighting for City centers, shopping centers and pedestrian areas, residential areas, road lighting and floodlighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

- Lamps may use electronic or electromagnetic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)



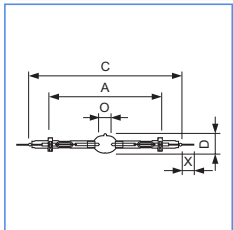
Dim. no.	C max.	D max.
1	156	71
2	186	76
3	227	91

MASTER CityWhite CDO-ET Plus Coated

Wattage/Colour Code	Cap-Base	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
50W/828	ES	5,150	10,000	16,000	any	1	ISL / 24 24	50CDOETPLUS828	18563500	yes
70W/828	ES	7,230	12,000	20,000	any	1	ISL / 24 24	70CDOETPLUS828	15875200	yes
100W/828	GES	9,400	18,000	27,000	any	2	ISL / 12 12	100CDOETPLUS828	15877600	yes
150W/828	GES	15,100	18,000	27,000	any	3	ISL / 12 12	150CDOETPLUS828	15881300	yes

Quartz Metal Halide

MASTER MHN-SA



Dim. no.	A nom.	C max.	D max.	O nom.	X nom.
1	318	369	41.0	25	25
2	226	369	34.3	25	34

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

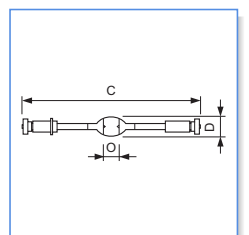
- This product is covered by WEEE

Application

- Professional sports lighting and floodlighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures



Dim. no.	C max.	D max.	O nom.
3	364	41	25

MASTER MHN-SA Clear

Wattage/Colour Code	Cap-Base	Voltage (V)	Lamp Luminous Flux EM (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
1800W/956	X830R	230	155,000	2,300	5,000	p15	1	NO / I I	1800MHNSA956R	871150020106500	yes
1800W/956	(P)SFC	230	155,000	2,000	6,100	p15	3	NO / I I	1800MHNSA956	871150020075400	yes
1800W/956	(P)SFC	400	160,000	2,400	6,100	p15	3	NO / I I	4151800MHNSA956	871150020076100	yes
2000W/956	X830R	400	226,000	2,300	5,000	p15	2	UNP / I I	2000MHNSA956HO	871829124183600	yes
2000W/956	X830R	400	200,000	1,400	3,700	p15	1	NO / I I	2000MHNSA956	871150020079200	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

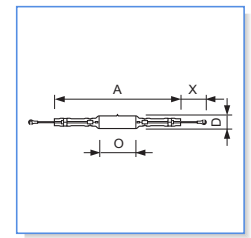
Application

- Professional and semi-professional sports lighting and floodlighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures



Dim. no.	A	D	O	X
	nom.	max.	nom.	nom.
1	294	40	40.5	35
2	364	40	108.0	58

MASTER MHN-LA Clear

Wattage/Colour Code	Cap-Base	Voltage (V)	Lamp Luminous Flux EM (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
1000W/842	X528	230	100,000	8,000	15,000	p5	1	NO / I	1000MHNLA842	20078500	yes
1000W/956	X528	230	90,000	8,000	15,000	p5	1	NO / I	1000MHNLA956	20077800	yes
2000W/842	X528	400	220,000	6,000	13,000	p5	2	NO / I	2000MHNLA842	20074700	yes
2000W/956	X528	400	190,000	6,000	13,000	p5	2	NO / I	2000MHNLA956	20073000	yes

MASTER MHN-SE



Product Description

- Very compact quartz metal halide lamps with single-pinch GX-22 lamp cap

Product Features

- Single-pinch concept for superior optical performance
- High luminous efficacy
- Natural white colour appearance, very good colour rendering and good colour stability
- Daylight colour temperature eases transition from daylight to artificial lighting

Product Benefits

- Allows compact, highly efficient luminaire systems with high-precision optics for good beam control and minimal light spill

- Very good colour rendering creates a pleasant ambience with high visual comfort for players and spectators
- Continuous spectral distribution offers a superior solution for professional stadiums with regular TV coverage

Environment

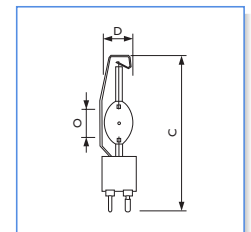
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Professional sports lighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

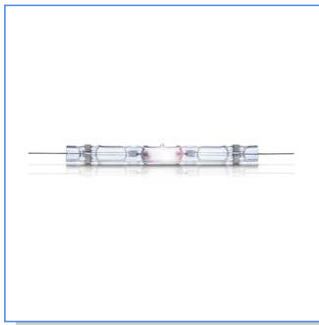


C	D	O
nom.	max.	nom.
196	39	25

MASTER MHN-SE 400V Clear

Wattage/Colour Code	Cap-Base	Lamp Luminous Flux EM (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	
2000W/956	GX22	220,000	1,650	3,000	any	NO / I	2000MHNSE956HO	92877800	yes

MASTER MHN-FC



Product Description

- Compact quartz metal halide lamps with double pinch

Product Features

- Double-pinch concept results in long lifetime
- Choice of 1,000 W and 2,000 W types
- Natural white colour appearance
- Compact light source allows small luminaire design

Product Benefits

- Allows compact luminaire systems with precision optics for minimal light spill
- 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 professional stadiums with regular TV coverage

Environment

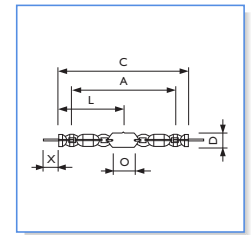
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Recreational sports and area floodlighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures

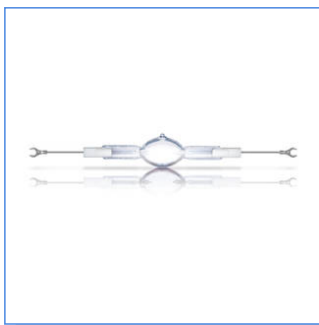


Dim. no.	A nom.	C max.	D nom.	L nom.	O nom.	X nom.
1	226	290	25.5	144	42.5	58
2	290	357	25.5	177	108.0	58

MASTER MHN-FC Double Ended Clear

Wattage/Colour Code	Voltage (V)	Lamp Luminous Flux EM (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
1000W/740	230	93,000	8,000	12,000	p5	1	NO / I	MHNFC1000W740	21424900	yes
2000W/740	400	210,000	8,000	14,000	p5	2	NO / I	2000MHNFC740	21349500	yes

MASTER MHN-SB



Optimal beam control, compact design

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 minimize service needs and maintenance costs
- Good colour rendering for a pleasant ambience with high visual comfort

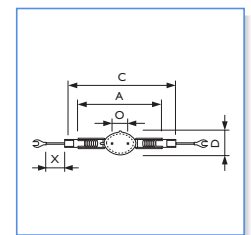
Application

- Semi-professional sports, area and floodlighting

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures



A nom.	C min.	D max.	L max.	O nom.	X nom.
157	186	188	39	25	50

MASTER MHN-SB Cable 400V Clear

Wattage/Colour Code	Lamp Luminous Flux EM (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	
2000W/956	220,000	2,300	4,500	p15	UNP / I	2000MHNBSHO956	92860000	yes

MASTER HPI-T Plus



Product Description

- Quartz metal halide lamps with clear outer bulb

Product Features

- Clear tubular outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Renders a natural white colour appearance and good colour stability

Product Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with "Plus"-concept

Environment

- Good environmental choice because of long service life

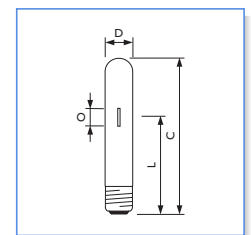
- This product is RoHS compliant
- This product is covered by WEEE

Application

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

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury or sodium lamps



Dim. no.	C max.	D max.	L nom.	O nom.
1	257	47	158	29
2	286	47	172	40

MASTER HPI-T Plus GES Clear

Wattage/Colour Code	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
250W/645	20,500	7,500	20,000	p20	1	ISL / 12	250HPITPLUS	17989015	yes
400W/645	32,000	7,500	20,000	p20	2	ISL / 12	400HPITPLUS	17990615	yes

MASTER HPI Plus



Product Description

- Quartz metal halide lamps with opalized outer bulb

Product Features

- Ovoid, internally white coated outer bulb
- Unique 3-band technology resulting in high luminous efficacy, both initially and over long lifetime
- Available in cool white and daylight colour appearance demonstrating good colour stability
- "S"-type for direct retrofit for HPL lamps
- "P"-type for use without protective front shield

Product Benefits

- High safety and comfort level, maintained over life
- Minimal maintenance cost

- Initial investment saving options with "Plus"-concept and "S" and "P"-types
- Adjustable atmosphere creation by using appropriate colour temperature

Environment

- Good environmental choice because of long service life
- This product is RoHS compliant
- This product is covered by WEEE

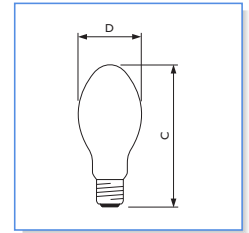
Application

- High bay lighting, e. g. industrial workshops, exhibition halls, supermarkets, shopping malls, DIY stores, churches, airports and train stations

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)

- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury or sodium lamps



Dim. no.	C max.	D max.
1	226	91
2	284	122
3	290	122

MASTER HPI Plus GES

Wattage/Colour Code	System Description	Bulb Finish	Luminous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
			(lm)	(h)	(h)						
250W/745	Base-Up	Coated	18,000	7,500	20,000	h15	1	ISL / 12 12	250HPIPLUSBU	181145/5	yes
250W/745	Base-Up/Protected	Coated	18,000	7,500	20,000	h15	1	ISL / 12 12	250HPIPLUSBUP	211477/5	yes
250W/767	Base-Up	Coated	18,000	7,500	20,000	h15	1	ISL / 12 12	250HPIPLUSDBU	207395/5	yes
400W/745	Base-Up	Coated	32,500	7,500	20,000	h15	2	ISL / 6 6	400HPIPLUSBU	182524/0	yes
400W/745	Base-Up/Protected	Coated	32,500	7,500	20,000	h15	3	ISL / 6 6	400HPIPLUSBUP	211439/0	yes
400W/745	Base-Up/internal Starter	Coated	32,500	7,500	20,000	h15	3	ISL / 6 6	400HPIPLUSBUS	181114/0	yes
400W/745	Base-Up/internal Starter/Protected	Coated	32,500	7,500	20,000	h15	3	ISL / 6 6	400HPIPLUSBUSP	211453/0	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

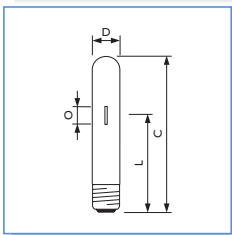
- This product is RoHS compliant
- This product is covered by WEEE

Application

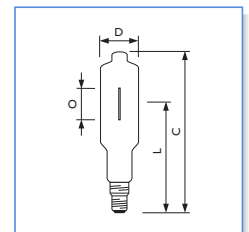
- Sports lighting, floodlighting of buildings and monuments, area lighting e. g. harbours and building sites

Warnings and Safety

- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- For use with control gear designed for high-pressure mercury lamps



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	102.0	290	89

HPI-T GES Clear

Wattage/Colour Code	Voltage (V)	Lamp Luminous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
		(lm)	(h)	(h)						
1000W/643	220	85,000	5,500	12,000	p20	1	ISL / 4 4	1000HPIT	183736/5	yes
2000W/642	380	210,000	5,500	12,000	p20	2	CRP / 4 4	4152000HPITN	202352/5	yes
2000W/646	220	189,000	5,500	12,000	p75	3	CRP / 4 4	2000HPIT	183767/5	yes

SON High Pressure Sodium MASTER SON-T APIA Plus Xtra



The longest life and most reliable solution in road lighting

High Pressure Sodium lamp with clear tubular outer bulb shape, high output and longest reliable lifetime

Product Features

- Tubular outer bulb
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) for an improved and prolonged long and reliable lifetime up to 6 Years Service Lifetime (Xtra)
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- "Plus" concept with high efficacy translated into high light output
- Completely lead-free lamps

Product Benefits

- Most-cost effective solution (both initial as well as running cost) in this category

- 6 years service life
- Highest lumen output, maintained over life

Environment

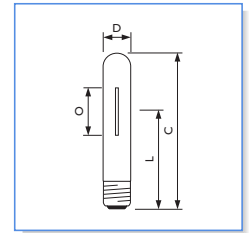
- Good environmental choice because of high energy efficiency and longest reliable life
- Products are RoHS compliant
- Products are covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities indoor and outdoor

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C		D		L		O	
	max.	max.	nom.	nom.	nom.	nom.	nom.	nom.
1	156	36	102	35				
2	156	36	102	42				
3	210	48	132	47				
4	210	48	132	61				
5	257	48	158	64				
6	283	48	175	83				

MASTER SON-T APIA Plus Xtra External Ignitor Clear

Wattage	Cap-Base	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	WEEE Symbol
50	ES	4,400	22,000	36,000	any	1	ISL / 12 12	50SONPLUSXTRA	93358100	yes
70	ES	6,600	28,000	40,000	any	2	ISL / 12 12	70SONPLUSXTRA	92290500	yes
100	GES	10,700	28,000	40,000	any	3	ISL / 12 12	100SONPLUSXTRA	92323000	yes
150	GES	18,000	28,000	40,000	any	4	ISL / 12 12	150SONPLUSXTRA	92733700	yes
250	GES	33,300	28,000	40,000	any	5	ISL / 12 12	250SONPLUSXTRA	92737500	yes
400	GES	56,000	28,000	40,000	any	6	ISL / 12 12	400SONPLUSXTRA	92741200	yes

MASTER SON APIA Plus Xtra



The highly efficient and most reliable solution in road lighting

High Pressure Sodium lamp with opalized outer bulb, high output and longest reliable lifetime

Product Features

- Ovoid-shaped coated outer bulb
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) concept for an improved and prolonged lifetime of up to 6 years
- "Plus" concept with high efficacy translates into high light output and improved lumen maintenance
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- Dimmable

Product Benefits

- Most-cost effective solution (both initial as well as running cost) in this category

- 6 years service life
- Highest lumen output, maintained over life

Environment

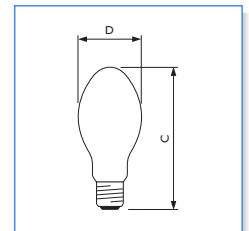
- Good environmental choice because of high energy efficiency and longest reliable life
- Products are RoHS compliant
- Products are covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting, illumination
- Industrial area lighting
- Recreational sports facilities indoor and outdoor

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C		D	
	max.	max.	max.	max.
1	156	71.0		
2	186	76.0		
3	227	91.0		
4	290	121.5		

MASTER SON APIA Plus Xtra External Ignitor Coated

Wattage	Cap-Base	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	WEEE Symbol
50	ES	3,900	22,000	36,000	any	1	ISL / 24 24	50SONPLUSXTRA	92813600	yes
70	ES	5,900	28,000	40,000	any	1	ISL / 24 24	70SONPLUSXTRA	92817400	yes
100	GES	10,000	28,000	40,000	any	2	ISL / 12 12	100SONPLUSXTRA	92743600	yes
150	GES	17,500	28,000	40,000	any	3	ISL / 12 12	150SONPLUSXTRA	92745000	yes
250	GES	31,300	28,000	40,000	any	3	ISL / 12 12	250SONPLUSXTRA	92773300	yes
400	GES	55,400	28,000	40,000	any	4	ISL / 12 12	400SONPLUSXTRA	92767200	yes

MASTER SON-T APIA Plus Hg Free



Product Description

- High-pressure sodium lamp with clear tubular outer bulb, long reliable lifetime and zero mercury

Product Features

- Clear tubular outer bulb
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) for an improved long and reliable lifetime; up to five years service lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- ZrAl getter ensures high lumen maintenance and few early failures
- "Plus" concept with high efficacy translates into high light output
- Fully compliant with EuP legislation for sodium lamps

Product Benefits

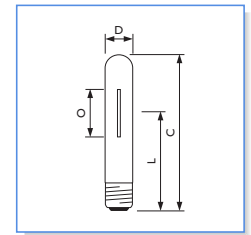
- Superior technology results in a long and reliable lifetime, high lumen maintenance and reliable ignition over lifetime
- Zero mercury makes this the most environmentally friendly product in this application area

Application

- Road and residential lighting
- Industrial area lighting
- Recreational sports facilities, indoor and outdoor
- Decorative floodlighting, illumination

Warning and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.	L nom.	O nom.
1	156	36	104	46
2	210	47	132	71
3	210	47	132	73
4	257	47	158	87
5	279	47	175	109

MASTER SON-T APIA Plus Hg Free External Ignitor Clear

Wattage/Colour Code	Cap-Base	Luminous Flux EM 25°C, Rated (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	
70	ES	6,300	38,000	any	1	ISL / 12 12	70SONTPLUSMF	91252400	yes
100	GES	10,000	38,000	any	2	ISL / 12 12	100SONTPLUSMF	88075500	yes
150W/221	GES	17,100	38,000	any	3	ISL / 12 12	150SONTPLUSMF	88510100	yes
250W/221	GES	32,200	38,000	any	4	ISL / 12 12	250SONTPLUSMF	88512500	yes
400W/221	GES	56,000	38,000	any	5	ISL / 12 12	400SONTPLUSMF	88514900	yes

MASTER SON APIA Plus Hg Free



Product Description

- High-pressure sodium lamp with opalized ovoid outer bulb, long reliable lifetime and zero mercury

Product Features

- Ovoid outer bulb, internally coated white
- Ceramic discharge tube with new Active Philips Integrated Antenna (APIA) for an improved long and reliable lifetime; up to five years service lifetime
- Robust construction with few welding points is highly vibration- and shock-resistant, further reducing early failures and extending lamp life
- ZrAl getter ensures high lumen maintenance and few early failures
- "Plus" concept with high efficacy translates into high light output
- Fully compliant with EuP legislation for sodium lamps

Product Benefits

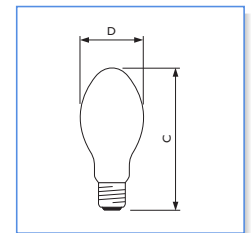
- Superior technology results in a long and reliable lifetime, high lumen maintenance and reliable ignition over lifetime
- Zero mercury makes this the most environmentally friendly product in this application area

Application

- Road and residential lighting
- Industrial area lighting
- Recreational sports facilities, indoor and outdoor
- Decorative floodlighting, illumination

Warning and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.
1	227	91.0
2	290	121.5

MASTER SON APIA Plus Hg Free External Ignitor GES Coated

Wattage/Colour Code	Luminous Flux EM 25°C, Rated (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	
150W/221	15,800	38,000	any	1	ISL / 12 12	150SONPLUSMF	87965000	yes
250W/221	29,700	38,000	any	1	ISL / 12 12	250SONPLUSMF	87971100	yes
400W/221	53,600	38,000	any	2	ISL / 12 12	400SONPLUSMF	88029800	yes

MASTER SON-T PIA Plus



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

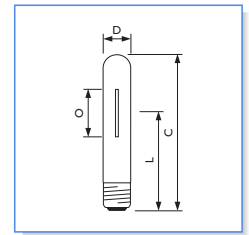
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

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

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.	L nom.	O nom.
1	156	32	102.0	35
2	156	32	102.0	42
3	210	48	132.0	47
4	210	48	132.0	61
5	257	48	158.0	64
6	283	48	175.0	83
7	283	47	174.2	126

MASTER SON-T PIA Plus External Ignitor 230V Clear

Wattage/Colour Code	Cap-Base	Luminous Flux EM 25°C, Rated	Life to 10% failures	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
		(lm)	(h)	(h)					8711500...	
50W/220	ES	4,400	17,000	30,000	any	1	ISL / 12 12	50SONTPLUS	192653/5	yes
70W/220	ES	6,600	17,000	30,000	any	2	ISL / 12 12	70SONTPLUS	192660/5	yes
100W/220	GES	10,700	21,000	36,000	any	3	ISL / 12 12	100SONTPLUS	192301/5	yes
150W/220	GES	18,000	21,000	36,000	any	4	ISL / 12 12	150SONTPLUS	192295/5	yes
250W/220	GES	33,300	21,000	36,000	any	5	ISL / 12 12	250SONTPLUS	179876/5	yes
400W/220	GES	56,500	21,000	36,000	any	6	ISL / 12 12	400SONTPLUS	179883/5	yes
600W/220	GES	90,000	15,000	30,000	any	7	ISL / 12 12	600SONTPLUS	197429/5	yes

MASTER SON PIA Plus



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

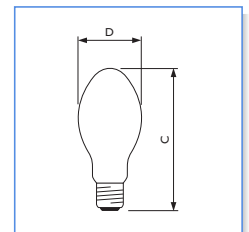
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Industrial lighting both indoor and outdoor
- Recreational sports facilities Outdoor and Indoor

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.
1	156	71
2	152	70
3	186	76
4	227	91
5	290	122

MASTER SON PIA Plus Coated

Wattage/Colour Code	System Description	Cap-Base	Luminous Flux EM 25°C, Rated	Life to 10% failures	Life to 50% failures	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
			(lm)	(h)	(h)						
50W/220	External Ignitor	ES	3,900	17,000	30,000	any	1	ISL / 24 24	50SONPLUS	871829118038800	yes
70W/220	External Ignitor	ES	5,900	17,000	30,000	any	1	ISL / 24 24	70SONPLUS	871829118040100	yes
70W/220	Internal Ignitor	ES	5,900	17,000	30,000	any	2	ISL / 24 24	70SONIPLUS	871150020426430	yes
100W/220	External Ignitor	GES	10,000	21,000	36,000	any	3	ISL / 12 12	100SONPLUS	8711500182258/5	yes
150W/220	External Ignitor	GES	17,000	21,000	36,000	any	4	ISL / 12 12	150SONPLUS	8711500182289/5	yes
250W/220	External Ignitor	GES	31,300	21,000	36,000	any	4	ISL / 12 12	250SONPLUS	8711500193445/5	yes
400W/220	External Ignitor	GES	55,400	21,000	36,000	any	5	ISL / 12 12	400SONPLUS	8711500193452/5	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

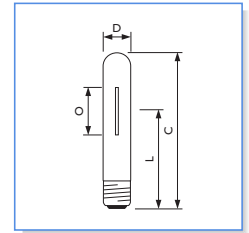
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications
- Recreational sports facilities Outdoor and Indoor

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



C	D	L	O
max.	max.	nom.	nom.
390	67	240	153

SON-T External Ignitor GES Clear

Wattage/Colour Code	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
1000W/220	130,000	10,000	20,000	any	ISL / 4 4	1000SONT	18412245	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

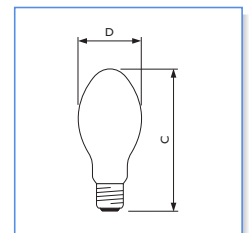
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.
1	156	71
2	155	71

SON ES Coated

Wattage/Colour Code	System Description	Lamp Luminous Flux EM (lm)	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	
50W/220	External Ignitor	3,500	3,500	15,000	28,000	any	1	ISL / 24 24	50SONE	18195430	yes
70W/220	External Ignitor	5,810	5,810	15,000	28,000	any	1	ISL / 24 24	70SONE	18192330	yes
70W/220	Internal Ignitor	5,600	5,600	13,000	28,000	any	2	ISL / 24 24	70SONI	18186230	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

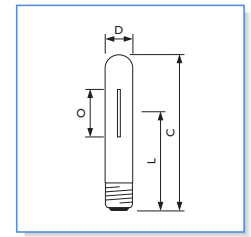
- This product is RoHS compliant
- This product is covered by WEEE

Application

- City centres and residential areas
- Decorative floodlighting
- Commercial and industrial applications
- Recreational sports facilities Outdoor and Indoor

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.	L nom.	O nom.
1	211	47	132	43
2	257	47	158	53
3	283	47	175	59

SON-T Comfort External Ignitor GES Clear

Wattage/Colour Code	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
150W/62I	13,000	12,000	24,000	any	1	ISL / 12 12	150SONTCOM	192288 /15	yes
250W/62I	23,000	12,000	24,000	any	2	ISL / 12 12	250SONTCOM	179852 /15	yes
400W/62I	38,000	12,000	24,000	any	3	ISL / 12 12	400SONTCOM	179869 /15	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

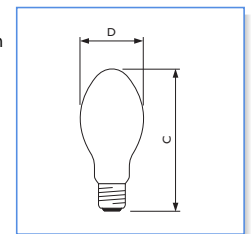
- This product is RoHS compliant
- This product is covered by WEEE

Application

- City centres and residential areas
- Commercial and industrial applications

Warnings and Safety

- Control gear must include end-of-life protection (IEC 60662, IEC 62035)



Dim. no.	C max.	D max.
1	227	91
2	290	122

SON Comfort External Ignitor GES Coated

Wattage/Colour Code	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
150W/62I	12,500	12,000	24,000	any	1	ISL / 12 12	150SONCOM	182166 /15	yes
250W/62I	22,000	12,000	24,000	any	1	ISL / 12 12	250SONCOM	182197 /15	yes
400W/62I	37,000	12,000	24,000	any	2	ISL / 12 12	400SONCOM	182227 /15	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

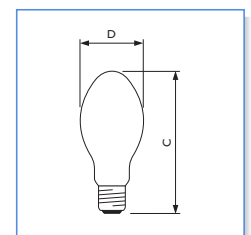
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road and residential lighting
- Commercial and industrial applications

Warnings and Safety

- For use with control gear designed for high-pressure mercury lamps
- For outdoor use only



Dim. no.	C max.	D max.
1	156	71
2	227	91
3	290	122

SON H 220V Coated

Wattage/Colour Code	Cap-Base	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	
68	ES	5,000		28,000	any	1	ICT / 24 24	68SONH	87182911185800	yes
110	ES	9,600		28,000	any	1	ICT / 24 24	110SONH	871829111857200	yes
220W/220	GES	19,000	12,000	26,000	any	2	ISL / 12 12	220SONH	871150018207415	yes
350W/220	GES	34,000	12,000	26,000	any	3	ISL / 12 12	350SONH	871150018213515	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

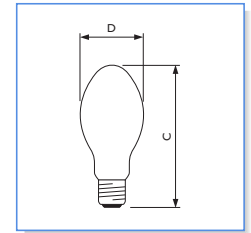
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Public roads and residential areas, factories, transport sector and industrial area lighting

Warnings and Safety

- For use with control gear designed for high-pressure mercury lamps



Dim. no.	C max.	D max.
1	155	71
2	173	76
3	228	91
4	290	122

HPL Comfort Coated

Wattage/Colour Code	Cap-Base	Bulb Material	Luminous Flux EM 25°C, Rated (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
80W/534	ES	Soft Glass	4,000	16,000	any	1	ISL / 24 24	80HPLCOM	18090230	yes
125W/534	ES	Soft Glass	6,700	16,000	any	2	SLV / 24 24	125HPLCOM	18099530	yes
250W/534	GES	Hard Glass	13,500	16,000	any	3	CRP / 12 12	250HPLCOM	18102215	yes
400W/534	GES	Hard Glass	23,400	20,000	any	4	ISL / 6 6	400HPLCOM	18105310	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

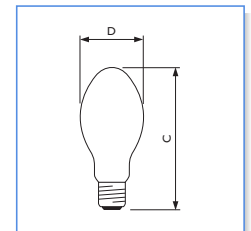
- This product is RoHS compliant
- This product is covered by WEEE

Application

- All outdoor applications, factories, transport sector and industrial area lighting

Warnings and Safety

- For use with control gear designed for high-pressure mercury lamps



Dim. no.	C max.	D max.
1	129	56
2	155	71
3	173	76
4	228	91
5	290	122

HPL-N Coated

Wattage/Colour Code	Cap-Base	Bulb Material	Luminous Flux EM 25°C, Rated (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
50W/542	ES	Soft Glass	1,770	16,000	any	1	ICT / 24 24	50HPLN	17991330	yes
80W/542	ES	Soft Glass	3,600	16,000	any	2	ISL / 24 24	80ESHPLN	17997530	yes
125W/542	ES	Soft Glass	6,200	16,000	any	3	SLV / 24 24	125ESHPLN	18012430	yes
250W/542	GES	Hard Glass	12,700	16,000	any	4	ISL / 12 12	250HPLN	18060515	yes
400W/542	GES	Hard Glass	22,000	16,000	any	5	ISL / 6 6	400HPLN	18045210	yes

HID Horticulture HORTI



Product Description

- High Pressure Sodium lamp with clear outer bulb, optimized growthlight output and maintenance

Product Features

- Clear tubular outer bulb
- Ceramic discharge tube with Philips Integrated Antenna (PIA) for a long and reliable lifetime
- Advanced getter ensures high growthlight maintenance and few early failures
- "GreenPower" concept with optimized micromol output (growth light)

- "Plus" concept with high efficacy translated into high light output
- "Agro" concept with optimized light spectrum

Product Benefits

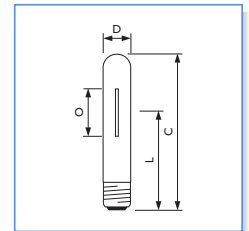
- Optimized performance for horticultural applications
- High growthlight maintenance safeguards a constant crop quality and quantity over life

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, assimilation lighting



C	D	L	O
max.	max.	nom.	nom.
283	47	175	118.6

External Ignitor GES 230V Clear

Type	Wattage/Colour Code	Luminous Flux EM 25°C, Rated (lm)	Burning Position	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
MASTER GreenPower CG T	400W/220	58,500	any	ISL / 12 12	400SONTGP	201966/5	yes

SOX Low Pressure Sodium MASTER SOX PSG



Product Description

- Low-pressure sodium vapour lamps with a U-shaped discharge tube enclosed in a clear tubular outer bulb under vacuum that is maintained by a solid-state getter

Product Features

- Philips Solid-state Getter (PSG) for highest reliability over life
- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, stable power consumption, shorter run-up time, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

- Burning position SOX 35 W and 55 W: base-up $\pm 110^\circ$ (universal burning position when luminaires installed in shock-free positions)

Product Benefits

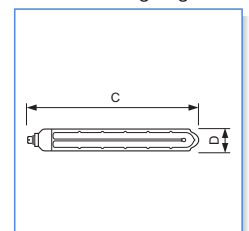
- Highest reliability ensures the lowest total cost of ownership
- Stable power consumption through life maintains low energy use and contributes to low cost of ownership
- Extremely high luminous efficacy; the most efficient light sources for road, security and tunnel lighting

Environment

- Good environmental choice because of highest energy efficiency
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting



Dim. no.	C	D
	max.	max.
1	311	52
2	425	52

MASTER SOX PSG BY22d Clear

Wattage	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...	
35	12,000	18,000	h110	1	ISL / 12 12	35SOXPSG	735089/5	yes
55	12,000	18,000	h110	2	ISL / 12 12	55SOXPSG	735126/5	yes

MASTER SOX-E



Product Description

- Low Pressure Sodium lamp with improved efficacy

Product Features

- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Special coating of SOX-E outer tube results in higher lamp efficacy than SOX
- Monochromatic yellow colour with non-existent colour rendering

Product Benefits

- Extremely high luminous efficacy makes these the most efficient light sources

Environment

- Good environmental choice because of highest energy efficiency
- This product is RoHS compliant
- This product is covered by WEEE

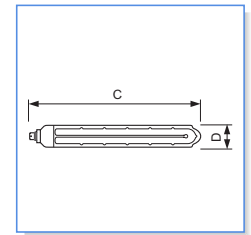
Application

- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills

Security and orientation lighting

Warnings and Safety

- Lamps may use electronic or electromagnetic control gear



Dim. no.	C max.	D max.
1	216	52
2	311	52
3	425	52
4	528	66
5	775	66
6	1120	66

MASTER SOX-E BY22d

Wattage (W)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
18	1,800	18,000	h110	1	ISL / 12	12	18SOXE	600233 / 5	yes
26	3,600	18,000	h110	2	ISL / 12	12	26SOXE	600257 / 5	yes
36	6,100	18,000	p20	3	ISL / 12	12	36SOXE	600271 / 5	yes
66	10,500	18,000	p20	4	ISL / 12	12	66SOXE	600295 / 5	yes
91	17,400	18,000	p20	5	ISL / 12	12	91SOXE	600332 / 5	yes
131	26,200	18,000	p20	6	ISL / 6	6	131SOXE	735140 / 0	yes

SOX



Product Description

- Low Pressure Sodium lamp

Product Features

- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

Product Benefits

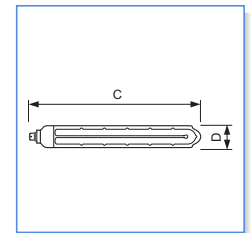
- High luminous efficacy leads to low energy consumption

Environment

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

Application

- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting



Dim. no.	C max.	D max.
1	311	52
2	425	52
3	528	66
4	775	66
5	1120	66

SOX BY22d

Wattage (W)	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
35	4,550	18,000	h110	1	ISL / 12	12	35SOX	735003 / 5	yes
35	4,550	18,000	h110	1	ISL / 12	12	35SOXPLUS	194695 / 5	yes
55	7,800	18,000	h110	2	ISL / 12	12	55SOX	600318 / 5	yes
55	7,800	18,000	h110	2	ISL / 12	12	55SOXPLUS	194718 / 5	yes
90	13,600	18,000	p20	3	ISL / 12	12	90SOX	735027 / 5	yes
90	13,600	18,000	p20	3	ISL / 12	12	90SOXPLUS	194732 / 5	yes
135	22,600	18,000	p20	4	ISL / 12	12	135SOX	735041 / 5	yes
135	22,600	18,000	p20	4	ISL / 12	12	135SOXPLUS	194756 / 5	yes
180	32,000	18,000	p20	5	ISL / 6	6	180SOX	735164 / 0	yes

SOX Plus



Product Description

- Low Pressure Sodium lamp with warranty

Product Features

- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

Product Benefits

- High luminous efficacy leads to low energy consumption

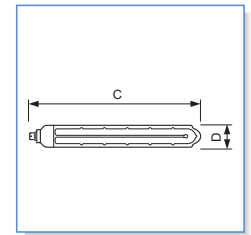
- Warranty gives less hassle and less unexpected early maintenance cost

Environment

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

Application

- Road lighting, railway marshalling yards and crossings, airports, harbours and docks, quarries, foundries and rolling mills
- Security and orientation lighting

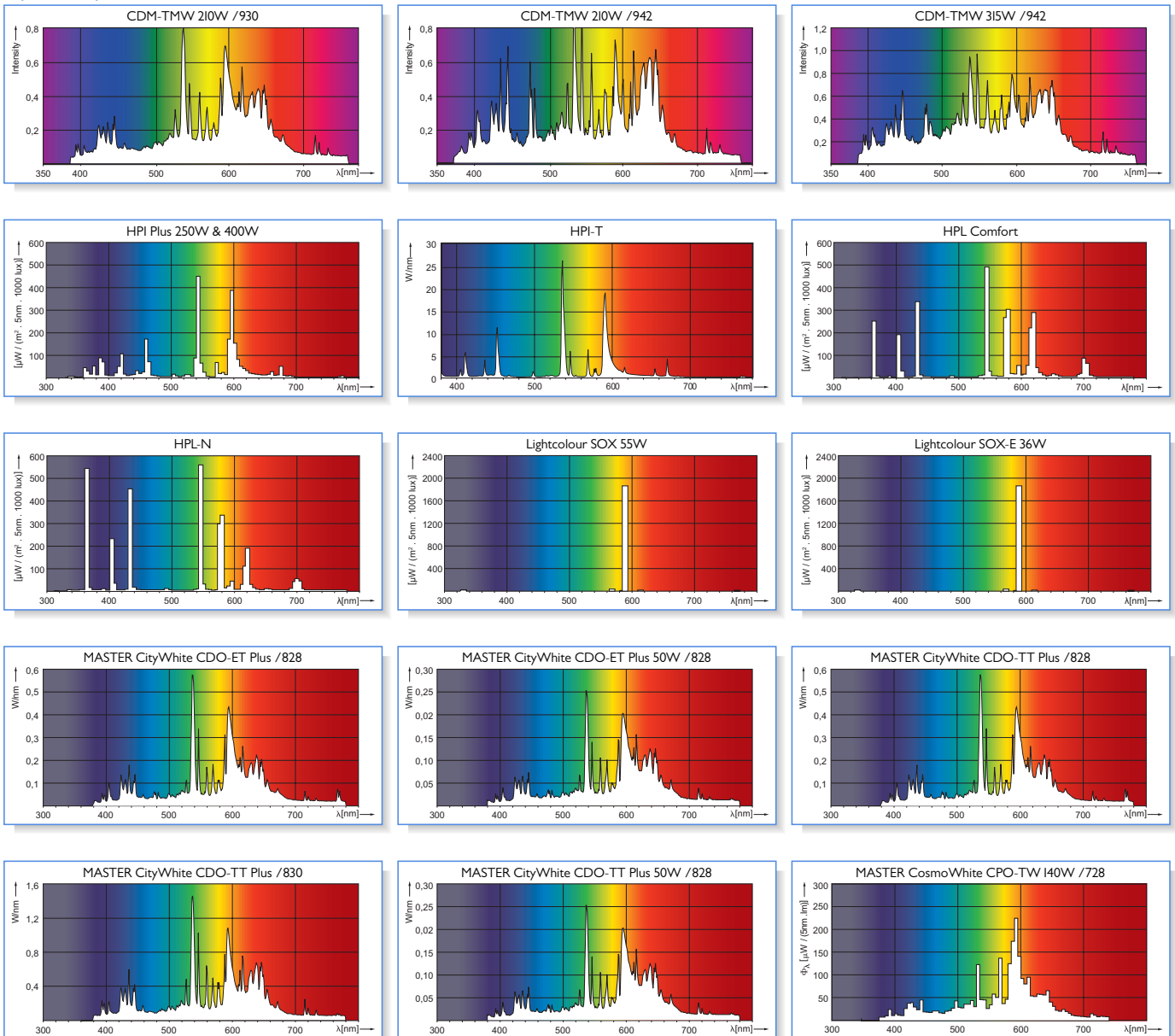


Dim. no.	C max.	D max.
1	311	52
2	425	52
3	528	66
4	775	66

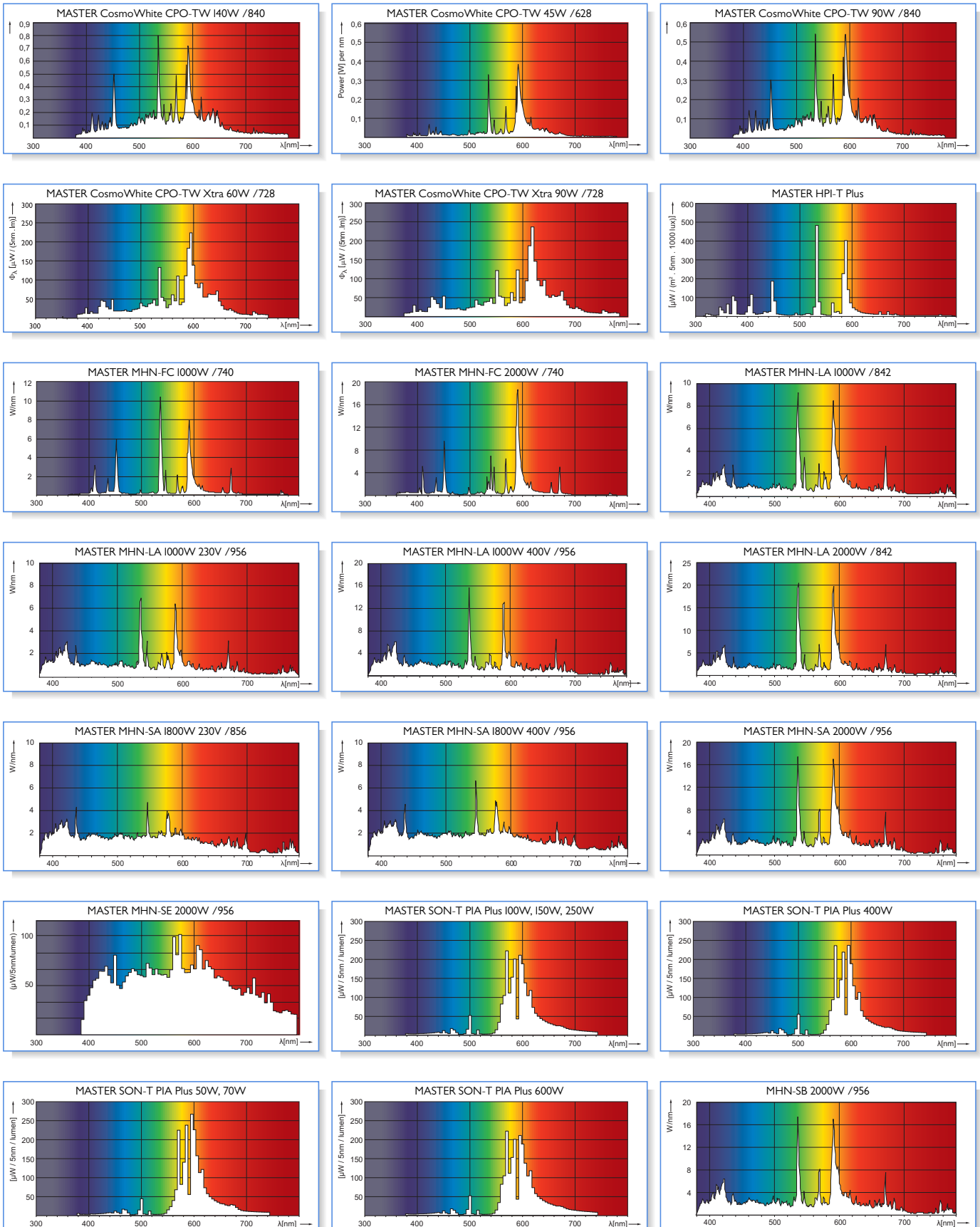
SOX BY22d

Wattage	Lamp Luminous Flux EM (lm)	Life to 50% failures (h)	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...		
35	4,550	18,000	h110	1	ISL / 12	12	35SOXPLUS	19469515	yes
55	7,800	18,000	h110	2	ISL / 12	12	55SOXPLUS	19471815	yes
90	13,600	18,000	p20	3	ISL / 12	12	90SOXPLUS	19473215	yes
135	22,600	18,000	p20	4	ISL / 12	12	135SOXPLUS	19475615	yes

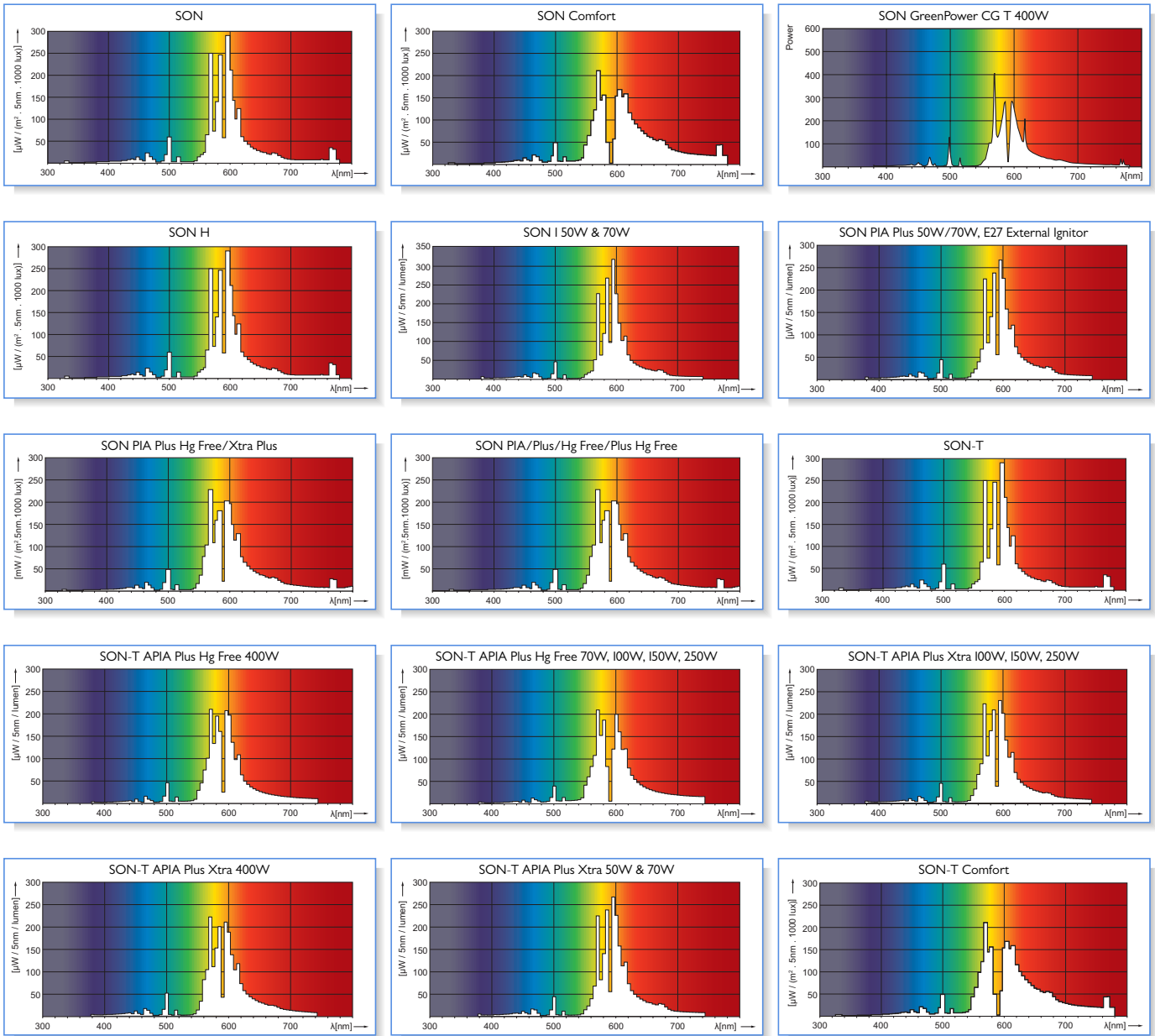
Spectral power distribution



High Intensity Discharge Lamps



High Intensity Discharge Lamps



Halogen Lamps

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

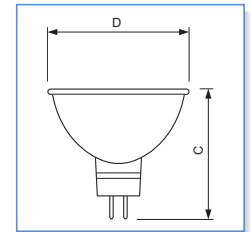
- Unique Philips patented infrared-coated single-ended burner by using EcoBoost technology with 40% higher efficiency than standard products
- Heat-reflecting coating on the inner lamp burner reflects waste heat back to the filament so less energy is needed to operate the lamp
- Revolutionary compact 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 (5,000 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



C	D
max.	max.
50.5	51

MASTERLine ES GU5.3 I2V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)				
20	8	6,000	5,000	ICT / 4X5F	20	14578	41364271
20	36	1,000	5,000	ICT / 4X5F	20	14579	41367371
30	8	11,000	5,000	ICT / 4X5F	20	14580	41370371
30	24	3,150	5,000	ICT / 4X5F	20	14581	41375871
30	36	1,600	5,000	ICT / 4X5F	20	14582	41378971
30	60	750	5,000	ICT / 4X5F	20	14583	41382671
35	8	12,500	5,000	ICT / 4X5F	20	14584	41387171
35	24	4,100	5,000	ICT / 4X5F	20	14585	41397071
35	36	2,200	5,000	ICT / 4X5F	20	14586	42432771
35	60	1,050	5,000	ICT / 4X5F	20	14587	42435871
45	8	15,000	5,000	ICT / 4X5F	20	14588	42438971
45	24	5,300	5,000	ICT / 4X5F	20	14589	42441971
45	36	2,850	5,000	ICT / 4X5F	20	14590	42444071
45	60	1,300	5,000	ICT / 4X5F	20	14591	42447171

MASTERLine III 



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

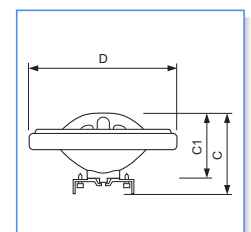
Product Benefits

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

- Up to 40% lower energy costs compared to 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 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



C	CI	D
max.	max.	max.
65	51	111

MASTERLine III G53 I2V

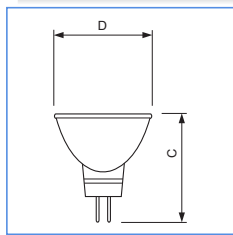
Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)				
30	8	23,000	4,000	ICT / 6	6	30ML1118D	41101310
30	24	4,000	4,000	ICT / 6	6	30ML11124D	41103710
45	8	33,000	4,000	ICT / 6	6	45ML1118D	41105110
45	24	5,300	4,000	ICT / 6	6	45ML11124D	41107510
45	45	1,900	4,000	ICT / 6	6	45ML11145D	41109910

More data see next page

MASTERLine III G53 I2V (continued)

Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(°)	(h)			
60	8	4,000	ICT / 6	60ML1118D	4111210
60	24	4,000	ICT / 6	60ML1124D	41115010
60	45	4,000	ICT / 6	60ML1145D	41113610

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

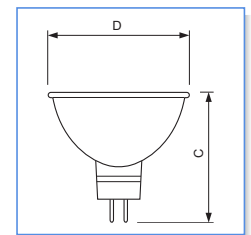
- Constant high quality and aesthetics maintained over lifetime
- Wide range of 35 mm and 50 mm types
- UV-Block front glass
- Excellent colour rendering
- GU5.3 or GU4 base for extra retention in luminaire

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.



Dim. no.	C max.	D max.
2	46	50

Brilliantline Dichroic I2V Clear

Bulb	Lamp Wattage	Cap-Base	Luminous Intensity	Life to 50% failures	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...	
	(W)		(°)	(h)					
MR11	20	GU4	10	4,800	1	ICT / 10X5F	50	42537960	42537960
MR11	20	GU4	30	690	1	ICT / 10X5F	50	42540960	42540960
MR11	35	GU4	10	7,000	1	ICT / 10X5F	50	42543060	42543060
MR11	35	GU4	30	1,300	1	ICT / 10X5F	50	42546160	42546160
MR16	35	GU5.3	10	8,000	2	ICT / 10X5F	50	42490760	42490760
MR16	35	GU5.3	36	1,500	2	ICT / 10X5F	50	42504160	42504160
MR16	50	GU5.3	36	2,200	2	ICT / 10X5F	50	42516460	42516460

Brilliantline Alu



Product Description

- Low voltage, xenon gas filled halogen burner with axial filament optically positioned in an aluminium 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

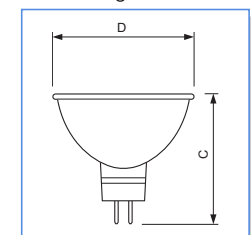
Product Benefits

- 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 breathe (convection due to warming up and cooling down of upper ceiling)

Application

- Ideally suited for accent, task and decorative lighting in open luminaires shops (e. g. glass vitrines), stores, hotel and restaurants

- Especially suited for white or other light coloured ceilings with limited space above the ceiling



C max.	D max.
46	51

Brilliantline Alu GU5.3 I2V Clear

Bulb	Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...		
	(W)	(°)	(h)					
MR16	20	36	700	4,000	ICT / 10X5F	50	14715	43072460
MR16	35	36	1,500	4,000	ICT / 10X5F	50	14716	43075560
MR16	50	36	2,100	4,000	ICT / 10X5F	50	14717	43079360

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

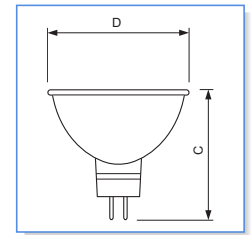
- GU5.3 base for extra retention in luminaire
- 3,000 hour lifetime

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



C	D
max.	max.
46	51

Accentline GU5.3 I2V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)				
20	10	2,200	3,000	ICT / 10X5F	50	6642ECON	41190760
20	36	500	3,000	ICT / 10X5F	50	6644ECON	41199060
35	36	1,000	3,000	ICT / 10X5F	50	6647ECON	41202760
50	24	2,100	3,000	ICT / 10X5F	50	6649ECON	41226360
50	36	1,500	3,000	ICT / 10X5F	50	6650ECON	41205860
50	60	675	3,000	ICT / 10X5F	50	6651ECON	42608660

Aluline III



Product Description

- Low-voltage halogen reflector lamp with high-purity aluminium reflector of III mm

Product Features

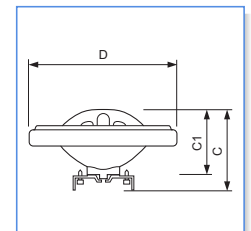
- Metal cap to shield filament to reduce glare and improve beam shape
- G53 socket and screw or tab terminals allowing for direct wire connection with imating eyelet or receptacle
- UV-block quartz glass

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



C	CI	D
max.	max.	max.
67	51	111

Aluline III G53 I2V

Lamp Wattage		Luminous Intensity	Life to 50% failures	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)				
50	8	23,000	3,000	ICT / 6X1F	6	50ALU1118D	42652933
50	24	4,000	3,000	ICT / 6	6	50ALU11124D	42655033
100	24	8,500	3,000	ICT / 6X1F	6	100ALU11124D	42706933

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

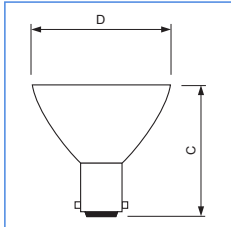
- High-intensity beam with an extremely clearly defined beam spread (clear glass versions only)
- Excellent colour rendering

Product Benefits

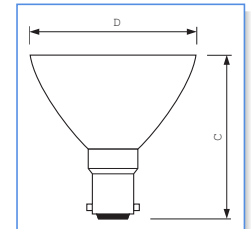
- Excellent accent lighting effects due to reduced spill light (clear versions only)

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

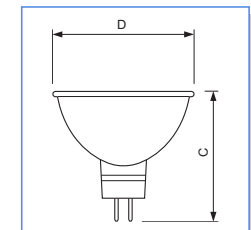
Bulb	Lamp Wattage (W)	Cap-Base	Voltage (V)	Bulb Finish	Beam angle (°)	Luminous Intensity (cd [max.])	Life to 50% failures (h)	Dim. no.	Packing type/Packing configuration	Packing quantity	National Order Code	Ordering number 8711500...
R37	20	BA15d	12	Clear	6	6,400	2,000	1	ICT / 10X5F	50	6433	40194660
R37	20	BA15d	12	Clear	18	1,500	2,000	1	ICT / 10X5F	50	6434	40195360
R37	20	BA15d	12	Frosted	32	350	2,000	1	ICT / 10X5F	50	6435FR	40935560
R56	35	SBC	6	Clear	14	4,400	2,000	2	ICT / 10X5F	50	6430	40198460
R56	50	SBC	12	Clear	10	12,000	2,000	2	ICT / 10X5F	50	6438	40200460
R56	50	SBC	12	Frosted	25	2,000	2,000	2	ICT / 10X5F	50	6439FR	40934860

Halogen I2V 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



C max.	D max.
46	51

Halogen Dichroic 2yr GU5.3 I2V

Lamp Wattage (W)	Beam angle (°)	Luminous Intensity (cd [max.])	Life to 50% failures (h)	Packing type/Packing configuration	Packing quantity	National Order Code	Ordering number 8711500...
35	36	800	2,000	2BC / 10	10	35DIC2YRBP	41328425

LV Halogen without Reflector

MASTERCapsule



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

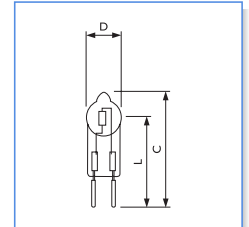
- Retrofit replacement for standard halogen capsules
- High energy savings
- Lower replacement costs due to longer burning hours
- Bright, sparkling white halogen light with excellent colour rendering
- Supports a green environment
- Excellent beam performance
- Lower cost of ownership compared with 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



C	D	L
max.	max.	nom.
44	12	30

MASTERCapsule GY6.35 12V IR Coated

Lamp Wattage	Lamp Luminous Flux	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
(W)	(lm)			
20	420	ICT / 5X10F 50	18160	20353070
30	750	ICT / 5X10F 50	18161	20354770
45	1,250	ICT / 5X10F 50	18162	20355470
60	1,700	ICT / 5X10F 50	18163	20356170

Capsuleline



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

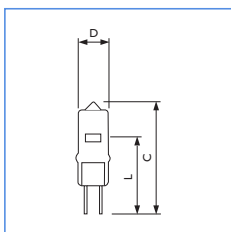
- Excellent colour rendering
- Universal burning position

Product Benefits

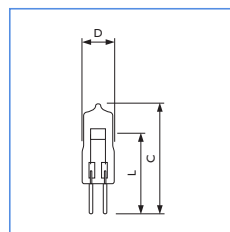
- Low-pressure technology allows use in luminaires without front glass

Application

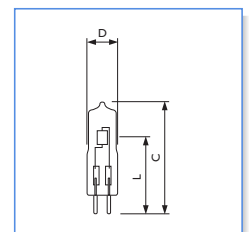
- Task lighting and decorative applications in homes, shops, hotels and restaurants



Dim. no.	C	D	L
	max.	max.	nom.
1	33	10	22.2
2	33	10	22.0
3	44	12	30.0



Dim. no.	C	D	L
	max.	max.	nom.
4	31	9.0	22
5	32	8.8	22
6	32	9.0	24



Dim. no.	C	D	L
	max.	max.	nom.
7	44	12	30

Capsuleline Clear

Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)		(V)	(lm)				
10	G4	12	100	1	ICT / 10X10F 100	14565	41298050
10	G4	12	140	4	ICT / 10X10F 100	13284Q	40970650
20	G4	12	255	2	ICT / 10X10F 100	14566	41299750
20	G4	12	310	5	ICT / 10X10F 100	13078	40210350
20	G4	24	300	6	ICT / 10X10F 100	13091	40962150
20	GY6.35	12	300	7	ICT / 10X10F 100	13104	40219650
35	GY6.35	12	600	7	ICT / 10X10F 100	13103	40218950
50	GY6.35	12	850	3	ICT / 10X10F 100	14567	41295950
50	GY6.35	12	880	7	ICT / 10X10F 100	13102	40217250
75	GY6.35	12	1,575	7	ICT / 10X10F 100	13101	40216550
100	GY6.35	12	2,200	7	ICT / 10X10F 100	13100	40215850

Halogen I2V Capsules 4 Year



Product Description

- Single-ended low-voltage halogen capsule, giving crisp white light and long life (4000h)

Product Features

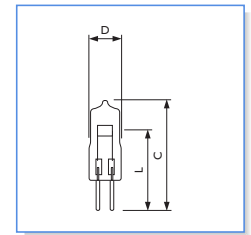
- Superior quality of light with excellent colour rendering ($R_a = 100$)
- Mains voltage lamp, no transformer needed
- Compact size, easy to fit in the luminaries
- Universal burning position
- Instant start

Product Benefits

- Bright, sparkling halogen light to create the right atmosphere
- Fully dimmable, from 0 to 100%, to meet different requirement for brightness level
- Low replacement costs with long lifetime

Application

Excellent light source for general lighting in shops, restaurants, hotels, galleries, exhibitions and museums. Ideal for use in small, decorative luminaries



C	D	L
max.	max.	nom.
32	8.8	22

Halogen Capsules 4yr G4 I2V Clear

Lamp Wattage	Lamp Luminous Flux	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(lm)			
20	310	IBS / 15	13078NBP	41180820

MV Halogen with Reflector

Twistline Alu 3,000 hours



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 3,000 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

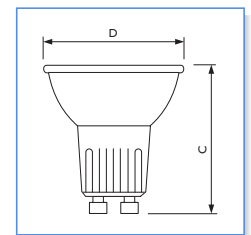
- Aluminium version provides a well defined, homogeneous beam, with no light escaping at the back of the reflector
- No transformers are required, as lamps can be connected directly to the mains supply
- There is less frequent replacement and so less maintenance cost due to increased lifetime
- UV-Block 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.



C	D
max.	max.
51	51

Twistline Alu 3000h GU10 240V Clear

Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)		
50	50	600	3,000	ICT / 10X5F	50
				18032	64947860

Twistline Alu 2,000 hours



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

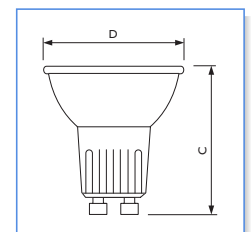
- Distinct MRI6 look
- High and stable light output throughout lifetime
- GU10 bases ensure good retention in the luminaire and easy, 'twist and take out' insertion and replacement
- Built-in double fuses for additional safety at end-of-life

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.



C	D
max.	max.
51	51

Twistline Alu 2000h GU10 240V Clear

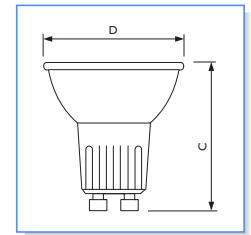
Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)		
35	40	300	2,000	ICT / 50	50
50	20	1,000	2,000	ICT / 10X5F	50
				18042	65280565
				18073	42850960

Halogen Twist 2 Year



Product Description

- Mains-voltage halogen reflector lamp with aluminium reflector 50 mm diameter



C	D
max.	max.
51	51

Halogen Twist 2yr GUI0 240V Clear

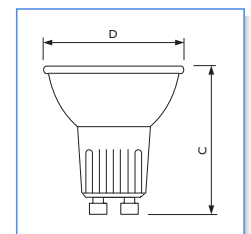
Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)		
50	40	600	2,000	ICT / 10X5F	50
				14605MP	41261460

Halogen Twist 1 Year



Product Description

- Mains-voltage halogen reflector lamp with aluminium reflector



C	D
max.	max.
51	51

Twistline Alu I000h GUI0 240V Clear

Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)		
50	40	600	2,000	3F / 10	10
				50GUI0EPP3P	65095525

HalogenA PAR30S



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

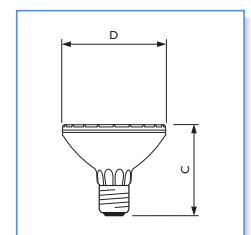
- Flood versions have a faceted front glass to prevent glare and ensure a homogeneous beam distribution
- Front glass protects the lamp for safety and prevents touching and dust deposits

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



C	D
max.	max.
90.5	97

Product Description

- Mains-voltage 97 mm diameter reflector lamp

HalogenA PAR30S ES 240V

Bulb	Lamp Wattage	Luminous Intensity	Life to 50% failures	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)			
PAR30S	75	10	5,525	2,000	ICT / 15	15
				75PAR30SSP	50442520	

MV Halogen without Reflector

EcoClassic A-shape



The new classic light bulb

Philips EcoClassic light bulbs offer the classical shapes you are used to, but with better energy efficiency. This new 'classic' gives high-quality light, is dimmable and starts immediately.

Product Features

- Superior quality of light with excellent colour rendering ($R_a = 100$)
- Mains-voltage lamp, no transformer needed

- Universal burning position
- Instant start

Product Benefits

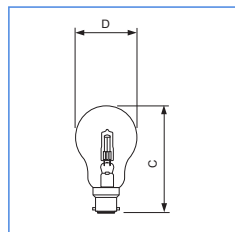
- Identical look and feel to standard lamp, with bright, sparkling halogen light
- Fully dimmable, from 0 to 100%, to meet different brightness requirements
- Double the lifetime of a standard bulb and immediate light when switching on

Environment

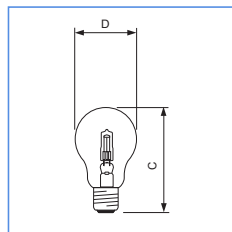
- Excellent environmental choice because of high energy efficiency and long reliable life

Application

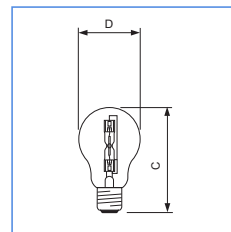
- Accent and general lighting applications in homes, offices, shops, hotels and restaurants. Replacement for traditional bulb in classical luminaires



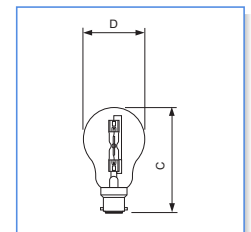
Dim. no.	C	D
	max.	max.
1	95.5	56



Dim. no.	C	D
	max.	max.
2	97	56




Dim. no.	C	D
	max.	max.
3	97	56



Dim. no.	C	D
	max.	max.
4	95.5	56

EcoClassic 240V Clear

Bulb	Lamp Wattage (W)	Cap-Base		Lamp Luminous Flux (lm)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
A55	28	BC	C	370	1	ICT / 10 10	28BCECO30A55	25285925
A55	28	ES	C	370	2	ICT / 10 10	28ESECO30A55	25283525
A55	42	BC	C	630	1	ICT / 10 10	42BCECO30CLA55	25187625
A55	42	ES	C	630	2	ICT / 10 10	42ESECO30CLA55	25179125
A55	53	BC	C	850	1	ICT / 10 10	53BCECO30CLA55	25188325
A55	53	ES	C	850	2	ICT / 10 10	53ESECO30CLA55	25180725
A55	105	ES	C	1,980	3	ICT / 10 10	105ESECO30CLA55	25182125
A55	105	BC	C	1,980	4	ICT / 10 10	105BCECO30CLA55	25190625

EcoClassic Candle B35



The new classic light bulb

Philips EcoClassic Candle light bulbs offer the classical shape you are used to, but with better energy efficiency. This new 'classic' gives high-quality light, is dimmable and starts immediately.

Product Features

- Superior quality of light with excellent colour rendering ($R_a = 100$)
- Mains-voltage lamp, no transformer needed

- Universal burning position
- Instant start

Product Benefits

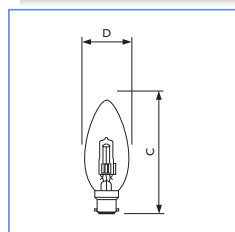
- Identical look and feel to standard lamp, with bright, sparkling halogen light
- Fully dimmable, from 0 to 100%, to meet different brightness requirements
- Double the lifetime of a standard bulb and immediate light when switching on

Environment

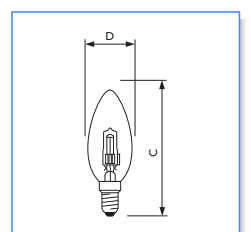
- Excellent environmental choice because of high energy efficiency and long reliable life

Application

- Accent and general lighting applications in homes, offices, shops, hotels and restaurants. Replacement for traditional bulb in classical luminaires




Dim. no.	C	D
	max.	max.
1	94.5	36



Dim. no.	C	D
	max.	max.
2	99.5	36

EcoClassic 240V Clear

Bulb	Lamp Wattage (W)	Cap-Base		Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
B35	18	BC	C	204	2,000	1	ICT / 15 15	18WB22ECOCLAS30	86264500
B35	18	SES	C	204	2,000	2	ICT / 15 15	18WSECOCLAS30	86268300
B35	28	BC	C	370		1	ICT / 15 15	28BCECO30CL	25273620
B35	28	SES	C	370		2	ICT / 15 15	28SESECO30CL	25271220
B35	42	SES	C	630		2	ICT / 15 15	42SESECO30B35CL	82062100
B35	42	BC	C	630		1	ICT / 15 15	42BCECO30B35CL	82050800

EcoClassic P45



The new classic light bulb

Philips EcoClassic light bulbs offer the classical shapes you are used to, but with better energy efficiency. This new 'classic' gives high-quality light, is dimmable and starts immediately.

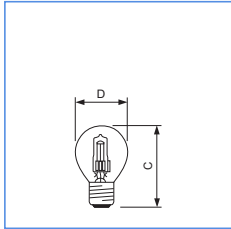
Product Features

- Superior quality of light with excellent colour rendering ($R_a = 100$)
- Mains-voltage lamp, no transformer needed

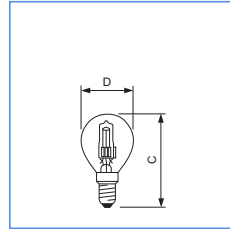
- Universal burning position
- Instant start
- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with standard incandescent lamps
- Excellent colour rendering
- Creates an attractive ambiance
- Dimmable

Application

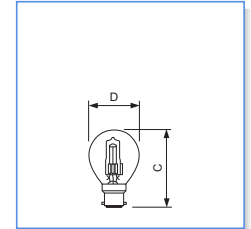
- Accent and general lighting applications in homes, offices, shops, hotels and restaurants. Replacement for traditional bulb in classical luminaires



Dim. no.	C max.	D max.
1	74	46



Dim. no.	C max.	D max.
2	80	46



Dim. no.	C max.	D max.
3	72.5	46

EcoClassic 240V Clear

Bulb	Lamp Wattage (W)	Cap-Base	Energy Star	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
P45	28	ES	C	370	2,000	1	ICT / 20 20	28WE27ECOC-GOLF	86300001
P45	28	SES	C	370	2,000	2	ICT / 20 20	28SESECO30P45CL	83579300
P45	28	BC	C	370	2,000	3	ICT / 20 20	28WB22ECOC-GOLF	86296601
P45	42	ES	C	630	2,000	1	ICT / 20 20	42WE27ECOC-GOLF	86371000

Clickline MV



Product Description

- Single-ended mains-voltage capsule

Product Features

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

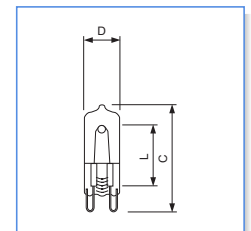
Product Benefits

- 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



C max.	D max.	L nom.
44.6	12.75	21.7

Clickline G9 240V Clear

Lamp Wattage (W)	Energy Star	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
25	E	210	2,000	ICT / 10X10F 100	25CLICKCL	42975950
40	D	490	2,000	ICT / 10X10F 100	40CLICKCL	42981050

Plusline Large (double ended)



Product Description

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

Product Features

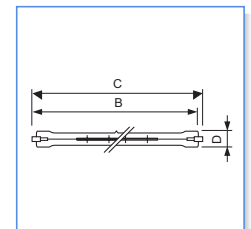
- Double-ended high-efficacy lamps
- Clear tubular quartz bulb
- Reinforced filament supports for maximum safety and shock resistance resulting in longer lifetime
- Limited burning position: $\pm 4^\circ$
- Excellent colour rendering
- Constant light output during life

Product Benefits

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

Application

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



B nom.	C max.	D max.
185.7	189.1	11

Plusline Large R7s 240V Clear

Lamp Wattage (W)	Lamp Luminous Flux (lm)	Life to 50% failures (h)	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
1,000	24,200	2,000	ICT / 10 10	K4	05597225

Starters for Fluorescent Lamps

Ecoclick Starters



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)

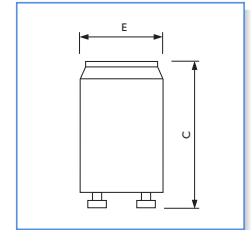
Application

- 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:
 - I10/I30 V, 4-22 W single applications
 - 220/240 V, 4-6-8-15-18-22 W single applications
- S10 Ecoclick starters are suitable for 220/240 V, 4-22 W series applications
- S10 Ecoclick starters are suitable for 220/240 V, 4-6-5 W single applications

- S10 Ecoclick starter is required for 220/240 V, I3 W single application
- S2 Ecoclick starter is recommended for 220/240 V, I8 W single application for optimum performance

System

- Starter replacement recommended when replacing fluorescent lamps



C	E
max.	max.
40.3	21.5

Type	Lamp Wattage (W)	System Description	Voltage (V)	Packing type/Packing configuration		National Order Code	Ordering number 871 1500...
S2	4-22	Series	220-240	UNP / 1,000	1,000	S21000W	69750928
S2	4-22	Series	220-240	INO / 20X10CT	200	S210W	69750931
S10	4-65	Single	220-240	UNP / 1,000	1,000	S101000W	69769128
S10	4-65	Single	220-240	INO / 20X10CT	200	S1010W	69769131

Starters for tanning lamps



Philips tanning starters: a complete range of easy-to-install eco-friendly starters for tanning lamps operating on a conventional electromagnetic ballast

Range of premium-quality starters for igniting fluorescent lamps operating on electromagnetic ballasts

Product Features

- Narrowed starter shape and two extra notches (patented innovation)
- Flame-retardant components and UV-resistant canister
- Lead-free, and no radioactive substances

Product Benefits

- Easy to install (click and switch)
- Safe ignition
- Eco-friendly

Environment

- No radioactive substances
- No lead

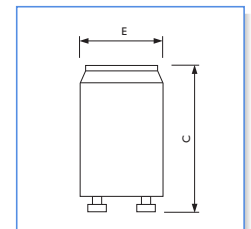
Application

- Ignite fluorescent lamps (all brands) operating on a conventional electromagnetic ballast.
- Bodytone Starter I5-20 W - I10-I30 V , 15-20 W, Single application
- Bodytone Starter I5-20 W - 220-240 V , 15-20 W, Single/Series application
- Bodytone Starter 25-100 W - 220-240 V , 25-100 W, Single application
- Bodytone Starter I20-I80 W - 220-240 V , I20-I80 W, Single application

- S12 Bodytone Starter I15-I40 W - 220-240 V , I15-I40 W, Single application
- S16 Starter 220-240 , 70, 75, 85, 100, 125 W, Single application

Warnings and Safety

- Flame-retardant components
- UV-resistant canister



C	E
max.	max.
40.3	21.5

Type	Lamp Wattage (W)	System Description	Voltage (V)	Packing type/Packing configuration		National Order Code	Ordering number 871 1500...
S12	I15-I40	Single	220-240	UNP / 20X25CT	500	S12250WBNEW	90379226
S16	70-125	Single	240	UNP / 1,000	1,000	S161000WBNEW	90356328
S16	70-125	Single	240	UNP / 20X10CT	200	S1610WBNEW	90356331

Infrared Lamps

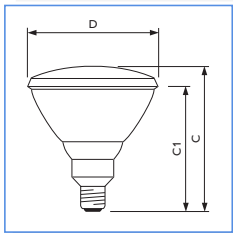
InfraRed Incandescent

InfraRed Industrial Heat Incandescent



Instant heat exactly where and when needed

The Philips infrared incandescent reflector lamps are designed to work in the toughest environment such as farm, bathroom or kitchen and their nearest surrounding. They have a reinforced construction thanks to hard glass use. Their compact form and universal cap base allow them to be used with any suitable equipment. A very good method of generating warmth is by using heat lamps. The Philips infrared lamps provide direct, draught-free warmth to the animals, people, but also food. These benefits have made farmers, consumers and cooks around the world choose Philips infrared lamps, because they are the sturdiest, most efficient lamps available for these applications.



Dim. no.	C max.	Cl max.	D nom.
1	136	124	121

Product Features

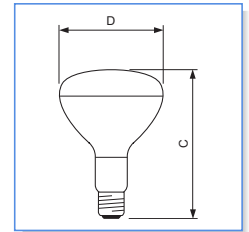
- Robust and sturdy hard glass construction of entire range of infrared reflectors.
- Reflector shape allows concentrated heat to be applied to where it is needed.
- The design of PAR38 incorporates a completely sealed reflector and therefore high efficiency.
- More hassle free and handy replacement period thanks to long durability of infrared lamps
- Red-coloured lamps to reduce visual light emission and glare.

Product Benefits


- 30% extra energy saving with PAR thanks to its unique reflector system
- Simple and safe heat source with no risk of broken glass
- 90% of energy is transmitted as infrared heat.

Application

- Agricultural: breeding and rearing of pigs, poultry, calves, foals, dogs etc. as well as in veterinary clinics, zoos, pet shops.
- General radiant heating, e. g. hot food displays, cooker hoods, bathrooms, space heating etc.
- Industrial heating, e. g. drying, baking, carbonising, melting etc.



Dim. no.	C max.	D nom.
2	179	125

Type	Lamp Wattage (W)	Cap-Base	Voltage (V)	Bulb Finish	Burning Position	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
PAR38 IR	100	ES	240	Clear	any	1	ICT / 12	12	IR100C	128935/5
PAR38 IR	175	ES	240	Clear	any	1	ICT / 12	12	IR175C	128959/5
R125 IR	250	ES	230-250	Clear	any	2	ICT / 10	10	IR250CH	12649825
R125 IR	300	ES	230-250	Clear	any	2	ICT / 10	10	IR300CH	12656625



Incandescent Lamps

Tubular (T-shape)

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

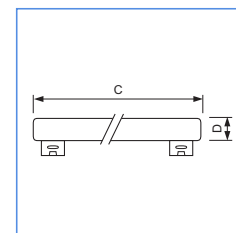
Product Benefits

- 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 (W)	Lamp Luminous Flux (lm)	Energy Efficiency Class	Average Lifetime (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
T30	35	270	F	1,000	1	ICT / 25 25	35S14SPHZP	05690040
T30	60	420	G	1,000	2	ICT / 25 25	60S14SPHZP	05693140

GLS Specialties

Standard Extra Low Voltage A60



Product Description

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

Product Features

- Types till 42 V are safer in combination with a mains power supply transformer

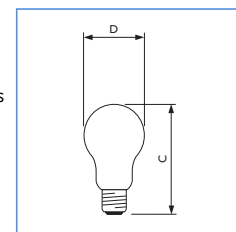
Product Benefits

- Provide the perfect light for dramatic accents and display lighting as well as general lighting in a variety of applications

- Gas-filled lamp has a clear glass are ideally suited for remote, isolated areas where energy has to be supplied by private generating plants, batteries or other low-voltage sources
- Used when brilliance is an advantage

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 50V

Bulb	Lamp Wattage (W)	Average Lifetime (h)	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
A60	60	1,000	ICT / 12X10F 120	5060ESCP	10188484

Nightlight



Product Description

- Incandescent lamp applied as night light

Product Features

- Extra strong single-coil filament
- In low wattages available
- Suitable for operation between 220 V and 250 V

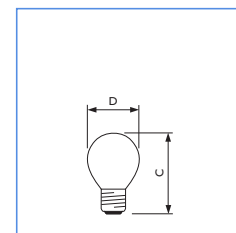
Product Benefits

- Subdued light with low energy consumption

- Long service life (4,000 - 6,000 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 max.	D nom.
74	46

Nightlight ES Frosted 220-250V

Bulb	Lamp Wattage (W)	Energy Efficiency Class	Average Lifetime (h)	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
P45	11	C	2,000	ICT / 10X10F 100	11ESNIGHT	94919300

Domestic Appliances

Appliance Oven Tubular



Product Description

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

Product Features

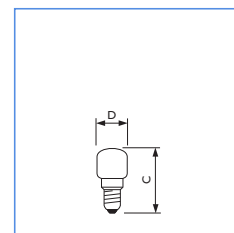
- Coiled-coil filament
- Manufactured with heat-resistant solder, getter and lamp-base cement

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		Average Lifetime	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number
	(W)	(lm)		(h)					8711500...
T22	15	90	F	1,000	1	ICT / 10X10F	100	15SESOZP	03659950
T25	25	172	F	1,000	2	ICT / 10X10F	100	25SESOZP	03871550

Appliance Oven P45



Product Description

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

Product Features

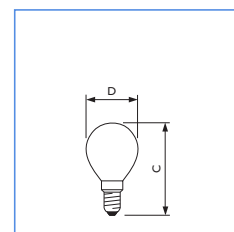
- Coiled-coil filament
- Manufactured with heat-resistant solder, getter and lamp-base cement

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 max.	D nom.
78	45

Appliance SES Clear 240V

Bulb	Lamp Wattage	Lamp Luminous Flux		Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number
	(W)	(lm)		(h)				8711500...
P45	40	420	E	1,000	ICT / 10X10F	100	40SESOZ	03545550

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

Reflector diam 50 mm



Product Description

- Reflector lamps based on advanced spotlighting technology

Product Features

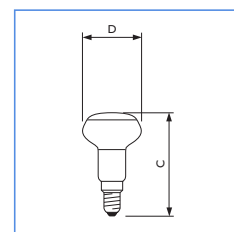
- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires
- Direct replacement for conventional reflector lamps of all kinds
- Easy fitting and removal thanks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

Product Benefits

- Centre-beam intensities up to 100% higher than with conventional reflector lamps

Application

- All the benefits of high-performance, high-efficiency spotlighting, simply by replacing conventional reflector lamps with ring mirror lamps of the same size and wattage
- Display lighting in shops, hotels, restaurants and homes



C max.	D nom.
86	50

Reflector SES Frosted 240V

Bulb	Lamp Wattage		Luminous Intensity	Average Lifetime	Packing type/Packing configuration		National Order Code	Ordering number
	(W)	(°)	(cd [max.])	(h)				8711500...
NR50	40	30	400	1,000	ICT / 30	30	40SESR50SPZP	37986378

Reflector diam 63 mm



Product Description

- Reflector lamps based on advanced spotlighting technology

Product Features

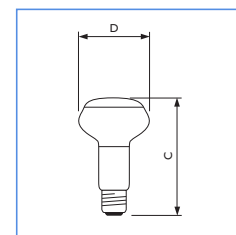
- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires
- Direct replacement for conventional reflector lamps of all kinds
- Easy fitting and removal thanks 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	Beam Description	Luminous Intensity	Average Lifetime	Packing type/Packing configuration	National Order Code	Ordering number
	(W)	(°)	(cd [max.])	(h)			8711500...
NR63	60	30	750	1,000	ICT / 30	30	60ESR63SPZP 37988778

PAR38



Product Description

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

Product Features

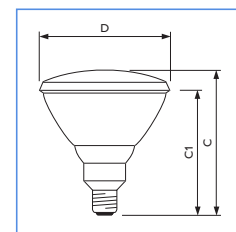
- Spot versions have a stippled front reflector producing a narrow, homogeneous beam
- Flood versions have a front refractor composed of prismatic elements

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	CI	D
max.	nom.	nom.
137	123	121

PAR38 ES 24V

Bulb	Lamp Wattage	Beam Description	Beam Angle	Luminous Intensity	Lamp Luminous Flux	Average Lifetime	Packing type/Packing configuration	National Order Code	Ordering number
	(W)		(°)	(cd [max.])	(lm)	(h)			8711500...
PAR38	120	Spot	10	23,000	1,550	2,000	ICT / 12	12	24120ESPAR38 38073915

PAR56



Product Description

- Extremely powerful pressed-glass 179 mm diameter reflector lamps

Product Features

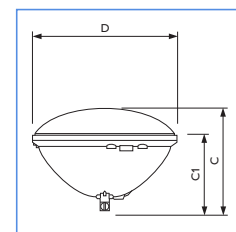
- Made of heat-resistant glass
- Special sturdy, shock-resistant 12 V version available for underwater applications
- 12 V lamp has screw terminals for secure connection because of the high running current (25 A)

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



C	CI	D
max.	nom.	nom.
127.5	98	179

PAR56 Multipurpose 12V

Lamp Wattage	Beam Description	Luminous Intensity	Average Lifetime	Packing type/Packing configuration	National Order Code	Ordering number
(W)	(°)	(cd [max.])	(h)			8711500...
300	40	16,000	1,500	ICT / 8	8	12300PAR56FL 1596942

Electronic Control Gear

HID

HID Electronic Indoor

AspiraVision DALI for CDM Elite Light Boost



AspiraVision DALI Compact (70 W) for CDM Elite Light Boost - The electronic gear with brains

Excellence enhanced by innovation – AspiraVision HID electronic gear with DALI interface for dimming and boosting of CDM Elite Light Boost lamps

Product Features

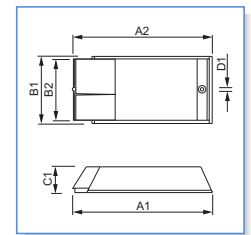
- DALI interface
- SOFT START feature
- Loop Through feature
- Improved thermal performance
- Voltage Drop Detection

Product Benefits

- Dim and boost Elite Light Boost lamps for energy saving and attraction lighting
- SOFTSTART allows installation with fewer circuit breakers
- Loop Through allows faster, cost-efficient installation

Applications

- 70 W: accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



AI	A2	BI	B2	CI	DI
nom.	nom.	nom.	nom.	nom.	nom.
188	170	82.7	63.7	34.5	4.8

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Packing type/ Packing configuration	National Order Code	Ordering number
	(V)	(Hz)	(x)			8727900...
HID-AV C DALI 70 /I CDM	220-240	50/60	32	INO / 12 12	HIDAVCDALI70	94400600

AspiraVision Compact for CDM



AspiraVision Compact (35, 50 & 70 W) for CDM – The smart electronic gear

AspiraVision is the mark of excellence in HID electronic gear technology – high-end, compact, lightweight and easy to use, with added features for optimal performance of 35, 50 and 70 W CDM lamps.

The recently added switching function provides maximum flexibility for users by integrating three different wattage choices into a single driver.

Product Features

- SOFT START
- Loop Through (in independent version)
- Improved thermal performance
- Low electromagnetic interference
- Voltage drop detection

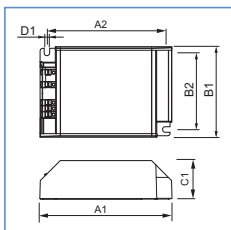
Product Benefits

- SOFT START allows installation with fewer circuit breakers; Loop Through allows faster, cost-efficient installation
- Longer lifetime

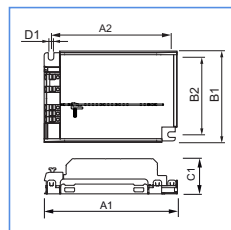
- Driver can be set to 35, 50 or 70 W with the integrated switch, which means there is no need to replace the driver if the installation requires lower or higher-wattage lamps in the future

Applications

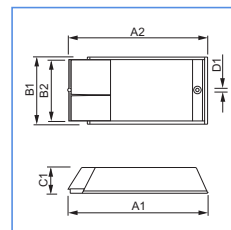
- Accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



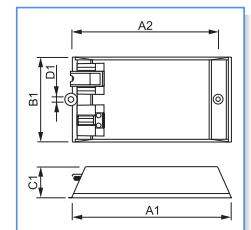
Dim. no.	A1	A2	BI	B2	CI	DI
	nom.	nom.	nom.	nom.	nom.	nom.
1	110	98.5	75	63.5	32.1	4.5



Dim. no.	A1	A2	BI	B2	CI	DI
	nom.	nom.	nom.	nom.	nom.	nom.
2	110	98.5	75	63.5	32.1	4.5



Dim. no.	A1	A2	BI	CI	DI
	nom.	nom.	nom.	nom.	nom.
3	189.2	170.7	83.5	34.7	4.8



Dim. no.	A1	A2	BI	CI	DI
	nom.	nom.	nom.	nom.	nom.
4	162.2	143	82.9	32.4	4.8

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
	(V)	(Hz)	(x)				8718291...
HID-AV C 35-70 /S CDM	220-240	50/60	58	1	INO / 12 12	HIDAVTW3570S	23310700
HID-AV C 35-70 /P CDM	220-240	50/60	58	2	INO / 12 12	HIDAVTW3570P	65008900
HID-AV C 35-70 /I CDM	220-240	50/60	58	3	INO / 12 12	HIDAVTW3570I	23312100
HID-AV C 35-70 /C CDM	220-240	50/60	58	4	INO / 12 12	HIDAVTW3570C	23314500

PrimaVision Compact for CDM



PrimaVision Compact (35 W, 50 W & 70 W) for CDM - High quality and robust performance

High-quality, compact and lightweight HID electronic gear for optimal and reliable performance of 35, 50 and 70 W CDM lamps

Product Features

- Minimal lamp power spread
- Low gear energy losses
- Lamp end-of-life detection

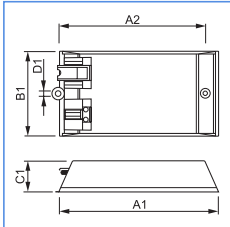
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 hours

Product Benefits

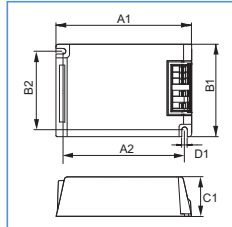
- Optimal lamp performance thanks to minimal lamp power tolerance
- CDM lamp life increased by up to 30%
- Eliminates all visible lamp flicker

Applications

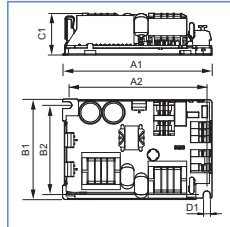
- Accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



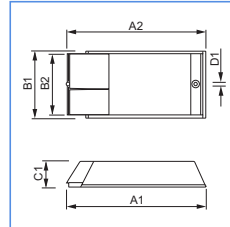
Dim. no.	A1	A2	B1	C1	D1
1	162.2	143	83	32.4	4.8



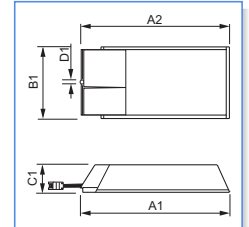
Dim. no.	A1	A2	B1	B2	C1	D1
2	109.6	98.5	74.4	63.7	32.2	4.9
3	109.6	98.5	74.4		32.2	4.9



Dim. no.	A1	A2	B1	B2	C1	D1
4	106.6	98.5	71.6	63.7	29.6	4.9
5		98.5	71.6	63.7	29.6	4.9



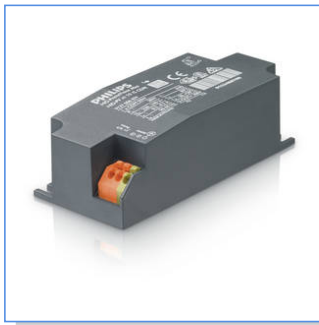
Dim. no.	A1	A2	B1	C1	D1
6	188	170	82.7	34.5	4.8



Dim. no.	A1	A2	B1	C1	D1
7	188	170	82.7	34.5	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
HID-PV C 35 /C CDM	220-240	50/60	24	1	INO / 12	HIDPVC35C	8718291 22857800
HID-PV C 35 /S CDM	220-240	50/60	24	2	UNP / 12	PVC035SCDM	8727900 85962100
HID-PV C 35 /P CDM	220-240	50/60	24	4	UNP / 12	PVC035PCDM	8727900 86554700
HID-PV C 35 /I CDM	220-240	50/60	24	6	INO / 12	PVC035ICDM	8727900 85973700
HID-PV C 35 /G CDM	220-240	50/60	24	7	INO / 6	PVC35GCDM	8727900 91642300
HID-PV C 50 /C CDM	220-240	50/60	24	1	INO / 12	HIDPVC50C	8718291 22845500
HID-PV C 50 /S CDM	220-240	50/60	24	3	INO / 12	PVC050SCDM	8727900 93363500
HID-PV C 50 /P CDM	220-240	50/60	24	5	INO / 12	PVC050PCDM	8727900 94338200
HID-PV C 50 /I CDM	220-240	50/60	24	6	INO / 12	PVC050ICDM	8727900 93365900
HID-PV C 70 /S CDM	220-240	50/60	20	2	INO / 12	PVC070SCDM	8727900 85974400
HID-PV C 70 /P CDM	220-240	50/60	20	4	UNP / 12	PVC070PCDM	8727900 86553000
HID-PV C 70 /I CDM	220-240	50/60	20	6	INO / 12	PVC070ICDM	8727900 85988100
HID-PV C 70 /G CDM	220-240	50/60	20	7	INO / 6	PVC70GCDM	8727900 91644700

PrimaVision Mini for CDM



PrimaVision Mini (20 W, 35 W & 50 W) for CDM - Miniature size to enhance creativity

Miniature HID electronic gear for CDM lamps – freeing up the boundaries of creativity and innovation in luminaire design

Product Features

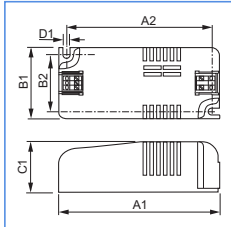
- Loop Through feature (in independent version)
- Smallest gear and highest wattage in miniature size

- Minimal lamp power spread
 - Microprocessor-controlled
 - Lamp end-of-life detection
 - High Tambient and Tcase temperatures
 - Long lifetime of 40,000 hours
- ### Product Benefits
- Miniaturization enables stylish luminaire design and retrofit halogen replacement

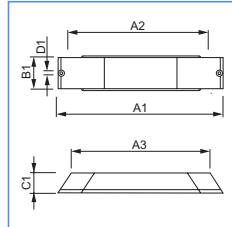
- Optimal lamp performance thanks to minimal lamp power tolerance
- Easy luminaire design-in

Applications

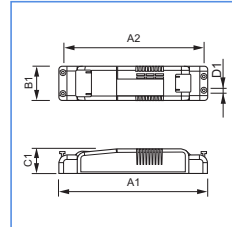
- 20/35/50 W accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



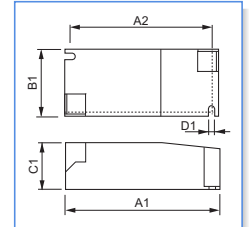
Dim. no.	A1	A2	B1	C1	D1
1	97.3	88.3	43.3	30.0	4.2
2	97.3	88.3	43.3	30.5	4.2



Dim. no.	A1	A2	A3	B1	C1	D1
3	234.7	225.1	202	49.4	34	4.8



Dim. no.	A1	A2	B1	C1	D1
4	190	154	43.3	30	4.2



Dim. no.	A1	A2	B1	C1	D1
5	97.3	88.3	43.3	30.2	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
HID-PV m 20 /S 20 Standard HPF CDM	220-240	50/60	24	1	UNP / 12 12	PVM20SHPF	8727900 89063100
HID-PV m 20 /I 20 Independent HPF CDM	220-240	50/60	24	3	UNP 10	PVM20IHPF	8727900 89060000
HID-PV m PGJ5 20 20 /I LPF CDM	220-240	50/60	48	4	INO / 12 12	HIDPVMPGJ5020I	8711500 90981730
HID-PV m PGJ5 20 20 /S LPF CDM	220-240	50/60	36	1	INO / 12 12	HIDPVMPGJ5020S	8711500 53608230
HID-PV m 35/I 35 Independent HPF CDM	220-240	50/60	24	3	UNP 10	PVM35I	8727900 89164500
HID-PV m 35 /S 35 Standard HPF CDM	220-240	50/60	24	2	UNP / 12 12	PVM35S	8727900 88341100
HID-PV m 20 /S 50 /S HPF CDM	220-240	50/60	48	5	INO / 12 12	PVM20SHPF	8718291 67159600
HID-PV m 35 /S 50 /S HPF CDM	220-240	50/60	24	5	INO / 12 12	PVM35S	8718291 67161900

PrimaVision Twin for CDM



PrimaVision Twin (35 W & 70 W) for CDM - The cost-effective solution

Dual CDM lamp operation, single HID electronic gear – improves cost effectiveness and increases luminaire design flexibility

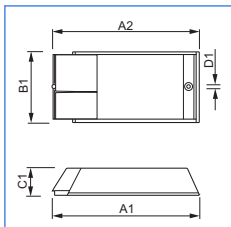
Product Features

- Single gear for two lamps
- Loop Through feature (in independent version)
- Minimal lamp power spread

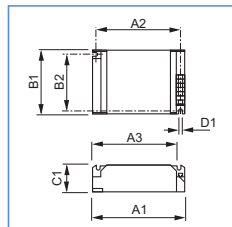
- Low gear energy losses
 - Lamp end-of-life detection
 - High Tambient and Tcase temperatures
 - Long lifetime of 40,000 hours
- ### Product Benefits
- Cost-effective, plus design flexibility
 - Optimal lamp performance thanks to minimal lamp power tolerance
 - Lamp life increased by up to 30% for CDM lamps

Applications

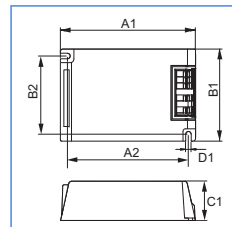
- 35 and 70 W: accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



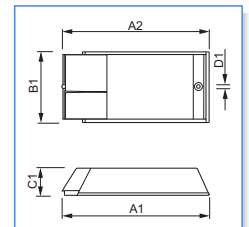
Dim. no.	A1	A2	B1	C1	D1
1	245	226	94	35	4.5



Dim. no.	A1	A2	B1	B2	C1	D1
2	135	123.5	75	63.5	32	4.5



Dim. no.	A1	A2	B1	B2	C1	D1
3	165	153	90	80	32	4.5



Dim. no.	A1	A2	B1	C1	D1
4	245	226	94	35	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
HID-PV C 35 /I CDM	220-240	50/60	20	1	UNP / 6 6	PVC2X35ICDM	89704300
HID-PV C 35 /S Int. Earth Loop CDM	220-240	50/60	14	2	UNP / 12 12	PVC2X35SCDM	89572800
HID-PV C 70 /S CDM	220-240	50/60	10	3	UNP / 12 12	HIDPVC270S	84579200
HID-PV C 70 /I CDM	220-240	50/60	10	4	UNP / 6 6	HIDPVC270I	84580800

PrimaVision Power for CDM



PrimaVision Power (100 W & 150 W) for CDM - High power packed in a small size

PrimaVision Power gear is designed for optimal performance of 100 and 150 W CDM lamps – ideal where high-intensity light is key.

Product Features

- Loop Through feature (in independent version)
- Low gear energy losses
- Lamp end-of-life detection

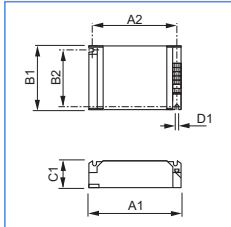
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 hours

Product Benefits

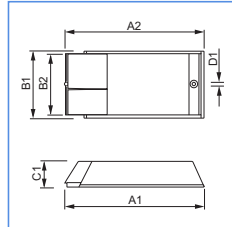
- Optimal lamp performance thanks to minimal lamp power tolerance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker

Applications

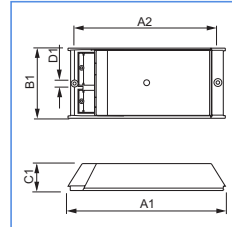
- 100 and 150 W: high-bay area, accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



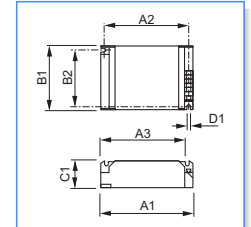
Dim. no.	A1	A2	B1	B2	C1	D1
1	135	123.5	75	63.5	32	4.5



Dim. no.	A1	A2	B1	B2	C1	D1
2	223.9	206	82.7	38.6	34.2	4.8



Dim. no.	A1	A2	B1	C1	D1
3	223.9	206	82.7	34.2	4.8



Dim. no.	A1	A2	B1	B2	C1	D1
4	135	123.5	75	63.5	32	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
HID-PV C 100 /S CDM	220-240	50/60	17	1	UNP / 12 12	PVC100SCDM	872790089762300
HID-PV C 100 /I CDM	220-240	50/60	17	2	UNP / 10 10	PVC100ICDM	872790089951100
HID-PV C 150 /I CDM	220-240	50/60	6	3	UNP / 10 10	HIDPVC150I	871150091287930
HID-PV C 150 /S CDM	220-240	50/60	6	4	UNP / 12 12	HIDPVC150S	871150091052330

PrimaVision for SDW-TG



PrimaVision SDW-TG (50 W & 100 W) for SDW-TG - High quality and robust performance

Robust, lightweight and one-piece HID electronic gear for SDW-TG lamps (mini White SON)

Lightweight, one-piece electronic gear for 50 and 100 W SDW-TG lamps (mini White SON)

Product Features

- Available as Standard (/S) version 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 hours

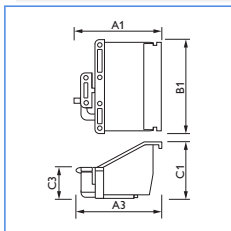
Product Benefits

- Optimal lamp performance thanks to minimal lamp power tolerance

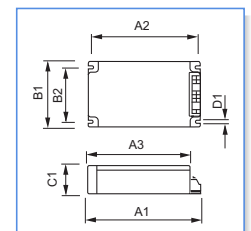
- Reduces colour differences between lamps and initial lumen spread
- Performance is independent of mains voltage

Applications

- Shop lighting, for a cozy atmosphere (e. g. in furniture shops) and excellent display of fresh goods (e. g. in butcher's shops, bakeries, florists)
- Suitable for indoor use only



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



Dim. no.	A1	A2	B1	B2	C1	D1
2	150	133.6	90	70	37	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
RELIEF				1	INO / 10 10	HIDPVCOVER	871150053986130
HID-PV 50 /S SDW-TG	220-240	50/60	24	2	UNP 10	PV50SSDWTG	872790088753200
HID-PV 100 /S SDW-TG	220-240	50/60	14	2	UNP 10	PV100SSDWTG	872790088754900

HID Electronic Outdoor PrimaVision Xtreme for CPO



HID-PrimaVision Xtreme for CPO - Xtreme drivers for the highest reliability

Highly reliable electronic drivers for CPO lamps; designed to save energy by offering better light efficiency than magnetic drivers and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection

Product Features

- Xtreme long lifetime of 80,000 hours, with minimum 90% survival at $T_c = 80^\circ\text{C}$

- Xtreme lightning protection 10 kV/5 kA
- Xtreme protection against humidity and vibration
- Better lighting efficiency than magnetic ballasts
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

- Together with the CPO lamp the driver creates the most efficient white-light system in the industry in its power range

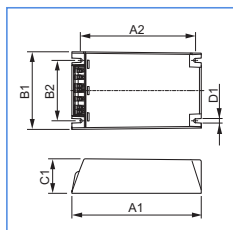
- Up to 15% energy saving due to the high driver efficiency (92%) and better wattage control at overvoltage (compared with magnetic ballasts)
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

Environment

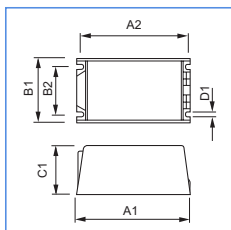
- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

Applications

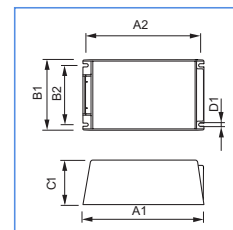
- Residential lighting
- City beautification
- Road/highway lighting



Dim. no.	A1	A2	B1	B2	C1	D1
1	150	133.6	90	70	40	4.5



Dim. no.	A1	A2	B1	B2	C1	D1
2	150	135.9	65	46.8	65	5



Dim. no.	A1	A2	B1	B2	C1	D1
3	169	156	65	81.5	58	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(1.6A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
HID-PV Xt 45 CPO Q	208-277	50/60	5	1	INO / 12 12	PVXT45CPOQ	871829166896100
HID-PV sXt 45 /S CPO	208-277	50/60	11	2	INO / 12 12	PVSTXT45CPO	872790091585300
HID-PV Xt 60 CPO Q	208-277	50/60	11	1	INO / 12 12	PVXT60CPOQ	871829124143000
HID-PV Xt 90 CPO Q	208-277	50/60	5	1	INO / 12 12	PVXT90CPOQ	871829124145400
HID-PV Xt 140 CPO Q	208-277	50/60	5	1	INO / 12 12	PVXT140CPOQ	871829124147800
HID-PV Xt 210 CDMe/CPO C2	208-277	50/60	13	3	INO / 6 6	PVXT210CDMCPQ	871829121993400

DynaVision LumiStep Xtreme for CPO



HID-DynaVision LumiStep Xtreme for CPO - Integrated one-step dimming for easy cost savings

Highly reliable electronic drivers for CPO lamps; designed to save energy via integrated one-step dimming and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection

Product Features

- Integrated step dimming function from 100% down to 50% light (60% power) within three pre-programmed cycles - 6, 8 and 10 hours
- Xtreme long lifetime of 80,000 hours with minimum 90% survival at $T_c = 80^\circ\text{C}$
- Xtreme lightning protection 10 kV/5 kA

- Xtreme protection against humidity and vibration
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

- Together with the CPO lamp the driver creates the most efficient white-light system in the industry in its power range

- Up to 25% energy saving due to the integrated one-step dimming and very high driver efficiency (92%)

- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

Environment

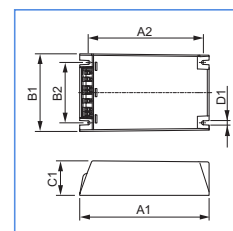
- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

Applications

- Residential lighting
- City beautification
- Road lighting
- Highway

System

- Designed for optimum system performance with Philips CosmoWhite lamps



A1	A2	B1	B2	C1	D1
150	133.6	90	70	40	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(1.6A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number
HID-DV LS-8 Xt 45 CPO Q	208-277	50/60	11	INO / 12 12	DVLSXT845CPOQ	871829166898500
HID-DV LS-6 Xt 45 CPO Q	208-277	50/60	11	INO / 12 12	DVLSXT645CPOQ	66906700
HID-DV LS-8 Xt 60 CPO Q	208-277	50/60	11	INO / 12 12	DVLSXT860CPOQ	66900500
HID-DV LS-6 Xt 60 CPO Q	208-277	50/60	11	INO / 12 12	DVLSXT660CPOQ	66908100
HID-DV LS-8 Xt 90 CPO Q	208-277	50/60	5	INO / 12 12	DVLSXT890CPOQ	66902900
HID-DV LS-6 Xt 90 CPO Q	208-277	50/60	5	INO / 12 12	DVLSXT690CPOQ	66910400
HID-DV LS-8 Xt 140 CPO Q	208-277	50/60	5	INO / 12 12	DVLSXT8140CPOQ	66904300
HID-DV LS-6 Xt 140 CPO Q	208-277	50/60	5	INO / 12 12	DVLSXT6140CPOQ	66912800

PrimaVision Xtreme for SON



Product Description

Highly reliable electronic drivers for SON lamps designed for saving energy via better light efficiency compared to magnetic drivers and for saving on maintenance costs thanks to a lifetime of up to 80,000 hours and the integrated Lightning protection.

Product Features

- Xtreme long lifetime of 80,000 hours with minimum 90% survival at a case temperature of 80°C
- Xtreme lightning protection (10 kV / 5 kA)
- Xtreme protection against humidity and vibration

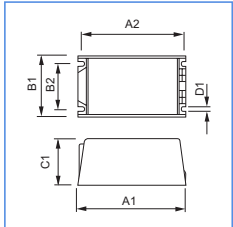
- Better lighting efficiency compared to magnetic ballasts
- Accurate lamp power stabilization of 95-97% over wide mains voltage range of 180-300 V

Product Benefits

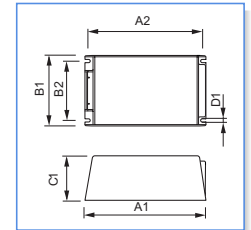
- Up to 15% energy saving due to the high driver efficiency (92%) and better wattage control at overvoltage (when compared to magnetic ballasts)
- Minimizes maintenance cost due to the Xtreme lifetime of 80,000 hours and the integrated Lightning (lighting?) Protection
- Better light quality as the PrimaVision Xtreme gears enable perfect output uniformity across the lighting network and solve the flickering effect (created by magnetic ballasts)

Applications

- Residential lighting
- City beautification
- Road and highway lighting



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	150	135.9	65	46.8	65	5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	169	156	65	81.5	58	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
HID-PV Xt 50 /S SON	208-277	50/60	11	1	INO / 12 12	PVXT50SON	18474400
HID-PV Xt 70 /S SON	208-277	50/60	11	1	INO / 12 12	PVXT70SON	18476800
HID-PV Xt 100 /S SON	208-277	50/60	5	1	INO / 12 12	PVXT100SON	18478200
HID-PV Xt 150 /S SON	208-277	50/60	5	1	INO / 12 12	PVXT150SON	18480500
HID-PV Xt 250 SON C2	208-277	50/60	11	2	INO / 6 6	PVXT250SON	22271200

EXC for SOX



HID-EXC for SOX

Electronic drivers for SOX lamps; designed to save energy and reduce maintenance costs

Product Features

- Up to 93% system efficiency
- Constant light output at mains voltages between approximately 200 and 255 V
- One compact component
- Slim cross-section and low weight
- Single-insert contacts

Product Benefits

- Provides equivalent light output to conventional technologies, with up to 36% lower energy consumption

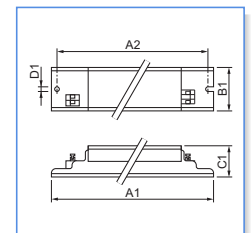
- Replaces electromagnetic ballast, ignitor and capacitor
- Easy design-in due to slim cross-section and low weight; easy installation and cabling

Environment

- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

Applications

- Residential lighting
- City beautification
- Road lighting



A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
280	265	40	28	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
EXC 35 EII SOX	220-240	50/60	30	UNP / 25 25	EXC035S50	06238330
EXC 36 EII SOX-E	220-240	50/60	30	UNP / 25 25	EXC036S50	06240630
EXC 55 EII SOX	220-240	50/60	22	UNP / 25 25	EXC055S50	06242030

DynaVision LumiStep Xtreme for SON



Integrated one-step dimming for easy cost savings

Highly reliable electronic drivers for SON lamps; designed to save energy via integrated one-step dimming (LumiStep) and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection

Product Features

- Integrated step dimming function from 100% down to 50% light (60% power) within two pre-programmed cycles: 6 and 8 hours
- Xtreme long lifetime of 80,000 hours with minimum 90% survival at $T_c = 80^\circ\text{C}$

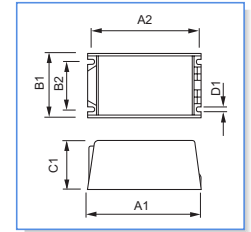
- Xtreme lightning protection 10 kV/5 kA
- Xtreme protection against humidity and vibration
- Accurate lamp power stabilization of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

- Together with the new SON extra lamp the driver creates the most efficient light system in the industry in its power range
- Up to 25% energy saving due to the integrated one-step dimming and very high driver efficiency (92%)
- Minimizes maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lighting protection

Applications

- Residential lighting
- City beautification
- Road and highway lighting



AI	A2	BI	B2	CI	DI
nom.	nom.	nom.	nom.	nom.	nom.
150	135.9	65	46.8	65	5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
HID-DV LS-6 Xt 50 /S C1 SON	208-277	50/60	11	INO / 12 12	DVXTLS650SON	20475600
HID-DV LS-8 Xt 50 /S C1 SON	208-277	50/60	11	INO / 12 12	DVXTLS850SON	20477000
HID-DV LS-6 Xt 70 /S C1 SON	208-277	50/60	11	INO / 12 12	DVXTLS670SON	20479400
HID-DV LS-8 Xt 70 /S C1 SON	208-277	50/60	11	INO / 12 12	DVXTLS870SON	20481700
HID-DV LS-6 Xt 100 /S C1 SON	208-277	50/60	5	INO / 12 12	DVXTLS6100SON	20483100
HID-DV LS-8 Xt 100 /S C1 SON	208-277	50/60	5	INO / 12 12	DVXTLS8100SON	20485500
HID-DV LS-6 Xt 150 /S C1 SON	208-277	50/60	5	INO / 12 12	DVXTLS6150SON	20487900
HID-DV LS-8 Xt 150 /S C1 SON	208-277	50/60	5	INO / 12 12	DVXTLS8150SON	20493000

PrimaVision Xtreme for CDO



Xtreme drivers for the highest reliability

Highly reliable electronic drivers for CDO lamps; designed to save energy by offering better light efficiency than magnetic drivers and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection

Product Features

- Xtreme long lifetime of 80,000 hours, with minimum 90% survival at $T_c = 80^\circ\text{C}$

- Xtreme lightning protection 10 kV/5 kA
- Xtreme protection against humidity and vibration
- Better lighting efficiency than magnetic ballasts
- Accurate lamp power stabilization of 95-97% over wide mains-voltage range of 180-300 V

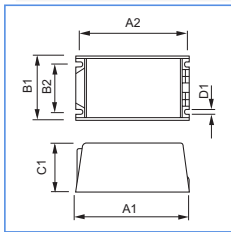
Product Benefits

- Together with the CDO lamp the driver creates efficient white-light with best initial cost

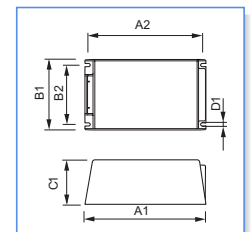
- Up to 10% energy saving due to the high driver efficiency (92%) and better wattage control at overvoltage (compared with magnetic ballasts)
- Minimizes maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

Applications

- Residential lighting
- City beautification
- Road/highway lighting



Dim. no.	A1	A2	BI	B2	CI	DI
1	150	135.9	65	46.8	65	5



Dim. no.	A1	A2	BI	B2	CI	DI
2	169	156	65	81.5	58	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
HID-PV Xt 50 /S C1 CDO	208-277	50/60	11	1	INO / 12 12	PVXT50CDO	20517300
HID-PV Xt 70 /S C1 CDO	208-277	50/60	11	1	INO / 12 12	PVXT70CDO	20519700
HID-PV Xt 100 /S C1 CDO	208-277	50/60	5	1	INO / 12 12	PVXT100CDO	20521000
HID-PV Xt 150 /S C1 CDO	208-277	50/60	5	1	INO / 12 12	PVXT150CDO	20523400
HID-PV Xt 250 CDO C2	208-277	50/60	11	2	INO / 6 6	PVXT250CDO	22267500

DynaVision Programmable Xtreme for CDO



Xtreme drivers for maximum energy savings
 Highly reliable and flexible electronic drivers for CDO lamps; designed to save on energy costs via integrated controls and to reduce maintenance costs thanks to 80,000 hour lifetime and integrated lightning protection. The DynaVision Programmable product family is the perfect basis for any sort of lighting management solution.

Product Features

- Programmable by means of standard digital interface (DALI) and controllable via DALI protocol
- Integrates several control options (DynaDimmer, LineSwitch, AmpDim, Constant Light Output, Adjustable Light Output)

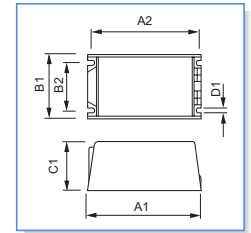
- Longest lifetime for electronic drivers: 80,000 hours with minimum 90% survival at Tc = 80°C
- Lightning protection 10 kV/5 kA
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

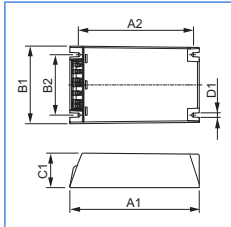
- Enables 2-way communication with the lighting network (via DALI)
- Up to 40% energy saving due to the integrated dimming options and very high driver efficiency
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

Application

- Road lighting
- Residential lighting
- City beautification



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	169	156	100	81.5	58	4.8



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	150	133.6	90	70	40	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
HID-DV PROG Xt 50 CDO Q	208-277	50/60	11	1	INO / 12 12	DVPROGXT50CDOQ	66916600
HID-DV PROG Xt 70 CDO Q	208-277	50/60	11	1	INO / 12 12	DVPROGXT70CDOQ	66918000
HID-DV PROG Xt 100 CDO Q	208-277	50/60	11	1	INO / 12 12	DVPROGXT100CDOQ	66920300
HID-DV PROG Xt 150 CDO Q	208-277	50/60	11	1	INO / 12 12	DVPROGXT150CDOQ	66922700
HID-DV PROG Xt 250 CDO C2	208-277	50/60	11	2	INO / 6 6	DVPROGXT250CDO	22261300

DynaVision Programmable Xtreme for CPO



Xtreme drivers for maximum energy savings
 Highly reliable and flexible electronic drivers for CPO lamps; designed to save on energy costs via integrated controls and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection. The DynaVision Programmable product family is the perfect basis for any sort of lighting management solution.

Product Features

- Programmable by means of standard digital interface (DALI) and controllable via DALI protocol
- Integrates several control options (DynaDimmer, LineSwitch, AmpDim, Constant Light Output, Adjustable Light Output)

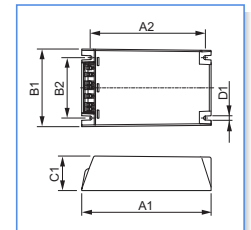
- Longest lifetime for electronic drivers: 80,000 hours with minimum 90% survival at Tc = 80°C
- Xtreme lightning protection 10 kV/5 kA
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

- Enables 2-way communication with the lighting network (via DALI)
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and the integrated lightning protection
- Together with the CPO lamp the driver creates the most efficient white-light system in the industry in its power range

Application

- Road lighting
- Residential lighting
- City beautification



A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
150	133.6	90	70	40	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
HID-DV PROG Xt 45 CPO Q	208-277	50/60	11	INO / 12 12	DVPROGXT45CPOQ	66914200
HID-DV PROG Xt 60 CPO Q	208-277	50/60	11	INO / 12 12	DVPROGXT60CPOQ	24149200
HID-DV PROG Xt 90 CPO Q	208-277	50/60	11	INO / 12 12	DVPROGXT90CPOQ	24151500
HID-DV PROG Xt 140 CPO Q	208-277	50/60	5	INO / 12 12	DVPROGXT140CPOQ	24153900

DynaVision Programmable Xtreme for SON



Xtreme drivers for maximum energy savings

Highly reliable and flexible electronic drivers for SON lamps; designed to save energy via integrated controls, and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection. The DynaVision Programmable product family is the perfect basis for any sort of lighting management solution.

Product Features

- Programmable by means of standard digital interface (DALI) and controllable via DALI protocol
- Integrates several control options (DynaDimmer, LineSwitch, AmpDim, Constant Light Output, Adjustable Light Output)

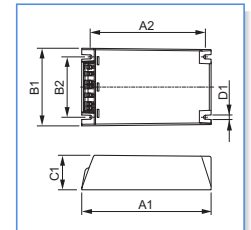
- Xtreme long lifetime of 80,000 hours with minimum 90% survival at $T_c = 80^\circ\text{C}$
- Xtreme lightning protection 10 kV/5 kA
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

- Enables 2-way communication with the lighting network (via DALI)
- Up to 40% energy saving due to the integrated dimming options and very high driver efficiency
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

Application

- Road/highway lighting
- Residential lighting
- City beautification



A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
150	133.6	90	70	40	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
HID-DV PROG Xt 50 SON Q	208-277	50/60	11	INO / 12	12	DVPROGXT50SONQ	66924100
HID-DV PROG Xt 70 SON Q	208-277	50/60	11	INO / 12	12	DVPROGXT70SONQ	66926500
HID-DV PROG Xt 100 SON Q	208-277	50/60	11	INO / 12	12	DVPROGXT100SONQ	66928900
HID-DV PROG Xt 150 SON Q	208-277	50/60	11	INO / 12	12	DVPROGXT150SONQ	66930200

DynaVision Programmable Xtreme for CDMe



Xtreme drivers for maximum energy savings

Highly reliable and flexible electronic drivers for MASTERColour CDMe MW lamps; designed to save on energy costs via integrated controls and to reduce maintenance costs thanks to 80,000 hour lifetime and integrated lightning protection. The DynaVision Programmable product family is the perfect basis for any sort of lighting management solution.

Product Features

- Programmable by means of standard digital interface (DALI) and controllable via DALI protocol
- Integrates control options (DynaDimmer)

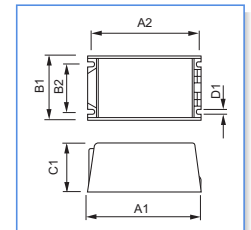
- Longest lifetime for electronic driver: 80,000 hours with minimum 90% survival at $T_c = 80^\circ\text{C}$
- Lightning protection 10 kV/5 kA
- Accurate lamp power stabilization of 95-97% over wide mains-voltage range of 180-300 V

Product Benefits

- Most efficient white-light system in the industry in its power range
- Designed to minimize maintenance cost in outdoor lighting
- No down-time due to calamities (storms, lightning strikes, etc.)
- Same energy consumption and smooth driving of the lamp regardless of fluctuations in the mains voltage

Application

- High-bay retail
- Floodlighting
- Area and road lighting
- Offices and industry



A1	A2	B1	B2	C1	D1
nom.	nom.	nom.	nom.	nom.	nom.
169	156	100	81.5	58	4.8

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
HID-DV PROG Xt 210 CDMe/CPO C2	208-277	50/60	13	INO / 6	6	DVPROGXT210CDM	22269900



PrimaVision for CDM Elite MW



HID-PrimaVision (Xtreme) for CDM Elite MW - Xtreme drivers for the highest reliability

Highly reliable electronic drivers for medium-wattage lamps (210-400 W); designed to save energy via integrated one-step dimming and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection

Product Features

- Up to 92% system efficiency
- Standard 4 kV/2 kV common/differential mode surge protection
- Xtreme lifetime 80,000 hours (90% survival Tc = 80°C)

- Optional 5 kA / 10 kV lightning strike protection
- 95-97% accuracy on power stabilization if mains voltage remains between 180 and 300 V

Product Benefits

- Most efficient white-light system in the industry in its power range
- Designed to minimize maintenance costs in outdoor lighting thanks to the 80,000-hour lifetime and integrated lightning protection
- Same energy consumption and smooth driving of the lamp regardless of fluctuations in the mains voltage

Environment

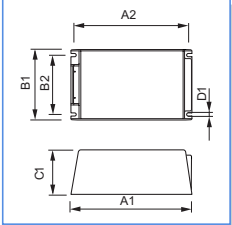
- RoHS compliant
- Limited carbon footprint helps you to play your role in conserving our planet

Application

- High-bay shop lighting
- Flood and area lighting
- Road lighting and petrol stations
- Offices and industry

System

- Designed for optimum system performance with Philips MASTERColour CDM Elite lamps



Dim. no.	A1	A2	B1	B2	C1	D1
1	215	204.5	128.5	111.5	60	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
HID-PV 315 /S CDM	220-240	50/60	4	UNP / 4 4	HIDPV315SCDMMW	84311800

Controllers

Gear for SDW-T lamps



Product Description:

- CSLS electronic control unit with impregnated (HID "BASIC") or encapsulated (HID "Heavy Duty") electromagnetic ballasts

Product Features

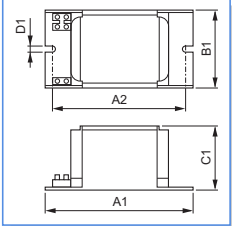
- Ballasts and electronic control units equipped with screw terminal blocks; other contact possibilities for
- Earthing-while-mounting facility (HID 'BASIC' ballasts), separate earth terminal (HID 'Heavy Duty')

Product Benefits

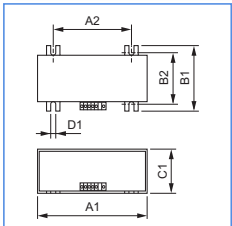
- Electronic control unit ensures reliable starting and stabilizes lamp power for optimum performance (minimum colour deviation)
- Simple installation and cabling

Application

- Similar to those of the related lamps
- Climatic suitability:
 - CSLS + HID "BASIC": restricted to built-in situations under normal conditions
 - CSLS + HID "Heavy Duty": use in luminaires under humid conditions (not drip-proof)



Dim. no.	A1	A2	B1	C1	D1
2	118	94	61	52	6.2
3	123	98	61	52	6.2



Dim. no.	A1	A2	B1	B2	C1	D1
1	98	70	58.5	46	39.5	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number
CSLS 35	220-240	50/60	1	UNP / 18 18	CSLS35	871150091112430
CSLS 50	220-240	50/60	1	UNP / 18 18	CSLS50	871150090808730
CSLS 100	220-240	50/60	1	UNP / 18 18	CSLS100	871150090870430
BSL 50 K307-TS	230/240	50	2	INO / 6 6	BSL50K307TS	872790094039800
BSL 100 K307-TS	230/240	50	3	INO / 6 6	BSL100K307TS	872790094058900

HID-DynaVision Control for SON



Product Description:

- HID-DynaVision Controller for combination with dimming ballast (BSH), electromagnetic ballast (BSN) and ignitor

Product Features

- Dimming down to 35% system power
- 1-10 V input for dim-control signal
- No cable-length restrictions
- Power control at all dimming levels
- Aluminium house, M8 stud for mounting, screw connectors for wiring
- Up to 65% energy savings
- Continuous dimming systems based on 250 W and 400 W SON electromagnetic gear

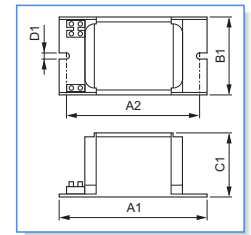
- Easy to be added to existing luminaires
- Constant lamp power for wide mains overvoltage range

Environment

- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

Application

- Similar to those of the related lamps (SON), for continuous dimming in telecontrol or telemanagement system
- Can also be used as two-level dimming system with switched line control when used in combination with an SDU
- Climatic suitability: use in luminaires or poles under normal humid conditions (IP > 23)

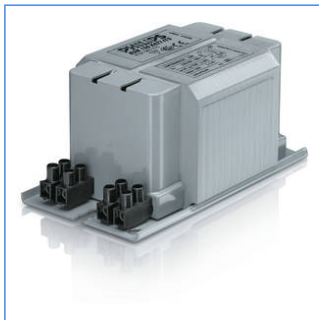


AI	A2	BI	CI	DI
nom.	nom.	nom.	nom.	nom.
118	94	61	52	6.2

Type	Line Voltage	Line Frequency	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
	(V)	(Hz)			
BSH 2540 K3067 SON	220-240	50/60	INO / 6	BSH2540K30	94035000

HID electromagnetic

HID-Basic BSN/BMH MK4 semi-parallel for SON/CDO/CDM/MH/HPI



Long-lasting, reliable solution

Impregnated electromagnetic copper ballasts for use with an external semi-parallel ignitor for CDM, CDO, MH, HPI (Plus) and SON lamps

Product Features

- Improved thermal features – much cooler ballast
- All ballasts are equipped with ThermoSwitch for protection against end-of-lamp-life phenomena
- Ballast can also be used in combination with series (superimposed) ignitor
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Ballasts for alternative mains voltages/frequencies available upon request
- System design: one ignitor SKD578 can trigger all lamps from 35 to 600 W

- Long-lasting reliable solution protected from overheating; better for hot environments than its predecessors; extended warranty
- Minimal watt losses thanks to orthocyclic winding process

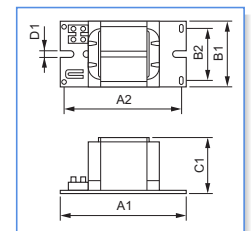
Application

- Outdoor lighting
- Horticulture

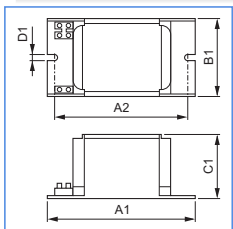
System

- Electromagnetic system requires ballast, ignitor and capacitor
- Semi-parallel circuit: if ballasts with "L" in their description (e. g. BSN 100 L307...) are used, SN(D)... ignitors are required; if ballasts with "K" in their description (e. g. BSN 100 K307...) are used, SK(D)... ignitors are required. Capacitor value to match system power can be found on lamp/ballast combination sheet.

- Series circuit: all ballasts are designed to work with series ignitors
- No ignitor needed for SON-I lamps



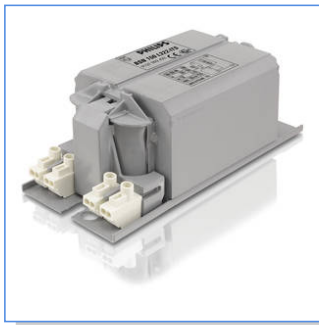
Dim. no.	A1	A2	BI	B2	CI	DI
	nom.	nom.	nom.	nom.	nom.	nom.
5	166	145	97	78.5	83	6.5



Dim. no.	A1	A2	BI	CI	DI
	nom.	nom.	nom.	nom.	nom.
1	118	94	61	52	6.2
2	123	98	61	52	6.2
3	134	113	76	65	6.2
4	160	139	76	65	6.2

Type	Line Voltage	Line Frequency	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
	(V)	(Hz)				
BSN 50 K407-ITS	230/240	50	1	UNP / 6	BSN50K407ITS	88693100
BSN 70 K407-ITS	230/240	50	1	INO / 6	BSN70K407ITS	88694800
BSN 100 K407-ITS	230/240	50	2	UNP / 6	BSN100K407ITS	88695500
BSN 150 K407-ITS	230/240	50	3	UNP / 6	BSN150K407ITS	88698600
BSN 250 K407-ITS	230/240	50	4	UNP / 6	BSN250K407ITS	88702000
BSN 400 K407-ITS	230/240	50	5	UNP / 2	BSN400K407ITS	88704400
BSN 600 K302-ITS	230	50	5	UNP / 2	BSN600K302ITS	88705100

HID-Basic BSN/BMH semi-parallel for SON/CDO/CDM/MH/HPI



Long-lasting, reliable solution
 Impregnated electromagnetic copper ballasts for use with an external semi-parallel ignitor for CDM, CDO, MH, HPI (Plus) and SON lamps

Product Features

- All ballasts are equipped with ThermoSwitch for protection against end-of-lamp-life phenomena
- Ballast can also be used in combination with series (superimposed) ignitor
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Product Benefits

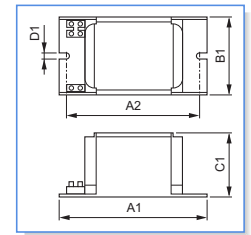
- Long-lasting reliable solution protected from overheating
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

Application

- Outdoor lighting
- Horticulture

System

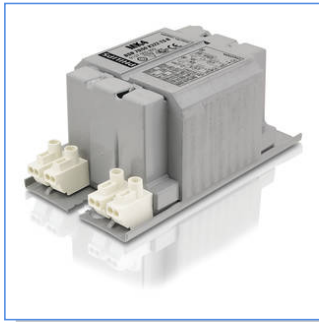
- Electromagnetic system requires ballast, ignitor and capacitor
- Semi-parallel circuit: if ballasts with "L" in their description (e. g. BSN 100 L307...) are used, SN(D)... ignitors are required; if ballasts with "K" in their description (e. g. BSN 100 K307...) are used, SK(D)... ignitors are required. Capacitor value to match system power can be found on lamp/ballast combination sheet
- Series circuit: all ballasts are designed to work with series ignitors
- No ignitor needed for SON-I lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118	94	61	52	6.2
2	118	98	61	53	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
BMH 35 K407-ITS	230/240	50	1	INO / 6	6	BMH35K407ITS	94021300
BMH 70 K407-ITS	230/240	50	2	INO / 6	6	BMH70K407ITS	94027500

HID-Basic BSN/BMH series multi-wattage for SON/CDO/CDM/MH/HPI



Long-lasting, reliable solution
 Impregnated electromagnetic copper/iron double-wattage ballasts for use with an external series (superimposed) ignitor for CDO, MH, HPI (Plus) and SON lamps

Product Features

- Possibility of dimming with an external controller
- Multi-wattage ballasts can be used only in series circuits
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Product Benefits

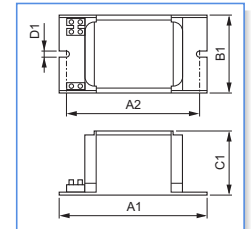
- Up to 40% energy saving using power-reduction controllers
- Minimal watt losses thanks to orthocyclic winding process
- Long-lasting reliable solution protected from overheating

Application

- Outdoor lighting

System

- Electromagnetic system requires ballast, ignitor and capacitor
- Series circuit: all ballasts are designed to work with series ignitors – SUD... (Philips) or any other series ignitors

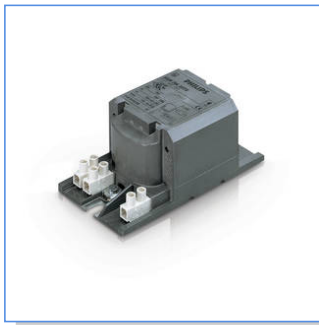


Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118	94	61	52	6.2
2	123	98	61	52	6.2
3	160	139	76	65	6.2
4	134	113	76	65	6.3
5	166		97	83	

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
BSN 70/50 K407-TS	230/240	50	1	INO / 6	6	BSN5070K407TS	94047300
BSN 100/70 K407-TS	230/240	50	2	INO / 6	6	BSN70100K407TS	94053400
BSN 150/250 K407-TS	230/240	50	3	INO / 2	6	BSN150250K407TS	94092300
BSN 150/100 K407-TS	230/240	50	4	INO / 6	6	BSN100150K407TS	94068800
BSN 400/250 K407-TS	230/240	50	5	INO / 2	2	BSN250400K407TS	94086200



HID-HeavyDuty BSN semi-parallel for SON/CDO/MH/HPI



Long-lasting, reliable solution
Encapsulated electromagnetic copper/iron ballasts for use with an external semi-parallel ignitor for CDM, CDO, MH, HPI (Plus) and SON lamps

Product Features

- Encapsulated with thermoplastic polyester resin, reinforced with glass fiber
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Ballasts for alternative mains voltages/frequencies available upon request
- Separate earth terminal (HID 'Heavy Duty')

Product Benefits

- Excellent resistance to chemical impact, humid conditions and environmental stress crack
- Long-lasting reliable solution – outstanding product lifetime of 15 years average

- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

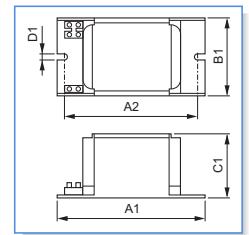
Application

- Outdoor lighting (most popular application: road and tunnel lighting)

System

- Electromagnetic system requires ballast, ignitor and capacitor
- Semi-parallel circuit: if ballasts with "L" in their description (e. g. BSN 100 L307...) are used, SN(D)... ignitors are required; if ballasts with "K" in their description (e. g. BSN 100 K307...) are used, SK(D)... ignitors are required. Capacitor value to match system power can be found on lamp/ballast combination sheet

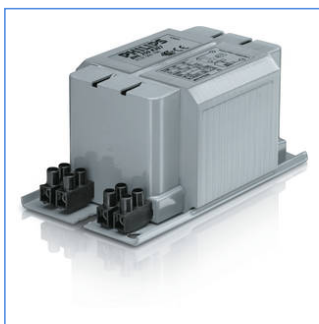
- Series circuit: all ballasts are designed to work with series ignitors
- No ignitor needed for SON-I lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118	103.0	65	53	6.2
2	123	108.0	65	53	6.2
3	134	115.5	81	66	6.2
4	160	141.5	81	66	6.2
5	166	147.5	102	84	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 871 1500...
BSN 70 L34-TS	240	50	1	UNP / 6 6	BSN70L34TS	05970331
BSN 100 L34-TS	240	50	2	UNP / 6 6	BSN100L34TS	05974131
BSN 150 L34-TS	240	50	3	UNP / 6 6	BSN150L34TS	05962830
BSN 250 L34	240	50	4	INO / 6 6	BSN250L34	91537530
BSN 250 L34-TS	240	50	4	UNP / 6 6	BSN250L34TS	05966630
BSN 400 L34	240	50	5	UNP / 4 4	BSN400L34	91521430
BSN 400 L34-TS	240	50	5	UNP / 4 4	BSN400L34TS	05978930

HID-Basic BHL MK4 for HPL/HPI



Long-lasting, reliable solution

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

Product Features

- Improved thermal features – much cooler ballast
- Ballasts designed for mercury lamps (HPL) without using an ignitor can also be used with HPI lamps with an ignitor
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Product Benefits

- Long-lasting reliable solution protected from overheating; better for hot environments than its predecessors; extended warranty
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

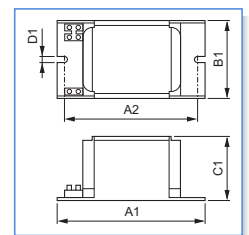
Application

- Outdoor lighting

System

- Electromagnetic system requires ballast, ignitor and capacitor
- Mercury lamps (HPL) no ignitor needed. Capacitor value to match system power can be found on lamp/ballast combination sheet

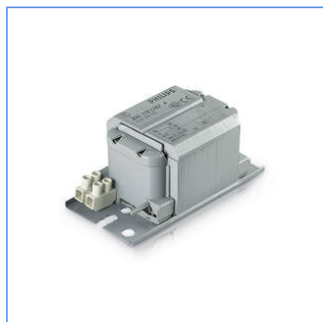
- Metal-halide lamps (HPI) to be used with SI5I ignitor. Capacitor value to match system power can be found on lamp/ballast combination sheet.



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	118	94	61	52	6.2
2	134	113	76	65	6.2
3	160	139	76	65	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
BHL 80/125 K407	230/240	50	1	INO / 6 6	BHL80125K407	94013800
BHL 250 K307	230/240	50	2	UNP / 6 6	BHL250K307	88701300
BHL 400 K307	230/240	50	3	UNP / 6 6	BHL400K307	88703700

HID-Basic BHL for HPL/HPI



Long-lasting, reliable solution
Impregnated electromagnetic copper/iron ballasts for HPL, HPI (Plus) and SON-H lamps

Product Features

- Ballasts designed for mercury lamps (HPL) without using an ignitor can be also used with HPI lamps together with an ignitor
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Product Benefits

- Long-lasting reliable solution
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

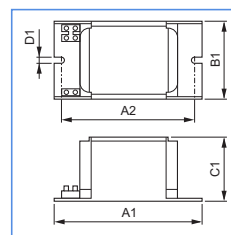
Application

- Outdoor lighting

System

- Electromagnetic system requires ballast, ignitor and capacitor
- Mercury lamps (HPL) ? no ignitor needed. Capacitor value to match system power can be found on lamp/ballast combination sheet

- Metal-halide lamps (HPI) to be used with SISI ignitor. Capacitor value to match system power can be found on lamp/ballast combination sheet



Dim.	A1	A2	BI	CI	DI
no.	nom.	nom.	nom.	nom.	nom.
	118	94	61	52	6.2

Type	Line Voltage	Line Frequency	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
	(V)	(Hz)			
BHL 50/80 K407	230/240	50	INO / 6 6	BHL5080K407	94007700
BHL 125 K307	230/240	50	INO / 6 6	BHL125K307	94005300

HID-HighPower for SON/MH/HPL/HPI



Product Features

- Excellent resistance to chemical impact, humid conditions and environmental stress crack
- Class I rated (i. e. with earthing facility)
- Equipped with screw terminal blocks as standard
- Separate earth terminal (HID 'Heavy Duty')
- Ballasts for alternative mains voltages/frequencies available upon request

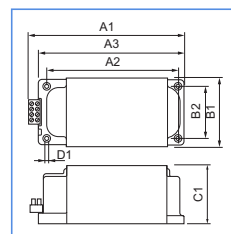
Product Benefits

- Protected from overheating – outstanding product lifetime of 15 years average

- Minimal watt losses thanks to orthocyclic winding process
 - Ideal for pole mounting
- Application**
- Outdoor lighting (most popular application areas: sports and area lighting)

System

- Electromagnetic system requires ballast, ignitor and capacitor
- Ballast power 1,000 W and above – series or parallel circuit can be applied. Ignitor and capacitor value according to system power can be found in lamp-ballast combination sheet



Dim. no.	A1	A2	A3	BI	B2	CI	DI
	nom.	nom.	nom.	nom.	nom.	nom.	nom.
1	207	172	196	117	88	102	6.5
2	257	222	246	117	88	102	6.5
3	317	282	306	117	88	102	6.5

Long-lasting, reliable solution
Encapsulated ballasts for use with SON (T) (Plus), HPL, HPI and MH lamps with rated wattages of 1,000 W and above

Commercial product name/Type	Line Voltage	Line Frequency	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
	(V)	(Hz)				
HID-HighPower BHL 1000 L78 230/240V 50Hz HP-207	230/240	50	1	UNP / I I	BHL1000L78	06237600
HID-HighPower BSN 1000 L78 230/240V 50Hz HP-257	230/240	50	2	UNP / I I	BSN1000L78	06236900
HID-HighPower BMH 1800 L78 230/240V 50Hz HP-317	230/240	50	3	UNP / I I	BMH1800L78	05990100
HID-HighPower BHL 2000 L78 230/240V 50Hz HP-317	230/240	50	3	INO / I I	BHL2000L78	06385400
HID-HighPower BHD 2000 L76 380/400/415V 50Hz HP-317	380-415	50	3	UNP / I I	BHD2000L76	74276600
HID-HighPower BHD 2000 L77 400/415/430V 50Hz HP-317	400-430	50	3	UNP / I I	BHD2000L77	53817800
HID-HighPower BHL 2000 L76 380/400/415V 50Hz HP-317	380-415	50	3	UNP / I I	BHL2000L76	06384700

HID-Basic BSX for SOX



Long-lasting, reliable solution
Impregnated electromagnetic copper/iron ballasts for use with an external ignitor for SOX and SOX-E lamps

Product Features

- Based on magnetic fluorescent ballast design
- Equipped with double-insert contacts
- Minimal watt losses thanks to orthocyclic winding process
- Ballasts for alternative mains voltages/frequencies available upon request

Product Benefits

- Compact dimensions and lightweight – easy to fit in linear luminaires

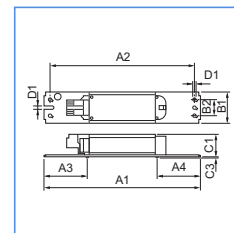
- Simple installation
- Long-lasting reliable solution protected from overheating

Application

- Outdoor lighting (most popular application: road lighting)

System

- Electromagnetic system requires ballast, ignitor and capacitor
- To be used with relevant SX. . ignitor. Capacitor value to match system power can be found on lamp/ballast combination sheet
- Climatic suitability: restricted to built-in situations where relative humidity is limited



A1	A2	A3	A4	B1	B2	C1	C3	D1
nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.	nom.
196	180	54	54	39	20	28	1.5	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number
BSX 35/55 L82	240	50	UNP / 15	15	BSX3555L82240VB	8727900 90500700
BSX 35/55 L82	240	50	UNP / 24	24	BSX3555L82	8711500 92053930

HID-HeavyDuty BSX for SOX



Long-lasting, reliable solution
Encapsulated electromagnetic copper/iron ballasts for SOX and SOX-E lamps

Product Features

- Encapsulated with thermoplastic polyester resin, reinforced with glass fiber
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Ballasts for alternative mains voltages/frequencies available upon request
- Separate earth terminal (HID 'Heavy Duty')

Product Benefits

- Excellent resistance to chemical impact, humid conditions and environmental stress crack
- Long-lasting reliable solution – outstanding product lifetime of 15 years average
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

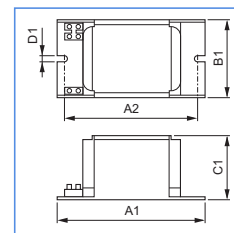
Application

- Outdoor lighting

System

- Electromagnetic system requires ballast, ignitor and capacitor

- To be used with the relevant SX. . ignitor. Capacitor value to match system power can be found on lamp/ballast combination sheet



A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
118	103	65	53	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
BSX 90 L32	240	50	INO / 6	6	BSX90L32	9153443/

HID-Constant wattage BSX for SOX



Long-lasting, reliable solution
Constant-wattage (potted) electromagnetic copper/iron ballasts for use with an external ignitor for SOX and SOX-E lamps

Product Features

- Series capacitor required in circuits with constant wattage
- Silicon potted ballast under IP21 canopy
- Equipped with screw terminal blocks as standard
- Ballasts for alternative mains voltages/frequencies available upon request

Product Benefits

- Excellent resistance to humid conditions

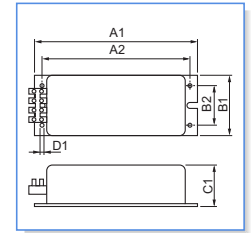
- Long-lasting reliable solution – outstanding product lifetime of 15 years average
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

Application

- Outdoor lighting

System

- Electromagnetic system requires ballast, ignitor and capacitor
- To be used with relevant SX. . ignitor
- Capacitor value to match system power can be found on lamp/ballast combination sheet
- 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.
1	149	135	80	42	67	4.2
2	178	162	100	42	74	4.2
3	178	162	100	42	78	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
BSX 91 H96	220-240	50	1	ICT / 8	BSX91H96	92039399
BSX 131 H96	220-240	50	2	ICT / 4	BSX131H96	91978699
BSX 135 H96	230-240	50	1	ICT / 8	BSX135H96	92007299
BSX 180 H96	220-240	50	3	ICT / 4	BSX180H96	93900599

Ignitors

HID ignitors for series systems



Digital ignitors for maximum reliability
HID ignitors for series systems

Product Features

- Ignitors equipped with screw terminal blocks as standard
- Series ignitor will only work in series circuits

Product Benefits

- Easy installation and wiring

- Can operate with both semi-parallel and series ballasts
- Digital ignitors ensure maximum reliability

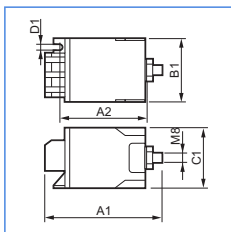
Application

- Outdoor lighting (most popular application: road and tunnel lighting)

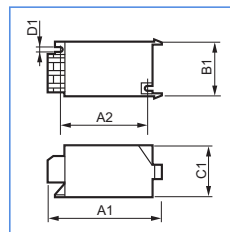
System

- Electromagnetic system requires ballast, ignitor and capacitor

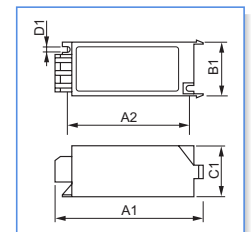
- Designed to work only in series circuits
- No ignitor needed for SON-I lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	89	70	41.0	38.0	4.3
2	89	70	41.5	38.5	4.3



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
3	84.5	65	41.5	38.5	4.3



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
4	114.5	95	41	38	4.3

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
SN 57-S	220-240	50/60	1	UNP / 20	SN57S	06052530
SN 58-S	220-240	50/60	1	UNP / 20	SN58S	74175230
SND 57	220-240	50/60	3	UNP / 48	SND57	93066830
SND 58	220-240	50/60	3	UNP / 48	SND58	93068230
SND 58-S	220-240	50/60	2	UNP / 20	SND58S	93070530
SN 61	220-240	50/60	4	UNP / 20	SN61	91639630
SX 26	220-240	50/60	4	UNP / 20	SX26	91590030
SX 74	220-240	50/60	4	UNP / 20	SX74	91569630
SX 76	220-240	50/60	4	UNP / 20	SX76	91640230

HID ignitors for MK4 semi-parallel systems



Compact ignitors for flexible luminaire design

HID ignitors for semi-parallel systems

Product Features

- Designed to ensure maximum performance with new MK4 ballasts
- Semi-parallel ignitor will only work in semi-parallel circuits and must be matched with the relevant ballast
- Ignitors equipped with screw terminal blocks as standard
- Lightweight and compact products
- Current flows through ignitor only at lamp start-up

Product Benefits

- Wide range of lamps covered by one ignitor 35-600 W
- Digital versions ensure longer lifetime than series ignitors, and silent operation

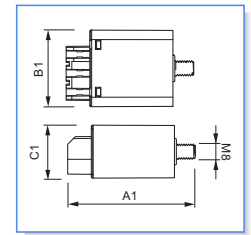
- Smaller dimensions than predecessors mean it fits more easily into compact luminaires

Application

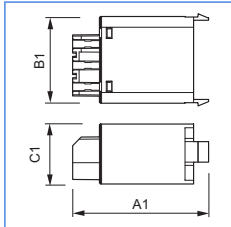
- Outdoor lighting

System

- Electromagnetic system requires ballast, ignitor and capacitor
- Designed to work only in semi-parallel circuits: if ballasts with "L" in their description (e. g. BSN 100 L307...) are used, SN(D)... ignitors are required; if ballasts with "K" in their description (e. g. BSN 100 K307...) are used, SK(D)... ignitors are required. Capacitor value to match system power can be found on lamp/ballast combination sheet
- No ignitor needed for SON-I lamps



Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	63.5	40.5	28



Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	63.5	40.5	28

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8727900...
SK 578	220-240	50/60	1	INO / 48	48	SK578 89568100
SK 578-S	220-240	50/60	2	UNP / 20	20	SK578S 89570400
SKD 578	220-240	50/60	1	INO / 48	48	SKD578 89567400
SKD 578-S	220-240	50/60	2	UNP / 20	20	SKD 578S 89569800

Fluorescent

Fluorescent Dimming gear

HF-Regulator Intelligent Touch DALI for TL5/TL-D/PL-L lamps



Dimming the next step in energy saving

This intelligent high-frequency electronic dimming ballast utilizes the DALI or Touch and Dim push-button protocol for fluorescent lamps. It meets AIBAT requirements, thereby pre-empting upcoming legislation. With a special command you can retrieve the system's mains power consumption, and with another you can find out which lamp wattage is connected. Combined with controls, additional energy savings can be achieved.

Product Features

- HF-R Intelligent recognizes what type of lamp (T5 HE, HO, ECO, TL-D, PL-L) is connected and drives it accordingly
- Programmed start: flicker-free ignition <1.0 second and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations and dimming from 1 to 100%
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement
- Programmable for intelligent functionalities via Philips MultiOne: Corridor mode, Emergency DC dim level, Burn-in time

Product Benefits

- Extremely low stand-by losses, controlled cut-off for dim levels above 80%, hybrid control dimming (current control at 100% and power control at 1%) – combined with MASTER TL5 Eco the most energy-efficient solution
- HF operation improves light quality and lamp lifetime.
- Compliant with European and Asian norms and suitable for emergency lighting systems

Environment

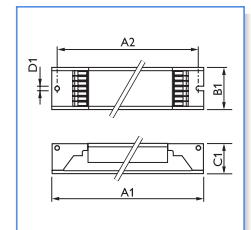
- The HF-R intelligent will recognize which lamp is connected and will drive it accordingly
- Extremely low energy consumption in stand-by (0.25 W)
- Optimized for MASTER TL5 Eco lamps
- RoHS and ISO 14000-compliant
- EEI = A1 BAT (Best available technology)

Application

- Indoor, general and task lighting applications in combination with lighting control systems (personal control, daylight linking and/or movement detection)

System

- The HF-R intelligent recognizes which type of lamp is connected and drives it accordingly
- Extremely low energy consumption in stand-by mode (0.25 W)
- HF-Ri TD in combination with MASTER TL5 Eco the most efficient system in the market



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	22	4.1
2	359	350	30	21	4.1

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (1.6A type B) (x)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number
HF-Ri TD I 14/21/24/39 TL5 E+	195-240	50/60	30	1	INO / 12	12	HFRITD114212439 871829111321800
HF-Ri TD I 28/35/49/54 TL5 E+	195-240	50/60	34	1	INO / 12	12	HFRITD128-49TL5 872790089057000
HF-Ri TD I 28/35/49/54 TL5 E+	195-240	50/60	39	2	INO / 12	12	HFRITD12854T5PL 871829166205100
HF-Ri TD I 35/49/80 TL5 E+	195-240	50/60	19	1	UNP / 12	12	HFRITD135-80TL5 872790089198000

More data see next page

(continued)

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
HF-Ri TD 1 35/49/80 TL5 E+	195-240	50/60	18	2	INO / 12 12	HFRITD13580T5PL	8718291 66207500
HF-Ri TD 2 14/21/24/39 TL5 E+	195-240	50/60	16	1	INO / 12 12	HFRITD214212439	8718291 11323200
HF-Ri TD 2 28/35/49/54 TL5 E+	195-240	50/60	13	1	UNP / 12 12	HFRITD228-54TL5	8727900 88768600
HF-Ri TD 2 28/35/49/54 TL5 E+	195-240	50/60	18	2	INO / 12 12	HFRITD22854T5PL	8718291 66209900

HF-Regulator II Touch 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

Product Features

- Programmed start: flicker-free ignition 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations and dimming from 1 to 100%.
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement.
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use

Product Benefits

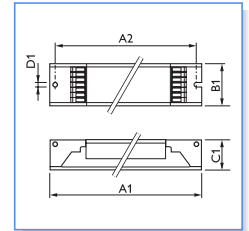
- Low stand-by losses, together with controlled dimming (current-controlled), combined with MASTER TL5 ECO; an energy-efficient solution
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved
- Compliant with European and Asian norms and suitable for emergency lighting systems

Application

- 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.	BI nom.	CI nom.	DI nom.
1	360	350	30	22	4.2
2	425	415	30	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-R TD 124 TL5/PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD124TL5EII	91446030
HF-R TD 224 TL5/PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD224TL5EII	91452130
HF-R TD 280 TL5/PL-L EII	220-240	50/60	9	2	UNP / 12 12	HFRTD280TL5/PLL	91067730

HF-Regulator II Touch 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

Product Features

- Programmed start: flicker-free ignition 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations and dimming from 1 to 100%
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use

Product Benefits

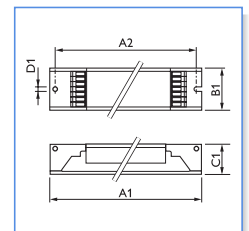
- Low stand-by losses, together with controlled dimming
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved
- Compliant with European and Asian norms and suitable for emergency lighting systems

Application

- 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



A1 nom.	A2 nom.	BI nom.	CI nom.	DI nom.
360	350	30	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-R TD 118 TL-D EII	220-240	50/60	28	UNP / 12 12	HFRTD118TLDEII	91172830
HF-R TD 218 TL-D EII	220-240	50/60	12	UNP / 12 12	HFRTD218TLDEII	91174230



HF-Regulator II Touch 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

Product Features

- Programmed start: flicker-free ignition 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations and dimming from 1 to 100%
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use

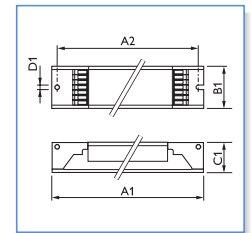
Product Benefits

- Low stand-by losses, together with controlled dimming
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved
- Compliant with European and Asian norms and suitable for emergency lighting systems

Application

- 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	425	415	30	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
HF-R TD 124 TLS/PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD124TL5EII	91446030
HF-R TD 136 PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD136PL5EII	91164330
HF-R TD 140 PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD140PL5EII	91450730
HF-R TD 224 TLS/PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD224TL5EII	91452130
HF-R TD 236 PL-L EII	220-240	50/60	12	1	UNP / 12 12	HFRTD236PL5EII	91166730
HF-R TD 240 PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFRTD240PL5EII	91458330
HF-R TD 280 TLS/PL-L EII	220-240	50/60	9	2	UNP / 12 12	HFRTD280TL5/PLL	91067730

HF-Regulator II Touch DALI for PL-T, PL-C and PL-R lamps



HF-Regulator II Touch DALI for PL-T, PL-C and PL-R lamps – Dimming: a next step in energy saving

High-frequency electronic dimming ballast, using DALI (Digital Addressable Lighting Interface) or Touch and Dim push-button protocol for (compact) fluorescent lamps

Product Features

- Programmed start: flicker-free ignition 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations and dimming from 1 to 100%

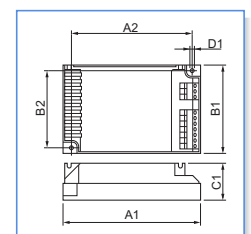
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement
- Protected against excessive mains voltages, incorrect connections and incorrect lamp use

Product Benefits

- Low stand-by losses, together with controlled dimming
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved
- Compliant with European and Asian norms and suitable for emergency lighting systems

Application

- Indoor, general and task lighting applications in combination with lighting control systems (personal control, daylight linking and/or movement detection)



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

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
HF-R TD 114-17 PL-R EII	220-240	50/60	28	INO / 12 12	HFRTD11417PLREI	91349430
HF-R TD 118 PL-T/C EII	220-240	50/60	28	INO / 12 12	HFRTD118PLTCEII	91344930
HF-R TD 126-42 PL-T/C EII	220-240	50/60	28	UNP / 12 12	HFRTD12642PLTCE	91340130
HF-R TD 214-17 PL-R EII	220-240	50/60	28	INO / 12 12	HFRTD21417PLREI	91346330
HF-R TD 218 PL-T/C EII	220-240	50/60	28	INO / 12 12	HFRTD218PLTCEII	91342530
HF-R TD 226-42 PL-T/C EII	220-240	50/60	12	UNP / 12 12	HFRTD22642PLTCE	91337130

HF-Regulator II for TL5 lamps



Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using I-10 V protocol for TL5 fluorescent lamps

Product Features

- Programmed start: flicker-free ignition < 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement

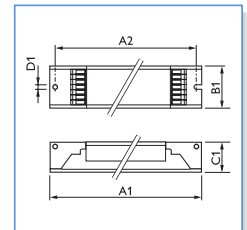
Product Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the I-10 V industry standard)
- Compliant with European and Asian norms and suitable for emergency lighting systems
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved

Application

- I-10 V installations with daylight linking and/or movement detection (for energy savings)

- I-10 V 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	30	22	4.2
4	359	350	39	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (1.6A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
HF-R 1 14-35 TL5 EII	220-240	50/60	28	1	UNP / 12 12	HFR11435TL5EII	91180330
HF-R 124 TL5/PL-L EII	220-240	50/60	28	2	UNP / 12 12	HFR124TL5EII	91466830
HF-R 139 TL5 EII	220-240	50/60	28	2	UNP / 12 12	HFR139TL5EII	91468230
HF-R 149 TL5 EII	220-240	50/60	28	1	UNP / 12 12	HFR149TL5II	90998530
HF-R 154 TL5 EII	220-240	50/60	28	1	UNP / 12 12	HFR154TL5II	91005930
HF-R 180 TL5/PL-L EII	220-240	50/60	12	1	UNP / 12 12	HFR180TL5IPLL	91011030
HF-R 2 14-35 TL5 EII	220-240	50/60	12	1	UNP / 12 12	HFR21435TL5EII	91178030
HF-R 224 TL5/PL-L EII	220-240	50/60	28	2	UNP / 12 12	HFR224TL5EII	91472930
HF-R 239 TL5 EII	220-240	50/60	12	2	UNP / 12 12	HFR239TL5EII	91474330
HF-R 249 TL5 EII	220-240	50/60	12	1	UNP / 12 12	HFR249TL5II	91003530
HF-R 254 TL5 EII	220-240	50/60	12	1	UNP / 12 12	HFR254TL5II	91008030
HF-R 280 TL5/PL-L EII	220-240	50/60	9	3	UNP / 12 12	HFR280TL5IPLL	91065330
HF-R 314 TL5 EII	220-240	50-60	28	4	UNP 10	HFR314TL5EII	91368530
HF-R 324 TL5/PL-L EII	220-240	50-60	12	4	UNP 10	HFR324TL5EII	91370830
HF-R 414 TL5 EII	220-240	50-60	28	4	UNP 10	HFR414TL5EII	91364730
HF-R 424 TL5/PL-L EII	220-240	50-60	12	4	UNP 10	HFR424TL5EII	91374630

HF-Regulator II for TL-D lamps



Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using I-10 V protocol for TL-D fluorescent lamps

Product Features

- Programmed start: flicker-free ignition < 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations.
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement

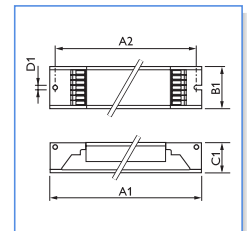
Product Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the I-10 V industry standard)
- Compliant with European and Asian norms and suitable for emergency lighting systems
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved

Application

- I-10 V installations with daylight linking and/or movement detection (for energy savings)

- I-10 V 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)	Max ballast on MCB (1.6A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
HF-R 118 TL-D EII	220-240	50/60	28	1	UNP / 12 12	HFR118TLDEII	91190230
HF-R 136 TL-D EII	220-240	50/60	28	1	UNP / 12 12	HFR136TLDEII	91013430
HF-R 158 TL-D EII	220-240	50/60	28	1	UNP / 12 12	HFR158TLDEII	91017230
HF-R 218 TL-D EII	220-240	50/60	12	1	UNP / 12 12	HFR218TLDEII	91192630
HF-R 236 TL-D EII	220-240	50/60	12	1	UNP / 12 12	HFR236TLDEII	91015830
HF-R 258 TL-D EII	220-240	50/60	12	1	UNP / 12 12	HFR258TLDEII	91019630
HF-R 318 TL-D EII	220-240	50-60	28	2	UNP 10	HFR318TLDEII	91376030
HF-R 418 TL-D EII	220-240	50-60	12	2	UNP 10	HFR418TLDEII	91366130



HF-Regulator II for PL-L lamps



Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using I-10 V protocol for PL-L fluorescent lamps

Product Features

- Programmed start: flicker-free ignition < 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement

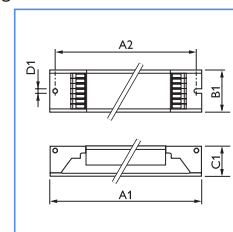
Product Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the I-10 V industry standard)
- Compliant with European and Asian norms and suitable for emergency lighting systems
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved

Application

- I-10 V installations with daylight linking and/or movement detection (for energy savings)

- I-10 V 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
4	359	350	39	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-R 124 TL5/PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFR124TL5EII	91466830
HF-R 136 PL-L EII	220-240	50/60	28	2	UNP / 12 12	HFR136PILLEII	91182730
HF-R 140 PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFR140PILLEII	91470530
HF-R 155 PL-L EII	220-240	50/60	28	2	UNP / 12 12	HFR155PILLEII	91186530
HF-R 180 TL5/PL-L EII	220-240	50/60	12	2	UNP / 12 12	HFR180TL5/PLLL	91011030
HF-R 224 TL5/PL-L EII	220-240	50/60	28	1	UNP / 12 12	HFR224TL5EII	91472930
HF-R 236 PL-L EII	220-240	50/60	12	2	UNP / 12 12	HFR236PILLEII	91184130
HF-R 240 PL-L EII	220-240	50/60	12	1	UNP / 12 12	HFR240PILLEII	91460630
HF-R 255 PL-L EII	220-240	50/60	12	2	UNP / 12 12	HFR255PILLEII	91188930
HF-R 280 TL5/PL-L EII	220-240	50/60	9	3	UNP / 12 12	HFR280TL5/PLLL	91065330
HF-R 324 TL5/PL-L EII	220-240	50-60	12	4	UNP 10	HFR324TL5EII	91370830
HF-R 424 TL5/PL-L EII	220-240	50-60	12	4	UNP 10	HFR424TL5EII	91374630

HF-Regulator II for PL-T/C



Product Description:

- Compact, lightweight High-Frequency electronic regulating ballast for PL-T and PL-C compact fluorescent lamps

Product Features

- Programmed start: flicker-free ignition < 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations
- Up to 60% reduction in energy consumption by using automatic lighting control systems
- Stop circuit is activated within 5 seconds in the event of lamp failure (safety stop), and ballast resets automatically after lamp replacement

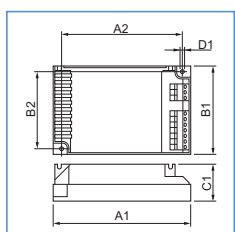
Product Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the I-10 V industry standard)
- Compliant with European and Asian norms and suitable for emergency lighting systems
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved

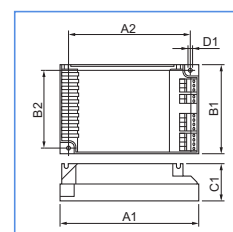
Application

- I-10 V installations with daylight linking and/or movement detection (energy saving)

- I-10 V installations with remote control systems (comfort)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-22
- 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.
1	123	111	79	67	33	4.5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	123	111	79	67	33	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
HF-R 1 26-42 PL-T/C EII	220-240	50/60	28	1	UNP / 12 12	HFR126-42PLCT	80971800
HF-R 2 26-42 PL-T/C EII	220-240	50/60	12	2	UNP / 12 12	HFR226-42PLCT	80972500

Fluorescent Fixed Output gear

HF-Performer Intelligent for TL5 HE/HO lamps



For flexibility in luminaire design
 HF-Performer Intelligent is a slim and lightweight high-frequency electronic ballast which makes it possible to exchange TL5 HE and HO lamps of the same length in order to maximize logistical flexibility in luminaire design and handling. With its smart power functionality based on Philips EII technology, HF-Performer Intelligent is optimized for maximum system efficiency (CELMA EEI A2 BAT) in combination with the TL5 and TL5 Eco lamp.

Product Features

- Unique "intelligent" technology, automatic lamp recognition

- Protected against excessive mains voltage and incorrect connections up to 400 V AC
- Programmed, flicker-free, pre-heated start (< 1.0 s) which allows the lamp to be switched on and off without reducing useful lamp life
- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- Suitable for emergency lighting luminaires in accordance with IEC/EN 60598-22 and VDE 0108

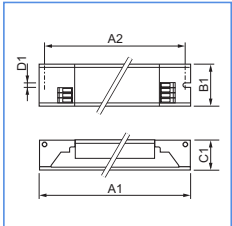
Product Benefits

- HF-Pi offers the flexibility of a simplified product portfolio. TL5 HO/HE lamps can be exchanged, reducing the cost of logistics throughout the value chain.

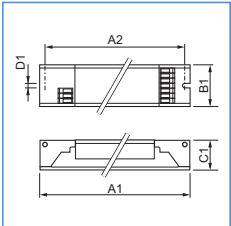
- Suitable for luminaires in protection class I and, after testing, class II
- The universal connector Wago 251 offers the flexibility for horizontal-manual or push-in robot wiring or vertical ALF-robot wiring.

Application

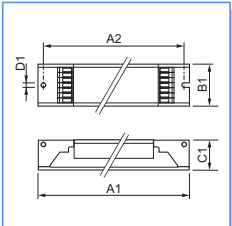
- Ideal for applications where a high level of energy efficiency and switching is required:
- Used with movement-detection control systems like Philips OccuPlus
- Indoor applications such as office buildings, hospitals, supermarkets, department stores and schools
- In class I outdoor applications, e. g. industrial premises and parking lots



Dim. no.	A1	A2	B1	C1	D1
1	360	350	30	22	4.2



Dim. no.	A1	A2	B1	C1	D1
2	360	350	30	22	4.2



Dim. no.	A1	A2	B1	C1	D1
3	360	350	30	22	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number
HF-Performer Intelligent 1 14/21/24/39 TL5 EII	220-240	50/60	18	1	INO / 12 12	HFPI114212439	871150091494130
HF-Performer Intelligent 1 28/35/49/54 TL5 EII	220-240	50/60	18	1	INO / 12 12	HFPI128354954	871150091496530
HF-Performer Intelligent 2 28/35/49/54 TL5 EII	220-240	50/60	12	2	INO / 12 12	HFPI228354954	871150091502330
HF-Performer Intelligent 3/4 14/24 TL5/PL-L EII	220-240	50/60	12	3	UNP / 12 12	HFPI341424TL5II	872790088775400



HF-Performer III for TL5 lamps



An energy-efficient solution

HF-Performer III TL5 is a sustainable, slim and high-frequency electronic ballast for TL5 and TL5 Eco fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy-efficient (CELMA EEI A2 BAT).

Product Features

- 50,000-hour lifetime at maximum case temperature, combined with over 60,000 on/off switches on one lamp
- Programmed, flicker-free, pre-heated start (< 1.0 s) which allows the lamp to be switched on and off without reducing useful lamp life
- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations

- The unit is protected against excessive mains voltage and incorrect connections
- The universal connector Wago 251 offers the flexibility for horizontal-manual or push-in robot wiring or vertical ALF-robot wiring.

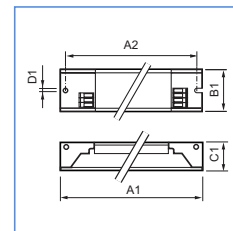
Product Benefits

- Optimal savings can be achieved using HF-PIII together with TL5 ECO lamps (system solution).
- The programmed start enables the lamp to be switched on and off without reducing useful lamp life.
- DC emergency operation in line with IEC/EN 60598-22 luminaire norms
- Suitable for luminaires in protection class I and, after testing, class II

Application

- Used with movement-detection control systems like Philips OccuPlus

- Indoor applications, such as office buildings, hospitals, supermarkets, department stores, industrial premises and schools
- Class I outdoor applications, e. g. industrial premises and parking lot



Dim. no.	A1 nom.	A2 nom.	BI nom.	CI nom.	DI nom.
1	360	350	30	22	4.2
2	360	350	30	21	4.2
3	425	415	30	21	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
HF-P 1 14-35 TL5 HE III	220-240	50/60	28	1	INO / 12 12	HFP11435T5HEIII	90504500
HF-P 1 24/39 TL5 HO III	220-240	50/60	28	2	INO / 12 12	HFP124TL5HOLLIII	95224700
HF-P 149 TL5 HO III	220-240	50/60	28	1	INO / 12 12	HFP149TL5HOIII	86319200
HF-P 154/155 TL5 HO/PL-L III	220-240	50/60	28	1	UNP / 12 12	HFP154TL5HOIII	86348200
HF-P 180 TL5/PL-L III	220-240	50/60	15	2	INO / 12 12	HFP180TLPLLEIII	95228500
HF-P 2 14-35 TL5 HE III	220-240	50/60	28	1	INO / 12 12	HFP21435T5HEIII	90503800
HF-P 2 24/39 TL5 HO III	220-240	50/60	20	2	INO / 12 12	HFP224-39TLEIIL	95226100
HF-P 249 TL5 HO III	220-240	50/60	12	1	INO / 12 12	HFP249TL5HOIII	86347500
HF-P 254/255 TL5 HO/PL-L III	220-240	50/60	12	1	UNP / 12 12	HFP254TL5HOIII	86351200
HF-P 280 TL5/PL-L III	220-240	50/60	12	3	INO / 12 12	HFP280T5PLLEIII	95230800

HF-Performer III for TL-D lamps



An energy-efficient solution

HF-Performer III TLD is a sustainable, slim and high-frequency electronic ballast for TL-D fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy-efficient (CELMA EEI A2).

Product Features

- 50,000-hour lifetime at maximum case temperature, combined with over 60,000 on/off switches on one lamp
- Programmed, flicker-free, pre-heated start (< 1.0 s) which allows the lamp to be switched on and off without reducing useful lamp life

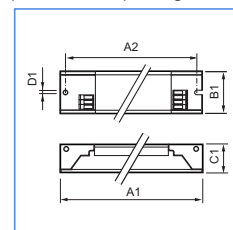
- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- The unit is protected against excessive mains voltage and incorrect connections.

Product Benefits

- The programmed start enables the lamp to be switched on and off without reducing useful lamp life.
- DC emergency operation in line with IEC/EN 60598-22 luminaire norms
- Smart power ensures constant light, irrespective of mains-voltage fluctuations
- Suitable for luminaires in protection class I and, after testing, class II
- The universal connector Wago 251 offers the flexibility for horizontal-manual or push-in robot wiring or vertical ALF-robot wiring.

Application

- Used with movement-detection control systems like Philips OccuPlus
- Indoor applications, such as office buildings, hospitals, supermarkets, department stores, industrial premises and schools
- Class I outdoor applications, e. g. industrial premises and parking lots



Dim. no.	A1 nom.	A2 nom.	BI nom.	CI nom.	DI nom.
1	280	265	30	28	4.2
2	280	265	40	28	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
HF-P 118 TL-D III	220-240	50/60	28	1	INO / 12 12	HFP118TLDIII	91158900
HF-P 136 TL-D III	220-240	50/60	28	1	INO / 12 12	HFP136TLDIII	91164000
HF-P 158 TL-D III	220-240	50/60	28	1	INO / 12 12	HFP158TLDIII	91170100
HF-P 218 TL-D III	220-240	50/60	28	1	INO / 12 12	HFP218TLDIII	91160200
HF-P 236 TL-D III	220-240	50/60	28	1	INO / 12 12	HFP236TLDIII	91166400
HF-P 258 TL-D III	220-240	50/60	12	1	INO / 12 12	HFP258TLDIII	91172500
HF-P 3/418 TL-D III	220-240	50/60	28	2	INO / 10 10	HFP3418TLDIII	91162600

HF-Performer II Xtreme for TL5/TL-D lamps 



Xtreme drivers for long life and reliable performance
 HF-Performer Xtreme is a unique X-technology from Philips that guarantees the highest lifetime reliability for lamps and enables an extra-long and reliable HF system life with an energy efficiency index (CELMA EEI) of A2.

Product Features

- Protects against transient voltage peaks of up to 4 kV and excessive mains voltage and incorrect connections of up to 400 V
- Programmed, flicker-free, pre-heated start (< 2.0 s) which allows the lamp to be switched on and off without reducing useful lamp life

- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- Suitable for emergency lighting luminaires in accordance with IEC/EN 60598-22

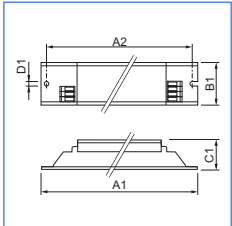
Product Benefits

- HF-P XT has double the lifetime of standard HF gear due to the special cooler "Xtreme" long-life low-failure product design.
- Suitable for use in outdoor and industrial environments because the units are protected against transients; also suitable for class I and class II luminaires
- Extreme thermal robustness with average lifetime of 50,000 hours at Tcase = 85°C; also extreme reliability and reduced failure rate of 0.1%/1,000 hours

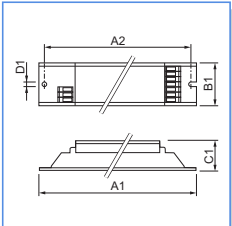
HF-P Xtreme gear is optimized for the unique dosing of the emitter, resulting in an optimized lamp life

Application


- Ideal for applications with high maintenance costs or where lamp failure is unacceptable
- Used with movement-detection control systems like Philips OccuPlus
- Applications where gear replacement can cause unsafe situations, hassle or high costs, such as installations with high ceilings or in geographically remote areas, tunnels, airports or underground railway stations
- Industrial premises such as food processing and petrochemical plants



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	28	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
2	360	350	30	28	4.2
3	425	415	30	28	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Dim. no.	Packing type/ Packing configuration 	National Order Code	Ordering number 871 1500...
HF-P Xt 136 TL-D EII	220-240	50/60	28	1	UNP / 12 12	HFPXT136TLDEII	91200830
HF-P Xt 154 TL5 EII	220-240	50/60	28	1	UNP / 12 12	HFPXT154TL5EII	91429330
HF-P Xt 158 TL-D EII	220-240	50/60	28	1	UNP / 12 12	HFPXT158TLDEII	91204630
HF-P Xt 180 TL5 EII	220-240	50/60	12	1	UNP / 12 12	HFPXT180TL5EII	91440830
HF-P Xt 236 TL-D EII	220-240	50/60	12	2	UNP / 12 12	HFPXT236TLDEII	91202230
HF-P Xt 249 TL5 EII	220-240	50/60	12	2	UNP / 12 12	HFPXT249TL5EII	91427930
HF-P Xt 254 TL5 EII	220-240	50/60	12	2	UNP / 12 12	HFPXT254TL5EII	91431630
HF-P Xt 258 TL-D EII	220-240	50/60	12	2	UNP / 12 12	HFPXT258TLDEII	91206030
HF-P Xt 280 TL5 EII	220-240	50/60	8	3	INO / 12 12	HFPXT280TL5EII	91442230



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

Product Features

- 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

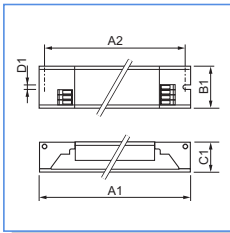
Product Benefits

- 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

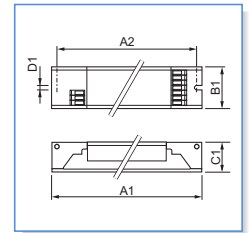
- Cooler product allows more compact luminaire design
- Fast preheat for short ignition time (0.5 s)

Application

- 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-ignition < 0.5 s



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	359	350	30	28	4.2
2	360	350	30	22	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
3	425	415	39	28	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-P 1 95-120 TL5 EII	220-240	50/60	12	1	INO / 12 12	HFP195120TL5VHO	91482830
HF-P 2 95-120 TL5 EII	220-240	50/60	6	3	INO / 10 10	HFP295120TL5VHO	91484230
HF-P 3/414 TL5 EII	220-240	50/60	28	2	UNP / 12 12	HFP3414TL5EII	05984030

HF-Performer II for TL-D lamps



Product Features

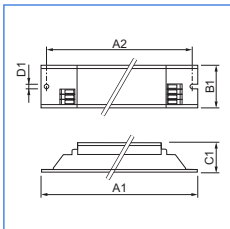
- Programmed start: flicker-free, warm start circuit preheats (0.5 s) the lamp electrodes; lamps can be switched on and off without reducing useful life
- Smart power: constant light independent of mains voltage fluctuations
- Unit is protected against excessive mains voltages and incorrect connections
- Automatic stop circuit is activated within 5 seconds in case of lamp failure (safety stop); ballast resets automatically after lamp replacement
- Universal connector for both manual and automatic wiring

Product Benefits

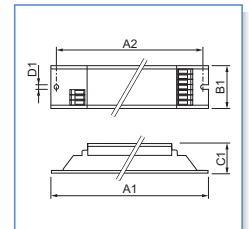
- Unique benefits of the new Philips EII technology:
 - Optimized system efficiency, minimized ballast power losses
 - Miniaturised 280 mm length for total linear HF-Performer PLL range
 - Simplified portfolio allowing flexible, modular luminaire design
 - Cooler product allows more compact luminaire design
 - Fast preheat for short ignition time (0.5 s)
- 50% longer lamp life than with conventional ballasts
- Up to 25% reduction in energy consumption at constant luminous flux compared with conventional gear

Application

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



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	280	265	30	28	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
2	280	265	30	28	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-P 170 TL-D EII	220-240	50/60	28	1	UNP / 12 12	HFP170TLDEII	93411630
HF-P 270 TL-D EII	220-240	50/60	12	2	UNP / 12 12	HFP270TLDEII	05863830

HF-Performer III for PL-L lamps



An energy-efficient solution

HF-Performer III PL-T/C is a sustainable, slim and high-frequency electronic ballast for PL-L fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy efficient (CELMA EEI A2 BAT).

Product Features

- 50,000-hour lifetime at maximum case temperature, combined with over 60,000 on/off switches on one lamp
- Programmed, flicker-free, pre-heated start (<1.6 s) which allows the lamp to be switched on and off without reducing useful lamp life

- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- The unit is protected against excessive mains voltage and incorrect connections.

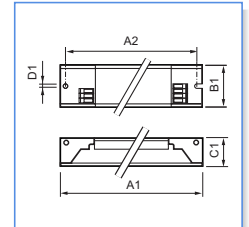
Product Benefits

- Robust design that meets all relevant international safety and performance standards, in combination with good energy efficiency
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.
- Suitable for DC emergency operation, 186 to 275 V (at -10°C) and in line with IEC/EN 60598-22 luminaire norms

Application

- Ideal for commercial indoor lighting applications where it is necessary to reduce the wattage per square meter or operating costs

- Used with movement-detection control systems like Philips OccuPlus
- Mainly for indoor applications, such as spotlights, downlights and recessed fixtures used primarily in retail stores, office buildings, supermarkets, hotels, convenience stores and industrial premises with long operating hours (e. g. corridors)



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	280	265	30	28	4.2
2	360	350	30	22	4.2
3	425	415	30	21	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(1.6A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
HF-P 136 PL-L III	220-240	50/60	28	1	INO / 12 12	HFP136PILLEIIL	95191200
HF-P 140 PL-L III	220-240	50/60	28	1	INO / 12 12	HFP140PILLEIIL	95195000
HF-P 154/155 TL5 HO/PL-L III	220-240	50/60	28	2	UNP / 12 12	HFP154TL5HOIII	86348200
HF-P 155 PL-L III	220-240	50/60	28	1	INO / 12 12	HFP155PILLEIIL	95199800
HF-P 236 PL-L III	220-240	50/60	28	1	INO / 12 12	HFP236PILLEIIL	95193600
HF-P 240 PL-L III	220-240	50/60	12	1	INO / 12 12	HFP240PILLEIIL	95197400
HF-P 254/255 TL5 HO/PL-L III	220-240	50/60	12	2	UNP / 12 12	HFP254TL5HOIII	86351200
HF-P 255 PL-L III	220-240	50/60	12	1	INO / 12 12	HFP255PILLEIIL	95201800
HF-P 280 TL5/PL-L III	220-240	50/60	12	3	INO / 12 12	HFP280T5PILLEIIL	95230800



HF-Performer III for PL-T/C lamps



An energy-efficient solution

HF-Performer III PL-T/C is a sustainable, slim and high-frequency electronic ballast for PL-T and PL-C fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy efficient (CELMA EEI A2).

Product Features

- 50,000-hour lifetime at maximum case temperature, combined with over 60,000 on/off switches on one lamp
- Programmed, flicker-free, pre-heated start (< 2.0 s) which allows the lamp to be switched on and off without reducing useful lamp life

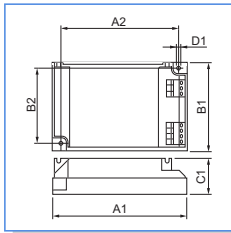
- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- The unit is protected against excessive mains voltage and incorrect connections.

Product Benefits

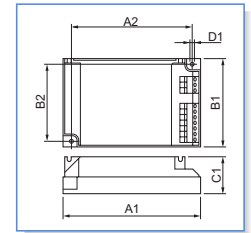
- Robust design that meets all relevant international safety and performance standards, in combination with good energy efficiency
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.
- Suitable for DC emergency operation, 186 to 275 V (at -10°C) and in line with IEC/EN 60598-22 luminaire norms

Application

- Ideal for commercial indoor lighting applications where it is necessary to reduce the wattage per square meter or operating costs
- Used with movement-detection control systems like Philips OccuPlus
- Mainly for indoor applications such as spotlights, downlights and recessed fixtures used primarily in retail stores, office buildings, supermarkets, hotels and convenience stores
- Industrial premises with long operating hours



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	103.8	93.5	67.8	57.5	30	4.2



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	103.8	93.5	67.8	57.5	30	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
HF-P 118 PL-T/C III	220-240	50/60	28	1	UNP / 12 12	HFP118PLTCIII	83416100
HF-P 218 PL-T/C III	220-240	50/60	28	2	UNP / 12 12	HFP218PLTCIII	83417800

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



An energy-efficient solution

HF-Performer EII PL-T/C/R/TL5C is a sustainable, slim and high-frequency electronic ballast for a wide range of CFL ni applications. It is ideal for applications where high energy efficiency is required. The HF-Performer EII range has a robust design, meets all relevant international safety and performance standards and is energy-efficient (CELMA EEI A2).

Product Features

- 50,000-hour lifetime at maximum case temperature, combined with over 60,000 on/off switches on one lamp
- Programmed, flicker-free, pre-heated start (< 1.5 s) which allows the lamp to be switched on and off without reducing useful lamp life

- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- The unit is protected against excessive mains voltage and incorrect connections.

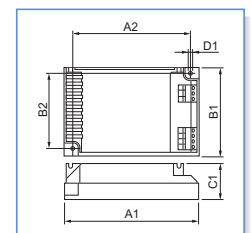
Product Benefits

- Robust design that meets all relevant international safety and performance standards and ensures good energy efficiency
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping
- Suitable for DC emergency operation, 186 to 275 V (at -10 oC) and in line with IEC/EN 60598-22 luminaire norms

Application

- Ideal for commercial indoor lighting applications where it is necessary to reduce the wattage per square meter or operating costs

- Used with movement-detection control systems like Philips OccuPlus
- Mainly for indoor applications such as spotlights, downlights and recessed fixtures used largely in retail stores, office buildings, supermarkets, hotels, convenience stores
- Industrial premises with long operating hours



A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
103	93.5	67	57.5	30	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (16A type B) (x)	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-P 113-17 PL-T/C/R EII	220-240	50/60	28	UNP / 12 12	HFP11317PLTCR	91407130
HF-P 122-42 PL-T/C/L/TL5C EII	220-240	50/60	28	UNP / 12 12	HFP12242PLTICIL	91397530
HF-P 213-17 PL-T/C/R EII	220-240	50/60	28	UNP / 12 12	HFP21317PLTCR	91409530
HF-P 222-42 PL-T/C/L/TL5C EII	220-240	50/60	12	UNP / 12 12	HFP22242PLTICIL	91399930

HF-Matchbox Red



Robust design, compact form
HF-Matchbox Red is an affordable, reliable, compact, lightweight and high-frequency ballast for use with system wattages below 25 W in combination with TL mini, TL-D, TL5 and TL5c, PL-T/C, and PL-L/S lamps.

The HF-M Red range has a robust design, meets all relevant international safety and performance standards and has an energy efficiency index (CELMA EEI) of A2.

Product Features

- Over 60,000 on/off switches on one lamp (depending on lamp/ballast combination)
- Suitable for emergency DC operation between 190 and 254 V
- Programmed, flicker-free, pre-heated start (<0.8 s) which allows the lamp to be switched on and off without reducing useful lamp life

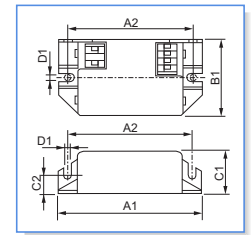
Product Benefits

- Can be operated with movement-detection control systems.

- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.
- Suitable for use in class I or class II luminaires

Application

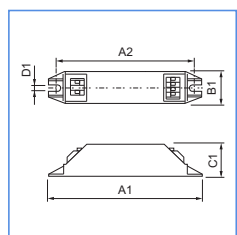
- Used with movement-detection control systems like Philips OccuPlus
- Mainly for indoor applications such as spotlights, downlights, light boxes, and emergency and security fixtures used largely in retail stores, office buildings, hotels, private homes and residential buildings
- Domestic applications such as outdoor garden lighting, garage areas, stairways



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	C2 nom.	D1 nom.
1	80	70	40	22	10	4.4
2	80	70	40	22	10	4.2
3	94	70	40	22	10	4.4

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (1&A type B) (x)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
HF-M RED 109 SH TL/PL-S	230-240	50/60	159	1	INO / 50	50	HFMRED109SH	93142930
HF-M RED 114 SH TL/TL5/PL-C/S	230-240	50/60	101	2	INO / 50	50	HFMRED114SH	93140530
HF-M RED 118 SH PL-C/PL-T	230-240	50/60	73	1	UNP / 50	50	HFMRED118SH	92802330
HF-M RED 124 SH TL/TL5/PL-L	230-240	50/60	48	3	UNP / 50	50	HFMRED124SH	91040030

HF-Matchbox Blue



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	C2 nom.	D1 nom.
1	144	132	22	22	4.4	
2	187	176	22	22	4.4	

Robust design, compact form

HF-Matchbox Blue is an affordable, reliable, compact, lightweight and high-frequency ballast for use with system wattages below 25 W in combination with TL mini, TL-D, TL5 and TL5c, PL-T/C, and PL-L/S lamps. The HF-M Blue range has a robust design, meets all relevant international safety and performance standards and has an energy efficiency index (CELMA EEI) of A2.

Product Features

- Suitable for emergency DC operation between 190 and 254 V

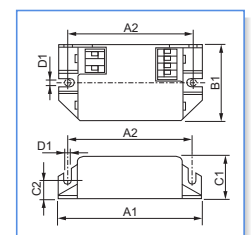
- Programmed, flicker-free, pre-heated start (<0.8 s); over 8,000 on/off switches on one lamp (depending on lamp/ballast combination)
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.

Product Benefits

- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.
- Suitable for use in class I or class II luminaires

Application

- Used with movement-detection control systems like Philips OccuPlus in applications where lamps burn for a long period of time and the switching cycle is infrequent (e. g. a maximum of three times per day)
- Mainly for indoor applications such as spotlights, downlights, light boxes, and emergency and security fixtures used largely in retail stores, office buildings, hotels, private homes and residential buildings
- Domestic applications such as outdoor garden lighting, garage areas, stairways



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	C2 nom.	D1 nom.
3	94	84	40	22	10	4.4

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB (1&A type B) (x)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
HF-M BLUE 109 LH TL/PL-S	230-240	50/60	159	1	UNP / 50	50	HFMBLUE109LH	53680830
HF-M BLUE 114 LH TL/PL-S/PL-C	230-240	50/60	101	1	INO / 50	50	HFMBLUE114LH	53682230
HF-M BLUE 121 LH TL5	230-240	50/60	59	2	UNP / 50	50	HFMBLUE121LH	53646430
HF-M BLUE 124 SH TL/TL5/PL-L	230-240	50/60	60	3	INO / 50	50	HFMBLUE124SH	53638930
HF-M BLUE 124 LH TL/TL5/PL-L	230-240	50/60	60	2	UNP / 50	50	HFMBLUE124LH	53640230
HF-M BLUE 128 LH TL5	230-240	50/60		2	UNP / 50	50	HFMBLUE128LH	93243330

HF-Performer TL5 Circular



Product Description

- Compact, square, lightweight, High Frequency electronic ballasts for TL5 Circular lamps

Product Features

- Programmed start: flicker-free, warm-start circuit
- 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

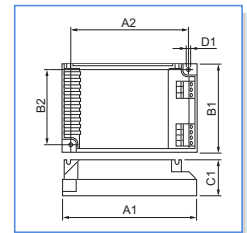
Product Benefits

- 50% longer lamp life than with conventional ballasts
- Up to 25% energy saving at constant luminous flux compared with conventional ballasts
- Constant light independent of mains voltage fluctuations

Application

- Ideal for applications with high switching frequency, for example:
 - Use with infrared remote control systems (e. g. movement detection)
 - Department stores, shops, supermarkets, hotels, hospitals, office buildings

- Airports
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-22 with re-ignition < 0,5 s



Dim. no.	A1	A2	B1	B2	C1	D1
1	103	93.5	67	57.5	30	4.5

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(I6A type B) (x)	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
HF-P 155 TL5C	220-240	50/60	28	UNP / 36 36	HFP155TL5C	92776730
HF-P 160 TL5C	220-240	50/60	28	UNP / 36 36	HFP160TL5C	92778130

Halogen electronic transformers

Primaline Halogen Transformers



Product Description

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

Product Features

- Very compact and lightweight design; fits in small downlight halogen applications
- Three levels of protection: over-voltage, over-temperature and short circuit
- Long lifetime: 50,000 hours

- Dimming possible with Philips-approved Leading and Trailing Edge dimmers
- Possible to connect two lamps for 70 and 105 W, and three lamps for 150 W

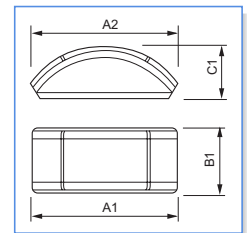
Product Benefits

- Low power losses, resulting in increased energy saving
- Constant light output in the case of under-voltage and a full service life in the case of over-voltage
- ENEC, SELV, CE and EMC-compliant

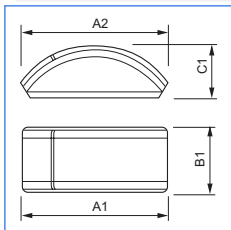
Application

- Indoor residential use including living rooms and decorative and accent lighting

- Professional applications including retail, offices, conference rooms and exhibitions



Dim. no.	A1	B1	C1
1	145	51	33



Dim. no.	A1	B1	C1
1	110	45	33

Type	Line Voltage (V)	Line Frequency (Hz)	Rated Ballast-Lamp Power (W)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
Primaline 105	230-240	50/60	50-105	1	ICT / 50 50	PRIMALINE 105	91268830
Primaline 150	230-240	50/60	70-150	2	ICT / 50 50	PLINEHAL150	91270130
Primaline 70	230-240	50/60	35-70	1	ICT / 50 50	PRIMALINE 70	91266430

Certaline Halogen Transformers



Product Description

- Electronic halogen transformer for low voltage halogen lamps the range include Certaline 60 W 230-240 V and Certaline105W 230-240 V

Product Features

- Extremely compact dimensions for the 60 W model
- Three levels of protection: over-voltage, over-temperature and short circuit
- Long lifetime: 20,000 hours

- Dimming possible with Philips-approved Trailing Edge dimmers
- Possible to connect two lamps for 105 W, and three lamps for 150 W

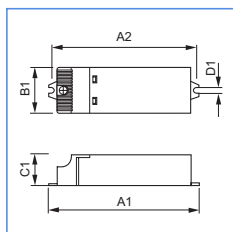
Product Benefits

- Suitable for independent operation thanks to robust strain-relief
- VDE, SELV, CE and EMC-compliant

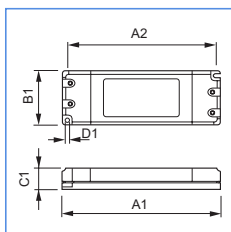
Application

- Indoor residential use including living rooms and decorative and accent lighting

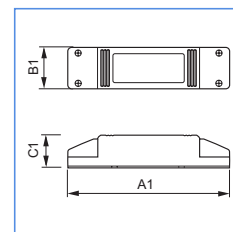
- Professional applications including retail, offices, conference rooms and exhibitions



Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	107	32	22



Dim. no.	A1 nom.	B1 nom.	C1 nom.
2	146	50	19.5



Dim. no.	A1 nom.	B1 nom.	C1 nom.
3	180	46	36

Type	Line Voltage (V)	Line Frequency (Hz)	Rated Ballast-Lamp Power (W)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
Certaline 60W	230-240	50/60	20-60	1	ICT / 100 100	CERTALINE60W	91378430
Certaline 105W	230-240	50/60	35-105	2	ICT / 100 100	CERTALINE105W	91380730
Certaline 150W	230-240	50/60	50-150	3	ICT / 50 50	CERTALINE150W	91385230

LED Electronic Drivers

Xitanium Constant Voltage Outdoor



Optimal choice for parallel connections

Constant Voltage Outdoor LED drivers deliver a highly stable output voltage and are SELV (Safety Extra Low Voltage) compliant. These drivers are the perfect choice for enabling easy modular connection of multiple LED PCBs in parallel. The Constant Voltage Outdoor category offers excellent reliability and ensures a simplified installation process. Robust design reduces maintenance and lowers the cost of ownership over the application lifetime.

Product Features

- Stable output voltage
- Robust protection against moisture
- Minimum 50,000 h lifetime

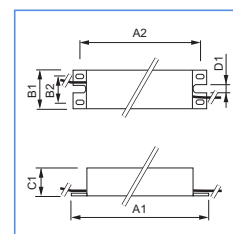
Product Benefits

- SELV operating voltages ensure safety even if wiring or LED boards become damaged
- Easy installation with simple parallel wiring
- Excellent reliability

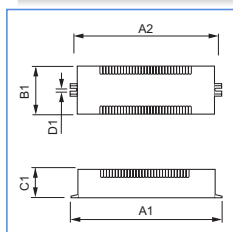
Application

- Refrigerated display lighting

- Signage applications - channel letter and contour lighting
- Architectural and decorative lighting



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
2	241	228.6	43	26.6	30	4.4



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	150	140	37	25	4.4

Type	Input Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
LED Power Driver Outd. 100-240V 20W 24V	50/60	1	UNP / 10 10	LPD-20WLED	91194030
LED Power Driver Outd. 100-240V 60W 24V	50/60	2	UNP / 10 10	LPD-60WLED	91146930
LED Power Driver Outd. 100-240V 100W 24V	50/60	2	UNP / 10 10	LPD-100WLED	91196430

Xitanium Constant Current Outdoor



Optimal choice for low voltage
 Long-lasting and low maintenance, LED-based light sources are an excellent solution for outdoor environments. For optimal performance, LED luminaires require reliable drivers which match the long lifetime of the LEDs.
 Xitanium Constant Current Outdoor product family offers a selection of LED drivers with lower output voltages in a range of convenient form-factors and wattages. The Xitanium Outdoor

drivers are SELV (Safety Extra Low Voltage) compliant, enabling easy LED light engine design.

Product Features

- Portfolio includes wide choice of output current
- Robust protection against moisture and vibration
- Minimum 50,000 h lifetime

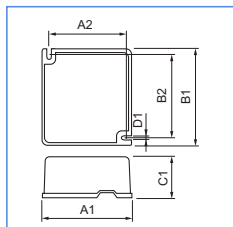
Product Benefits

- SELV operating voltages ensure safety even if wiring or LED boards become damaged

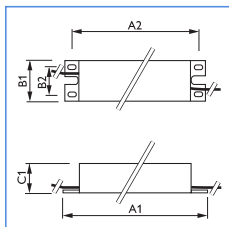
- Excellent reliability
- Wide range of form-factors and wattages to match all application needs

Application

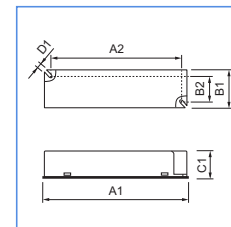
- Signage applications - channel letter and contour lighting
- Architectural lighting
- Emergency and security lighting



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
1	88.9	76	83	70	38	3.8



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.
2	240	225	43.2	30	29.5



Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
3	132	122.4	34.2	24.6	25	4.5

Type	Input Frequency (Hz)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
LED Driver Outdoor 40W/1.75A-24V 230V	50	1	INO / 12	12	XTMSELV1.75A40W	91273230
LED Driver Outdoor 67W/2.80A-24V 230V	50	2	INO / 20	20	XTMSELV2.80A67W	93120730
LED Driver Outdoor 80W/3.15A-24V 230V	50	2	INO / 20	20	XTMSELV3.15A80W	93124530
LED Driver Outdoor 12W/0.35A-33V 230V	50	3	INO / 10	10	XTMSELV0.35A12W	93045330

Xitanium Constant Current Xtreme



Breakthrough in performance, flexibility and reliability

Xitanium Xtreme LED drivers provide constant current output, optimal for a single string of LEDs.

With exceptional operating efficiency, our drivers significantly reduce energy costs. The Xitanium Xtreme portfolio offers both central and standalone dimming protocols further increasing the energy savings and CO₂ reductions achieved with LED lighting. The fully programmable drivers deliver all dimming options and a range of currents in a single driver. System reliability is maximized with intelligent temperature monitoring of the LED light engine. The full portfolio offers maximum flexibility with customizable operating settings, delivering optimal performance tailored for each design.

Product Features

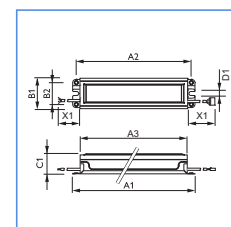
- Xtreme standard: Long lifetime, robust protection against moisture, vibration and temperature extremes
- Module temperature protection
- Adjustable output current
- Constant Light Output
- Multiple dimming protocols

Product Benefits

- Design flexibility - one driver can be programmed for many different luminaire designs
- Improved logistics and stock management
- Peace of mind on product performance

Application

- Urban street lighting
- Functional road & tunnel lighting
- Area and flood illumination



A1 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
240.5	226.2	211.1	59.1	42.9	37.1	8

Type	Input Frequency (Hz)	Packing type/Packing configuration		National Order Code	Ordering number 8727900...
Xitanium 150W 0.70A 230V sXt 150W 0.70A	50/60	UNP / 10	10	XTM0.70A150W	80917600

Xitanium/Fortimo LED Drivers indoor dimmable



Product Description

Xitanium and Fortimo LED drivers are specially designed to operate LED solutions for general lighting applications such as downlighting, spot/accent lighting and linear lighting. Flexibility in luminaire design is assured

thanks to an adjustable output current (AOC) and, in most independent versions, a new modern 3-in-1 housing design.

The adjustable output current enables operation of various LED configurations from different LED manufacturers, as well as ensuring the solution can accommodate new LED generations – making it “future-proof”. There are special dimmable versions which enable the use of lighting controls for further energy savings.

Product Features

- The output current can be set by placing a resistor on your LED PCB (Level 2 board)
- Versions with trailing edge (TE) and Touch & DALI dimming protocols
- Temperature derating via negative thermal coefficient (NTC)

- Most LED drivers integrate I2 V output for active cooling
- New flexible housing design offering independent, screw and click mounting
- Hot wiring (Xitanium types)
- Improved ripple current

Product Benefits

- Highly efficient LED drivers
- Adjustable output current (AOC)
- New “TD” version offers dynamic active cooling (via PWM protocol), optimizing energy efficiency

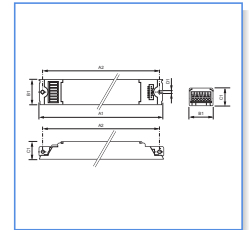
Application

- Offices (more ‘prestigious’ spaces such as reception areas, boardrooms, restaurants, etc.)
- Public buildings (airports, cinemas, theaters, exhibition halls)
- High-end shops
- Retail (supermarkets, bakery/ butcher’s shops, leather goods, etc.)

System

Recommended dimmer list for trailing edge (TE) dimming types:

- Busch-Jaeger: 65I3U-I02
- Jung-licht management: 225T DE
- Siemens 5TC8 284
- PEHA Tronic-Dimmer 433 HAB
- Wuyun WB3-C I62
- Everflourish EFE700D



A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
360	350	30	22	4.1

Type	Input Frequency	Packing type/ Packing configuration	National Order Code	Ordering number
	(Hz)			8718291...
Xitanium 75W/0.2-0.4A 200V TD 230V 75W/0.2-0.4A 200V	50/60	UNP / 12	XTM75W200VTD	I 1850300

Xitanium LED Driver Indoor Dimmable



Product Description

- LED driver indoor 10 W dimmable is a dedicated driver to deliver power to 3 pcs of 700 mA LEDs in series, suitable for nominal 220 V to 240 V, 50 Hz and 60 Hz mains supply. The driver is to be mounted inside or outside luminaires for indoor use and class II applications. The output must be connected to the 3 LEDs in series
- LED driver indoor 30 W dim is a dedicated driver to deliver power to 6 12 pcs of 700 mA LEDs in series, suitable for nominal 220 V to 240 V, 50 Hz and 60 Hz mains supply. The driver is to be mounted inside luminaires for indoor use and class II applications. The output must be connected to the 6 12 LEDs in series

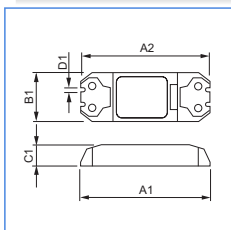
- Both drivers convert AC mains to constant current output by an AC/DC transition. Users can connect a trailing edge dimmer at the input side to dim the LEDs' light output

Features and Benefits

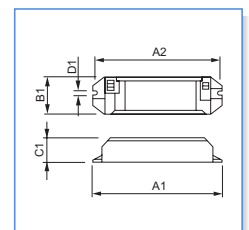
- Unique LED drivers dimmable on the mains (in combination with trailing edge dimmers)
- Excellent dimming performance - no dimming steps visible
- Can dim down to 20% or even less (depending on the dimmer)
- No humming, no flickering
- High Power Factor, low THD
- Short circuit protection
- Open circuit protection
- Independent thanks to its cable strain relief clamp (for 10w only)
- SELV

Application

- Philips LED indoor dimming drivers are designed for the market's wide variety of applications, such as controlling light effect on Spot lighting or Decorative lighting
- Indoor Spot and Decorative light applications include Dining, Reading, Living, Restaurant, Shops, Stage and Museum...



Dim. no.	A1	A2	B1	B2	C1	D1
	nom.	nom.	nom.	nom.	nom.	nom.
1	120	114.5	45	13.5	19.8	3.5



Dim. no.	A1	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	nom.
2	150	136.2	40	28	4.2

Type	Input Frequency	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
	(Hz)				8710163...
Xitanium LED Driver 10W/0.70A-14V DIM	50/60	1	UNP / 36	XTM-DIMMABLE10W	06416130
Xitanium LED Driver 30W/0.70A-42V DIM	50/60	2	UNP / 20	XTM-DIMMABLE30W	06421500

Lighting Technology

Fundamentals of Light and Colour

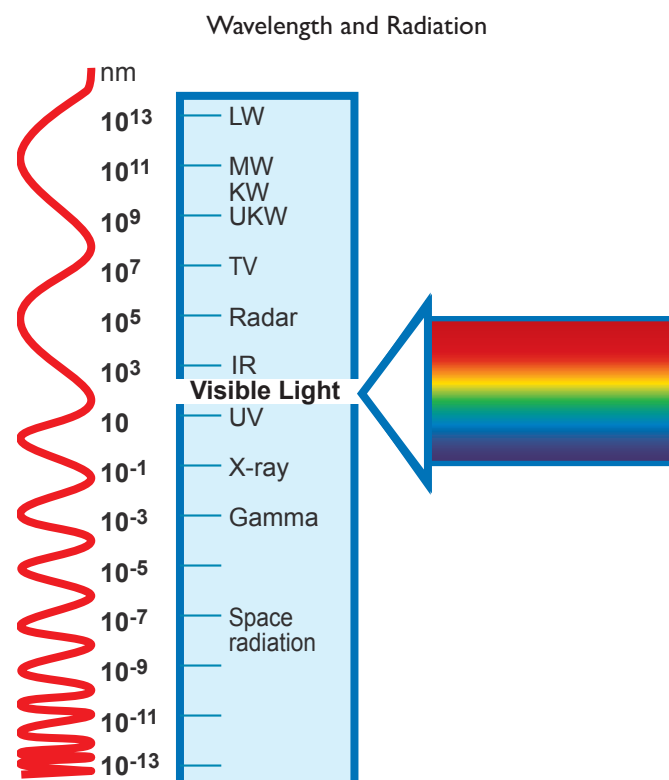
1. Radiation

Radiation is the emission and transmission of energy in the form of electro-magnetic waves of a specific frequency and wavelength. The propagation velocity of the electro-magnetic waves in vacuum is approx. 300,000 km/s independent of the frequency. In radioparent gases, fluids and solid bodies the propagation velocity is always less than in vacuum. Most physical phenomena related to the propagation of radiation can be explained with the theory of electro-magnetic waves.

Interactions between matter and radiation though are explained with quantum theory. It states that energy is emitted and absorbed only in elementary quantities by so called quanta or photons. Examples of phenomena taken from quantum theory are photo electric, chemical or biological effects.

2. Optical radiation

Optical radiation represents a small part of the spectrum of electro-magnetic waves of about 1 nm to 1 mm wavelength. It comprises visible radiation, which stimulates the sensation of brightness in the eye and is called light as well as the two adjacent kinds of radiation in the spectrum.



These two are ultra-violet radiation (UV) in the direction of shorter wavelengths and infrared radiation (IR) in the direction of longer wavelengths. The behaviour of the various kinds of optical radiation is largely similar, they can all be generated by artificial radiation sources and directed using optical modules.

Optical radiation is subdivided as follows, taking into account the fact that the boundaries cannot be clearly defined and that, in the case of light, they depend on the individual person's visual faculties:

Ultra-violet radiation:

UV-C 100 nm – 280 nm

UV-B 280 nm – 315 nm

UV-A 315 nm – 380 nm

Infrared radiation:

IR-A 780 nm – 1,4 μ m

IR-B 1,4 μ m – 3,0 μ m

IR-C 3,0 μ m – 1,0 mm

Visible radiation:

Light 380 nm – 780 nm

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 analyze cheques and bank notes as well as to create decorative effects in advertising. Infrared radiation (IR) is being absorbed by material and transformed into heat especially in the shortwave range.

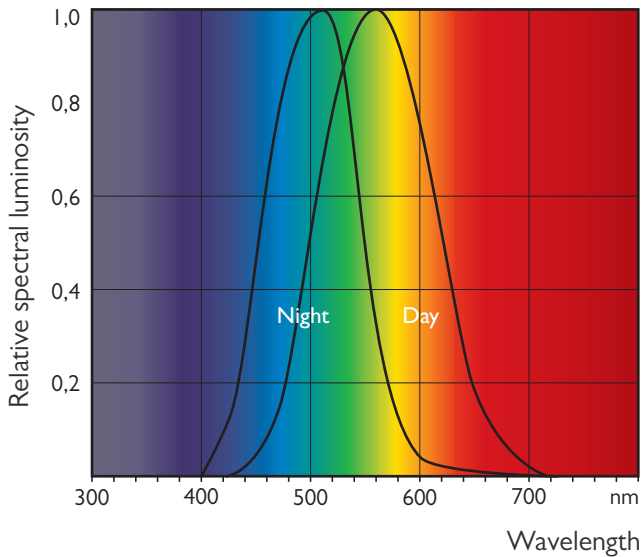
The spectrum of visible radiation (light) can be subdivided into various wavelength ranges, causing certain colour sensations in the human eye:

violet	380 nm – 436 nm	yellow	566 nm – 589 nm
blue	436 nm – 495 nm	orange	589 nm – 627 nm
green	495 nm – 566 nm	red	627 nm – 780 nm

3. Spectral luminosity of the eye

The human eye exhibits various sensitivities to visible radiation depending on its wavelength. Although possessing the same efficiency, a light stimulus of 555 nm e.g. is perceived as much brighter than light stimuli of 400 nm (violet) or 700 nm (red). The CIE has defined the spectral luminosity $V(\lambda)$ for the normal sighted eye in daylight and $V'(\lambda)$ for sight during the night depending on the respective wavelength.

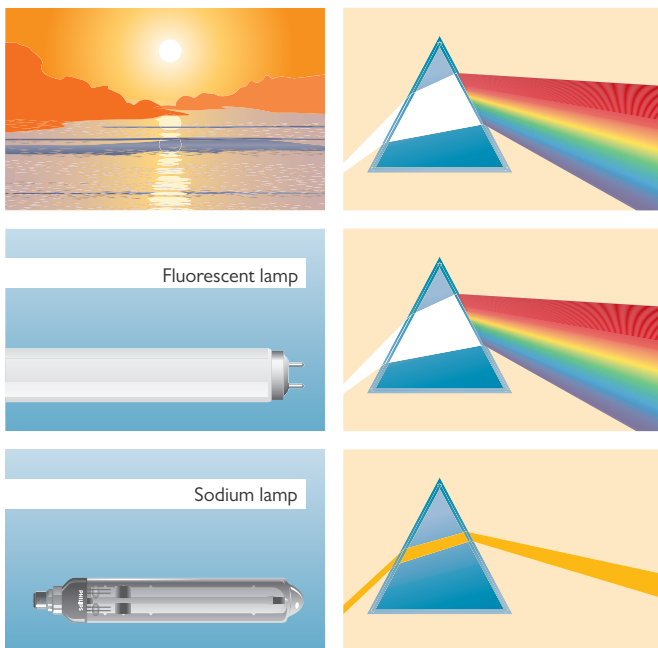
Spectral Luminosity



4. Spectrum

White sunlight is made up of electro-magnetic waves of various lengths. Guiding a narrow beam of sunlight through a glass prism displays a colour spectrum similar to the one we see in a rainbow. During the generation of a rainbow the numerous raindrops in the air act as prisms breaking up the sunlight. Each colour represents a distinctive wavelength. All light waves taken together create the impression of white light.

Light Source and Spectrum



Coloured objects are perceived in their true colour only if the respective colour is present in the spectrum of the light source too. This is the case e.g. with the sun, incandescent and fluorescent lamps with good colour rendering qualities. If the light of a low pressure sodium lamp e.g. is guided through a glass prism though, only yellow radiation can be perceived as the spectrum of this light source lacks all colours except yellow.

5. Fading of materials

Fading of e.g. textiles is an effect of photo chemical processes caused by the absorption of radiation energy. The amount of change in colour depends on the intensity of the illuminance the material is exposed to, the duration of time the material is exposed to the radiation, the temperature and the spectral formation of the radiation; the shorter the wavelength the higher the energy of the radiation. The fading effect can be slowed down by reducing the illuminance, by switching on the light source for short periods of time only, and by using light sources emitting little shortwave radiation.

The fading risk can be calculated using the following formula:

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

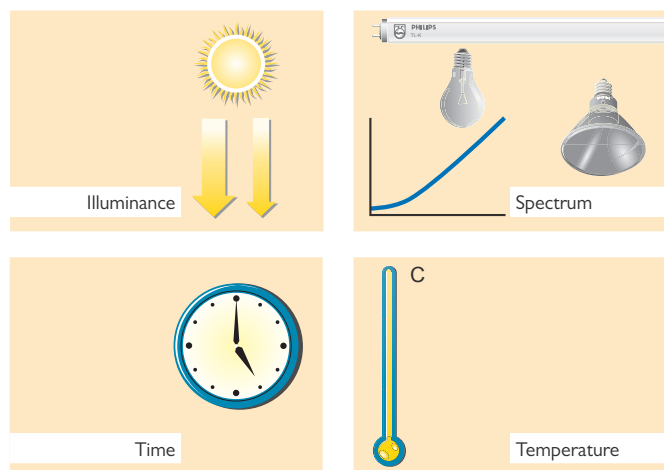
FR = Fading risk DF = Damage factor

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

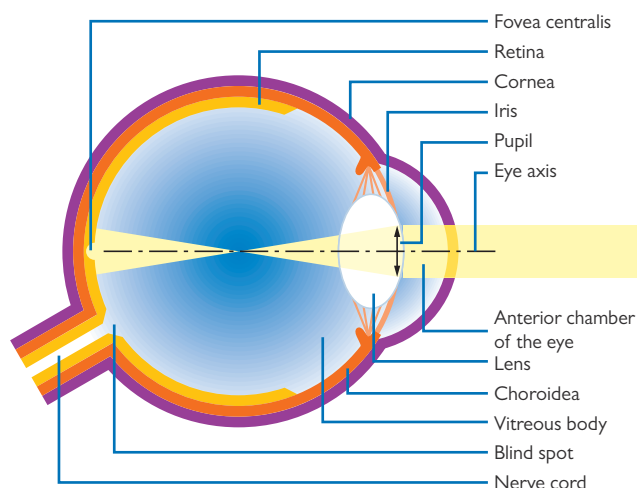
A FR of 100 represents the exposure to light in a shop window during summer with bright sunshine for one hour.

Type of lighting	Damage factor
Daylight through 4 mm window glass	0,43 – 0,68
Incandescent lamps	0,08
Halogen lamps open	0,20
Halogen lamps with envelope or UV block	0,12
SDW-T lamps	0,10
Metal halide lamps open	0,50
Metal halide lamps with envelope	0,25
Light colour fluorescent lamps	
/827	0,20
/830	0,20
/840	0,21
/865	0,26
/930	0,16
/940	0,18
/950	0,26
/33-640	0,27



Fading and Discoloration
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:

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

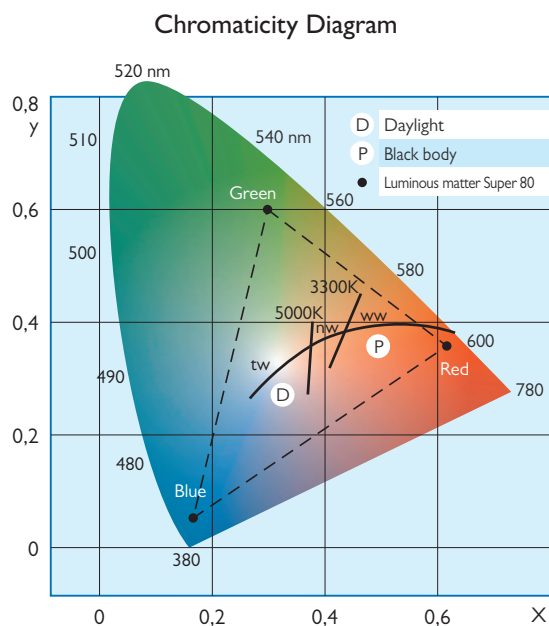
L_1 = Luminance of the background

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

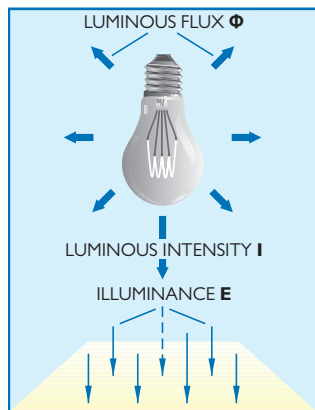
The perception of colour is caused by visible radiation stimulating the receptive system of the eye. The colour stimulus originates either directly from a light source or an object being illuminated or shone through. Object colours are generated by illumination and depend on the respective light's spectrum 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 colourimetric 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

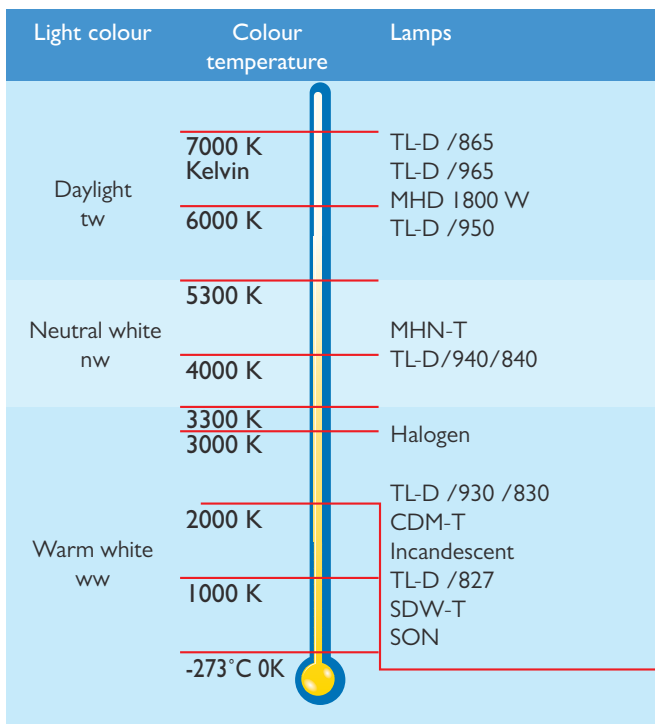
Lighting Technology

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.

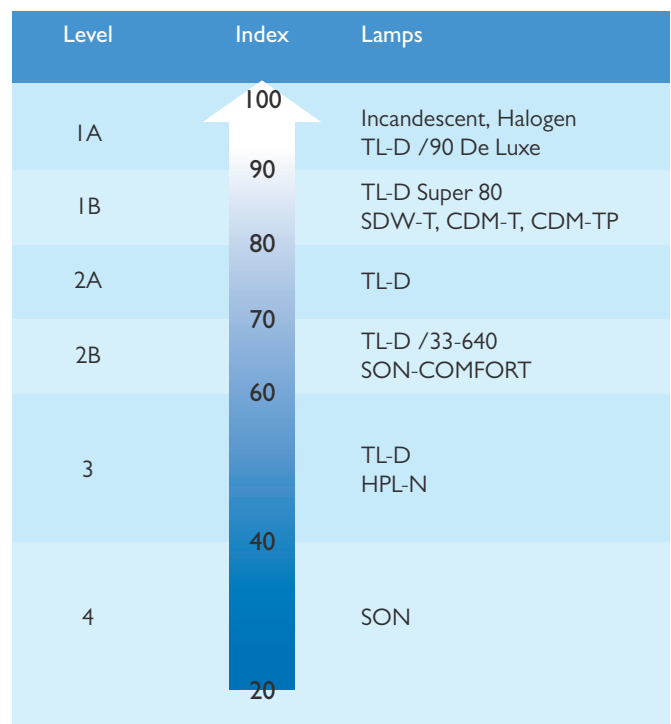
Quality Index — Light Colour



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



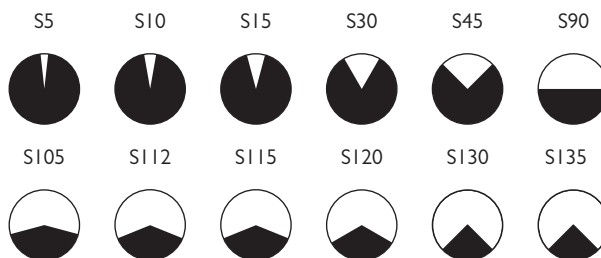
GX24q-1	GX24q-2	GX24q-3	GX24q-4	GX24q-5	GX5	GX7.9
GX8.5	GX9.5	GX95/26	GY16	GY22	GY3.8	GY5.3
GY9.5	GZ4	GZ10	GZ6.35	GZ9.5	GZX/GZY/GZZ 9.5	K12x30s
M4/Multipurpose	P28s	P30s	P32d	P43t.38	PG12-1/PGX12-1	PG12-2/PGX12-2
PG22	PGJ4.1	PGJ5	PGJ5.1/PGJX5.0	PKX22s	(P)SFC	PX22d
PX28s	PY20s	RDC/R17d	R18s	R7s	RX7s	S14d

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			

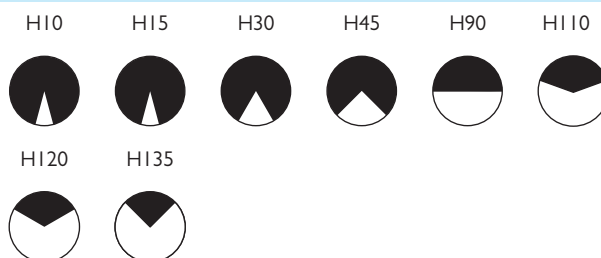
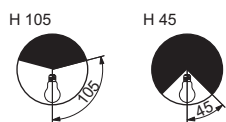
Operating Positions

permitted
 non permitted

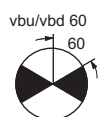
S = vertical (base down)



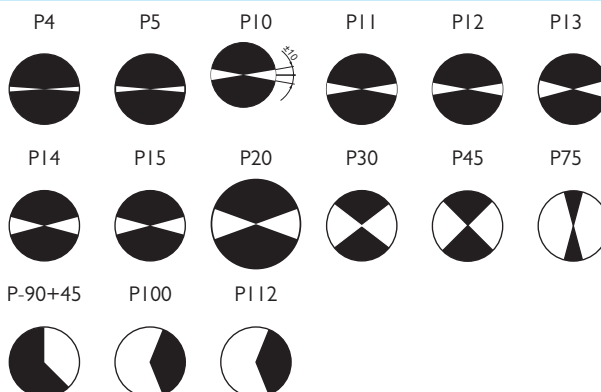
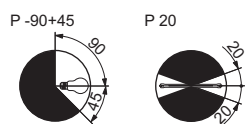
H = vertical (base up)



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



P = horizontal



Universal



ILCOS Overview

ILCOS	Commercial product name	Page
FBG-12/27/1b-230/240-B22	Softone ESaver 12W VVV B22 230-240V T60	35
FBG-12/27/1b-230/240-E27	MASTERAmbiance 12W/827 E27 230-240V	34
FBG-12/27/1b-230/240-E27	Softone ESaver 12W VVV E27 T60	35
FBG-16/27/1b-230/240-E27	MASTERAmbiance 16W/827 E27 230-240V	34
FBG-16/27/1b-230/240-E27	Softone ESaver 16W VVV E27 230-240V T60	35
FBG-20/27/1b-230/240-E27	Softone ESaver 20W VVV E27 230-240V T65	35
FBG-5/27/1b-230/240-E27	Softone ESaver 5W VVV E27 230-240V T60	35
FBG-7/27/1b-230/240-E27	Softone ESaver 7W VVV E27 230-240V T45	35
FBT 15/27/1b-230/240-B22	MASTER PL-Electronic 15W/827 B22 230-240V	32
FBT 15/27/1b-230/240-B22	MASTER PL-Electronic 20W/827 B22 230-240V	32
FBT 15/27/1b-230/240-E27	MASTER PL-Electronic 15W/827 E27 230-240V	32
FBT 20/27/1b-230/240-E27	MASTER PL-Electronic 20W/827 E27 230-240V	32
FBT 23/27/1b-230/240-B22	MASTER PL-Electronic 23W/827 B22 230-240V	32
FBT 23/27/1b-230/240-E27	MASTER PL-Electronic 23W/827 E27 230-240V	32
FBT 27/27/1b-230/240-E27	MASTER PL-Electronic 27W/827 E27 230-240V	32
FBT 35/27/1b-230/240-E27	MASTER PL-Electronic 33W/827 E27 230-240V	32
FBT-11/27/1b-230/240-B22	MASTER PL-Electronic 11W/827 B22 230-240V	32
FBT-11/27/1b-230/240-E27	MASTER PL-Electronic 11W/827 E27 230-240V	32
FBT-12/27/1b-230/240-E27	SL-Electronic 12W VVV E27 230-240V	36
FBT-15/27/1b-230/240-E27	MASTER PL-Electronic Polar 15W/827 E27	36
FBT-16/27/1b-230/240-E27	SL-Electronic 16W VVV E27 230-240V	34
FBT-20/27/1b-230/240-E27	SL-Electronic 20W VVV B22 230-240V	36
FBT-20/27/1b-230/240-E27	PL-Electronic Reflector R80 20W VVV E27 230-240V	36
FBT-20/27/1b-230/240-E27	SL-Electronic 20W VVV E27 220-240V	36
FBT-23/27/1b-230/240-E27	SL-Electronic 23W VVV E27 230-240V	36
FBT-8/27/1b-230/240-B22	MASTER PL-Electronic 8W/827 B22 230-240V	32
FBT-8/27/1b-230/240-E27	MASTER PL-Electronic 8W/827 E27 230-240V	32
FD-13/40/1B-E-G5	MASTER TL Mini Super 80 13W/840	29
FD-13/41/2B-E-G5	TL Mini 13W/33-640	29
FD-15/30/1B-E-G13	MASTER TL-D Super 80 15W/830	22
FD-15/40/1B-E-G13	MASTER TL-D Super 80 15W/840	22
FD-16/40/1B-E-G13-26/604	MASTER TL-D Eco 16W/840	20
FD-18/27/1B-E-G13	MASTER TL-D Super 80 18W/827	22
FD-18/30/1A-E-G13	MASTER TL-D 90 De Luxe 18W/930	27
FD-18/30/1B-E-G13	MASTER TL-D Secura 18W/830	23
FD-18/30/1B-E-G13	MASTER TL-D Super 80 18W/830	22
FD-18/30/1B-E-G13	MASTER TL-D Xtra 18W/830	24
FD-18/30/1B-E-G13	MASTER TL-D Xtra Polar 18W/830 T12	25
FD-18/35/1B-E-G13	MASTER TL-D Super 80 18W/835	22
FD-18/38/1A-E-G13	MASTER TL-D 90 De Luxe 18W/940	27
FD-18/40/1B-E-G13	MASTER TL-D Super 80 18W/840	22
FD-18/40/1B-E-G13	MASTER TL-D Xtra 18W/840	24
FD-18/40/1B-E-G13	MASTER TL-D Xtreme 18W/840	26
FD-18/40/1B-E-G13	MASTER TL-D Xtreme Secura 18W/840	27
FD-18/53/1A-E-G13	MASTER TL-D 90 De Luxe 18W/950	27
FD-18/53/1A-E-G13	MASTER TL-D 90 Graphica 18W/950	28
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	STH-50-H/E-PG12	MASTER SDW-T 50W/825 PG12-1	62
	STH-50/25/1B-GX12-1	MASTER SDW-TG Mini 50W/825 GX12-1	61
	STM-150-H/E-E40	SON-T Comfort 150W/621 E40	78
	STM-250-H/E-E40	SON-T Comfort 250W/621 E40	78
	STM-400-H/E-E40	SON-T Comfort 400W/621 E40	78



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20CDMR11183010	MASTERCcolour CDM-R111 20W/830 GX8.5 10D ICT 6	61
20CDMR11183024	MASTERCcolour CDM-R111 20W/830 GX8.5 24D ICT 6	61
20CDMRM83010	MASTERCcolour CDM-Rm Mini 20W/830 GX10 MR16 10D ICT 12	60
20CDMRM83025	MASTERCcolour CDM-Rm Mini 20W/830 GX10 MR16 25D ICT 12	60
20CDMRM83040	MASTERCcolour CDM-Rm Mini 20W/830 GX10 MR16 40D ICT 12	60
20CDMT830+	MASTERCcolour CDM-T 20W/830 G12 ICT 12	50
20CDMTC830+	MASTERCcolour CDM-TC 20W/830 G8.5 ICT 12	52
20CDMTEVO930	MASTERCcolour CDM-TC Evolution 20W/930 G8.5 ICT 12	56
20CDMTEVO930	MASTERCcolour CDM-T Evolution 20W/930 G12 ICT 12	55
20CDMTM830	MASTERCcolour CDM-Tm Mini 20W/830 PGJ5 ICT 12	57
20CDMTM830GU6.5	MASTERCcolour CDM-Tm Mini GU6.5 20W/830 ICT 12	56
20ESPLE	MASTER PL-Electronic 20W/827 E27 230-240V ICT 6	32
20ESPLEREFL	PL-Electronic Reflector R80 20W WWW E27 230-240V ICT 6	36
20ESSLE	SL-Electronic 20W WWW E27 230-240V ICH 6	36
20ESSOFT10Y	Softone ESaver 20W WWW E27 230-240V T65 1PF 6	35
210CDMTELITE930	MASTERCcolour CDM-TMW Elite 210W/930 ICT 12	69
210CDMTELITE942	MASTERCcolour CDM-TMW Elite 210W/942 ICT 12	69
210CDMTELITE942	MASTERCcolour CDM-TMW Elite 210W/942 CL P ICT 12	69
21830	MASTER T15 HE 21W/830 ISL 40	16
21835	MASTER T15 HE 21W/835 ISL 40	16
21840	MASTER T15 HE 21W/840 ISL 40	16
21865	MASTER T15 HE 21W/865 ISL 40	16
220SONNH	SON H 220W/220 E40 ISL 12	78
22T15C830	MASTER T15 Circular 22W/830 ICT 10	20
22T15C840	MASTER T15 Circular 22W/840 ICT 10	20
23840	MASTER TL-D Super 80 23W/840 ISL 25	22
23BCPLE	MASTER PL-Electronic 23W/827 B22 230-240V ICT 6	32
23ESPLE	MASTER PL-Electronic 23W/827 E27 230-240V ICT 6	32
23ESSLE	SL-Electronic 23W WWW E27 230-240V ICH 6	36
24120ESPAR38	PAR38 120W E27 24V SP 10D ICT 12	102
24830	MASTER T15 HO 24W/830 ISL 40	17
24840	MASTER T15 HO 24W/840 ISL 40	17
24PLL830	MASTER PL-L 24W/830/4P ICT 25	45
24PLL830XTRAPOL	MASTER PL-L Xtra Polar 24W/830/4P ICT 25	47
24PLL840	MASTER PL-L 24W/840/4P ICT 25	45
250CDMT830	MASTERCcolour CDM-T 250W/830 G12 ICT 12	51
250CDMT942	MASTERCcolour CDM-T 250W/942 G12 ICT 12	51
250CDOTTP15S830	MASTER CityWhite CDO-TT Plus 250W/830 E40 ISL 12	69
250HPIPLUSBU	MASTER HPI Plus 250W/745 BU E40 ISL 12	73
250HPIPLUSBP	MASTER HPI Plus 250W/745 BU-P E40 ISL 12	73
250HPIPLUSDBU	MASTER HPI Plus 250W/767 BU E40 ISL 12	73
250HPIPLUS	MASTER HPI-T Plus 250W/645 E40 ISL 12	72
250HPLCOM	HPL Comfort 250W E40 HG CRP 12	79
250HPLN	HPL-N 250W/542 E40 HG ISL 12	79
250SONCOM	SON Comfort 250W/621 E40 ISL 12	78
250SONPLUS	MASTER SON PIA Plus 250W/220 E40 ISL 12	76
250SONPLUSMF	MASTER SON APIA Plus Hg Free 250W E40 ISL 12	75
250SONPLUSXTRA	MASTER SON APIA Plus Xtra 250W E40 ISL 12	74
250SONTCOM	SON-T Comfort 250W/621 E40 ISL 12	78
250SONTPLUS	MASTER SON-T PIA Plus 250W/220 E40 ISL 12	76
250SONTPLUSMF	MASTER SON-T APIA Plus Hg Free 250W E40 ISL 12	75
250SONTPLUSXTRA	MASTER SON-T APIA Plus Xtra 250W E40 ISL 12	74
25830TLSECOXTRA	MASTER T15 HE Xtra Eco 25=28W/830 ISL 40	14
25840TLSECO	MASTER T15 HE Eco 25=28W/840 UNP 40	14
25840TLSECOXTRA	MASTER T15 HE Xtra Eco 25=28W/840 ISL 40	14
25CLICKCL	Clickline 25W G9 240V CL ICT 10X10F	94
25SESOZP	Appliance 25W E14 230-240V T25 CL OV ICT 10X10F	101
26PLC8272PIN	MASTER PL-C 26W/827/2P ICT 5X10CC	40
26PLC8274PIN	MASTER PL-C 26W/827/4P ICT 5X10CC	40
26PLC8302PIN	MASTER PL-C 26W/830/2P ICT 5X10CC	40
26PLC8304PIN	MASTER PL-C 26W/830/4P ICT 5X10CC	40
26PLC8304PXTRA	MASTER PL-C Xtra 26W/830/4P ICT 5X10CC	41
26PLC8354PIN	MASTER PL-C 26W/835/4P ICT 5X10CC	40
26PLC8402PIN	MASTER PL-C 26W/840/2P ICT 5X10CC	40
26PLC8402PXTRA	MASTER PL-C Xtra 26W/840/2P ICT 5X10CC	41
26PLC8404PIN	MASTER PL-C 26W/840/4P ICT 5X10CC	40
26PLC8404PXTRA	MASTER PL-C Xtra 26W/840/4P ICT 5X10CC	41
26PLT8274PINC	MASTER PL-T 26W/827/4P ICT 5X10CC	43
26PLT8302PINC	MASTER PL-T 26W/830/2P ICT 5X10CC	42
26PLT8304PINC	MASTER PL-T 26W/830/4P ICT 5X10CC	43
26PLT8304PINTOP	MASTER PL-T TOP 26W/830/4P ICT 5X10CC	43
26PLT8402PINC	MASTER PL-T 26W/840/2P ICT 5X10CC	42
26PLT8404PINC	MASTER PL-T 26W/840/4P ICT 5X10CC	43
26PLT8404PINTOP	MASTER PL-T TOP 26W/840/4P ICT 5X10CC	43
26SOXE	MASTER SOX-E 26W BY22d T50 ISL 12	81
27ESPLE	MASTER PL-Electronic 27W/827 E27 230-240V ICT 6	32
28830	MASTER T15 HE 28W/830 ISL 40	16
28835	MASTER T15 HE 28W/835 ISL 40	16
28840	MASTER T15 HE 28W/840 ISL 40	16
28840TL5SEC	MASTER T15 HE Secura 28W/840 UNP 40	19
28865	MASTER T15 HE 28W/865 ISL 40	16
28865IP	MASTER T15 HE 28W/865 UNP 40	16
28BCECO30CL	EcoClassic 28W B22 240V B35 CL ICT 15	93
28BCECO30A55	EcoClassic 28W B22 240V A55 CL ICT 10	93
28ESECO30A55	EcoClassic 28W E27 240V A55 CL ICT 10	93
28PLQ8274PIN	PL-Q 28W/827/4P ICT 10	48
28PLQ8304PIN	PL-Q 28W/830/4P ICT 10	48
28PLQ8354PIN	PL-Q 28W/835/4P ICT 10	48
28PLQ8404PIN	PL-Q 28W/840/4P ICT 10	48
28SECECO30CL	EcoClassic 28W E14 240V B35 CL ICT 15	93
28SECECO30P45CL	EcoClassic 28W E14 240V P45 CL ICT 20	94
28WB22ECOC-GOLF	EcoClassic 28W B22 240V P45 CL ICT 20	94
28WE27ECOC-GOLF	EcoClassic 28W E27 240V P45 CL ICT 20	94
30830	MASTER TL-D Super 80 30W/830 ISL 25	22

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30840	MASTER TL-D Super 80 30W/840 ISL 25	22
30840XTRA	MASTER TL-D Xtra 30W/840 ISL 25	24
30MLI11124D	MASTERLine 111 30W G53 12V 24D ICT 6	86
30MLI1118D	MASTERLine 111 30W G53 12V 8D ICT 6	86
315CDMTELITE942	MASTERCcolour CDM-TMW Elite 315W/942 ICT 12	69
32830TLSECOXTRA	MASTER T15 HE Xtra Eco 32=35W/830 ISL 40	14
32830TLDECO	MASTER TL-D Eco 32W/830 ISL 25	24
32840	MASTER TL-D HF Super 80 32W/840 ISL 25	20
32840TLSECO	MASTER T15 HE Eco 32=35W/840 UNP 40	14
32840TLSECOXTRA	MASTER T15 HE Xtra Eco 32=35W/840 ISL 40	14
32840TLDECO	MASTER TL-D Eco 32W/840 ISL 25	20
32PLT8274PINC	MASTER PL-T 32W/827/4P ICT 5X10CC	43
32PLT8304PINC	MASTER PL-T 32W/830/4P ICT 5X10CC	43
32PLT8304PXTRA	MASTER PL-T Xtra 32W/830/4P ICT 5X10CC	44
32PLT8404PINC	MASTER PL-T 32W/840/4P ICT 5X10CC	44
32PLT8404PXTRA	MASTER PL-T Xtra 32W/840/4P ICT 5X10CC	44
33ESPLE	MASTER PL-Electronic 33W/827 E27 230-240V ICT 6	32
350SONNH	SON H 350W/220 E40 ISL 12	78
35830	MASTER T15 HE 35W/830 ISL 40	16
35835	MASTER T15 HE 35W/835 ISL 40	16
35840	MASTER T15 HE 35W/840 ISL 40	16
35865	MASTER T15 HE 35W/865 ISL 40	16
35CDM930PAR2010	MASTERCcolour CDM-R Elite 35W/930 E27 PAR20 10D ICT 12	59
35CDM930PAR2030	MASTERCcolour CDM-R Elite 35W/930 E27 PAR20 30D ICT 12	59
35CDM930PAR3010	MASTERCcolour CDM-R Elite 35W/930 E27 PAR30 10D ICT 6	59
35CDM930PAR3030	MASTERCcolour CDM-R Elite 35W/930 E27 PAR30 30D ICT 6	59
35CDMR11183010	MASTERCcolour CDM-R111 35W/830 GX8.5 10D ICT 6	61
35CDMR11183024	MASTERCcolour CDM-R111 35W/830 GX8.5 24D ICT 6	61
35CDMR11183040	MASTERCcolour CDM-R111 35W/830 GX8.5 40D ICT 6	61
35CDMR11194210	MASTERCcolour CDM-R111 35W/942 GX8.5 10D ICT 6	61
35CDMR11194224	MASTERCcolour CDM-R111 35W/942 GX8.5 24D ICT 6	61
35CDMR11194240	MASTERCcolour CDM-R111 35W/942 GX8.5 40D ICT 6	61
35CDMR830FL20	MASTERCcolour CDM-R 35W/830 E27 PAR30L 30D ICT 6	60
35CDMR830FLP20	MASTERCcolour CDM-R 35W/830 E27 PAR20 30D ICT 12	60
35CDMR830SP	MASTERCcolour CDM-R 35W/830 E27 PAR30L 10D ICT 6	60
35CDMR830SP20	MASTERCcolour CDM-R 35W/830 E27 PAR20 10D ICT 12	60
35CDMR942P2010D	MASTERCcolour CDM-R 35W/942 E27 PAR20 10D ICT 12	60
35CDMR942P2030D	MASTERCcolour CDM-R 35W/942 E27 PAR20 30D ICT 12	60
35CDMRMELI93010	MASTERCcolour CDM-Rm Elite Mini 35W/930 GX10 MR16 10D ICT 12	59
35CDMRMELI93025	MASTERCcolour CDM-Rm Elite Mini 35W/930 GX10 MR16 25D ICT 12	59
35CDMRMELI93040	MASTERCcolour CDM-Rm Elite Mini 35W/930 GX10 MR16 40D ICT 12	59
35CDMT830	MASTERCcolour CDM-T 35W/830 G12 ICT 12	51
35CDMT942	MASTERCcolour CDM-T 35W/842 G12 ICT 12	51
35CDMTC830	MASTERCcolour CDM-TC 35W/830 G8.5 ICT 12	52
35CDMTC942	MASTERCcolour CDM-TC 35W/842 G8.5 ICT 12	52
35CDMTECLITE930	MASTERCcolour CDM-TC Elite 35W/930 G8.5 ICT 12	51
35CDMTECLITE942	MASTERCcolour CDM-TC Elite 35W/942 G8.5 ICT 12	51
35CDMTEVO930	MASTERCcolour CDM-TC Evolution 35W/930 G8.5 ICT 12	56
35CDMTELITE930	MASTERCcolour CDM-T Elite 35W/930 G12 ICT 12	50
35CDMTELITE942	MASTERCcolour CDM-T Elite 35W/942 G12 ICT 12	50
35CDMTEVO930	MASTERCcolour CDM-T Evolution 35W/930 G12 ICT 12	55
35CDMTM930	MASTERCcolour CDM-Tm Mini 35W/930 PGJ5 ICT 12	57
35DIC2YRBP	Halogen Dichroic 2yr 35W GU5.3 12V 36D 28C 10	89
35SI45PHZP	Philinea 35W S14s 240V T30 WH ICT 25	100
35SDWT	MASTER SDW-T 35W/825 PG12-1 ISL 12	62
35SOX	SOX 35W BY22d T50 ISL 12	81, 82
35SOXPLUS	SOX 35W BY22d T50 ISL 12	81, 82
35SOXPLUS	SOX 35W BY22d T50 ISL 12	81, 82
35SOXPSG	MASTER SOX PSG 35W BY22d T50 ISL 12	80
36827	MASTER TL-D Super 80 36W/827 ISL 25	22
36830	MASTER TL-D Super 80 36W/830 ISL 25	22
36830TLDPSSI1X1	MASTER TL-D Power Saver Set 23=36W/830 ISL 25	21
36830XTRA	MASTER TL-D Xtra 36W/830 ISL 25	24
36830XTRAPOLAR	MASTER TL-D Xtra Polar 36W/830 T12 ISL 10	25
36835	MASTER TL-D Super 80 36W/835 ISL 25	22
36840	MASTER TL-D Super 80 36W/840 ISL 25	22
36840R	MASTER TL-D Reflex 36W/840 ISL 25	23
36840TLDPSSI1X1	MASTER TL-D Power Saver Set 23=36W/840 ISL 25	21
36840XTRA	MASTER TL-D Xtra 36W/840 ISL 25	24
36840XTREME	MASTER TL-D Xtreme 36W/840 ISL 25	26
36840XTREMESEC	MASTER TL-D Xtreme Secura 36W/840 ISL 25	27
36840XTREMEPOLAR	MASTER TL-D Xtreme Polar 36W/840 ISL 10	26
36865	MASTER TL-D Super 80 36W/865 ISL 25	22
36865TLDPSSI1X1	MASTER TL-D Power Saver Set 23=36W/865 ISL 25	21
36865XTREME	MASTER TL-D Xtreme 36W/865 ISL 25	26
36930DLP	MASTER TL-D 90 De Luxe 36W/930 SLV 10	27
36940DLP	MASTER TL-D 90 De Luxe 36W/940 SLV 10	27
36950DLP	MASTER TL-D 90 De Luxe 36W/950 SLV 10	27
36950GP	MASTER TL-D 90 Graphica 36W/950 ISL 10	28
36965DLP	MASTER TL-D 90 De Luxe 36W/965 SLV 10	27
36965GP	MASTER TL-D 90 Graphica 36W/965 ISL 10	28
36PLL830	MASTER PL-L 36W/830/4P ICT 25	45
36PLL830POLAR	MASTER PL-L Polar 36W/830/4P ICT 25	46
36PLL830XTRA	MASTER PL-L Xtra 36W/830/4P ICT 25	46
36PLL830XTRAPOL	MASTER PL-L Xtra Polar 36W/830/4P ICT 25	47
36PLL840	MASTER PL-L 36W/840/4P ICT 25	45
36PLL840POLAR	MASTER PL-L Polar 36W/840/4P ICT 25	46
36PLL840XTRA	MASTER PL-L Xtra 36W/840/4P ICT 25	46
36PLL865	MASTER PL-L 36W/865/4P ICT 25	45
36SOXE	MASTER SOX-E 36W BY22d T50 ISL 12	81
38830NG	MASTER TL-D Super 80 38W/830 ISL 25	22

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38840NG	MASTER TL-D Super 80 38W/840 1SL 25	22
38PLQ8304PIN	PL-Q 38W/830/4P 1CT 10	48
38PLQ8354PIN	PL-Q 38W/835/4P 1CT 10	48
38PLQ8404PIN	PL-Q 38W/840/4P 1CT 10	48
39830	MASTER TL5 HO 39W/830 1SL 40	17
39830IP	MASTER TL5 HO 39W/830 UNP 40	17
39840	MASTER TL5 HO 39W/840 1SL 40	17
400HPIPLUSBU	MASTER HPI Plus 400W/745 BU E40 1SL 6	73
400HPIPLUSBP	MASTER HPI Plus 400W/745 BU-P E40 1SL 6	73
400HPIPLUSBUS	MASTER HPI Plus 400W/745 BUS E40 1SL 6	73
400HPIPLUSBUSP	MASTER HPI Plus 400W/745 BUS-P E40 1SL 6	73
400HPIPLUS	MASTER HPI-T Plus 400W/645 E40 1SL 12	72
400HPLCOM	HPL Comfort 400W/534 E40 HG 1SL 6	79
400HPLN	HPL-N 400W/542 E40 HG 1SL 6	79
400SONCOM	SON Comfort 400W/621 E40 1SL 12	78
400SONPLUS	MASTER SON PIA Plus 400W/220 E40 1SL 12	76
400SONPLUSMF	MASTER SON APIA Plus Hg Free 400W E40 1SL 12	75
400SONPLUSXTRA	MASTER SON APIA Plus Xtra 400W E40 1SL 12	74
400SONTCOM	SON-T Comfort 400W/621 E40 1SL 12	78
400SONTGP	MASTER GreenPower CG T 400W E40 1SL 12	80
400SONTPUS	MASTER SON-T PIA Plus 400W/220 E40 1SL 12	76
400SONTPUSMF	MASTER SON-T APIA Plus Hg Free 400W E40 1SL 12	75
400SONTPUSXTRA	MASTER SON-T APIA Plus Xtra 400W E40 1SL 12	74
40CLICKCL	Clickline 40W G9 240V CL 1CT 10X10F	94
40PLL830	MASTER PL-L 40W/830/4P 1CT 25	45
40PLL835	MASTER PL-L 40W/835/4P 1CT 25	45
40PLL840	MASTER PL-L 40W/840/4P 1CT 25	45
40SESOZ	Appliance 40W E14 240V P45 CL OV 1CT 10X10F	101
405ESR50SPZP	Reflector 40W E14 240V NR50 30D 1CT 30	101
40TSLC830	MASTER TL5 Circular 40W/830 1CT 10	20
40TSLC840	MASTER TL5 Circular 40W/840 1CT 10	20
4151800MHNSA956	MASTER MHN-SA 1800W/956 (P)SFC 400V NO I	70
4152000HPITN	HPI-T 2000W/642 E40 380V CRP 4	73
41830TLSECO+	MASTER TL5 HO EcoPlus 41=49W/830 UNP 40	15
41840TLSECO+	MASTER TL5 HO EcoPlus 41=49W/840 UNP 40	15
42490760	Brilliantline Dichroic 35W GU5.3 12V MR1 6 10D 1CT 10X5F	87
42504160	Brilliantline Dichroic 35W GU5.3 12V MR1 6 36D 1CT 10X5F	87
42516460	Brilliantline Dichroic 50W GU5.3 12V MR1 6 36D 1CT 10X5F	87
42537960	Brilliantline Dichroic 20W GU4 12V MR1 1 10D 1CT 10X5F	87
42540960	Brilliantline Dichroic 20W GU4 12V MR1 1 30D 1CT 10X5F	87
42543060	Brilliantline Dichroic 35W GU4 12V MR1 1 10D 1CT 10X5F	87
42546160	Brilliantline Dichroic 35W GU4 12V MR1 1 30D 1CT 10X5F	87
42BCECO30B35CL	EcoClassic 42W B22 240V B35 CL 1CT 15	93
42BCECO30CLA55	EcoClassic 42W B22 240V A55 CL 1CT 10	93
42ESECO30CLA55	EcoClassic 42W E27 240V A55 CL 1CT 10	93
42PLT8304PINC5	MASTER PL-T 42W/830/4P 1CT 5X10CC	43
42PLT8304PINTOP	MASTER PL-T TOP 42W/830/4P 1CT 5X10CC	43
42PLT8304PXTRA	MASTER PL-T Xtra 42W/830/4P 1CT 5X10CC	44
42PLT8404PINC5	MASTER PL-T 42W/840/4P 1CT 5X10CC	43
42PLT8404PINTOP	MASTER PL-T TOP 42W/840/4P 1CT 5X10CC	43
42PLT8404PXTRA	MASTER PL-T Xtra 42W/840/4P 1CT 5X10CC	44
42SESECO30B35CL	EcoClassic 42W E14 240V B35 CL 1CT 15	93
42WE27ECCOC-GOLF	EcoClassic 42W E27 240V P45 CL 1CT 20	94
44830TLSECO+	MASTER TL5 HO EcoPlus 44=54W/830 UNP 40	15
44840TLSECO+	MASTER TL5 HO EcoPlus 44=54W/840 UNP 40	15
45830TLSECO	MASTER TL5 HO Eco 45=49W/830 UNP 40	15
45840TLSECO	MASTER TL5 HO Eco 45=49W/840 UNP 40	15
45CPOTW728	MASTER CosmoWhite CPO-TW Xtra 45W/628 PG21 1CT 12	68
45ML11124D	MASTERLine 111 45W G53 12V 24D 1CT 6	86
45ML11145D	MASTERLine 111 45W G53 12V 45D 1CT 6	86
45ML1118D	MASTERLine 111 45W G53 12V 8D 1CT 6	86
49830	MASTER TL5 HO 49W/830 1SL 40	17
49830XTRATL5	MASTER TL5 HO Xtra 49W/830 1SL 20	18
49835	MASTER TL5 HO 49W/835 1SL 40	17
49840	MASTER TL5 HO 49W/840 1SL 40	17
49840IP	MASTER TL5 HO 49W/840 UNP 40	17
49840TOP	MASTER TL5 HO TOP 49W/840 1SL 20	18
49840XTRATL5	MASTER TL5 HO Xtra 49W/840 1SL 20	18
49865	MASTER TL5 HO 49W/865 1SL 40	17
5060ESCP	Standard ELV 60W E27/BRC 50V A60 CL 1CT 12X10F	100
50830TLSECO	MASTER TL5 HO Eco 50=54W/830 UNP 40	15
50840	MASTER TL-D HF Super 80 50W/840 1SL 25	24
50840TLSECO	MASTER TL5 HO Eco 50=54W/840 UNP 40	15
50ALU11124D	Aluline 111 50W G53 12V 24D 1CT 6	88
50ALU1118D	Aluline 111 50W G53 12V 8D 1CT 6X1F	88
50CDM930PAR3010	MASTERCcolour CDM-R Elite 50W/930 E27 PAR30L 10D 1CT 6	59
50CDM930PAR3030	MASTERCcolour CDM-R Elite 50W/930 E27 PAR30L 30D 1CT 6	59
50CDM930PAR3040	MASTERCcolour CDM-R Elite 50W/930 E27 PAR30L 40D 1CT 6	59
50CDMRMELI93025	MASTERCcolour CDM-Rm Elite Mini 50W/930 GX10 MR16 25D 1CT 12	59
50CDMRMELI93040	MASTERCcolour CDM-Rm Elite Mini 50W/930 GX10 MR16 40D 1CT 12	59
50CDMRMELI93060	MASTERCcolour CDM-Rm Elite Mini 50W/930 GX10 MR16 60D 1CT 12	59
50CDMTCELITE930	MASTERCcolour CDM-TC Elite 50W/930 G8.5 1CT 12	51
50CDMTCELITE942	MASTERCcolour CDM-TC Elite 50W/942 G8.5 1CT 12	51
50CDMTTELITE930	MASTERCcolour CDM-T Elite 50W/930 G12 1CT 12	50
50CDMTTELITE942	MASTERCcolour CDM-T Elite 50W/942 G12 1CT 12	50
50CDMTMELITE930	MASTERCcolour CDM-Tm Elite Mini 50W/930 GU6.5 1CT 12	57
50CDOETPLUS828	MASTER CityWhite CDO-ET Plus 50W/828 E27 1SL 24	70
50CDOETPLUS828	MASTER CityWhite CDO-TT Plus 50W/828 E27 1SL 12	69
50GUI0EPP3P	Twistline Alu 1000h 50W GU10 240V 40D 3F 10	92
50HPLN	HPL-N 50W/542 E27 SG 1CT 24	79
50SDWT	MASTER SDW-T 50W/825 PG12-1 1SL 12	62
50SDWTG	MASTER SDW-TG Mini 50W/825 GX12-1 1CT 12	61

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50SONE	SON 50W/220 E27 1SL 24	77
50SONPLUS	MASTER SON PIA Plus 50W E27 1SL 24	76
50SONPLUSXTRA	MASTER SON APIA Plus Xtra 50W E27 1SL 24	74
50SONTPUS	MASTER SON-T PIA Plus 50W/220 E27 1SL 12	76
50SONTPUSXTRA	MASTER SON-T APIA Plus Xtra 50W E27 1SL 12	74
51830TLDECO	MASTER TL-D Eco 51W/830 1SL 25	20
51840TLDECO	MASTER TL-D Eco 51W/840 1SL 25	20
53BCECO30CLA55	EcoClassic 53W B22 240V A55 CL 1CT 10	93
53ESECO30CLA55	EcoClassic 53W E27 240V A55 CL 1CT 10	93
54830	MASTER TL5 HO 54W/830 1SL 40	17
54830XTRATL5	MASTER TL5 HO Xtra 54W/830 1SL 20	18
54840	MASTER TL5 HO 54W/840 1SL 40	17
54840TLSECC	MASTER TL5 HO Secura 54W/840 UNP 40	19
54840XTRATL5	MASTER TL5 HO Xtra 54W/840 1SL 20	18
54865	MASTER TL5 HO 54W/865 1SL 40	17
55PLL830	MASTER PL-L 55W/830/4P 1CT 25	45
55PLL830XTRA	MASTER PL-L Xtra 55W/830/4P 1CT 25	46
55PLL830XTRAPOL	MASTER PL-L Xtra Polar 55W/830/4P 1CT 25	47
55PLL835	MASTER PL-L 55W/835/4P 1CT 25	45
55PLL840	MASTER PL-L 55W/840/4P 1CT 25	45
55PLL840POLAR	MASTER PL-L Polar 55W/840/4P 1CT 25	46
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55SOXPLUS	SOX 55W BY22d T50 1SL 12	81, 82
55SOXPLUS	SOX 55W BY22d T50 1SL 12	81, 82
55SOXPSG	MASTER SOX PSG 55W BY22d T50 1SL 12	80
55TSLC830	MASTER TL5 Circular 55W/830 1CT 10	20
55TSLC840	MASTER TL5 Circular 55W/840 1CT 10	20
57PLT8304PINC5	MASTER PL-T 57W/830/4P 1CT 5X10CC	43
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58830TLDPSS1X1	MASTER TL-D Power Saver Set 37=58W/830 1SL 25	21
58830XTRA	MASTER TL-D Xtra 58W/830 1SL 25	24
58835	MASTER TL-D Super 80 58W/835 1SL 25	22
58840	MASTER TL-D Super 80 58W/840 1SL 25	22
58840BSEC	MASTER TL-D Secura 58W/840 1SL 25	23
58840R	MASTER TL-D Reflex 58W/840 1SL 25	23
58840TLDPSS1X1	MASTER TL-D Power Saver Set 37=58W/840 1SL 25	21
58840XTRA	MASTER TL-D Xtra 58W/840 1SL 25	24
58840XTRASEC	MASTER TL-D Xtra Secura 58W/840 1SL 25	25
58840XTREME	MASTER TL-D Xtreme 58W/840 1SL 25	26
58840XTRMEPOLAR	MASTER TL-D Xtreme Polar 58W/840 1SL 10	26
58865	MASTER TL-D Super 80 58W/865 1SL 25	22
58865RFECO	MASTER TL-D Reflex 58W/865 1SL 25	23
58865TLDPSS1X1	MASTER TL-D Power Saver Set 37=58W/865 1SL 25	21
58865XTREME	MASTER TL-D Xtreme 58W/865 1SL 25	26
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58965DLP	MASTER TL-D 90 De Luxe 58W/965 SLV 10	27
58965GP	MASTER TL-D 90 Graphica 58W/965 1SL 10	28
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600SONTPUS	MASTER SON-T PIA Plus 60W/220 E40 1SL 12	76
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60ESR63SPZP	Reflector 60W E27 240V NR63 30D 1CT 30	102
60ML11124D	MASTERLine 111 60W G53 12V 24D 1CT 6	87
60ML11145D	MASTERLine 111 60W G53 12V 45D 1CT 6	87
60ML1118D	MASTERLine 111 60W G53 12V 8D 1CT 6	87
60S14SPHZP	Philinea 60W S14s 240V T30 VVH 1CT 25	100
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6434	Aluline 20W 12V R37 18D CL 1CT 10X5F	89
6435FR	Aluline 20W 12V R37 32D FR 1CT 10X5F	89
6438	Aluline 50W 12V R56 10D CL 1CT 10X5F	89
6439FR	Aluline 50W 12V R56 25D FR 1CT 10X5F	89
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66840TLSECO+	MASTER TL5 HO EcoPlus 66=80W/840 UNP 40	15
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70835	MASTER TL-D Super 80 70W/835 1SL 25	22
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70CDM930PAR3030	MASTERCcolour CDM-R Elite 70W/930 E27 PAR30L 30D 1CT 6	59
70CDM930PAR3040	MASTERCcolour CDM-R Elite 70W/930 E27 PAR30L 40D 1CT 6	59
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70CDMR11183024	MASTERCcolour CDM-R111 70W/830 GX8.5 24D 1CT 6	61
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70CDMR942P3010	MASTERCcolour CDM-R 70W/942 E27 PAR30L 10D ICT 6	60
70CDMR942P3030	MASTERCcolour CDM-R 70W/942 E27 PAR30L 30D ICT 6	60
70CDMR942P3040	MASTERCcolour CDM-R 70W/942 E27 PAR30L 40D ICT 6	60
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70CDMTCFRESH	MASTERCcolour CDM-TC Fresh 70W/740 G8.5 ICT 12	54
70CDMTD830	MASTERCcolour CDM-TD 70W/830 RX7s ICT 12	58
70CDMTD942	MASTERCcolour CDM-TD 70W/942 RX7s ICT 12	58
70CDMTDIM930	MASTERCcolour CDM-T Elite Light Boost 70W/930 G12 ICT 12	52
70CDMTDIM942	MASTERCcolour CDM-T Elite Light Boost 70W/942 G12 ICT 12	52
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70SONIPLUS	MASTER SON PIA Plus 70W/220 I E27 ISL 24	76
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70SONPLUSXTRA	MASTER SON PIA Plus Xtra 70W E27 ISL 24	74
70SONTPLUS	MASTER SON-T PIA Plus 70W/220 E27 ISL 12	76
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8WSEGENIESRP	Genie 8W WW E14 220-240V 1PF 12	33
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HFP218TLDIIL	HF-P 218 TL-D III 220-240V 50/60Hz IDC INO 12	126
HFP22242PLT/C/L	HF-Performer 2 22-42 PL-T/C/L/T5C EII 220-240V UNP 12	130
HFP224-397LEIIL	HF-P 2 24/39 T5L5 HO III 220-240V 50/60Hz INO 12	126
HFP236PLLEIIL	HF-P 236 PL-L III 220-240V 50/60Hz INO 12	129
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HFP249T5L5HOIII	HF-P 249 T5L5 HO III 220-240V 50/60Hz IDC INO 12	126
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HFP34147L5EII	HF-Performer 3/414 T5L5 EII 220-240V 50/60Hz UNP 12	128
HFP3418TLDIIL	HF-P 3/418 TL-D III 220-240V 50/60Hz IDC INO 12	126
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HFPXT236TLDIIL	HF-Performer Xtreme 236 TL-D EII 220-240V 50/60Hz UNP 12	127
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HFR149T5L5EII	HF-Regulator 149 T5L5 EII 220-240V 50/60Hz UNP 12	123
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HFR155PLLEIIL	HF-Regulator 155 PL-L EII 220-240V 50/60Hz UNP 12	124
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HFR240PLLEIIL	HF-Regulator 240 PL-L EII 220-240V 50/60Hz UNP 12	124
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HFR318TLDIIL	HF-Regulator 318 TL-D EII 220-240V 50/60Hz UNP 12	123
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HFRITD118PLTCEII	HF-R TD 118 PL-T/C EII 220-240V 50/60Hz INO 12	122
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HFRITD136PLLEIIL	HF-Regulator TD 136 PL-L EII 220-240V 50/60Hz UNP 12	122
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HIDAVTW3570I	HID-AV C 35-70 /1 CDM 220-240V 50/60Hz INO 12	104
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HIDPVC150S	HID-PV C 150 /S CDM 220-240V 50/60Hz UNP 12	107
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HIDPVMGJ5020I	HID-PV m PGJ5 20 /1 CDM LPF 220-240V INO 12	106
HIDPVMGJ5020S	HID-PV m PGJ5 20 /S CDM LPF 220-240V INO 12	106
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IR175C	PAR38 IR 175W E27 240V CL 1 CT 12	98
IR250CH	R125 IR 250W E27 230-250V CL 1 CT 10	98
IR300CH	R125 IR 300W E27 230-250V CL 1 CT 10	98
K4	Plusline Large 1000W R7s 240V ICT 10	94
LED4WB35E14FR	CorePro LEDcandle 4-25W E14 827 B35 FR ICC 10	10
LED4WP45E14FR	CorePro LEDluster 4-25W E14 827 P45 FR ICC 10	10
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LED810WB22ND	CorePro LEDBulb 10.5-60W B22 827 1BB 6	10
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LED86WB22ND	CorePro LEDBulb 6-32W B22 WW ICC 6	10
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LED89WB22ND	CorePro LEDBulb 9.5-48W B22 WW ICC 6	10
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LED55WGU532736I	CorePro LEDspotLV 5.5-35W WW MR16 36D 1CT 10	10
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MLED10GU532724U	MASTER LEDspotLV D 10-50W WW MR16 24D 1CT 10	6
MLED10GU532736U	MASTER LEDspotLV D 10-50W WW MR16 36D 1CT 10	6
MLED10GU533024U	MASTER LEDspotLV D 10-50W WH MR16 24D 1CT 10	6
MLED10GU533036U	MASTER LEDspotLV D 10-50W WH MR16 36D 1CT 10	6
MLED10GU534024	MASTER LEDspotLV D 10-50W CW MR16 24D 1CT 10	6
MLED10GU534036	MASTER LEDspotLV D 10-50W CW MR16 36D 1CT 10	6
MLED10RI1112724D	MASTER LEDspotLV ARI 11 D 10-50W WW 24D ICC 6	7
MLED10RI1112740D	MASTER LEDspotLV ARI 11 D 10-50W WW 40D ICC 6	7
MLED10RI1113024D	MASTER LEDspotLV ARI 11 D 10-50W WH 24D ICC 6	7
MLED10RI1113040D	MASTER LEDspotLV ARI 11 D 10-50W WH 40D ICC 6	7
MLED12WA60B2227	MASTER LEDbulb D 12-60W B22 2700K A60 ICC 6	4
MLED12WA60E2727	MASTER LEDbulb D 12-60W E27 2700K A60 ICC 6	4
MLED12WP3AR30N	MASTER LEDspot D 12-75W 2700K PAR30S ICC 6	9
MLED13WA60B22	MASTER LEDbulb D 13-75W B22 827 A67 ICC 6	4
MLED13WA60E27	MASTER LEDbulb D 13-75W E27 827 A67 ICC 6	4
MLED15ARI1112724	MASTER LEDspotLV ARI 11 15-75W 2700K 24D 1CT 6	7
MLED15ARI1112740	MASTER LEDspotLV ARI 11 15-75W 2700K 40D 1CT 6	7
MLED15ARI1113024	MASTER LEDspotLV ARI 11 15-75W 3000K 24D 1CT 6	7
MLED15ARI1113040	MASTER LEDspotLV ARI 11 15-75W 3000K 40D 1CT 6	7
MLED15RI1112724D	MASTER LEDspotLV ARI 11 D 15-75W WW 24D ICC 6	7
MLED15RI1112740D	MASTER LEDspotLV ARI 11 D 15-75W WW 40D ICC 6	7
MLED15RI1113024D	MASTER LEDspotLV ARI 11 D 15-75W WH 24D ICC 6	7
MLED15RI1113040D	MASTER LEDspotLV ARI 11 D 15-75W WH 40D ICC 6	7
MLED17WP3AR38OD	MASTER LEDspot 17-100W 2700K PAR38 OD ICC 6	9
MLED18WP3AR38N	MASTER LEDspot D 18-100W 2700K PAR38 ICC 6	9
MLED2WG427N	MASTER LEDcapsuleLED 2.5-10W G4 2700K 360 1CT 12	9
MLED420G4MR1124	MASTER LEDspotLV 4-20W G4 WH MR11 24D 1CT 12	6
MLED4GU102725	MASTER LEDspotMV D 4-35W GU10 WW 25D 1CT 10	8
MLED4GU102740	MASTER LEDspotMV D 4-35W GU10 WW 40D 1CT 10	8
MLED4GU103025	MASTER LEDspotMV D 4-35W GU10 WH 25D 1CT 10	8
MLED4GU103040	MASTER LEDspotMV D 4-35W GU10 WH 40D 1CT 10	8
MLED4GU104025	MASTER LEDspotMV D 4-35W GU10 CW 25D 1CT 10	8
MLED4GU104040	MASTER LEDspotMV D 4-35W GU10 CW 40D 1CT 10	8
MLED4GUS32724NE	MASTER LEDspotLV 4-20W WW MR16 24D 1CT 10	6
MLED4GUS32736NE	MASTER LEDspotLV 4-20W WW MR16 36D 1CT 10	6
MLED4GUS33024NE	MASTER LEDspotLV 4-20W WH MR16 24D 1CT 10	6
MLED4GUS33036NE	MASTER LEDspotLV 4-20W WH MR16 36D 1CT 10	6
MLED4GUS34024NE	MASTER LEDspotLV 4-20W CW MR16 24D 1CT 10	6
MLED4GUS34036NE	MASTER LEDspotLV 4-20W CW MR16 36D 1CT 10	6
MLED4WB35B1SCL	MASTER LEDcandle D 4-25W B15 WW B35 CL 1CT 10	5
MLED4WB35E14CL	MASTER LEDcandle D 4-25W E14 WW B35 CL 1CT 10	5
MLED4WB35E14FR	MASTER LEDcandle D 4-25W E14 WW B35 FR 1CT 10	5
MLED4WB35E14CL	MASTER LEDcandle D 4-25W E14 WW B35 CL 1CT 10	5
MLED4WMR11127	MASTER LEDspotLV 4-20W 2700K MR11 24D 1CT 12	6
MLED4WMR11140	MASTER LEDspotLV 4-20W 4000K MR11 24D 1CT 12	6
MLED4WP45B22CL	MASTER LEDluster D 4-25W B22 WW P45 CL 1CT 10	5
MLED4WP45E14CL	MASTER LEDluster D 4-25W E14 WW P45 CL 1CT 10	5
MLED4WP45E14FR	MASTER LEDluster D 4-25W E14 WW P45 FR 1CT 10	5
MLED4WP45E27CL	MASTER LEDluster D 4-25W E27 WW P45 CL 1CT 10	5
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MLED6GU103025D	MASTER LEDspotMV D 6-50W GU10 WH 25D ICT 10	8
MLED6GU103040D	MASTER LEDspotMV D 6-50W GU10 WH 40D ICT 10	8
MLED6GU104025D	MASTER LEDspotMV D 6-50W GU10 CW 25D ICT 10	8
MLED6GU104040D	MASTER LEDspotMV D 6-50W GU10 CW 40D ICT 10	8
MLED7WDESB2227	MASTER LEDbulb 7-40W B22 2700K Designer 1 CT 6	2
MLED7WDESE2727	MASTER LEDbulb 7-40W E27 2700K Designer 1 CT 6	2
MLED7WGU532724U	MASTER LEDspotLV D 7-35W WW MR16 24D ICT 10	6
MLED7WGU532736U	MASTER LEDspotLV D 7-35W WW MR16 36D ICT 10	6
MLED7WGU533024U	MASTER LEDspotLV D 7-35W WH MR16 24D ICT 10	6
MLED7WGU533036U	MASTER LEDspotLV D 7-35W WH MR16 36D ICT 10	6
MLED7WGU534024	MASTER LEDspotLV D 7-35W CW MR16 24D ICT 10	6
MLED7WGU534036	MASTER LEDspotLV D 7-35W CW MR16 36D ICT 10	6
MLED8GU1082725	MASTER LEDspotMV 8-50W+ GU10 WW 25D KoD ICT 6	8
MLED8GU1082740	MASTER LEDspotMV 8-50W+ GU10 WW 40D KoD ICT 6	8
MLED8GU1083025	MASTER LEDspotMV 8-50W+ GU10 WH 25D KoD ICT 6	8
MLED8GU1083040	MASTER LEDspotMV 8-50W+ GU10 WH 40D KoD ICT 6	8
MLED8GU1084025	MASTER LEDspotMV 8-50W+ GU10 CW 25D KoD ICT 6	8
MLED8GU1084040	MASTER LEDspotMV 8-50W+ GU10 CW 40D KoD ICT 6	8
MLED8GU1092725	MASTER LEDspotMV 8-50W GU10 WW 25D Ra90 ICT 6	8
MLED8GU1092740	MASTER LEDspotMV 8-50W GU10 WW 40D Ra90 ICT 6	8
MLED8GU10DIMT25	MASTER LEDspotMV DimTone 8-50W+ GU10 25D ICT 6	3
MLED8GU10DIMT40	MASTER LEDspotMV DimTone 8-50W+ GU10 40D ICT 6	3
MLED8WA60B22D	MASTER LEDbulb D 8-40W B22 WW ICC 6	4
MLED8WA60B22DT	MASTER LEDbulb DimTone 8-40W B22 WW ICC 6	3
MLED8WA60E27D	MASTER LEDbulb D 8-40W E27 WW ICC 6	4
MLED8WA60E27DT	MASTER LEDbulb DimTone 8-40W E27 WW ICC 6	3
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MLEDGA11010840C	MASTER LEDtube GA110 600mm 10W 840 C ICC 10	11
MLEDGA11010840I	MASTER LEDtube GA110 600mm 10W 840 I ISL 10	11
MLEDGA11010840R	MASTER LEDtube GA110 600mm 10W 840 ROT ICC 10	11
MLEDGA11010865C	MASTER LEDtube GA110 600mm 10W 865 C ICC 10	11
MLEDGA11010865I	MASTER LEDtube GA110 600mm 10W 865 I ISL 10	11
MLEDGA11015840C	MASTER LEDtube GA110 900mm 15W 840 C ICC 10	11
MLEDGA11015840I	MASTER LEDtube GA110 900mm 15W 840 I ISL 10	11
MLEDGA11015865C	MASTER LEDtube GA110 900mm 15W 865 C ICC 10	11
MLEDGA11015865I	MASTER LEDtube GA110 900mm 15W 865 I ISL 10	11
MLEDGA11019840C	MASTER LEDtube GA110 1200mm 19W 840 C ICC 10	11
MLEDGA11019840I	MASTER LEDtube GA110 1200mm 19W 840 I ISL 10	11
MLEDGA11019840R	MASTER LEDtube GA110 1200mm 19W 840 ROT ICC 10	11
MLEDGA11019865C	MASTER LEDtube GA110 1200mm 19W 865 C ICC 10	11
MLEDGA11019865I	MASTER LEDtube GA110 1200mm 19W 865 I ISL 10	11
MLEDGA11024840C	MASTER LEDtube GA110 1500mm 24W 840 C ICC 10	11
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MLEDGA30011840C	MASTER LEDtube GA300 600mm 11W 840 C ICC 10	11
MLEDGA30011840I	MASTER LEDtube GA300 600mm 11W 840 I ISL 10	11
MLEDGA30011840R	MASTER LEDtube GA300 600mm 11W 840 ROT ICC 10	11
MLEDGA30011865C	MASTER LEDtube GA300 600mm 11W 865 C ICC 10	11
MLEDGA30011865I	MASTER LEDtube GA300 600mm 11W 865 I ISL 10	11
MLEDGA30022840C	MASTER LEDtube GA300 1200mm 22W 840 C ICC 10	11
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MLEDGA30022840R	MASTER LEDtube GA300 1200mm 22W 840 ROT ICC 10	11
MLEDGA30022865C	MASTER LEDtube GA300 1200mm 22W 865 C ICC 10	11
MLEDGA30022865I	MASTER LEDtube GA300 1200mm 22W 865 I ISL 10	11
MLEDGA30045840C	MASTER LEDtube GA300 1800mm 45W 840 C ICC 10	11
MLEDGA34W840	MASTER LEDtube GA210 1500mm 34W 840 G13 ISL 10	11
MLEDLV152700K	MASTER LEDcapsuleLV 1-5W G4 WW 360 ICT 12	9
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PVC050SCDM	HID-PV C 50 /S CDM 220-240V 50/60Hz INO 12	105
PVC070ICDM	HID-PV C 70 /I CDM 220-240V 50/60Hz INO 12	105
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PVXT60CPOQ	HID-PV Xt 60 CPO Q 208-277V INO 12	108
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Accentline 35W GU5.3 12V 36D ICT	871150041202760	88
Accentline 50W GU5.3 12V 24D ICT	871150041226360	88
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Aluline 111 100W G53 12V 24D ICT	871150042706933	88
Aluline 111 50W G53 12V 24D ICT	871150042655033	88
Aluline 111 50W G53 12V 8D ICT	871150042652933	88
Aluline 20W 12V R37 18D CL ICT	871150040195360	89
Aluline 20W 12V R37 32D FR ICT	871150040935560	89
Aluline 20W 12V R37 6D CL ICT	871150040194660	89
Aluline 35W 6V R56 14D CL ICT	871150040198460	89
Aluline 50W 12V R56 10D CL ICT	871150040200460	89
Aluline 50W 12V R56 25D FR ICT	871150040934860	89
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Appliance 25W E14 230-240V T25 CL OV ICT	8711500303871550	101
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BSN 100 K407-ITS 230/240V 50Hz BCI-123 UNP	872790088695500	114
BSN 100/70 K407-TS 230/240V 50Hz BCI-123 INO	872790094053400	115
BSN 150 K407-ITS 230/240V 50Hz BC3-134 UNP	872790088698600	114
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BSN 400/250 K407-TS 230/240V 50Hz INO	872790094086200	115
BSN 50 K407-ITS 230/240V 50Hz BCI-118 UNP	872790088693100	114
BSN 600 K302-ITS 230V 50Hz BC3-166 UNP	872790088705100	114
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BSN 70/50 K407-TS 230/240V 50Hz BCI-118 INO	872790094047300	115
BSX 131 H96 220-240V 50Hz CW-178/78 ICT	871150091978699	119
BSX 135 H96 220-240V 50Hz CW-149/67 ICT	871150092007299	119
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Capsuleline 10W G4 12V CL 2000h ICT	871150041298050	90
Capsuleline 10W G4 12V CL 4000h ICT	871150040970650	90
Capsuleline 20W G4 12V CL 2000h ICT	871150041299750	90
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Capsuleline 20W GY6.35 12V CL 4000h ICT	871150040219650	90
Capsuleline 35W GY6.35 12V CL 4000h ICT	871150040218950	90
Capsuleline 50W GY6.35 12V CL 2000h ICT	871150041295950	90
Capsuleline 50W GY6.35 12V CL 4000h ICT	871150040217250	90
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Certaline 105W 230-240V 50/60Hz ICT	871150091380730	133
Certaline 150W 230-240V 50/60Hz ICT	871150091385230	133
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CorePro LEDBulb 10.5-60W B22 827 1BB	871829125628100	10
CorePro LEDBulb 10.5-60W E27 827 1BB	871829124281900	10
CorePro LEDBulb 6-32W B22 WW 1CC	871829119266400	10
CorePro LEDBulb 6-32W E27 WW 1CC	871829119268800	10
CorePro LEDBulb 9.5-48W B22 WW 1CC	871829119262000	10
CorePro LEDBulb 9.5-48W E27 WW 1CC	871829119262600	10
CorePro LEDcandle 4-25W E14 827 B35 FR 1CC	871829167712300	10
CorePro LEDcluster 4-25W E14 827 P45 FR 1CC	871829167714700	10
CorePro LEDcluster 4-25W E27 827 P45 FR 1CC	871829167716100	10
CorePro LEDspotLV 5.5-35W WH MR16 36D ICT	871829119272500	10
CorePro LEDspotLV 5.5-35W WW MR16 36D ICT	871829120183000	10
CorePro LEDspotLV 6.5-50W WH MR16 36D ICT	871829119270100	10
CorePro LEDspotLV 6.5-50W WW MR16 36D ICT	871829120191500	10
CorePro LEDspotMV 4-35W GU10 WH 36D ICT	871829120197700	10
CorePro LEDspotMV 5-50W GU10 2700K 36D 1BB	871829124277200	10
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CorePro LEDtube 600mm 10W 840 I ICC	871829166963000	12
CorePro LEDtube 600mm 10W 865 C ICC	871829166973900	12
CorePro LEDtube 600mm 10W 865 I ICC	871829166965400	12
CSLS 100 SDW-T 220-240V 50/60Hz UNP	871150090870430	113
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EcoClassic 105W B22 240V A55 CL ICT	872790025190625	93
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EcoClassic 28W B22 240V B35 CL ICT	872790025273620	93
EcoClassic 28W B22 240V P45 CL ICT	872790086296601	94
EcoClassic 28W E14 240V B35 CL ICT	872790025271220	93
EcoClassic 28W E14 240V P45 CL ICT	872790083579300	94
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EcoClassic 28W E27 240V P45 CL ICT	872790086300001	94
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EcoClassic 42W B22 240V B35 CL ICT	872790082050800	93
EcoClassic 42W E14 240V B35 CL ICT	872790082062100	93
EcoClassic 42W E27 240V A55 CL ICT	872790025179125	93
EcoClassic 42W E27 240V P45 CL ICT	872790086371000	94
EcoClassic 53W B22 240V A55 CL ICT	872790025188325	93
EcoClassic 53W E27 240V A55 CL ICT	872790025180725	93
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EXC 36 SOX-E 220-240V 50/60Hz UNP	871150086240630	109
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GENIE 11W WWW B22 220-240V 1PF	871016322407700	33
GENIE 18W WWW B22 220-240V 1PF	871016322409110	33
GENIE 18W WWW E27 220-240V 1PF	871150080121000	33
GENIE 8W WWW B22 220-240V 1PF	871016322406010	33
GENIE 8W WWW E14 220-240V 1PF	871150080115901	33
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Genie ESaver 14W WWW B22 220-240V 1PF	871150080124110	33
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Halogen Capsules 4yr 20W G4 12V CL 1BS	871150041180820	91
Halogen Dichroic 2yr 35W GU5.3 12V 36D 2BC	871150041328425	89
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HalogenA PAR30S 75W E27 240V 10D ICT	871150050442520	92
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HF-Performer Xtreme 180 TL5 EII 220-240V 50/60Hz UNP	871150091440830	127
HF-Performer Xtreme 236 TL-D EII 220-240V 50/60Hz UNP	871150091202230	127
HF-Performer Xtreme 249 TL5 EII 220-240V 50/60Hz UNP	871150091427930	127
HF-Performer Xtreme 254 TL5 EII 220-240V 50/60Hz UNP	871150091431630	127
HF-Performer Xtreme 258 TL-D EII 220-240V 50/60Hz UNP	871150091206030	127
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MASTER LEDspotLV D 7-35W WW MR16 36D 1 CT	871829121045000	6
MASTER LEDspotMV 8-50W GU10 WW 25D Ra90 1 CT	871829168227100	8
MASTER LEDspotMV 8-50W GU10 WW 40D Ra90 1 CT	871829168229500	8
MASTER LEDspotMV 8-50W+ GU10 CW 25D KoD 1 CT	871829168239400	8
MASTER LEDspotMV 8-50W+ GU10 CW 40D KoD 1 CT	871829168241700	8
MASTER LEDspotMV 8-50W+ GU10 WH 25D KoD 1 CT	871829168235600	8
MASTER LEDspotMV 8-50W+ GU10 WH 40D KoD 1 CT	871829168237000	8
MASTER LEDspotMV 8-50W+ GU10 WW 25D KoD 1 CT	871829168231800	8
MASTER LEDspotMV 8-50W+ GU10 WW 40D KoD 1 CT	871829168233200	8
MASTER LEDspotMV D 4-35W GU10 CW 25D 1 CT	871829119242800	8
MASTER LEDspotMV D 4-35W GU10 CW 40D 1 CT	871829119244200	8
MASTER LEDspotMV D 4-35W GU10 WH 25D 1 CT	871829119238100	8
MASTER LEDspotMV D 4-35W GU10 WH 40D 1 CT	871829119240400	8
MASTER LEDspotMV D 4-35W GU10 WW 25D 1 CT	871829119234300	8
MASTER LEDspotMV D 4-35W GU10 WW 40D 1 CT	871829119236700	8
MASTER LEDspotMV D 6-50W GU10 CW 25D 1 CT	871829121071900	8
MASTER LEDspotMV D 6-50W GU10 CW 40D 1 CT	871829121077100	8
MASTER LEDspotMV D 6-50W GU10 WH 25D 1 CT	871829121096600	8
MASTER LEDspotMV D 6-50W GU10 WH 40D 1 CT	871829121075700	8
MASTER LEDspotMV DimTone 8-50W+ GU10 25D 1 CT	871829168243100	3
MASTER LEDspotMV DimTone 8-50W+ GU10 40D 1 CT	871829168245500	3
MASTER LEDtube GA110 1200mm 19W 840 C ICC	871829123856000	11
MASTER LEDtube GA110 1200mm 19W 840 I ISL	871829123844700	11
MASTER LEDtube GA110 1200mm 19W 840 I ROT ICC	871829166235800	11
MASTER LEDtube GA110 1200mm 19W 865 C ICC	871829123858400	11
MASTER LEDtube GA110 1200mm 19W 865 I ISL	871829123846100	11
MASTER LEDtube GA110 1500mm 24W 840 C ICC	871829123860700	11
MASTER LEDtube GA110 1500mm 24W 840 I ISL	871829123848500	11
MASTER LEDtube GA110 1500mm 24W 840 I ROT ICC	871829166237200	11
MASTER LEDtube GA110 1500mm 24W 865 C ICC	871829123861200	11
MASTER LEDtube GA110 1500mm 24W 865 I ISL	871829123850800	11
MASTER LEDtube GA110 600mm 10W 840 C ICC	871829123868300	11
MASTER LEDtube GA110 600mm 10W 840 I ISL	871829123876800	11
MASTER LEDtube GA110 600mm 10W 840 I ROT ICC	871829166233400	11
MASTER LEDtube GA110 600mm 10W 865 C ICC	871829123870600	11
MASTER LEDtube GA110 600mm 10W 865 I ISL	871829123878200	11
MASTER LEDtube GA110 900mm 15W 840 C ICC	871829123880500	11
MASTER LEDtube GA110 900mm 15W 840 I ISL	871829123884300	11
MASTER LEDtube GA110 900mm 15W 865 C ICC	871829123882900	11
MASTER LEDtube GA110 900mm 15W 865 I ISL	871829123886700	11
MASTER LEDtube GA210 1500mm 34W 840 G13 ISL	871829119866400	11
MASTER LEDtube GA300 1200mm 22W 840 C ICC	871829123852200	11
MASTER LEDtube GA300 1200mm 22W 840 I ISL	871829123840900	11
MASTER LEDtube GA300 1200mm 22W 840 I ROT ICC	871829166231000	11
MASTER LEDtube GA300 1200mm 22W 865 C ICC	871829123854600	11
MASTER LEDtube GA300 1200mm 22W 865 I ISL	871829123842300	11
MASTER LEDtube GA300 1800mm 45W 840 C ICC	871829166100900	11
MASTER LEDtube GA300 600mm 11W 840 C ICC	871829123864500	11
MASTER LEDtube GA300 600mm 11W 840 I ISL	871829123872000	11
MASTER LEDtube GA300 600mm 11W 840 I ROT ICC	871829166229700	11
MASTER LEDtube GA300 600mm 11W 865 C ICC	871829123866900	11
MASTER LEDtube GA300 600mm 11W 865 I ISL	871829123874400	11
MASTER LEDtube Starter EMP 50 CP INO	871829115720500	11
MASTER MHN-FC 1000W/740 230V XW NO	871150021424900	72
MASTER MHN-FC 2000W/740 400V XW NO	871150021349500	72
MASTER MHN-LA 1000W/842 230V XWH NO	871150020078500	71
MASTER MHN-LA 1000W/956 230V XWH NO	871150020077800	71
MASTER MHN-LA 2000W/842 400V XWH NO	871150020074700	71
MASTER MHN-LA 2000W/956 400V XWH NO	871150020073000	71
MASTER MHN-SA 1800W/956 (P)SFC 230V NO	871150020075400	70
MASTER MHN-SA 1800W/956 (P)SFC 400V NO	871150020076100	70
MASTER MHN-SA 1800W/956 230V XW NO	871150020106500	70
MASTER MHN-SA 2000W/956 400V XW HO UNP	871829124183600	70
MASTER MHN-SA 2000W/956 400V XW NO	871150020079200	70
MASTER MHN-SB 2000W/956 400V K12s-7 WH HO UNP	872790092860000	72
MASTER MHN-SE 2000W/956 GX22 400V HO NO	872790092877800	71
MASTER PL-C 10W/840/2P 1 CT	871150070498670	40
MASTER PL-C 18W/827/2P 1 CT	871150062088070	40
MASTER PL-C 18W/827/4P 1 CT	871150062327070	40
MASTER PL-C 18W/830/2P 1 CT	871150062091070	40
MASTER PL-C 18W/830/4P 1 CT	871150062333170	40
MASTER PL-C 18W/840/2P 1 CT	871150062093470	40
MASTER PL-C 18W/840/4P 1 CT	871150062334870	40
MASTER PL-C 26W/827/2P 1 CT	871150062095870	40
MASTER PL-C 26W/827/4P 1 CT	871150062328770	40
MASTER PL-C 26W/830/2P 1 CT	871150062098970	40
MASTER PL-C 26W/830/4P 1 CT	871150062335570	40
MASTER PL-C 26W/835/4P 1 CT	87115008653070	40
MASTER PL-C 26W/840/2P 1 CT	871150062100970	40
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MASTER PL-C Xtra 26W/830/4P ICT	871150089889070	41
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MASTER PL-C Xtra 26W/840/4P ICT	871150089892070	41
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MASTER PL-Electronic 11W/827 E27 230-240V ICT	871150026368125	32
MASTER PL-Electronic 15W/827 B22 230-240V ICT	871150075205510	32
MASTER PL-Electronic 15W/827 E27 230-240V ICT	871150075142310	32
MASTER PL-Electronic 20W/827 B22 230-240V ICT	871150075206210	32
MASTER PL-Electronic 20W/827 E27 230-240V ICT	871150075143010	32
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MASTER PL-Electronic 23W/827 E27 230-240V ICT	871150075144710	32
MASTER PL-Electronic 27W/827 E27 230-240V ICT	871150054385110	32
MASTER PL-Electronic 33W/827 E27 230-240V ICT	871150065999610	32
MASTER PL-Electronic 8W/827 B22 230-240V ICT	871150026363625	32
MASTER PL-Electronic 8W/827 E27 230-240V ICT	871150026358225	32
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MASTER PL-L 18W/835/4P ICT	871150064328540	45
MASTER PL-L 18W/840/4P ICT	871150070669040	45
MASTER PL-L 24W/830/4P ICT	871150070671340	45
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MASTER PL-L 40W/840/4P ICT	871150061097340	45
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MASTER PL-S 11W/840/4P ICT	871150026122970	39
MASTER PL-S 5W/827/2P ICT	871150026045170	39
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MASTER PL-T 26W/840/2P ICT	871150061113070	42
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MASTER PL-T 32W/827/4P ICT	871150055996870	43
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MASTER PL-T TOP 26W/830/4P ICT	871150088944770	43
MASTER PL-T TOP 26W/840/4P ICT	871150088947870	43
MASTER PL-T TOP 42W/830/4P ICT	871150061004170	43
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MASTER SDW-T 100W/825 PG12-1 ISL	871150073404415	62
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MASTER SDW-T 50W/825 PG12-1 ISL	871150073403715	62
MASTER SDW-TG Mini 100W/825 GX12-1 ICT	871150020233815	61
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MASTER SON APIA Plus Xtra 100W E40 ISL	872790092743600	74
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MASTER SON PIA Plus 50W E27 ISL	871829118038800	76
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MASTER SON-T APIA Plus Hg Free 100W E40 ISL	872790088075500	75
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MASTER SON-T APIA Plus Hg Free 250W E40 ISL	872790088512500	75
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MASTER SON-T PIA Plus 250W/220 E40 ISL	871150017987615	76
MASTER SON-T PIA Plus 400W/220 E40 ISL	871150017988315	76
MASTER SON-T PIA Plus 50W/220 E27 ISL	871150019265315	76
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MASTER SOX PSG 35W BY22d T50 ISL	871150093508915	80
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MASTER TL-D Super 80 30W/840 ISL	871150063186240	22
MASTER TL-D Super 80 36W/827 ISL	871150063192340	22
MASTER TL-D Super 80 36W/830 ISL	871150063195440	22
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MASTER TL-D Xtra Polar 18W/830 T12 ISL	871150089303125	25
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MASTER TL-D Xtreme 36W/840 ISL	871150055868840	26
MASTER TL-D Xtreme 36W/865 ISL	871150089277540	26
MASTER TL-D Xtreme 58W/840 ISL	871150055886240	26
MASTER TL-D Xtreme 58W/865 ISL	871150089279940	26
MASTER TL-D Xtreme Polar 36W/840 ISL	871150089311625	26
MASTER TL-D Xtreme Polar 58W/840 ISL	871150089323925	26
MASTER TL-D Xtreme Secura 18W/840 ISL	871150088971340	27
MASTER TL-D Xtreme Secura 36W/840 ISL	871150088979940	27
MASTER TL5 Circular 22W/830 ICT	871150064095625	20
MASTER TL5 Circular 22W/840 ICT	871150064221925	20
MASTER TL5 Circular 40W/830 ICT	871150064097025	20
MASTER TL5 Circular 40W/840 ICT	871150064223325	20
MASTER TL5 Circular 55W/830 ICT	871150064279025	20
MASTER TL5 Circular 55W/840 ICT	871150064251625	20
MASTER TL5 Circular 60W/830 ICT	871150064259225	20
MASTER TL5 Circular 60W/840 ICT	871150064261525	20
MASTER TL5 HE 14W/830 ISL	871150063938755	16
MASTER TL5 HE 14W/835 ISL	871150070765955	16
MASTER TL5 HE 14W/840 ISL	871150063940055	16
MASTER TL5 HE 14W/865 ISL	871150071009355	16
MASTER TL5 HE 21W/830 ISL	871150063942455	16
MASTER TL5 HE 21W/835 ISL	871829111501400	16
MASTER TL5 HE 21W/840 ISL	871150063944855	16
MASTER TL5 HE 21W/865 ISL	871150071011655	16
MASTER TL5 HE 28W/830 ISL	871150063946255	16
MASTER TL5 HE 28W/835 ISL	871150071004855	16
MASTER TL5 HE 28W/840 ISL	871150063948655	16
MASTER TL5 HE 28W/865 ISL	871150071015455	16
MASTER TL5 HE 28W/865 UNP	871150061092855	16
MASTER TL5 HE 35W/830 ISL	871150063950955	16
MASTER TL5 HE 35W/835 ISL	871150071006255	16
MASTER TL5 HE 35W/840 ISL	871150063952355	16
MASTER TL5 HE 35W/865 ISL	871150071018555	16
MASTER TL5 HE Eco 13=14W/840 UNP	872790088083000	14
MASTER TL5 HE Eco 25=28W/840 UNP	872790082589300	14
MASTER TL5 HE Eco 32=35W/840 UNP	872790082593000	14
MASTER TL5 HE Secura 28W/840 UNP	871150095215855	19
MASTER TL5 HE Xtra Eco 13=14W/830 ISL	871829166940100	14
MASTER TL5 HE Xtra Eco 13=14W/840 ISL	871829166942500	14
MASTER TL5 HE Xtra Eco 25=28W/830 ISL	871829166944900	14
MASTER TL5 HE Xtra Eco 25=28W/840 ISL	871829166946300	14
MASTER TL5 HE Xtra Eco 32=35W/830 ISL	871829166948700	14
MASTER TL5 HE Xtra Eco 32=35W/840 ISL	871829166950000	14
MASTER TL5 HO 24W/830 ISL	871150063958555	17
MASTER TL5 HO 24W/840 ISL	871150063960855	17
MASTER TL5 HO 39W/830 ISL	871150063962255	17
MASTER TL5 HO 39W/830 UNP	871150063716155	17
MASTER TL5 HO 39W/840 ISL	871150063964655	17
MASTER TL5 HO 49W/830 ISL	871150063954755	17
MASTER TL5 HO 49W/835 ISL	871829111503800	17
MASTER TL5 HO 49W/840 ISL	871150063956155	17
MASTER TL5 HO 49W/840 UNP	871150063758155	17
MASTER TL5 HO 49W/865 ISL	871150064389655	17
MASTER TL5 HO 54W/830 ISL	871150064316255	17
MASTER TL5 HO 54W/840 ISL	871150064318655	17
MASTER TL5 HO 54W/865 ISL	871150064391955	17
MASTER TL5 HO Eco 20=24W/840 UNP	872790088086100	15
MASTER TL5 HO Eco 45=49W/830 UNP	872790082594700	15
MASTER TL5 HO Eco 45=49W/840 UNP	872790082595400	15

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MASTER TL5 HO Eco 50=54W/840 UNP	872790082591600	15
MASTER TL5 HO Eco 73=80W/840 UNP	872790082597800	15
MASTER TL5 HO EcoPlus 41=49W/830 UNP	871829166336200	15
MASTER TL5 HO EcoPlus 41=49W/840 UNP	871829166337900	15
MASTER TL5 HO EcoPlus 44=54W/830 UNP	871829166332400	15
MASTER TL5 HO EcoPlus 44=54W/840 UNP	871829166333100	15
MASTER TL5 HO EcoPlus 66=80W/830 UNP	871829166340900	15
MASTER TL5 HO EcoPlus 66=80W/840 UNP	871829166341600	15
MASTER TL5 HO Secura 54W/840 UNP	871150095231855	19
MASTER TL5 HO Secura 80W/840 UNP	871150095235655	19
MASTER TL5 HO TOP 49W/840 ISL	871150026687305	18
MASTER TL5 HO TOP 80W/840 ISL	871150026691005	18
MASTER TL5 HO Xtra 49W/830 ISL	871150026251605	18
MASTER TL5 HO Xtra 49W/840 ISL	871150026253005	18
MASTER TL5 HO Xtra 54W/830 ISL	871150026323005	18
MASTER TL5 HO Xtra 54W/840 ISL	871150026352005	18
MASTER TL5 HO Xtra 80W/830 ISL	871150026261505	18
MASTER TL5 HO Xtra 80W/840 ISL	871150026303205	18
MASTERAmbiance 12W/827 E27 230-240V 1CH	871150046806200	34
MASTERAmbiance 16W/827 E27 230-240V 1CH	871150046810900	34
MASTERCapsule 20W GY6.35 12V IR 1CT	872790020353070	90
MASTERCapsule 30W GY6.35 12V IR 1CT	872790020354700	90
MASTERCapsule 45W GY6.35 12V IR 1CT	872790020355470	90
MASTERCapsule 60W GY6.35 12V IR 1CT	872790020356170	90
MASTERCoulour CDM-R 35W/830 E27 PAR20 10D 1CT	871150019808215	60
MASTERCoulour CDM-R 35W/830 E27 PAR20 30D 1CT	871150019810515	60
MASTERCoulour CDM-R 35W/830 E27 PAR30L 10D 1CT	871150019701610	60
MASTERCoulour CDM-R 35W/830 E27 PAR30L 30D 1CT	871150019703010	60
MASTERCoulour CDM-R 35W/942 E27 PAR20 10D 1CT	871150020785215	60
MASTERCoulour CDM-R 35W/942 E27 PAR20 30D 1CT	871150020787615	60
MASTERCoulour CDM-R 70W/830 E27 PAR30L 10D 1CT	871150019705410	60
MASTERCoulour CDM-R 70W/830 E27 PAR30L 40D 1CT	871150019707810	60
MASTERCoulour CDM-R 70W/942 E27 PAR30L 10D 1CT	871150020725810	60
MASTERCoulour CDM-R 70W/942 E27 PAR30L 30D 1CT	871150020729610	60
MASTERCoulour CDM-R 70W/942 E27 PAR30L 40D 1CT	871150020727210	60
MASTERCoulour CDM-R Elite 35W/930 E27 PAR20 10D 1CT	871829165155000	59
MASTERCoulour CDM-R Elite 35W/930 E27 PAR20 30D 1CT	871829165157400	59
MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 10D 1CT	871829124192800	59
MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 30D 1CT	871829124194200	59
MASTERCoulour CDM-R Elite 50W/930 E27 PAR30L 10D 1CT	871829124196600	59
MASTERCoulour CDM-R Elite 50W/930 E27 PAR30L 30D 1CT	871829124198000	59
MASTERCoulour CDM-R Elite 50W/930 E27 PAR30L 40D 1CT	871829124200000	59
MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 10D 1CT	871829124186700	59
MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 30D 1CT	871829124188100	59
MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 40D 1CT	871829124190400	59
MASTERCoulour CDM-R11 20W/830 GX8.5 10D 1CT	871150020947410	61
MASTERCoulour CDM-R11 20W/830 GX8.5 24D 1CT	871150020951110	61
MASTERCoulour CDM-R11 35W/830 GX8.5 10D 1CT	871150020448610	61
MASTERCoulour CDM-R11 35W/830 GX8.5 24D 1CT	871150020450910	61
MASTERCoulour CDM-R11 35W/830 GX8.5 40D 1CT	871150020452310	61
MASTERCoulour CDM-R11 35W/942 GX8.5 10D 1CT	871150021385310	61
MASTERCoulour CDM-R11 35W/942 GX8.5 24D 1CT	871150021387710	61
MASTERCoulour CDM-R11 35W/942 GX8.5 40D 1CT	871150021389110	61
MASTERCoulour CDM-R11 70W/830 GX8.5 10D 1CT	871150020719710	61
MASTERCoulour CDM-R11 70W/830 GX8.5 24D 1CT	871150020721010	61
MASTERCoulour CDM-R11 70W/830 GX8.5 40D 1CT	871150020723410	61
MASTERCoulour CDM-R11 70W/942 GX8.5 24D 1CT	871150021393810	61
MASTERCoulour CDM-R11 70W/942 GX8.5 40D 1CT	871150021395210	61
MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 10D 1CT	871829116296400	59
MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 25D 1CT	871829116300800	59
MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 40D 1CT	871829116306000	59
MASTERCoulour CDM-Rm Elite Mini 50W/930 GX10 MR16 25D 1CT	871829112090200	59
MASTERCoulour CDM-Rm Elite Mini 50W/930 GX10 MR16 40D 1CT	871829112094000	59
MASTERCoulour CDM-Rm Elite Mini 50W/930 GX10 MR16 60D 1CT	871829112086500	59
MASTERCoulour CDM-Rm Mini 20W/830 GX10 MR16 10D 1CT	871829120274500	60
MASTERCoulour CDM-Rm Mini 20W/830 GX10 MR16 25D 1CT	871829120301800	60
MASTERCoulour CDM-Rm Mini 20W/830 GX10 MR16 40D 1CT	871829120303200	60
MASTERCoulour CDM-T 150W/830 G12 1CT	871150019780115	51
MASTERCoulour CDM-T 150W/942 G12 1CT	871150020005115	51
MASTERCoulour CDM-T 20W/830 G12 1CT	872790087156200	50
MASTERCoulour CDM-T 250W/830 G12 1CT	871150020801915	51
MASTERCoulour CDM-T 250W/942 G12 1CT	871150021112515	51
MASTERCoulour CDM-T 35W/830 G12 1CT	871150019697215	51
MASTERCoulour CDM-T 35W/842 G12 1CT	871150021126215	51
MASTERCoulour CDM-T 70W/830 G12 1CT	871150019699615	51
MASTERCoulour CDM-T 70W/942 G12 1CT	871150019927015	51
MASTERCoulour CDM-T Elite 100W/930 G12 1CT	872790087169200	50
MASTERCoulour CDM-T Elite 100W/942 G12 1CT	871829123178300	50
MASTERCoulour CDM-T Elite 150W/930 G12 1CT	871150021312915	50
MASTERCoulour CDM-T Elite 35W/930 G12 1CT	872790091137400	50
MASTERCoulour CDM-T Elite 35W/942 G12 1CT	871829116364000	50
MASTERCoulour CDM-T Elite 50W/930 G12 1CT	872790093060300	50
MASTERCoulour CDM-T Elite 50W/942 G12 1CT	871829120159500	50
MASTERCoulour CDM-T Elite 70W/930 G12 1CT	872790091141100	50
MASTERCoulour CDM-T Elite 70W/942 G12 1CT	871829116362600	50
MASTERCoulour CDM-T Elite Light Boost 70W/930 G12 1CT	872790093888300	52
MASTERCoulour CDM-T Elite Light Boost 70W/942 G12 1CT	872790093890600	52
MASTERCoulour CDM-T Evolution 20W/930 G12 1CT	871829165912900	55
MASTERCoulour CDM-T Evolution 35W/930 G12 1CT	871829165121500	55
MASTERCoulour CDM-T Fresh 70W/740 G12 1CT	871829112544000	53
MASTERCoulour CDM-T Warm 70W/925 G12 1CT	871829120305600	54

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MASTERColour CDM-TC - 70W/842 G8.5 ICT	871150021275715	52
MASTERColour CDM-TC 20W/830 G8.5 ICT	872790087158600	52
MASTERColour CDM-TC 35W/830 G8.5 ICT	87115002000615	52
MASTERColour CDM-TC 70W/830 G8.5 ICT	871150020167615	52
MASTERColour CDM-TC Elite 35W/930 G8.5 ICT	872790091149700	51
MASTERColour CDM-TC Elite 35W/942 G8.5 ICT	871829116366400	51
MASTERColour CDM-TC Elite 50W/930 G8.5 ICT	872790093062700	51
MASTERColour CDM-TC Elite 50W/942 G8.5 ICT	871829120163200	51
MASTERColour CDM-TC Elite 70W/930 G8.5 ICT	872790091153400	51
MASTERColour CDM-TC Elite 70W/942 G8.5 ICT	871829116368800	51
MASTERColour CDM-TC Elite Light Boost 70W/930 G8.5 ICT	872790093892000	53
MASTERColour CDM-TC Elite Light Boost 70W/942 G8.5 ICT	872790093894400	53
MASTERColour CDM-TC Evolution 20W/930 G8.5 ICT	871829165920400	56
MASTERColour CDM-TC Evolution 35W/930 G8.5 ICT	871829165125300	56
MASTERColour CDM-TC Fresh 70W/740 G8.5 ICT	871829116329900	54
MASTERColour CDM-TC Warm 70W/925 G8.5 ICT	871829120307000	55
MASTERColour CDM-TD 150W/830 RX7s ICT	871150019784915	58
MASTERColour CDM-TD 150W/942 RX7s ICT	871150020025915	58
MASTERColour CDM-TD 70W/830 RX7s ICT	871150019782515	58
MASTERColour CDM-TD 70W/942 RX7s ICT	871150020002015	58
MASTERColour CDM-Tm Elite Mini 35W/930 GU6.5 ICT	871829115382500	57
MASTERColour CDM-Tm Elite Mini 50W/930 GU6.5 ICT	871829115386300	57
MASTERColour CDM-Tm Mini 20W/830 PGJ5 ICT	871150020751715	57
MASTERColour CDM-Tm Mini 35W/930 PGJ5 ICT	871150021149115	57
MASTERColour CDM-Tm Mini GU6.5 20W/830 ICT	872790089083900	56
MASTERColour CDM-TMW Elite 210W/930 ICT	871829113950800	69
MASTERColour CDM-TMW Elite 210W/942 ICT	871829113952200	69
MASTERColour CDM-TMW Elite 210W/942 CL P ICT	872790086211900	69
MASTERColour CDM-TMW Elite 315W/942 ICT	871829154803400	69
MASTERColour CDM-TP 150W/830 PGX12-2 ICT	871150020125615	58
MASTERColour CDM-TP 150W/942 PGX12-2 ICT	871150020111915	58
MASTERColour CDM-TP 70W/830 PG12-2 ICT	871150020127015	58
MASTERColour CDM-TP 70W/842 PG12-2 ICT	871150020113315	58
MASTERLine 111 30W G53 12V 24D ICT	871150041103710	86
MASTERLine 111 30W G53 12V 8D ICT	871150041101310	86
MASTERLine 111 45W G53 12V 24D ICT	871150041107510	86
MASTERLine 111 45W G53 12V 45D ICT	871150041109910	86
MASTERLine 111 45W G53 12V 8D ICT	871150041105110	86
MASTERLine 111 60W G53 12V 24D ICT	871150041115010	87
MASTERLine 111 60W G53 12V 45D ICT	871150041113610	87
MASTERLine 111 60W G53 12V 8D ICT	871150041111210	87
MASTERLine ES 20W GU5.3 12V 36D ICT	871150041367371	86
MASTERLine ES 20W GU5.3 12V 8D ICT	871150041364271	86
MASTERLine ES 30W GU5.3 12V 24D ICT	871150041375871	86
MASTERLine ES 30W GU5.3 12V 36D ICT	871150041378971	86
MASTERLine ES 30W GU5.3 12V 60D ICT	871150041382671	86
MASTERLine ES 30W GU5.3 12V 8D ICT	871150041370371	86
MASTERLine ES 35W GU5.3 12V 24D ICT	871150041397071	86
MASTERLine ES 35W GU5.3 12V 36D ICT	871150042432771	86
MASTERLine ES 35W GU5.3 12V 60D ICT	871150042435871	86
MASTERLine ES 35W GU5.3 12V 8D ICT	871150041387171	86
MASTERLine ES 45W GU5.3 12V 24D ICT	871150042441971	86
MASTERLine ES 45W GU5.3 12V 36D ICT	871150042444071	86
MASTERLine ES 45W GU5.3 12V 60D ICT	871150042447171	86
MASTERLine ES 45W GU5.3 12V 8D ICT	871150042438971	86
MHN-TD 150W/842 RX7s ICT	871829121536300	62
MHN-TD 70W/730 RX7s ICT	871829121530100	62
Nightlight 11W E27 220-250V P45 FR NL ICT	872790094919300	100
PAR38 120W E27 24V SP 10D ICT	871150038073915	102
PAR38 IR 100W E27 240V CL ICT	871150012893515	98
PAR38 IR 175W E27 240V CL ICT	871150012895915	98
PAR56 300W Multipurpose 12V UW ICT	871150015969442	102
Philinea 35W S14s 240V T30 WH ICT	871150005690040	100
Philinea 60W S14s 240V T30 WH ICT	871150005693140	100
PL-Electronic Reflector R80 20W WWW E27 230-240V ICT	871150065989700	36
PL-Q 16W/827/2P ICT	871150026965225	47
PL-Q 16W/830/2P ICT	871150026987425	47
PL-Q 16W/835/2P ICT	871150026966925	47
PL-Q 16W/835/4P ICT	871150027206525	48
PL-Q 28W/827/4P ICT	871150026991125	48
PL-Q 28W/830/4P ICT	871150026992825	48
PL-Q 28W/835/4P ICT	871150026967625	48
PL-Q 28W/840/4P ICT	871150026993525	48
PL-Q 38W/830/4P ICT	871150027172325	48
PL-Q 38W/835/4P ICT	871150027173025	48
PL-Q 38W/840/4P ICT	871150027174725	48
Plusline Large 1000W R7s 240V ICT	871150005597225	94
Primaline 105 230-240V 50/60Hz ICT	871150091268830	132
Primaline 150 230-240V 50/60Hz ICT	871150091270130	132
Primaline 70 230-240V 50/60Hz ICT	871150091266430	132
R125 IR 250W E27 230-250V CL ICT	871150012649825	98
R125 IR 300W E27 230-250V CL ICT	871150012656625	98
Reflector 40W E14 240V NR50 30D ICT	871150037986378	101
Reflector 60W E27 240V NR63 30D ICT	871150037988778	102
S10 4-65W SIN 220-240V WH EUR INO	871150069769131	96
S10 4-65W SIN 220-240V WH EUR UNP	871150069769128	96
S12 115-140W 220-240V UNP	871150090379226	96
S16 70-125W 240V UNP	871150090356328	96
S16 70-125W 240V UNP	871150090356331	96
S2 4-22W SER 220-240V WH EUR BOX INO	871150069750931	96
S2 4-22W SER 220-240V WH EUR UNP	871150069750928	96

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SK 578 220-240V 50/60Hz 1NO	872790089568100	120
SK 578-S 220-240V 50/60Hz UNP	872790089570400	120
SKD 578 220-240V 50/60Hz INO	872790089567400	120
SKD 578-S 220-240V 50/60Hz UNP	872790089569800	120
SL-Electronic 12W WWW E27 230-240V ICH	871150054292200	36
SL-Electronic 16W WWW E27 230-240V ICH	871150054296000	36
SL-Electronic 20W WWW B22 230-240V ICH	871150054302800	36
SL-Electronic 20W WWW E27 220-240V ICH	871150054300400	36
SL-Electronic 23W WWW E27 230-240V ICH	871150054371400	36
SN 57-S 220-240V 50/60Hz UNP	871150006052530	119
SN 58-S 220-240V 50/60Hz UNP	871150074175230	119
SN 61 220-240V 50/60Hz UNP	871150091639630	119
SND 57 220-240V 50/60Hz UNP	871150093066830	119
SND 58 220-240V 50/60Hz UNP	871150093068230	119
SND 58-S 220-240V 50/60Hz UNP	871150093070530	119
Softone Candle 8W WWW E14 220-240V IPF	872790089723400	35
Softone ESaver 12W WWW B22 230-240V T60 1PF	871150066261310	35
Softone ESaver 12W WWW E27 T60 1PF	871150066257610	35
Softone ESaver 16W WWW E27 230-240V T60 1PF	871150066258310	35
Softone ESaver 20W WWW E27 230-240V T65 1PF	871150066259010	35
Softone ESaver 5W WWW E27 230-240V T60 1PH	871150066255210	35
Softone ESaver 7W WWW E27 230-240V T45 1PF	872790021184925	35
SON 50W/220 E27 ISL	871150018195430	77
SON H 110W/1 E27 ISL	871150018192330	77
SON 70W/2201 E27 ISL	871150018186230	77
SON Comfort 150W/621 E40 ISL	871150018216615	78
SON Comfort 250W/621 E40 ISL	871150018219715	78
SON Comfort 400W/621 E40 ISL	871150018222715	78
SON H 110W/1 E27 ICT	871829111857200	78
SON H 220W/220 E40 ISL	871150018207415	78
SON H 350W/220 E40 ISL	871150018213515	78
SON H 68W/1 E27 ICT	871829111855800	78
SON-T 1000W/220 E40 ISL	871150018412245	77
SON-T Comfort 150W/621 E40 ISL	871150019228815	78
SON-T Comfort 250W/621 E40 ISL	871150017985215	78
SON-T Comfort 400W/621 E40 ISL	871150017986915	78
SOX 135W BY22d T65 ISL	871150019475615	81, 82
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SOX 135W BY22d T65 ISL	871150073504115	81
SOX 180W BY22d T65 ISL	871150073516410	81
SOX 35W BY22d T50 ISL	871150019469515	81, 82
SOX 35W BY22d T50 ISL	871150019469515	81, 82
SOX 35W BY22d T50 ISL	871150073500315	81
SOX 55W BY22d T50 ISL	871150019471815	81, 82
SOX 55W BY22d T50 ISL	871150019471815	81, 82
SOX 55W BY22d T50 ISL	871150060031815	81
SOX 90W BY22d T65 ISL	871150019473215	81, 82
SOX 90W BY22d T65 ISL	871150019473215	81, 82
SOX 90W BY22d T65 ISL	871150073502715	81
Standard ELV 60W E27/BRC 50V A60 CL ICT	871150010188484	100
SX 26 220-240V 50/60Hz UNP	871150091590030	119
SX 74 220-240V 50/60Hz UNP	871150091569630	119
SX 76 220-240V 50/60Hz UNP	871150091640230	119
TL Mini 13W/33-640 1FM	871150070475727	29
TL Mini 6W/33-640 1FM	871150071583827	29
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