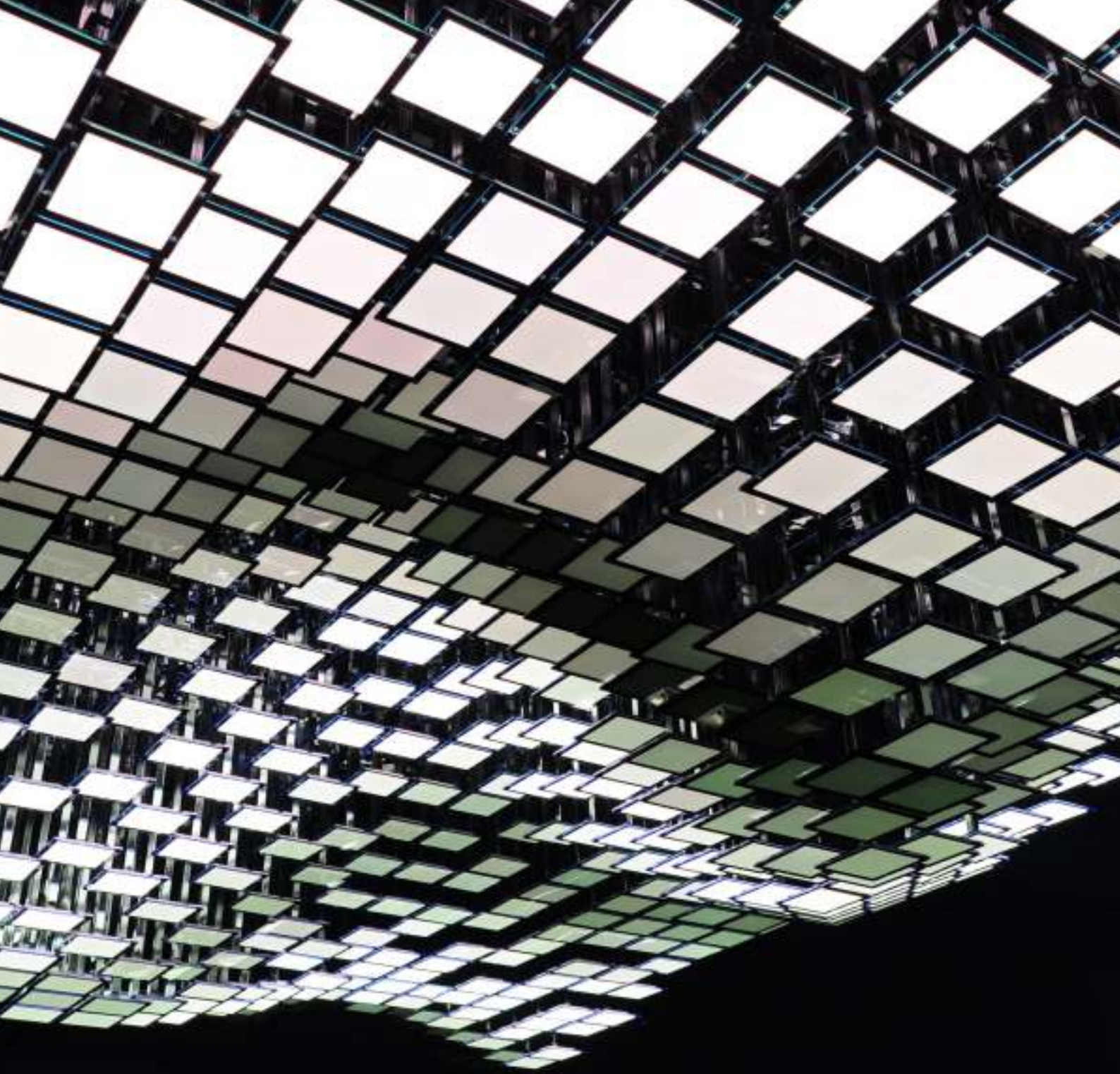




# Lamps & Lighting Electronics

Catalogue 2014

**PHILIPS**



# What's new in Lighting?

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Life without light is impossible to imagine. We've been using it for thousands of years, in ever more sophisticated ways, to enhance our lives and illuminate our world.

In times of rising energy prices and difficult economies people want to use as little energy as possible. They also want to save the planet from the effects of climate change to create a more sustainable world. With our products they can do both. Lighting technology has been totally revolutionised in the last 10 to 15 years. We've been a pioneer in innovative lighting solutions, encouraging our experts to seek inspirational new ways to light our world.

They've risen to the challenge by developing solutions that combine energy efficiency and ease of use with exceptional quality of light.

All our products have been designed to make choosing the right solution as easy as possible. And because life is complicated enough, we've made sure that technology never gets in the way.

**Take a fresh look at your lighting this year. Visit us at [philips.co.uk/lighting](http://philips.co.uk/lighting)**



# Chapter Overview

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# A lifetime of innovation

1891



Start of production of carbon filament lamps by Philips & Co.

1907



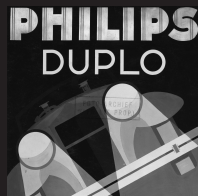
Start of production of tungsten filament lamps

1913



Start of production of gas-filled incandescent lamps

1924



Duplo car-lamps

1931



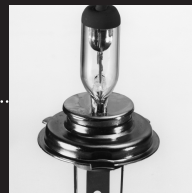
Philora sodium gas discharge lamp

1967



SON-lamp (high pressure sodium lamp)

1970



Duplo halogen car-lamp (H4)

1980



PL-lamp and SL-lamp (Compact Fluorescent Lamps [CFL]) are energy saving lamps

2004



Ambilight TV  
Philips introduced the first Ambilight TV,

2008



Master LED (LED retrofit lamp)

2009



LED Daytime Running Lights [DRL] – car lamps



1915



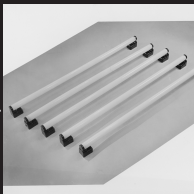
**Philips Argand lamp**  
Philips introduced light bulbs filled with argon, which resulted in a longer lifetime for the filament

1917



**Neon glow lamps (the first gas-discharge lamps that Philips produces)**

1939



**start of production of low voltage fluorescent tubes (TL)**

1945



**Infraphil infrared lamp**

1962



**Halogen lamp**

1980



**Compact fluorescent lamp**

1991



**QL induction lamp**

1994



**The Mastercolour (CDM) lamp represents an important breakthrough, especially for shop and display lighting**

1995



**Ultra-High-Performance (UHP) lamp**

2010



**Lumiblade-module (commercial OLED-module)**

2012



**Connected lighting, Philips hue – allows people to create and control the light using their smartphone or tablet.**

2013



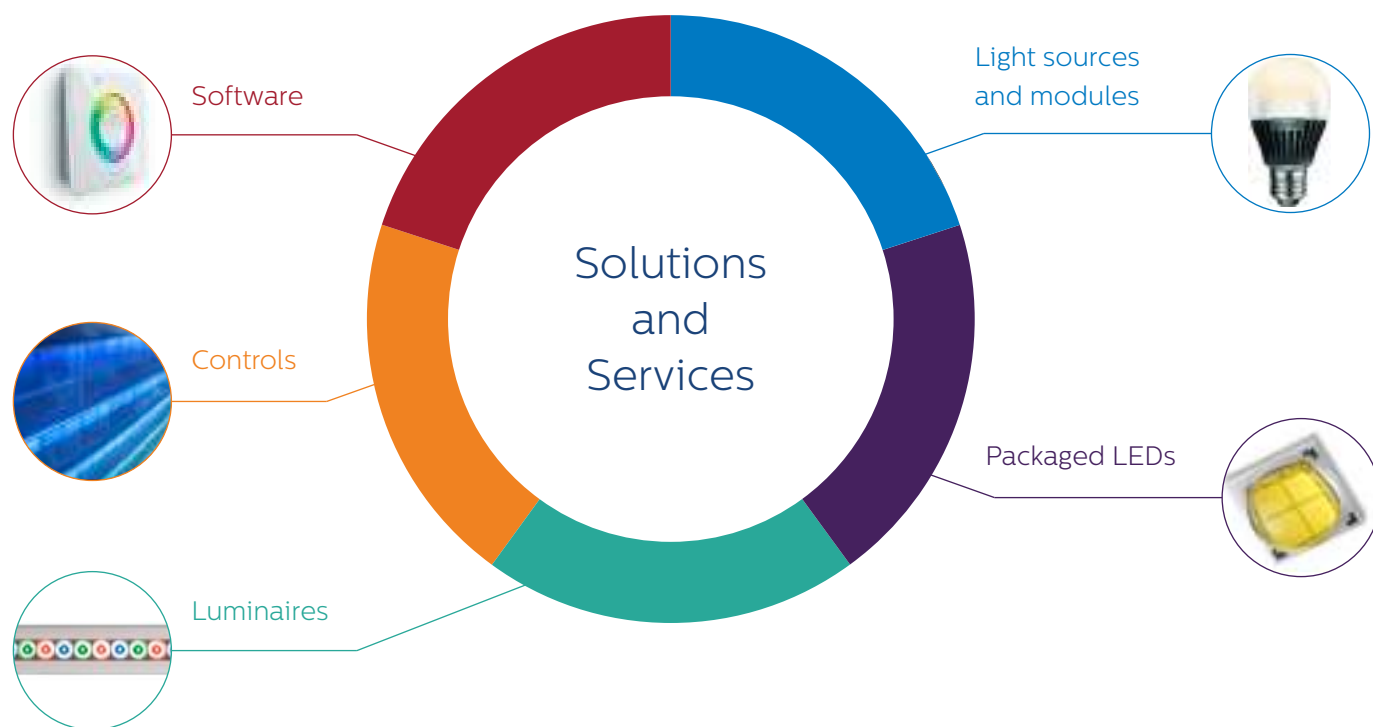
**200 lumens per watt LED lamp prototype**





# Uniquely positioned to shape the market

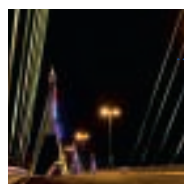
Offering solutions across the complete lighting value chain



## End-user-driven lighting solutions

Together we transform environments, create experiences and shape identities. With light, we uplift and inspire, we comfort and heal and we create safety and spectacle.

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



### Outdoor

We make cities safer to live in and more enjoyable to experience



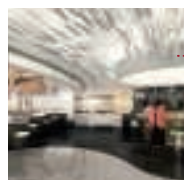
### Hospitality

We help promote guest comfort and build brand differentiation



### Homes

We help people express who they are and how they feel at home



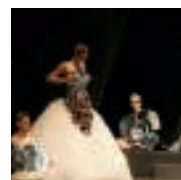
### Retail

We enable distinctive brand and shopping experiences



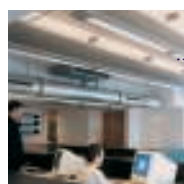
### Healthcare

We enhance patient well-being and improve staff productivity



### Entertainment

We enable creativity and expression through our lighting applications



### Office

We beautify and define spaces, increase productivity and boost energy efficiency



### Industry

We help reduce carbon impact while increasing quality and productivity



### Automotive

We make vehicles safer, more stylish and more energy efficient

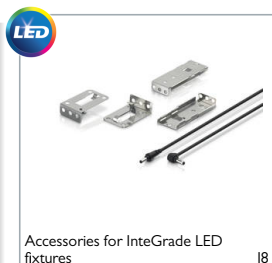




## LED Tubes



## LED Display Lighting Systems



01



## MASTER LEDtube SAI Gen2



	A3	A2	A1	D1	D2
Dim. no.	A1 nom.	A2 nom.	A3 nom.	D1 nom.	D2 nom.
1	588.5	595.5	602.5	28	25.68
2	893.5	900.5	907.5	28	25.68
3	1198.0	1205.0	1212.0	28	25.68

## Lighting food. Brightening faces.

MASTER LEDtube SAI is an extremely effective energy-saving alternative to fluorescent lamps. Designed for use in professional coolers, the SAI version can be installed below the canopy. This state-of-the-art LED solution enhances the visual impression of the merchandise on display while at the same time minimizing glare for passing customers. The improved rotating end-cap makes it even easier to direct the light precisely at the merchandise. The product's long lifetime and excellent lumen maintenance minimize the hassle of re-lamping, while reducing maintenance costs. Thanks to MASTER LEDtube's refined design it is now easy to upgrade your cooler to LED lighting.

## Benefits

- Energy savings of more than 54% compared to fluorescent lamps
- Uniform light distribution enhances the presentation of the merchandise on display
- New green image thanks to Philips LED technology, no mercury, improved sustainability

## Product Features

- High-tech optical system creates optimum light uniformity with maximum efficacy and minimum glare
- Rotating end-cap ensures easy aiming for the best lighting result
- Fool-proof design ensures safety even in the event of mistakes in the installation process; compliant with (inter)national safety requirements
- Embedded electrical driver for easy installation
- Compatible with standard G13 lamp holders

## Applications



- Cooler canopies

## System

The SAI version is part of the MASTER LEDtube SA range. Designed for use in coolers, the SAI version can be installed below the canopy, and the SA2 under the shelves, to create a total solution.

## Warning

- When replacing fluorescent lamps with MASTER LEDtube SAI, the electrical installation has to be changed. Please contact Philips for advice.

Type	Colour Render- ing Index		Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...
	(Ra)	(°)	(K)	(h)					
MASTER LEDtube SAI 600mm 800lm 830 G13	85	180	3,000	40,000	1	ICT / 10	10	TLED600SA1830	25204700
MASTER LEDtube SAI 600mm 800lm 840 G13	85	180	4,000	40,000	1	ICT / 10	10	TLED600SA1840	25206100
MASTER LEDtube SAI 600mm 800lm 856 G13	85	180	5,600	40,000	1	ICT / 10	10	TLED600SA1856	25208500
MASTER LEDtube SAI 900mm 1150lm 830 G13	85	180	3,000	40,000	2	ICT / 10	10	TLED900SA1830	25210800
MASTER LEDtube SAI 900mm 1150lm 840 G13	85	180	4,000	40,000	2	ICT / 10	10	TLED900SA1840	25212200
MASTER LEDtube SAI 900mm 1150lm 856 G13	85	180	5,600	40,000	2	ICT / 10	10	TLED900SA1856	25214600
MASTER LEDtube SAI 1200mm 1600lm 830 G13	85	180	3,000	40,000	3	ICT / 10	10	TLED1200SA1830	25216000
MASTER LEDtube SAI 1200mm 1600lm 840 G13	85	180	4,000	40,000	3	ICT / 10	10	TLED1200SA1840	25218400
MASTER LEDtube SAI 1200mm 1600lm 856 G13	85	180	5,600	40,000	3	ICT / 10	10	TLED1200SA1856	25220700



## Affinium LED display modules 400 Full-height glass doors



Dim. no.	A1	A3	B1	C1
	nom.	nom.	nom.	nom.
1	1500	1510	34	22
2	1700	1710	34	22

**Lighting food. Brightening faces.**

Philips LED lighting for refrigeration cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. LDM400 modules can be vertically integrated in full-height glass-door refrigeration cabinets. Thanks to their compact design, the modules can be aesthetically integrated in the door frame of the cabinet. The modules' unique optical system directs the light in such a way that the products on display are presented uniformly, while reducing glare and dark spots. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long service life. Simply an ideal solution for high-quality display lighting without flicker or color differences. Mounting accessories and power driver are available separately.

**Product Benefits**

- Excellent Total Cost of Ownership with attractive payback times.



- Improved visibility and presentation of the fresh food on display; uniform light distribution throughout the entire cabinet.
- Virtually maintenance-free throughout the lifetime of the cabinets, since the LEDs have a long lifetime of 50,000 hours with excellent lumen maintenance.

**Product Features**

- The range includes Vision-plus for high lighting levels (1,100 lux); Value-plus for regular lighting levels (750 lux). The Center module is used for vertical light distribution in two directions. The Side module for vertical light distribution in one direction.
- Energy savings up to 80%
- Superb optical features; Side asymmetrical 15°, Center 15° both directions
- Products are dimmable
- 5-year Philips warranty for the modules in combination with the Philips LED power driver.

**Application**

- Full-height glass doors and mullions (vertical integration)
- Especially suitable for closed coolers with glass doors to prevent energy wastage

Type	Wattage	Colour Rend- ering Index		Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...
	(W)	(R <sub>a</sub> )	(°)	(K)	(h)					
Value-plus LDM400 1500mm(59") CW	9	75	15	5,600	50,000	1	INO / 6	6	LDM400VA1500CW	24763000
Value-plus LDM400 1500mm(59") NW	12	75	15	4,100	50,000	1	INO / 6	6	LDM400VA1500NW	24767800
Value-plus LDM400 1700mm(67") CW	12	75	15	5,600	50,000	2	INO / 6	6	LDM400VA1700CW	24657200
Value-plus LDM400 1700mm(67") NW	14	75	15	4,100	50,000	2	INO / 6	6	LDM400VA1700NW	24737100
Value-plus LDM400 1500mm(59") WW	15	85	15	3,000	50,000	1	INO / 6	6	LDM400VA1500WW	24344100
Vision-plus LDM400 1500mm(59") NW	18	75	15	4,100	50,000	2	INO / 6	6	LDM400VI1500NWC	24649700
Vision-plus LDM400 1700mm(67") NW	21	75	15	4,100	50,000	2	INO / 6	6	LDM400VI1700NWC	24643500
Vision-plus LDM400 1500mm(59") WW	22	85	15	3,000	50,000	1	INO / 6	6	LDM400VI1500WWC	24340300



## Affinium LED display modules 410 Half-height glass doors



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	950	960	34	22
2	750	760	34	22

**Lighting food. Brightening faces.**

Philips LED lighting for refrigeration cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. LDM410 modules can be vertically integrated in half-height glass-door refrigeration cabinets. Thanks to their compact design, the modules can be aesthetically integrated in the door frame cabinet design. The modules' unique optical system directs the light in such a way that the products on display are presented uniformly, while reducing glare and dark spots. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long service life. Simply an ideal solution for high-quality display lighting without flicker or color differences. Mounting accessories and power driver are available separately.

**Product Benefits**

- Excellent Total Cost of Ownership with attractive payback times.



- Improved visibility and presentation of the fresh food on display; uniform light distribution throughout the entire cabinet.
- Virtually maintenance-free throughout the lifetime of the cabinets, since the LEDs have a long lifetime of 50,000 hours with excellent lumen maintenance.

**Product Features**

- The range includes Vision-plus for high lighting levels (1,100 lux); Value-plus for regular lighting levels (750 lux). The Center module is used for vertical light distribution in two directions. The Side module for vertical light distribution in one direction.
- Energy savings up to 80%
- Superb optical features; Side asymmetrical 15°, Center 15° both directions
- Products are dimmable
- 5-year Philips warranty for the modules in combination with the Philips LED power driver.

**Application**

- Half-height glass doors and mullions (vertical integration).
- Especially suitable for closed coolers with glass doors to prevent energy wastage

Type	Wattage	Colour Rende- ring Index		Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...
	(W)	(Ra)	(°)	(K)	(h)					
Value-plus LDM410 950mm(37") CW	8	75	15	5,600	50,000	1	INO / 6	6	LDM410VA950CW	<b>24809500</b>
Value-plus LDM410 750mm(30") CW	8	75	15	5,600	50,000	2	INO / 6	6	LDM410VA750CW	<b>24848400</b>
Value-plus LDM410 750mm(30") NW	9	75	15	4,100	50,000	2	INO / 6	6	LDM410VA750NW	<b>24852100</b>
Value-plus LDM410 950mm(37") NW	10	75	15	4,100	50,000	1	INO / 6	6	LDM410VA950NW	<b>24829300</b>

## Affinium LED display modules 42I Island freezers



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	600	610	34	22
2	850	860	34	22
3	1150	1160	34	22

**Lighting food. Brightening faces.**

Philips LED lighting for refrigeration cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. LDM42I modules can be used for island freezer lighting. Thanks to their compact design, the modules can be aesthetically integrated in the cabinet design. The modules' unique optical system directs the light in such a way that the products in the freezer are presented uniformly.

Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long service life. Simply an ideal solution for high-quality display lighting without flicker or color differences. Mounting accessories and power driver are available separately.

**Product Benefits**

- Excellent Total Cost of Ownership with attractive payback times.

- Improved visibility and presentation of the merchandise in the island freezer; uniform light distribution throughout the entire cabinet.
- Virtually maintenance-free throughout the lifetime of the cooler cabinets, since the LEDs have a long lifetime of 50,000 hours with excellent lumen maintenance.

**Product Features**

- The range includes Vision-plus for high lighting levels (1,100 lux); Value-plus for regular lighting levels (750 lux)
- Energy savings up to 60%
- Superb optical features; narrow symmetrical 40°
- Products are dimmable
- 5-year Philips warranty for the modules in combination with the Philips LED power driver.

**Application**

- Island freezer lighting
- Especially suitable for closed coolers with glass doors to prevent energy wastage

Type	Wattage	Colour Rendering Index		Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
	(W)	(Ra)	(°)	(K)	(h)					
Value-plus LDM421 600mm(24") NW	9	85	40	4,000	50,000	1	INO / 6	6	LDM421VA600NW	<b>24444800</b>
Value-plus LDM421 1200mm(47") NW	13	85	40	4,000	50,000	2	INO / 6	6	LDM421VA850NW	<b>24436300</b>
Value-plus LDM421 850mm(33") WW	15	85	40	3,000	50,000	2	INO / 6	6	LDM421VA850WW	<b>24438700</b>
Vision-plus LDM421 600mm(24") NW	15	85	40	4,000	50,000	1	INO / 6	6	LDM421VI600NW	<b>24615200</b>
Vision-plus LDM421 600mm(24") WW	17	85	40	3,000	50,000	1	INO / 6	6	LDM421VI600WW	<b>24617600</b>
Value-plus LDM421 1200mm(47") NW	18	85	40	4,000	50,000	3	INO / 6	6	LDM421VA1200NW	<b>24370000</b>
Vision-plus LDM421 850mm(33") NW	20	85	40	4,000	50,000	2	INO / 6	6	LDM421VI850NW	<b>24611400</b>
Vision-plus LDM421 850mm(33") WW	22	85	40	3,000	50,000	2	INO / 6	6	LDM421VI850WW	<b>24613800</b>
Value-plus LDM421 1200mm(47") WW	22	85	40	3,000	50,000	3	INO / 6	6	LDM421VA1200WW	<b>24374800</b>
Vision-plus LDM421 1200mm(47") NW	28	85	40	3,000	50,000	3	INO / 6	6	LDM421VII200WW	<b>24365600</b>
Vision-plus LDM421 1200mm(47") NW	28	85	40	4,000	50,000	3	INO / 6	6	LDM421VII200NW	<b>24363200</b>

## Affinium LED display modules 422 Canopies



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	600	610	34	22
2	850	860	34	22
3	1200	1210	34	22

## Lighting food. Brightening faces.

Philips LED lighting for refrigeration cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. LDM 422 modules can be integrated in the canopy of a refrigeration case. Thanks to their compact design, the modules can be aesthetically integrated in the cabinet design.

The modules' unique optical system directs the light in such a way that the products on display are presented uniformly, while reducing glare and dark spots. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long service life. Simply an ideal solution for high-quality display lighting without flicker or color differences. Mounting accessories and power driver are available separately.

## Product Benefits

- Excellent Total Cost of Ownership with attractive payback times

- Improved visibility and presentation of the fresh food on display; uniform light distribution throughout the entire cabinet with extra emphasis at eye level and fewer dark spots
- Virtually maintenance-free throughout the lifetime of the cooler cabinets, since the LEDs have a long lifetime of 50,000 hours with excellent lumen maintenance

## Product Features

- The range includes Vision-plus for high lighting levels (1,100 lux) and Value-plus for regular lighting levels (750 lux).
- Energy savings of up to 50%
- Superb optical features: mid-asymmetrical 80°
- Products are dimmable
- 5-year Philips warranty on the modules in combination with the Philips LED power driver

## Application

- Canopy lighting in freezer and coolers
- Especially suitable for closed coolers with glass doors to prevent energy wastage

Type	Wattage	Colour Rendering Index		Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
	(W)	(Ra)	(°)	(K)	(h)					
Value-plus LDM422 600mm(24") NW	9	85	80	4,000	50,000	1	INO / 6	6	LDM422VA600NW	<b>24559900</b>
Value-plus LDM422 600mm(24") WW	11	85	80	3,000	50,000	1	INO / 6	6	LDM422VA600WW	<b>24561200</b>
Value-plus LDM422 850mm(33") NW	13	85	80	4,000	50,000	2	INO / 6	6	LDM422VA850NW	<b>24555100</b>
Value-plus LDM422 850mm(33") WW	15	85	80	3,000	50,000	2	INO / 6	6	LDM422VA850WW	<b>24557500</b>
Value-plus LDM422 1200mm(47") NW	18	85	80	4,000	50,000	3	INO / 6	6	LDM422VA1200NW	<b>24541400</b>
Vision-plus LDM422 850mm(33") NW	20	85	80	4,000	50,000	2	INO / 6	6	LDM422VI850NW	<b>24545200</b>
Vision-plus LDM422 850mm(33") WW	22	85	80	3,000	50,000	2	INO / 6	6	LDM422VI850WW	<b>24553700</b>
Value-plus LDM422 1200mm(47") WW	22	85	80	3,000	50,000	3	INO / 6	6	LDM422VA1200WW	<b>24543800</b>
Vision-plus LDM422 1200mm(47") NW	28	85	80	4,000	50,000	3	INO / 6	6	LDM422VII200NW	<b>24537700</b>
Vision-plus LDM422 1200mm(47") WW	33	85	80	3,000	50,000	3	INO / 6	6	LDM422VII200WW	<b>24539100</b>



## Affinium LED display modules 424 Well and serve-over



Dim. no.	A1 nom.	A3 nom.	B1 nom.	C1 nom.
1	900	930	34	22
2	250	280	34	22
3	1150	1180	34	22

## Lighting Food. Brightening Faces.

Philips LED lighting for refrigeration cases is a sustainable and energy-efficient way to create an enjoyable shopping experience for customers – while at the same time supporting retailers' brand values. LDM424 modules can be used for well counters (under combined cabinets) or serve-over counters. Thanks to their compact design, the modules can be aesthetically integrated in the cabinet design. The modules' unique optical system directs the light in such a way that the products in the well or serve-over counter are presented uniformly, while reducing glare and dark spots. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long service life. Simply an ideal solution for high-quality display lighting without flicker or color differences. Mounting accessories and power driver are available separately.

## Product Benefits

- Excellent Total Cost of Ownership with attractive payback times.



- Improved visibility and presentation of the fresh food in the open well or serve-over counter; uniform light distribution throughout the entire cabinet.
- Virtually maintenance-free throughout the lifetime of the cooler cabinets, since the LEDs have a long lifetime of 50,000 hours with excellent lumen maintenance.

## Product Features

- The range includes Vision-plus for high lighting levels (1,100 lux); Value-plus for regular lighting levels (750 lux).
- Energy savings up to 80%
- Superb optical features; wide symmetrical 140°
- Products are dimmable
- 5-year Philips warranty for the modules in combination with the Philips LED power driver

## Application

- For well and serve-over lighting in freezers and coolers
- Ties in perfectly with the current trend for closed wells with glass tops to prevent energy wastage

Type	Wattage	Colour Rende- ring Index		Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291
	(W)	(Ra)	(°)	(K)	(h)					
Value-plus LDM424 900mm(35") NW	7	75	120	4,100	50,000	1	INO / 6	6	LDM424VA900NW	24903000
Vision-plus LDM424 250mm(10") WW	8	85	120	3,000	50,000	2	INO / 6	6	LDM424VI250WW	24911500
Vision-plus LDM424 250mm(10") NW	8	85	120	4,100	50,000	2	INO / 6	6	LDM424VI250NW	24907800
Value-plus LDM424 250mm(10") NW	8	75	120	5,600	50,000	1	INO / 6	6	LDM424VA900CW	24897200
Value-plus LDM424 1150mm(45") NW	9	75	120	4,100	50,000	3	INO / 6	6	LDM424VA1150NW	24917700
Vision-plus LDM424 900mm(35") NW	17	85	120	4,100	50,000	1	INO / 6	6	LDM424VI900NW	24893400
Value-plus LDM424 1150mm(45") CW	17	75	120	5,600	50,000	3	INO / 6	6	LDM424VA1150CW	24567400
Vision-plus LDM424 1150mm(45") NW	20	85	120	4,100	50,000	3	INO / 6	6	LDM424VI1150NW	24563600
Vision-plus LDM424 900mm(35") WW	21	85	120	3,000	50,000	1	INO / 6	6	LDM424VI900WW	24895800
Vision-plus LDM424 1150mm(45") WW	26	85	120	3,000	50,000	3	INO / 6	6	LDM424VI1150WW	24565000

## Accessories for Affinium LED display modules



## Lighting food. Brightening faces.

To facilitate installation of the Affinium LED display modules, we have designed different mounting profiles. These provide equipment manufacturers with tailor-made solutions to meet the specific requirements of all cabinets. The glare-free versions prevent annoying glare to ensure a pleasant shopping experience for customers.

Furthermore, a separate connector (LS SB) and a connector tool are available for safe and easy connection of the wiring inside the refrigerator.

## Product Benefits

- Easy installation
- Lighting directed precisely at the merchandise, without glare
- Aesthetic integration of modules into cabinets and door frames

## Product Features

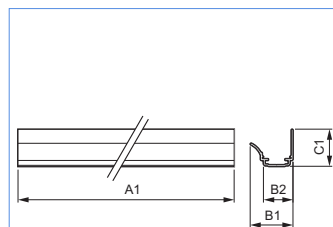
- Removal of sharp metal edges which could cause injury to shoppers
- Easy click-in system to connect the module to the mounting profiles
- Special glare-free profile
- Wide range of mounting profiles to suit the different cabinets

## Application

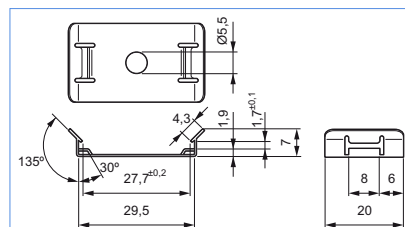
- Commercial freezers and coolers

## System

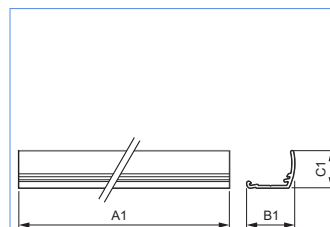
- For horizontal lighting: mounting profile 10°, mounting profile 45°, mounting profile
- For vertical lighting: glare-free mounting profile center and side, mounting profile



Dim. no.	A1 nom.	B1 nom.	B2 nom.	C1 nom.
1	800	45	18	39
2	900	45	18	39



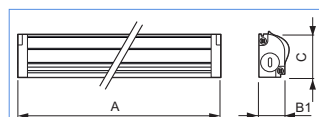
**Dim. no. 3**



Dim. no.	A1 nom.	B1 nom.	C1 nom.
4	1750	37	27

Type	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number
Glare free mounting profile SD 850mm	1	UNP / 12	12		8727900 <b>92754200</b>
Glare free mounting profile SD 950mm	2	UNP / 12	12		8727900 <b>92755900</b>
Mounting clips	3	UNP / 200	200		8718291 <b>12270800</b>
Mounting profile 10 degr 1700mm	4	INO / 18	18	MP10D1700	8718291 <b>16780800</b>

## InteGrade LED engines NB

Dim. no.	A max.	B1 nom.	C max.
1	575	18,5	11
2	140	18,5	11

### The perfect fit

InteGrade LED engines NB enable easy creation of narrow-beam lighting solutions for vertical and horizontal display applications. The narrow beam in combination with the extremely small dimensions makes this system suitable for applications like chiller door and under-canopy lighting, where there is no room to place a sizable lighting solution. The unique optical system directs the light precisely where you want it, thus making optimum use of the light and energy. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long lifetime. InteGrade LED is an ideal solution for high-quality lighting without flicker or color differences. With a choice of mounting profiles, mounting clips, power cables, and Xitanium Constant Voltage Outdoor LED power drivers, your under-canopy or display lighting will always be a perfect fit.

### Product benefits

- Smooth and uniform linear lighting of products on display

- Aesthetic integration of LED lighting; possible to mount on very small mullions
- Excellent Total Cost of Ownership with attractive payback times

### Product features

- Energy savings of up to 55% (102 W compared to 224 W for a TL5 28/35 W system in a 3.75 m cabinet)
- Dedicated Xitanium LED Outdoor drivers for reliable operation
- Scalable to length
- An InteGrade connector makes the electrical connection between two LED engines; an inline lock fixes the engine in a profile

### Application

- Vertical and horizontal linear floodlighting, mounted on very small chiller door mullions, canopies and island freezers
- Display lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

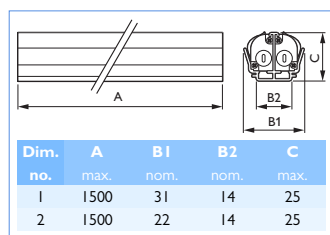
### System

- InteGrade LED engines and accessories are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in

Type	Colour Rendering Index (Ra)	Correlated Colour Temperature (K)	Life to 70% lumen maintenance (h)	Dim. no.	Packing type/Packing configuration	Ordering number 8718291...
InteGrade ENG vision 575mm(23") 830 NB	85	3,000	50,000	1	INO / 24	24 <b>25785100</b>
InteGrade ENG vision 575mm(23") 840 NB	85	4,000	50,000	1	INO / 24	24 <b>25787500</b>
InteGrade ENG vision 140mm(6") 840 NB	85	4,000	50,000	2	INO / 24	24 <b>25783700</b>



## InteGrade LED fixtures NB



## The perfect fit

InteGrade LED fixtures NB enable easy creation of narrow-beam lighting solutions in chillers with doors. The narrow beam in combination with the extremely small dimensions makes this system suitable for integration in doors and mullions where there is no room to place a sizable lighting solution. The unique optical system directs the light precisely where you want it, thus making optimum use of the light and energy. Our LEDs have minimal output degradation and color shift, so the light remains consistent throughout their long lifetime. InteGrade LED is an ideal solution for high-quality lighting without flicker or color differences.

The fixture consists of a profile with LED engines and inline locks. Mounting accessories, cables and LED power driver are available separately.

## Product benefits

- Smooth and uniform linear floodlighting in display cases
- Aesthetic integration of LED lighting; possible to mount on very small mullions
- Excellent Total Cost of Ownership with attractive payback times

## Product features

- Energy savings of up to 55% (102 W compared to 224 W for a TL5 28/35 W system in a 3.75 m cabinet)


- Dedicated Xitanium LED Outdoor drivers for reliable operation
- The fixtures have standard dimensions and so fit commonly used mullions and cabinets
- The InteGrade LED fixture CTR (Center) distributes the light in two directions, ideal for center mullions. The InteGrade LED fixture SD (Side) distributes the light in one direction (from the side of the cabinet)

## Application

- Chillers with doors
- Vertical and horizontal linear floodlighting, mounted on very small chiller door mullions, and island freezers
- The narrow-beam light distribution is also suitable for applications such as display lighting in supermarkets, retail environments, libraries and museums. Because the dimensions of these applications are often very diverse, you might consider using the InteGrade LED engine NB system – with which you can create different lengths – for these applications

## System

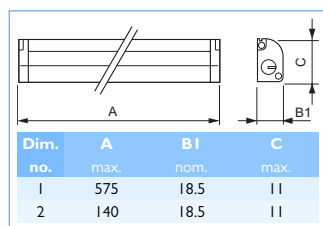
InteGrade LED fixtures NB and accessories are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in

Type	Colour Rendering Index (R <sub>a</sub> )	Correlated Colour Temperature (K)	Life to 70% lumen maintenance (h)	Dim. no.	Packing type/ Packing configuration		Ordering number 8718291...
InteGrade FIX vis 1500mm(59") WWR NB CTR			50,000	1	INO / 6	6	<b>66198600</b>
InteGrade FIX vis 1500mm(59") WWR NB SD			50,000	2	INO / 6	6	<b>67091900</b>
InteGrade FIX vis 1500mm(59") 840 NB CTR	85	4,100	50,000	1	INO / 6	6	<b>67085800</b>
InteGrade FIX vis 1500mm(59") 840 NB SD	85	4,100	50,000	2	INO / 6	6	<b>67089600</b>

01



## InteGrade LED engine system



## The perfect fit

The InteGrade LED engine system is a sustainable and energy-efficient way to create an enjoyable shopping experience.

The system can be used for shelf and linear accent lighting. With the dedicated InteGrade connectors it is easy to create longer light-lines. Thanks to the system's compact dimensions, it can be aesthetically integrated into the store interior, below or inside shelves and refrigerated cabinets.

A unique asymmetrical optics direct the light where you want it, thus making optimum use of the light and energy. The products or background you want lit will be presented uniformly, with reduced glare and dark spots. Our LEDs have minimal output degradation and colour shift, so the light remains consistent throughout their long lifetime. InteGrade LED is an ideal solution for high-quality lighting without flicker or colour differences. Mounting accessories, cables and LED power driver are available separately.

## Product Benefits

- Excellent Total Cost of Ownership with attractive payback times

- Aesthetic integration of LED lighting; enables seamless light-lines with uniform light distribution
- Easy to install

## Product features

- Energy savings of up to 65% (10 W compared to a 28 W TL5 system)
- Superb asymmetrical optics
- InteGrade cabling allows connection to own connector system
- 5-year Philips warranty (InteGrade LED engine in combination with Philips cables and Philips LED power driver)

## Applications

- Shelf and linear accent lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

## System

- The InteGrade LED engine system consists of different components which are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in
- The system includes InteGrade LED engines, Xitanium drivers and mounting accessories. They facilitate hassle-free and reliable installation.

Type	Colour Rendering Index	Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
	(R <sub>a</sub> )	(K)	(h)				
InteGrade engine vision 575mm(23") 830	85	3,000	50,000	1	INO / 24	24	<b>68940900</b>
InteGrade engine value 140mm(6") 830	85	3,000	50,000	2	INO / 24	24	<b>23599600</b>
InteGrade engine value 575mm(23") 830	85	3,000	50,000	1	INO / 24	24	<b>23614600</b>
InteGrade engine vision 575mm(23") 840	85	4,100	50,000	1	INO / 24	24	<b>68954600</b>
InteGrade engine value 140mm(6") 840	85	4,160	50,000	2	INO / 24	24	<b>23601600</b>
InteGrade engine value 575mm(23") 840	85	4,160	50,000	1	INO / 24	24	<b>23618400</b>
InteGrade engine vision 575mm(23") 856	85	5,600	50,000	1	INO / 24	24	<b>68966900</b>
InteGrade engine eco 575mm(23") 865	85	6,500	50,000	1	INO / 24	24	<b>23622100</b>
InteGrade engine eco 140mm(6") 865	85	6,500	50,000	2	INO / 24	24	<b>23620700</b>





## InteGrade LED fixture system



Dim. no.	A max.	B I nom.	C max.
1	883	23	12

Dim. no.	A max.	B I nom.	C max.
2	1178	23	12

## The perfect fit

The InteGrade LED fixture system is an energy-efficient way to create an enjoyable shopping experience. Thanks to its compact dimensions, the fixture can be aesthetically integrated below and inside shelves, e. g. in a store interior or refrigerated cabinet. Asymmetrical optics direct the light where you want it, thus making optimum use of the light and energy. The products or background you want lit will be presented uniformly, with reduced glare and dark spots. Our LEDs have minimal output degradation and colour shift, so the light remains consistent throughout their long lifetime. InteGrade LED is an ideal solution for high-quality lighting without flicker or colour differences. The fixture consists of a profile with LED engines and inline locks. Mounting accessories, cables and LED power driver are available separately.

## Product benefits

- Excellent Total Cost of Ownership with attractive payback times

- Aesthetic integration of LED lighting; uniform light distribution
- Easy to install: the fixtures have standard dimensions and so fit most commonly used shelves

## Product features

- Energy savings of up to 65% (10 W compared to a 28 W TL5 system)
- Superb asymmetrical optics
- InteGrade cabling allows connection to own connector system
- 5-year Philips warranty (InteGrade LED fixture in combination with Philips cables and Philips LED power driver)

## Applications

- Shelf and linear accent lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

## System

The InteGrade LED fixtures and accessories are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in.

Type	Colour Rendering Index	Correlated Colour Temperature	Life to 70% lumen maintenance	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
	(R <sub>a</sub> )	(K)	(h)				
InteGrade fixture value 875mm(34") 830	85	3,000	50,000	1	INO / 12	INTGR875FIX830	23626900
InteGrade fixture value 1175mm(46") 830	85	3,000	50,000	2	INO / 12	INTGR1175FIX830	23630600
InteGrade fixture value 875mm(34") 840	85	4,100	50,000	1	INO / 12	INTGR875FIX840	23624500
InteGrade fixture value 1175mm(46") 840	85	4,100	50,000	2	INO / 12	INTGR1175FIX840	23628300

## Accessories for InteGrade LED engines



A1 nom.	B1 nom.	C1 nom.
2000	34	24.8

## The perfect fit

InteGrade LED accessories enable easy creation of shelf or display lighting based on InteGrade LED engines. With a choice of mounting profiles, mounting clips, power cables, and Xitanium Constant Voltage Outdoor LED power drivers, your shelf or display lighting will always be a perfect fit.

## Product Benefits

- Aesthetic integration of InteGrade LED lighting below shelves or other surfaces
- Easy to install

## Product Features

- Dedicated InteGrade cabling allows connection to own connector system.
- InteGrade profiles can be combined with under-shelf or shelf-arm mounting clips for installation in shelf rack cabinets and displays. The InteGrade profile (F style) can be screwed directly onto a surface

- InteGrade connector for electrical connection between two LED engines
- Inline lock to fix engine in profile
- Dedicated Xitanium LED Outdoor drivers for reliable operation


## Applications

- Shelf and display lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

## System

- InteGrade LED engines and accessories are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in



Type	Packing type/Packing configuration		Ordering number 8718291...
InteGrade prof 2000mm(79") T style CTR	INO / 16	16	<b>67646100</b>
InteGrade profile 2000mm(79") T style SD	INO / 16	16	<b>67648500</b>
InteGrade mounting clip T style profile	INO / 100	100	<b>67650800</b>
InteGrade profile 2000mm(79") L style	INO / 24	48	<b>25791200</b>

## Accessories for InteGrade LED fixtures



## The perfect fit

InteGrade LED accessories enable easy creation of shelf or display lighting based on InteGrade LED fixtures. These accessories include a choice of power cables, Xitanium Constant Voltage Outdoor LED power drivers and, where necessary, mounting clips. With this choice of accessories your shelf or display lighting will always be a perfect fit. The InteGrade LED fixture comprises a profile, one or more connectors, and inline locks. These parts can be ordered as spare parts if required.

## Product Benefits

- Aesthetic integration of InteGrade LED lighting below shelves or other surfaces
- Easy installation thanks to the preassembled InteGrade LED fixture, which fits most commonly used shelves

## Product features

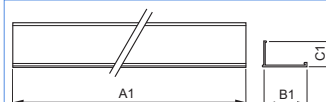
- Dedicated InteGrade cabling allows connection to own connector system.
- With a choice of under-shelf or shelf-arm mounting clips, InteGrade LED fixtures can be installed in shelf rack cabinets and displays.
- Dedicated Xitanium LED Outdoor drivers for reliable operation

## Applications

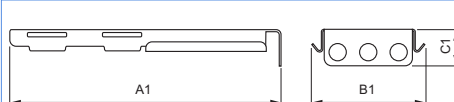
- Shelf and display lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

## System


- InteGrade LED fixtures and accessories are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in.



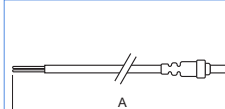
Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	2000	34.0	24.8
2	1175	22.2	11.9
3	875	22.2	11.9
4	2000	22.2	11.9



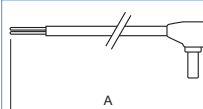
Dim. no.	A1 nom.	B1 nom.	C1 nom.
5	71	32	10



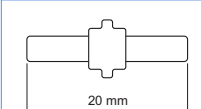
Dim. no.	A1 nom.	B1 nom.	C1 nom.
6	47	30.5	12.5



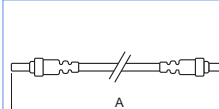
Dim. no.	A nom.
7	2500
8	1000



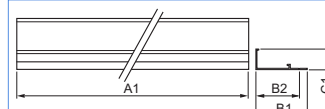
Dim. no.	A nom.
9	1000
10	2500




Dim. no.	11
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Dim. no.	A nom.
12	500




Dim. no.	A1 nom.	B1 nom.	B2 nom.	C1 nom.
13	2000	31	26	11.9

Type	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8718291...
InteGrade profile 2000mm(79") T style SD	1	INO / 16	16		<b>67648500</b>
InteGrade mounting clip T style profile		INO / 100	100		<b>67650800</b>
InteGrade magnet for M style profile		INO / 100	100		<b>70727100</b>
InteGrade mounting clip shelf arm	5	INO / 100	100	IGMCSA	<b>21879100</b>
InteGrade mounting clip under shelf	6	INO / 100	100	INTGRMNTCLUND SH	<b>21881400</b>
InteGrade power cable 2.5m(98") white	7	INO / 24	24	INTGR2PWRCABWH	<b>22148700</b>
InteGrade cable 1m(39") black angle	9	INO / 24	24	INTGR1CABBL	<b>22136400</b>
InteGrade cable 1m(39") white angle	9	INO / 24	24	IGC139WA	<b>22142500</b>
InteGrade cable 2.5m(98") black angle	10	INO / 24	24	IGC2.5BA	<b>22146300</b>
InteGrade cable 2.5m(98") white angle	10	INO / 24	24	INTGR2CABWH	<b>22150000</b>
InteGrade connector	11	INO / 500	500	IGCON	<b>22115900</b>
InteGrade power cable 1m(39") black	8	INO / 24	24	INTGR1PWRCABBL	<b>21812800</b>
InteGrade power cable 2.5m(98") black	7	INO / 24	24	INTGR2PWRCABBL	<b>22144900</b>
InteGrade profile 1175mm(46")	2	INO / 48	48	INTGR1175PR	<b>21955200</b>
InteGrade profile 875mm(34")	3	INO / 48	48	INTGR875PR	<b>21953800</b>
InteGrade engine lock inline		INO / 100	100	IGENGLI	<b>21951400</b>
InteGrade spacer cable 0.5m black	12	INO / 24	24	INTGR05SPCABBL	<b>22152400</b>
InteGrade spacer cable 0.5m white	12	INO / 24	24	INTGR05SPCABWH	<b>22154800</b>
InteGrade power cable 1m(39") white	8	INO / 24	24	IGPC139W	<b>22140100</b>

More data see next page



(continued)

Type	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8718291...
InteGrade profile 2000mm(79") F style	13	INO / 24	24	IGP200079FS	<b>22789200</b>
InteGrade profile 2000mm(79")	4	INO / 24	24	INTGR2000PR	<b>25789900</b>
InteGrade profile 2000mm(79") L style	1	INO / 24	48		<b>25791200</b>
InteGrade prof 2000mm(79") T style CTR	1	INO / 16	16		<b>67646100</b>

01







## TL5 ⇨



MASTER TL5 High Efficiency Xtra Eco 23



MASTER TL5 High Efficiency Eco 23



MASTER TL5 High Efficiency 24



MASTER TL5 High Output EcoPlus 25



MASTER TL5 High Output Eco 25



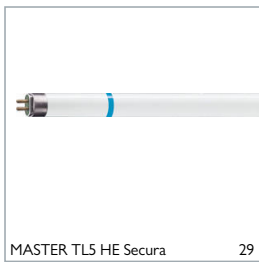
MASTER TL5 High Output 26



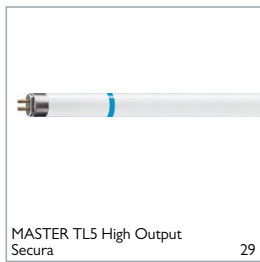
MASTER TL5 High Output Xtra 27



MASTER TL5 High Output TOP 28



MASTER TL5 HE Secura 29



MASTER TL5 High Output Secura 29

## TL-D ⇨



MASTER TL5 High Output 90 De Luxe 30



MASTER TL5 Circular 30



MASTER TL-D Eco 32



MASTER TL-D Power Saver Set 33



MASTER TL-D Super 80 34



MASTER TL-D Secura 35



MASTER TL-D Reflex 35



MASTER TL-D HF Super 80 36



MASTER TL-D Xtra 37



MASTER TL-D Xtra Polar 38



MASTER TL-D Xtra Secura 39



MASTER TL-D Xtreme 40



MASTER TL-D Xtreme Polar 40



MASTER TL-D Xtreme Secura 41



MASTER TL-D 90 De Luxe 42

## TL

## TL Miniature ⇨



MASTER TL-D 90 Graphica 42



TL-D Blacklight Blue 43



TL-X XL 44



MASTER TL Mini Super 80 45



TL Mini Standard Colours 45



## 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 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

#### Product Features

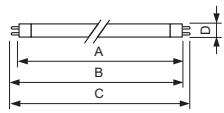
- High lamp efficacies up to 114 lm/W
- Up to 10% power reduction and double the lamp life compared to standard MASTER TL5 HE

#### Application

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




#### Warnings and Safety

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- To achieve lifetimes as published for 100% operation, dimming below 30% should not be applied.



Dim. no.	A max.	B min.	B max.	C max.	D 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 Rend- ering Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number 8718291...	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)							
13W/840	82	4,000	1,150	104	30,000	45,000	A	1	ISL / 40	40	13840TL5ECOXTA	<b>66942500</b>	yes
25W/830	82	3,000	2,600	112	30,000	45,000	A	2	ISL / 40	40	25830TL5ECOXTA	<b>66944900</b>	yes
25W/840	82	4,000	2,600	112	30,000	45,000	A	2	ISL / 40	40	25840TL5ECOXTA	<b>66946300</b>	yes
32W/840	82	4,000	3,250	111	30,000	45,000	A	3	ISL / 40	40	32840TL5ECOXTA	<b>66950000</b>	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 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

#### 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

#### Environment

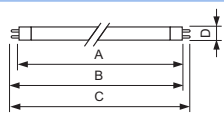
- Best environmental choice because of highest available energy efficiency for fluorescent lighting
- Less material, packaging, weight, transport and recycling volume due to smallest product dimensions
- This product range is RoHS compliant
- This product range is covered by WEEE

#### 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

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.



Dim. no.	A max.	B min.	B max.	C max.	D 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 Eco G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number 8727900...	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)							
13=14W/840	82	4,000	1,150	104	21,000	25,000	A+	1	UNP / 40	40	13840TL5ECO	<b>88083000</b>	yes
19=21W/840	85	4,000	1,800	110	21,000	25,000	A+	2	ISL / 20	20	19840TL5ECO	<b>91814400</b>	yes
25=28W/840	82	4,000	2,600	114	21,000	25,000	A+	3	UNP / 40	40	25840TL5ECO	<b>82589300</b>	yes
32=35W/840	82	4,000	3,250	111	21,000	25,000	A+	4	UNP / 40	40	32840TL5ECO	<b>82593000</b>	yes

## MASTER TL5 High Efficiency



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

## Product Description

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

## 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

## 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 precoat
- 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

## Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO<sub>2</sub> emission compared to any other comparable lightsource (40% less than a TL-D standard lamp, 26% less than TL-D 800). Products having the "Green Flagship" logo contain the lowest mercury content in the industry and are 100% lead free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less compared with TL-D lamps)
- This product range is RoHS compliant
- This product range is covered by WEEE

## Application

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

## MASTER TL5 HE G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)							
14W/830	82	3,000	1,200	99	19,000	24,000	A+	1	ISL / 40	40	14830	871150063938755	yes
14W/835	82	3,500	1,200	99	19,000	24,000	A+	1	ISL / 40	40	14835	871150070765955	yes
14W/840	82	4,000	1,200	99	19,000	24,000	A+	1	ISL / 40	40	14840	871150063940055	yes
14W/865	82	6,500	1,125	91	19,000	24,000	A+	1	ISL / 40	40	14865	871150071009355	yes
21W/830	82	3,000	1,850	101	19,000	24,000	A+	2	ISL / 40	40	21830	871150063942455	yes
21W/835	82	3,500	1,850	101	19,000	24,000	A+	2	ISL / 40	40	21835	871829111501400	yes
21W/840	82	4,000	1,850	101	19,000	24,000	A+	2	ISL / 40	40	21840	871150063944855	yes
21W/865	82	6,500	1,725	94	19,000	24,000	A+	2	ISL / 40	40	21865	871150071011655	yes
28W/830	82	3,000	2,625	104	19,000	24,000	A+	3	ISL / 40	40	28830	871150063946255	yes
28W/835	82	3,500	2,625	104	19,000	24,000	A+	3	ISL / 40	40	28835	871150071004855	yes
28W/840	82	4,000	2,625	104	19,000	24,000	A+	3	ISL / 40	40	28840	871150063948655	yes
28W/865	82	6,500	2,450	97	19,000	24,000	A+	3	ISL / 40	40	28865	871150071015455	yes
28W/865	82	6,500	2,450	97	19,000	24,000	A+	3	UNP / 40	40	28865IP	871150061092855	yes
35W/830	82	3,000	3,325	105	19,000	24,000	A+	4	ISL / 40	40	35830	871150063950955	yes
35W/835	82	3,500	3,325	105	19,000	24,000	A+	4	ISL / 40	40	35835	871150071006255	yes
35W/840	82	4,000	3,325	105	19,000	24,000	A+	4	ISL / 40	40	35840	871150063952355	yes
35W/865	82	6,500	3,100	98	19,000	24,000	A+	4	ISL / 40	40	35865	871150071018555	yes



## MASTER TL5 High Output EcoPlus



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

### The ultimate step in energy saving with TL5 High Output

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 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

#### 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




#### 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

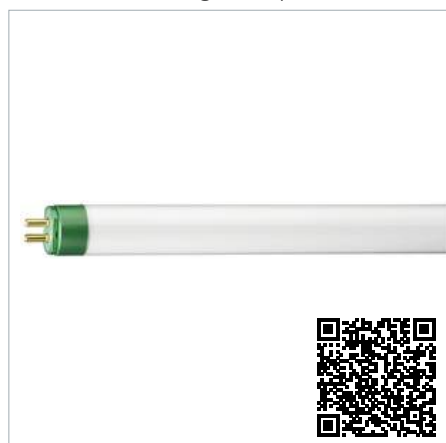
#### Warnings and Safety

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- TL5 HO EcoPlus is not designed for dimming applications.

## MASTER TL5 HO EcoPlus G5

FASERIES T5 ECO+ GS													
Wattage/ Colour Code	Colour Rend- ering Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number 8718291...	
	(R <sub>s</sub> )	(K)	(lm)	(lm/W)	(h)	(h)							
41W/840	82	4,000	4,250	107	21,000	30,000	A+	1	UNP / 40	40	41840TL5ECO+	<b>66337900</b>	yes
44W/840	82	4,000	3,900	102	21,000	30,000	A+	2	UNP / 40	40	44840TL5ECO+	<b>66333100</b>	yes
66W/840	82	4,000	5,700	97	21,000	30,000	A+	1	UNP / 40	40	66840TL5ECO+	<b>66341600</b>	yes

## MASTER TL5 High Output Eco



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

### 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 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

#### Product Features

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

- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.

## MASTER TL5 HO Eco G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number 8727900...	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)							
20=24W/840	82	4,000	1,650	99	21,000	30,000	A+	1	UNP / 40	40	20840TL5ECO	<b>88086100</b>	yes
20=24W/865	82	6,500	1,525	93	21,000	30,000	A+	1	ISL / 20	20	20865TL5ECO	<b>90816900</b>	yes
45=49W/830	82	3,000	4,100	106	21,000	30,000	A+	2	UNP / 40	40	45830TL5ECO	<b>82594700</b>	yes
45=49W/840	82	4,000	4,100	106	21,000	30,000	A+	2	UNP / 40	40	45840TL5ECO	<b>82595400</b>	yes
50=54W/830	85	3,000	4,450	102	21,000	30,000	A+	3	UNP / 40	40	50830TL5ECO	<b>82590900</b>	yes
50=54W/840	85	4,000	4,450	102	21,000	30,000	A+	3	UNP / 40	40	50840TL5ECO	<b>82591600</b>	yes
73=80W/840	82	4,000	6,550	94	21,000	30,000	A+	2	UNP / 40	40	73840TL5ECO	<b>82597800</b>	yes

## MASTER TL5 High Output



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

## Product Description

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

## 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 Features

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




## Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO<sub>2</sub> 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

## MASTER TL5 HO G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)							
24W/830	82	3,000	1,700	87	21,000	30,000	A	1	ISL / 40	40	24830	87115006 <b>3958555</b>	yes
24W/840	82	4,000	1,700	87	21,000	30,000	A	1	ISL / 40	40	24840	87115006 <b>3960855</b>	yes
39W/830	82	3,000	3,100	92	21,000	30,000	A+	2	ISL / 40	40	39830	87115006 <b>3962255</b>	yes
39W/830	82	3,000	3,100	92	21,000	30,000	A+	2	UNP / 40	40	39830IP	87115006 <b>3716155</b>	yes
39W/840	82	4,000	3,100	92	21,000	30,000	A+	2	ISL / 40	40	39840	87115006 <b>3964655</b>	yes
49W/830	82	3,000	4,375	99	21,000	30,000	A+	3	ISL / 40	40	49830	87115006 <b>3954755</b>	yes
49W/835	82	3,500	4,375	99	21,000	30,000	A+	3	ISL / 40	40	49835	8718291 <b>11503800</b>	yes
49W/840	82	4,000	4,375	99	21,000	30,000	A+	3	ISL / 40	40	49840	87115006 <b>3956155</b>	yes
49W/840	82	4,000	4,375	99	21,000	30,000	A+	3	UNP / 40	40	49840IP	87115006 <b>3758155</b>	yes
49W/865	82	6,500	4,075	92	21,000	30,000	A+	3	ISL / 40	40	49865	87115006 <b>4389655</b>	yes
54W/830	85	3,000	4,450	93	21,000	30,000	A+	4	ISL / 40	40	54830	87115006 <b>4316255</b>	yes
54W/840	85	4,000	4,450	93	21,000	30,000	A+	4	ISL / 40	40	54840	87115006 <b>4318655</b>	yes
54W/865	85	6,500	4,150	86	21,000	30,000	A	4	ISL / 40	40	54865	87115006 <b>4391955</b>	yes
80W/830	82	3,000	6,550	88	21,000	30,000	A	3	ISL / 40	40	80830	87115007 <b>1040655</b>	yes
80W/840	82	4,000	6,550	88	21,000	30,000	A	3	ISL / 40	40	80840	87115007 <b>1045155</b>	yes
80W/865	82	6,500	6,300	81	21,000	30,000	A	3	ISL / 40	40	80865	87115007 <b>1047555</b>	yes

## MASTER TL5 High Output Xtra



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

## Product Features

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

## Environment

- Best environmental choice because of highest energy efficiency for fluorescent lighting and long reliable life. This leads to lower CO<sub>2</sub> 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

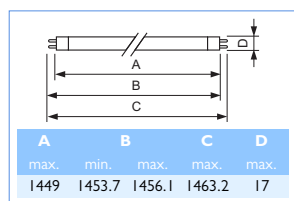
## Warnings and Safety

- Philips HF Xtreme gear ensures longest lifetime.
- To achieve lifetimes as published for 100% operation, dimming below 30% should not be applied.

## MASTER TL5 HO Xtra G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- perature	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 configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)							
49W/830	82	3,000	4,375	98	30,000	45,000	A+	1	ISL / 20	20	49830XTRATL5	<b>26251605</b>	yes
49W/840	82	4,000	4,375	98	30,000	45,000	A+	1	ISL / 20	20	49840XTRATL5	<b>26253005</b>	yes
54W/830	82	3,000	4,450	93	30,000	45,000	A+	2	ISL / 20	20	54830XTRATL5	<b>26323005</b>	yes
54W/840	82	4,000	4,450	93	30,000	45,000	A+	2	ISL / 20	20	54840XTRATL5	<b>26352005</b>	yes
80W/830	82	3,000	6,400	88	30,000	45,000	A	1	ISL / 20	20	80830XTRATL5	<b>26261505</b>	yes
80W/840	82	4,000	6,400	88	30,000	45,000	A	1	ISL / 20	20	80840XTRATL5	<b>26303205</b>	yes

## MASTER TL5 High Output TOP



## 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.

## Product Benefits

- 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

## 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

## 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

## MASTER TL5 HO TOP G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 871 1500...	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)						
49W/840	85	4,000	4,650	99	21,000	30,000	A+	ISL / 20	20	49840TOP	<b>26687305</b>	yes
80W/840	85	4,000	6,750	88	21,000	30,000	A+	ISL / 20	20	80840TOP	<b>26691005</b>	yes





## MASTER TL5 HE Secura



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

**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 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

**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

**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

## MASTER TL5 HE Secura G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(lm/W)	(h)	(h)						
28W/840	82	4,000	2,625	104	19,000	24,000	A+	UNP / 40	40	28840TL5SEC	95215855	yes

## MASTER TL5 High Output Secura



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

**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 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

**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

**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



## MASTER TL5 HO Secura G5

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- pera- ture	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 8711500...	
	(R <sub>a</sub> )	(K)												
54W/840	82	4,000	4,450	4,450	93	21,000	30,000	A+	1	UNP / 40	40	54840TL5SEC	95231855	yes
80W/840	82	4,000	6,550	6,550	88	21,000	30,000	A	2	UNP / 40	40	80840TL5SEC	95235655	yes

## MASTER TL5 High Output 90 De Luxe



## Product Description

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

## Product Benefits

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

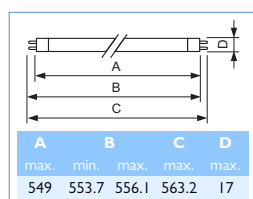
## Product Features

- 40% thinner than existing TL-D lamps




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

## Application

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



## MASTER TL5 HO 90 De Luxe G5

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 8711500...	
	(R <sub>a</sub> )	(K)	(lm)	(lm/W)	(h)	(h)						
24W/950	92	5,200	1,525	78	21,000	30,000	A	ISL / 20	20	24950	89064100	yes

## MASTER TL5 Circular



## Product Description

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

## 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

## 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

## Application

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

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

## MASTER TL5 Circular 2GX13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	Luminous Flux EL 25°C, Rated	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(h)	(h)							
22W/830	85	3,000	1,800	8,000	12,000	A	1	ICT / 10	10	22TL5C830	<b>64095625</b>	yes
22W/840	85	4,000	1,800	8,000	12,000	A	1	ICT / 10	10	22TL5C840	<b>64221925</b>	yes
40W/830	85	3,000	3,300	8,000	12,000	A	2	ICT / 10	10	40TL5C830	<b>64097025</b>	yes
40W/840	85	4,000	3,300	8,000	12,000	A	2	ICT / 10	10	40TL5C840	<b>64223325</b>	yes
55W/830	85	3,000	4,200	8,000	12,000	A	2	ICT / 10	10	55TL5C830	<b>64279025</b>	yes
55W/840	85	4,000	4,200	8,000	12,000	A	2	ICT / 10	10	55TL5C840	<b>64251625</b>	yes
60W/830	85	3,000	5,000	8,000	12,000	A	3	ICT / 10	10	60TL5C830	<b>64259225</b>	yes
60W/840	85	4,000	5,000	8,000	12,000	A	3	ICT / 10	10	60TL5C840	<b>64261525</b>	yes

## MASTER TL-D Eco



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		

## Product Description

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

## 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

## Product Features

- The only T8 fluorescent lamp that saves more than 10% of energy in existing indoor luminaires
- Can be directly retrofitted into existing fluorescent fittings operating on conventional EM or HF gear in indoor applications
- Uses the latest highly efficient phosphors and special filling gas
- High-quality lighting with good 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

## Environment

- Allows easy switching to more energy-conscious solutions

- Helps reduce CO<sub>2</sub> emissions and meet climate change targets
- Philips Green Flagship label due to extremely low mercury levels
- RoHS compliant
- Covered by WEEE

## Application

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

## MASTER TL-D Eco G13

Wattage/ Colour Code	Colour Rende- ring Index	Colour Tem- perature	Luminous Flux Lamp EM 30°C	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 configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(lm)	(h)	(h)							
16W/840	85	4,000	1,300	1,175	17,000	20,000	A	1	ISL / 25	25	16840TLDECO	<b>26861740</b>	yes
32W/830	85	3,000	3,000	2,650	17,000	20,000	A	2	ISL / 25	25	32830TLDECO	<b>26458940</b>	yes
32W/840	85	4,000	3,000	2,650	17,000	20,000	A	2	ISL / 25	25	32840TLDECO	<b>26462640</b>	yes
51W/830	85	3,000	4,800	4,550	17,000	20,000	A	3	ISL / 25	25	51830TLDECO	<b>26466440</b>	yes
51W/840	85	4,000	4,800	4,550	17,000	20,000	A	3	ISL / 25	25	51840TLDECO	<b>26470140</b>	yes



## MASTER TL-D Power Saver Set



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

## 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.

## Product Benefits

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

## 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 electromagnetic 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

## 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%.

## MASTER TL-D Power Saver Set G13

Wattage/Colour Code	Colour Rendering Index	Colour Temperature	SystLum Flux 25°C, Rated, @10kh	Life System to 50% failures	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...	
	(Ra)	(K)	(lm)	(h)					
12=18W/830	82	3,000	915	20,000	A 1	UNP / 25	18830TLDPSS	91208100	yes
12=18W/830	82	3,000	915	20,000	A 1	ISL / 25	18830TLDPSSIXI	91496200	yes
12=18W/840	82	4,000	915	20,000	A 1	ISL / 25	18840TLDPSSIXI	91498600	yes
12=18W/840	82	4,000	915	20,000	A 1	UNP / 25	18840TLDPSS	91209800	yes
12=18W/865	82	6,500	870	20,000	A 1	UNP / 25	18865TLDPSS	91210400	yes
12=18W/865	82	6,500	870	20,000	A 1	ISL / 25	18865TLDPSSIXI	91500600	yes
23=36W/830	82	3,000	2,100	20,000	A 2	ISL / 25	36830TLDPSSIXI	91502000	yes
23=36W/830	82	3,000	2,100	20,000	A 2	UNP / 25	36830TLDPSS	91212800	yes
23=36W/840	82	4,000	2,100	20,000	A 2	UNP / 25	36840TLDPSS	91213500	yes
23=36W/840	82	4,000	2,100	20,000	A 2	ISL / 25	36840TLDPSSIXI	91504400	yes
23=36W/865	82	6,500	1,900	20,000	A 2	ISL / 25	36865TLDPSSIXI	91506800	yes
23=36W/865	82	6,500	1,900	20,000	A 2	UNP / 25	36865TLDPSS	91214200	yes
37=58W/830	82	3,000	3,360	20,000	A 3	UNP / 25	58830TLDPSS	91215900	yes
37=58W/830	82	3,000	3,360	20,000	A 3	ISL / 25	58830TLDPSSIXI	91508200	yes
37=58W/840	82	4,000	3,360	20,000	A 3	ISL / 25	58840TLDPSSIXI	91510500	yes
37=58W/865	82	6,500	3,215	20,000	A 3	ISL / 25	58865TLDPSSIXI	91512900	yes



## MASTER TL-D Super 80



## Product Description

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

## 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 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

## 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 max.	B min.	B max.	C max.	D max.
1	437.4	442.1	444.5	451.6	28
2	589.8	594.5	596.9	604.0	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	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...	
	(Ra)	(K)	(lm)	(h)	(h)							
15W/830	85	3,000	1,000	17,000	20,000	B	1	ISL / 25	25	15830	70279140	yes
15W/840	82	4,000	1,000	17,000	20,000	B	1	ISL / 25	25	15840	70280740	yes
18W/827	85	2,700	1,350	17,000	20,000	A	2	ISL / 25	25	18827	63162640	yes
18W/830	85	3,000	1,350	17,000	20,000	A	2	ISL / 25	25	18830	63165740	yes
18W/835	85	3,500	1,350	17,000	20,000	A	2	ISL / 25	25	18835	63168840	yes
18W/840	85	4,000	1,350	17,000	20,000	A	2	ISL / 25	25	18840	63171840	yes
18W/865	85	6,500	1,300	17,000	20,000	A	2	ISL / 25	25	18865	63177040	yes
23W/840	82	4,000	2,050	17,000	20,000	A	3	ISL / 25	25	23840	55870140	yes
30W/830	85	3,000	2,400	17,000	20,000	A	4	ISL / 25	25	30830	63183140	yes
30W/840	85	4,000	2,400	17,000	20,000	A	4	ISL / 25	25	30840	63186240	yes
36W/827	85	2,700	3,350	17,000	20,000	A	5	ISL / 25	25	36827	63192340	yes
36W/830	85	3,000	3,350	17,000	20,000	A	5	ISL / 25	25	36830	63195440	yes
36W/835	85	3,500	3,350	17,000	20,000	A	5	ISL / 25	25	36835	63198540	yes
36W/840	85	4,000	3,350	17,000	20,000	A	5	ISL / 25	25	36840	63201240	yes
36W/840 - 1m	85	4,000	3,100	17,000	20,000	A	3	ISL / 25	25	M36840NG	55877040	yes
36W/865	85	6,500	3,250	17,000	20,000	A	5	ISL / 25	25	36865	63207440	yes
38W/830	85	3,000	3,350	17,000	20,000	A	6	ISL / 25	25	38830NG	55880040	yes
38W/840	85	4,000	3,350	17,000	20,000	A	6	ISL / 25	25	38840NG	55883140	yes
58W/827	85	2,700	5,240	17,000	20,000	A	7	ISL / 25	25	58827	63210440	yes
58W/830	85	3,000	5,240	17,000	20,000	A	7	ISL / 25	25	58830	63213540	yes
58W/835	85	3,500	5,240	17,000	20,000	A	7	ISL / 25	25	58835	63216640	yes
58W/840	85	4,000	5,240	17,000	20,000	A	7	ISL / 25	25	58840	63219740	yes
58W/865	85	6,500	5,000	17,000	20,000	A	7	ISL / 25	25	58865	63225840	yes
70W/830	85	3,000	6,200	17,000	20,000	A	8	ISL / 25	25	70830	61598540	yes
70W/835	85	3,500	6,200	17,000	20,000	A	8	ISL / 25	25	70835	64273840	yes
70W/840	85	4,000	6,200	17,000	20,000	A	8	ISL / 25	25	70840	61592340	yes

## MASTER TL-D Secura



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		

## Product Description

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

## 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

## 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

## 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

## MASTER TL-D Secura G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration	National Order Code	Ordering number 871 1500...
	(Ra)	(K)	(lm)	(h)	(h)				
18W/830	85	3,000	1,300	17,000	20,000	A	1	ISL / 25	18830SEC
58W/840	85	4,000	5,000	17,000	20,000	A	2	ISL / 25	58840BSEC

## MASTER TL-D Reflex



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		

## Product Description

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

## 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

## 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

## Environment

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

## Application

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

## MASTER TL-D Reflex G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 8711500...	
	(R <sub>a</sub> )	(K)	(lm)	(h)	(h)							
18W/830	85	3,000	1,350	17,000	20,000	A	1	ISL / 25	25	18830R	<b>63644740</b>	yes
18W/840	85	4,000	1,350	17,000	20,000	A	1	ISL / 25	25	18840R	<b>63647840</b>	yes
18W/865	85	6,500	1,300	17,000	20,000	A	1	ISL / 25	25	18865RFECO	<b>26029140</b>	yes
36W/840	85	4,000	3,350	17,000	20,000	A	2	ISL / 25	25	36840R	<b>55953140</b>	yes
58W/840	85	4,000	5,240	17,000	20,000	A	3	ISL / 25	25	58840R	<b>55962340</b>	yes
58W/865	85	6,500	5,000	17,000	20,000	A	3	ISL / 25	25	58865RFECO	<b>26033840</b>	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 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

## 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

## 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 max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604.0
2	1199.4	1204.1	1206.5	1213.6
3	1500.0	1504.7	1507.1	1514.2

## MASTER TL-D HF Super 80 G13

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

## MASTER TL-D Xtra



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

## Product Description

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

## 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 Features

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

## 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

## Warnings and Safety

- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

## MASTER TL-D Xtra G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 871 1500...	
	(Ra)	(K)	(lm)	(h)	(h)							
18W/830	85	3,000	1,350	46,500	55,000	A	1	ISL / 25	25	18830XTRA	<b>54498840</b>	yes
18W/840	85	4,000	1,350	46,500	55,000	A	1	ISL / 25	25	18840XTRA	<b>55862640</b>	yes
30W/830	85	3,000	2,400	47,000	55,000	A	2	ISL / 25	25	30830XTRA	<b>89532540</b>	yes
30W/840	85	4,000	2,400	47,000	55,000	A	2	ISL / 25	25	30840XTRA	<b>89536340</b>	yes
36W/830	85	3,000	3,350	47,000	55,000	A	3	ISL / 25	25	36830XTRA	<b>55871840</b>	yes
36W/840	85	4,000	3,350	47,000	55,000	A	3	ISL / 25	25	36840XTRA	<b>55876340</b>	yes
58W/830	85	3,000	5,200	47,000	55,000	A	4	ISL / 25	25	58830XTRA	<b>55888640</b>	yes
58W/840	85	4,000	5,200	47,000	55,000	A	4	ISL / 25	25	58840XTRA	<b>55890940</b>	yes
70W/840	85	4,000	6,150	47,000	55,000	A	5	ISL / 25	25	70840XTRA	<b>89552340</b>	yes



## MASTER TL-D Xtra Polar



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

## Product Description

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

## Product Benefits

- Substantial energy saving (up to 70%) due to higher efficacy at lower temperatures
- Strong reduction in maintenance costs due to high reliability and long lifetime
- Fully temperature-resistant in all conditions; no temperature-related relamping problems
- Supports end-user sustainability programs (low mercury level and low waste due to long lifetime)
- Miniaturisation: Polar T10 version (32 mm) is suited for situations where the diameter of the Polar T12 lamp (38 mm) is too large

## 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

## 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

## Warnings and Safety

- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

## MASTER TL-D Xtra Polar G13

Wattage/ Colour Code	Bulb	Colour Rende- ring Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 871 1500...	
		(Ra)	(K)	(lm)	(h)	(h)							
18W/830	T12	85	3,000	1,350	47,000	55,000	A	1	ISL / 10	10	18830XTRAPOLAR	<b>89303125</b>	yes
36W/830	T12	85	3,000	3,350	47,000	55,000	A	2	ISL / 10	10	36830XTRAPOLAR	<b>89315425</b>	yes





## MASTER TL-D Xtra Secura



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

## Product Description

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

## Product Benefits

- Protective Teflon coating keeps glass and lamp components together in case of accidental breakage; allows use in open luminaires in food & beverages industry
- Easy identification in audit situations by blue ring at one end
- Special fluorescent coating gives good colour rendering
- Extra-long lifetime and reduced early failures mean lower maintenance workload and costs, and facilitate change from spot to group replacement
- Reduced waste and disposal costs at end-of-life
- Compliant with HACCP regulations and supports HACCP certification

## Product Features

- Significant reduction of early failures based on new X-technology
- Extra-long life and high reliability
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)

- Fully recyclable lamp technology
- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps
- Strong, temperature-resistant protective Secura coating based on FEP (Teflon)
- Coating lifetime is identical to the lifetime of the lamp

## 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

- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

## MASTER TL-D Xtra Secura G13

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



## MASTER TL-D Xtreme



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		

## Product Description

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

## 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 Features

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

## 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

## Warnings and Safety

- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

## MASTER TL-D Xtreme G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration	National Order Code	Ordering number 871 1500...	
	(Ra)	(K)	(lm)	(h)	(h)					
18W/840	85	4,000	1,350	66,000	79,000	A	I	18840XTREME	54496440	yes
18W/865	85	6,500	1,250	66,000	79,000	A	I	18865XTREME	89275140	yes
36W/840	85	4,000	3,250	66,000	79,000	A	2	36840XTREME	55868840	yes
36W/865	85	6,500	3,150	66,000	79,000	A	2	36865XTREME	89277540	yes
58W/840	85	4,000	5,150	66,000	79,000	A	3	58840XTREME	55886240	yes
58W/865	85	6,500	5,000	66,000	79,000	A	3	58865XTREME	89279940	yes

## MASTER TL-D Xtreme Polar



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

## Product Description

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

## Product 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)

## 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

## 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

## Warnings and Safety

- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

## MASTER TL-D Xtreme Polar G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(h)	(h)							
36W/840	85	4,000	3,250	66,000	79,000	A	1	ISL / 10	10	36840XTRMEPOLAR	<b>89311625</b>	yes
58W/840	85	4,000	4,750	66,000	79,000	A	2	ISL / 10	10	58840XTRMEPOLAR	<b>89323925</b>	yes

## MASTER TL-D Xtreme Secura



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

## Product Description

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

## Product Benefits

- Protective Teflon coating keeps glass and lamp components together in case of accidental breakage; allows use in open luminaires in food & beverages industry
- Easy identification in audit situations by blue ring at one end
- Special fluorescent coating gives good colour rendering
- Extremely long lifetime and reduced early failures mean lower maintenance workload and costs, and facilitate change from spot to group replacement
- Reduced waste and disposal costs at end-of-life
- Compliant with HACCP regulations and supports HACCP certification

## Product Features

- Significant reduction of early failures based on new X-technology
- Extremely long life and high reliability
- Highly efficient 3-band fluorescent coating in combination with New Generation pre-coating technology
- Low mercury dose for a long-life lamp (5 mg)
- Fully recyclable lamp technology

- End-cap has an x-shaped green bottom plate to distinguish the lamp from other fluorescent lamps
- Strong, temperature-resistant protective Secura coating based on FEP (Teflon)
- Coating lifetime is identical to the lifetime of the lamp

## 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

- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

## MASTER TL-D Xtreme Secura G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(h)	(h)							
18W/840	85	4,000	1,300	66,000	79,000	A	1	ISL / 25	25	18840XTREMESEC	<b>88971340</b>	yes
36W/840	85	4,000	3,250	66,000	79,000	A	2	ISL / 25	25	36840XTREMESEC	<b>88979940</b>	yes

## MASTER TL-D 90 De Luxe



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

## Product Description

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

## 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-I), without investing in new luminaires
- Attractive packaging configuration

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

## Product Features

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




## 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

## MASTER TL-D 90 De Luxe G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(K)	(lm)	(h)	(h)							
18W/930	91	3,000	1,200	17,000	20,000	B	I	SLV / 10	10	18930DLP	<b>88837225</b>	yes
18W/940	91	4,000	1,200	17,000	20,000	B	I	SLV / 10	10	18940DLP	<b>88839625</b>	yes
18W/950	92	5,300	1,150	17,000	20,000	B	I	SLV / 10	10	18950DLP	<b>88843325</b>	yes
18W/965	93	6,500	1,150	17,000	20,000	B	I	SLV / 10	10	18965DLP	<b>88846425</b>	yes
36W/930	91	3,000	2,800	17,000	20,000	A	2	SLV / 10	10	36930DLP	<b>88856325</b>	yes
36W/940	91	4,000	2,800	17,000	20,000	A	2	SLV / 10	10	36940DLP	<b>88858725</b>	yes
36W/950	92	5,300	2,800	17,000	20,000	A	2	SLV / 10	10	36950DLP	<b>88860025</b>	yes
36W/965	93	6,500	2,800	17,000	20,000	A	2	SLV / 10	10	36965DLP	<b>88862425</b>	yes
58W/940	91	4,000	4,600	17,000	20,000	A	3	SLV / 10	10	58940DLP	<b>88869325</b>	yes
58W/950	92	5,300	4,550	17,000	20,000	A	3	SLV / 10	10	58950DLP	<b>88871625</b>	yes
58W/965	93	6,500	4,550	17,000	20,000	A	3	SLV / 10	10	58965DLP	<b>88873025</b>	yes

## MASTER TL-D 90 Graphica



## Product Description

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

## 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

## Product Features

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

## 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 max.	B min.	C max.	D max.
1	589.8	594.5	596.9	604.0
2	1199.4	1204.1	1206.5	1213.6
3	1500.0	1504.7	1507.1	1514.2

### MASTER TL-D 90 Graphica G13

Wattage/ Colour Code	Colour Rendering Index	Colour Tempera- ture	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 configu- ration	National Order Code	Ordering number 8711500...
	(R <sub>a</sub> )	(K)	(lm)	(h)	(h)				
18W/950	97	5,300	950	17,000	20,000	B 1	ISL / 10	18950GP	<b>88850125</b>
18W/965	98	6,500	930	17,000	20,000	B 1	ISL / 10	18965GP	<b>88852525</b>
36W/950	97	5,300	2,340	17,000	20,000	B 2	ISL / 10	36950GP	<b>88864825</b>
36W/965	98	6,500	2,100	17,000	20,000	B 2	ISL / 10	36965GP	<b>88836525</b>
58W/950	97	5,300	3,670	17,000	20,000	B 3	ISL / 10	58950GP	<b>88875425</b>
58W/965	98	6,500	3,350	17,000	20,000	B 3	ISL / 10	58965GP	<b>88877825</b>

### TL-D Blacklight Blue



#### For reliable unveiling of secrets

TL-D/8 Blacklight Blue lamps are low-pressure mercury-vapor fluorescent lamps. They have an inner envelope coated with a fluorescent powder that emits long-wave UV radiation to excite luminescence.

#### Product Benefits

- Quick detection of UV-reflecting materials
- Creates special lighting atmospheres and effects

#### Product Features

- Straight outer envelope

#### Application

- Detection and analysis in the textile and chemical industries
- Banking and forensic science
- Special effects in night clubs, discos and theatres, and sign lighting

#### System

- 'TL'D/8 lamps operate on AC mains supply via a ballast and a starter

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

### TL-D G13

Wattage/Colour Code	Life to 50% failures EM	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
	(h)				
18W/108	13,000	1	ISL / 25	1808	<b>95111340</b>
36W/108	15,000	2	ISL / 25	3608	<b>95115140</b>



## TL-X XL



## Product Description

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

## Product Benefits

- In combination with a special lampholder all possible sparking effects during ignition are eliminated
- Extended lifetime compared with standard TL lamps

## Product Features

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

## Application

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

Dim. no.	A max.	A min.	B max.	B min.	C max.	C min.	D 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	Colour Tempera- ture	Lamp Luminous Flux EM	Life to 10% failures EM	Life to 50% failures EM		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 871 1500...	
	(Ra)	(K)	(lm)	(h)	(h)							
20W/33-640	63	4,100	940	21,000	26,000	B	1	ISL / 25	25	TLX2033XL	<b>26135940</b>	yes
40W/33-640	63	4,100	2,300	21,000	26,000	B	2	ISL / 25	25	TLX4033XL	<b>26137340</b>	yes
65W/33-640	63	4,100	4,400	21,000	26,000	A	3	ISL / 25	25	TLX6533XL	<b>26139740</b>	yes



## MASTER TL Mini Super 80



## Product Description

- Low-pressure mercury discharge lamps with a tubular I6 mm envelope

## 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

## Product Features

- I6 mm diameter tubes with highly efficient 3-band fluorescent coating

## Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO<sub>2</sub> 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

## MASTER TL Mini Super 80 G5

Wattage/ Colour Code	Colour Rendering Index (R <sub>a</sub> )	Colour Tempera- ture (K)	Lamp Lumi- nous 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	A	1	IFM / 10X25CC	250	884	<b>71642227</b>	yes
13W/840	85	4,000	1,000	4,000	8,000	A	2	IFM / 10X25CC	250	1384	<b>71685927</b>	yes

## TL Mini Standard Colours



## Product Description

- Low-pressure mercury discharge lamps with a tubular I6 mm envelope

## Product Benefits

- Creates atmospheres from warm white to cool daylight

## Product Features

- I6 mm diameter tubes with moderate colour rendering

## Application

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

## System

- Possibility for operation on low-voltage DC supply

Dim. no.	A max.	B min.	C max.	D max.
1	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

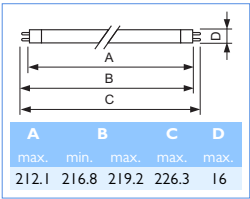
Wattage/ Colour Code	Colour Rendering Index (R <sub>a</sub> )	Colour Tempera- ture (K)	Lamp Lumi- nous Flux EM (lm)	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 871 1500...	
6W/33-640	60	4,100	260	5,000	10,000	B	1	IFM / 10X25CC	250	633	<b>71583827</b>	yes
8W/33-640	60	4,100	410	5,000	10,000	A	2	IFM / 10X25CC	250	833	<b>70473327</b>	yes
13W/33-640	60	4,100	930	4,000	8,000	A	3	IFM / 10X25CC	250	1333	<b>70475727</b>	yes




TL Mini Blacklight Blue



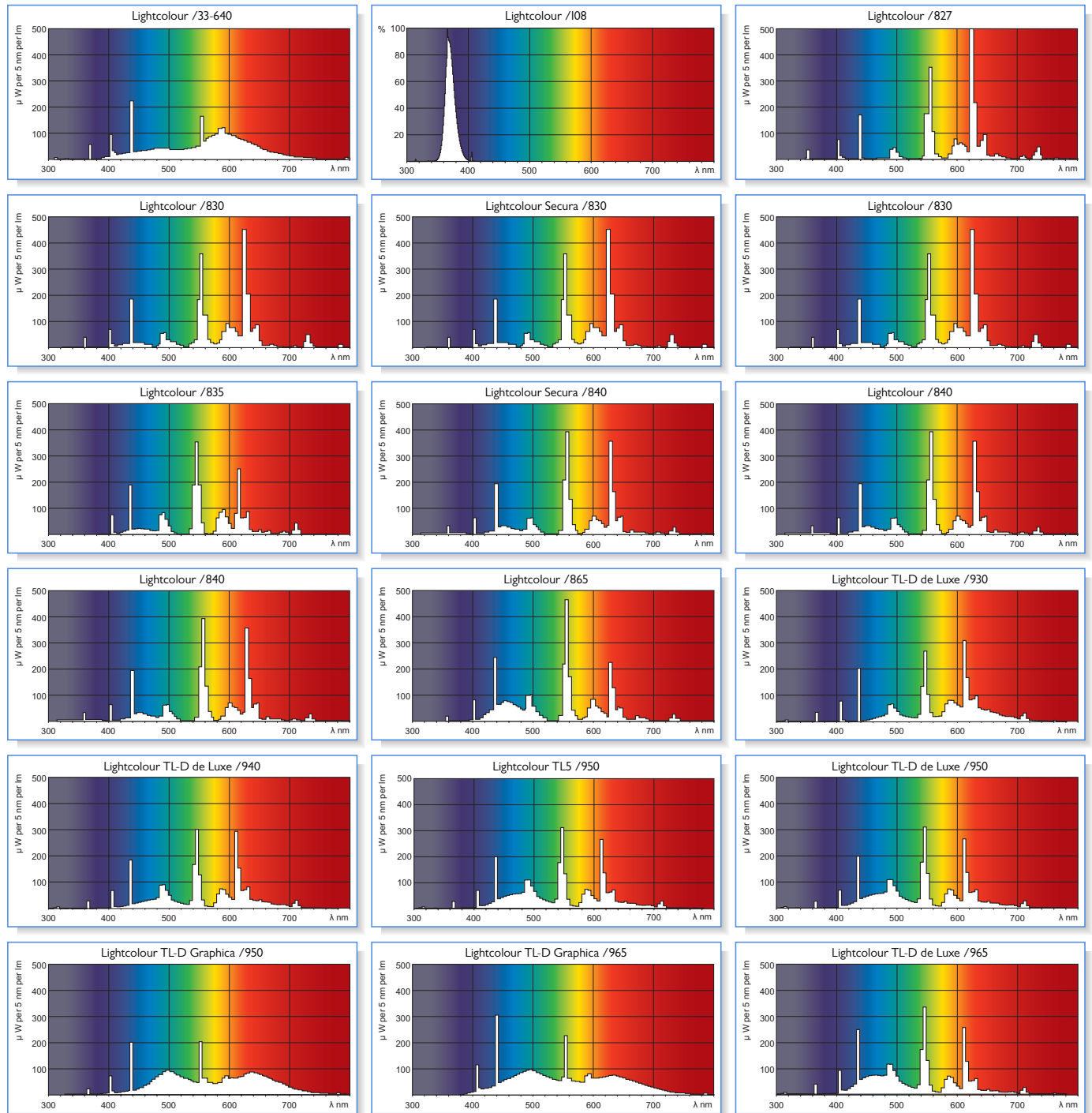
**The light source for money checking!**  
This TL Miniature lamp (tube diameter 16 mm) is made of blacklight blue (dark blue) glass, which transmits UV- A radiation, but gives only a minimum of visible light. It is a perfect solution for quick detection of UV-reflecting materials. It is used especially for testing, inspection and analysis in various branches of industry, e. g. criminology, philately and medicine. Furthermore, it is applied to create special effects in the entertainment industry, e. g. in nightclubs and theaters.



TL G5

Wattage/Colour Code	Life to 50% failures EM	Packing type/Packing configuration		National Order Code	Ordering number	
6W/108	(h) 8,000	1FM / 10X25CC	250	608	8711500... <b>95098727</b>	 yes

## Spectral power distribution





Energy Saver Stick shape ↗



MASTER PL-Electronic50



GENIE51

Energy Saver Bulb shape ↗



MASTER PL-Electronic Polar52



MASTER Softone53



Softone53



## MASTER PL-Electronic



## Product Description

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

## 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

## Product Features

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

## 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

## Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.

Dim. no.	C max.	D max.	F max.
1	119.2	28	40.3
2	141.2	28	40.3

Dim. no.	C max.	D max.	F max.
3	126.2	39.6	48
4	137.2	39.6	48
5	152.2	39.6	48
6	174.2	39.6	48

Dim. no.	C max.	D max.	F max.
7	124.7	39.6	48

Dim. no.	C max.	D max.	F max.
8	135.7	39.6	48
9	150.7	39.6	48

## Warm white

Type	Wattage/ Colour Code	Voltage (V)	Cap- Base	Colour Tempera- ture (K)	Rated Luminous Flux (lm)	Rated Lifetime (h)		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
MASTER PLE-C	8W/827	230-240	ES	2,700	432	15,000	A	1	ICT / 6	6	8ESPLE	26358200	
MASTER PLE-C	11W/827	230-240	ES	2,700	600	15,000	A	2	ICT / 6	6	11ESPLE	26368100	
MASTER PLE-R	15W/827	220-240	ES	2,700	890	20,000	A	3	ICT / 6	6	15ESPLE	75142310	yes
MASTER PLE-R	15W/827	220-240	BC	2,700	890	20,000	A	7	ICT / 6	6	15BCPLE	75205510	yes
MASTER PLE-R	20W/827	220-240	BC	2,700	1,220	20,000	A	8	ICT / 6	6	20BCPLE	75206210	yes
MASTER PLE-R	20W/827	220-240	ES	2,700	1,220	20,000	A	4	ICT / 6	6	20ESPLE	75143010	yes
MASTER PLE-R	23W/827	220-240	BC	2,700	1,485	20,000	A	9	ICT / 6	6	23BCPLE	75207910	yes
MASTER PLE-R	23W/827	220-240	ES	2,700	1,485	20,000	A	5	ICT / 6	6	23ESPLE	75144710	yes
MASTER PLE-R	27W/827	220-240	ES	2,700	1,820	20,000	A	6	ICT / 6	6	27ESPLE	54385110	yes

## GENIE



### Small and powerful energy saver gives high quality light, with compact design

Functional non-covered Energy saving lamp, with money saving high quality light and compact design. This lamp is small enough to fit neatly wherever you need extra bright light at home, enables easy replacement of most incandescent lamp all the way.

#### Product Benefits

- Compact energy saving lamp enables fitting neatly wherever extra brightness is needed
- Save your money with long life-time and high energy efficiency compare to incandescent lamp
- Flicker-free start & Fast run up

#### Product Features

- Long-Life and Energy saving alternative to Incandescent lamps
- Fast run-up
- Recommended ambient temperature range to ensure almost constant light output (>90%): between 0 and +50 °C

#### Application

- 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 required for outdoor applications
- Not suitable for use with dimmers or electronic gear

#### Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.

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

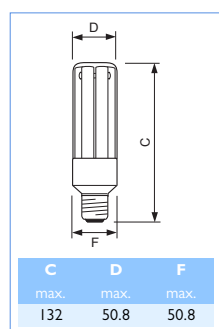
Dim. no.	C max.	D max.	F max.
4	115.5	35	44.4
5	130.5	35	44.4

Dim. no.	C max.	D max.	F max.
6	133.5	41	48.4

#### GENIE 220-240V Warm white

Wattage/ Colour Code	Cap- Base	Colour Tempera- ture	Rated Luminous Flux	Rated Lifetime		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number	
		(K)	(lm)	(h)							
8W/827	ES	2,700	425	10,000	A	1	IPF / 6	6	8ESGENIE10Y	871150080118010	yes
11W/827	ES	2,700	600	10,000	A	2	IPF / 6	6	11ESGENIE10Y	871150080119710	yes
11W/827	BC	2,700	600	10,000	A	4	IPF / 6	6	11BCGENIE10Y	871016322407710	
14W/827	ES	2,700	810	10,000	A	3	IPF / 6	6	14ESGENIE10Y	871150080120310	yes
14W/827	BC	2,700	810	10,000	A	5	IPF / 6	6	14BCGENIE10Y	871150080124110	
18W/827	BC	2,700	1,100	10,000	A	6	IPF / 6	6	18BCGENIE10Y	871016322409110	

## MASTER PL-Electronic Polar



## Product Description

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

## Product Benefits

- Very good performance in the lower ambient temperature range (the lamp gives no less than 90% of nominal lumen in temperatures between  $-20 \div +40^{\circ}\text{C}$ ), 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

## Product Features

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

- Complete range equipped with the unique Philips bridged burner technology
- Very low mercury content ( $\leq 2 \text{ mg}$ )
- European energy efficiency label A for the complete range




## 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

## Warnings and Safety

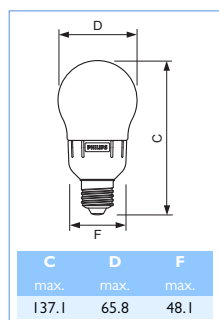
- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.

## MASTER PL-E Polar 220-240V Warm white ES

Wattage/Colour Code	Colour Temperature	Rated Luminous Flux	Rated Lifetime		Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
	(K)	(lm)	(h)						
15W/827	2.700	890	15.000	A	1CH / 6	6	MPLE15ESPOL	<b>66045910</b>	yes



## MASTER Softone



### Energy Saving Lamp combines superior performance with soft warm light and traditional bulb design

Energy Saving lamps with design and superior performance, designed for incandescent lamp replacement in professional applications (Hotels, restaurants, etc), where you want to create an intimate and cozy atmosphere. With a comprehensive range of wattages, it enables easy replacement of most incandescent lamp all the way

#### Product Benefits

- Light quality and distribution similar to the opalised incandescent lamps
- Gives a soft, diffused light with a high comfort level
- Save your money with long life-time and high energy efficiency compare to incandescent lamp

#### Product Features

- Professional long-life energy saving alternative to incandescent lamps
- Flicker-free start
- Almost constant light output (>90%) over recommended temperature range 0 to +50 °C

#### 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 use with dimmers or electronic gear

#### Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.

220-240V Warm white ES

Type	Wattage/ Colour Code	Colour Tem- perature	Rated Luminous Flux	Rated Lifetime	Packing type/Packing configu- ration	National Order Code	Ordering number 871 1500...	
		(K)	(lm)	(h)				
MASTER Softone	16W/827	2,700	860	12,000	A IP F / 6	6	16ESAMBMT	<b>46810900</b> yes

## Softone



#### Product Description

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

#### 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)

#### 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.

#### Applications:

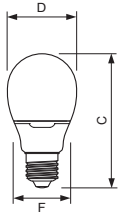
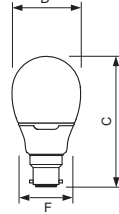
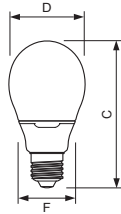
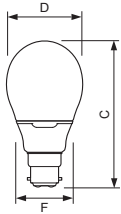
- Ideal for use in most consumer and semi-professional applications where you want to create an intimate and cosy atmosphere

- 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



#### Warnings and Safety

- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact fluorescent lamps have to be treated as special waste, they must be taken to your local waste facilities for recycling. The European Lighting Industry has set up an infrastructure, capable of recycling mercury, other metals, glass etc.



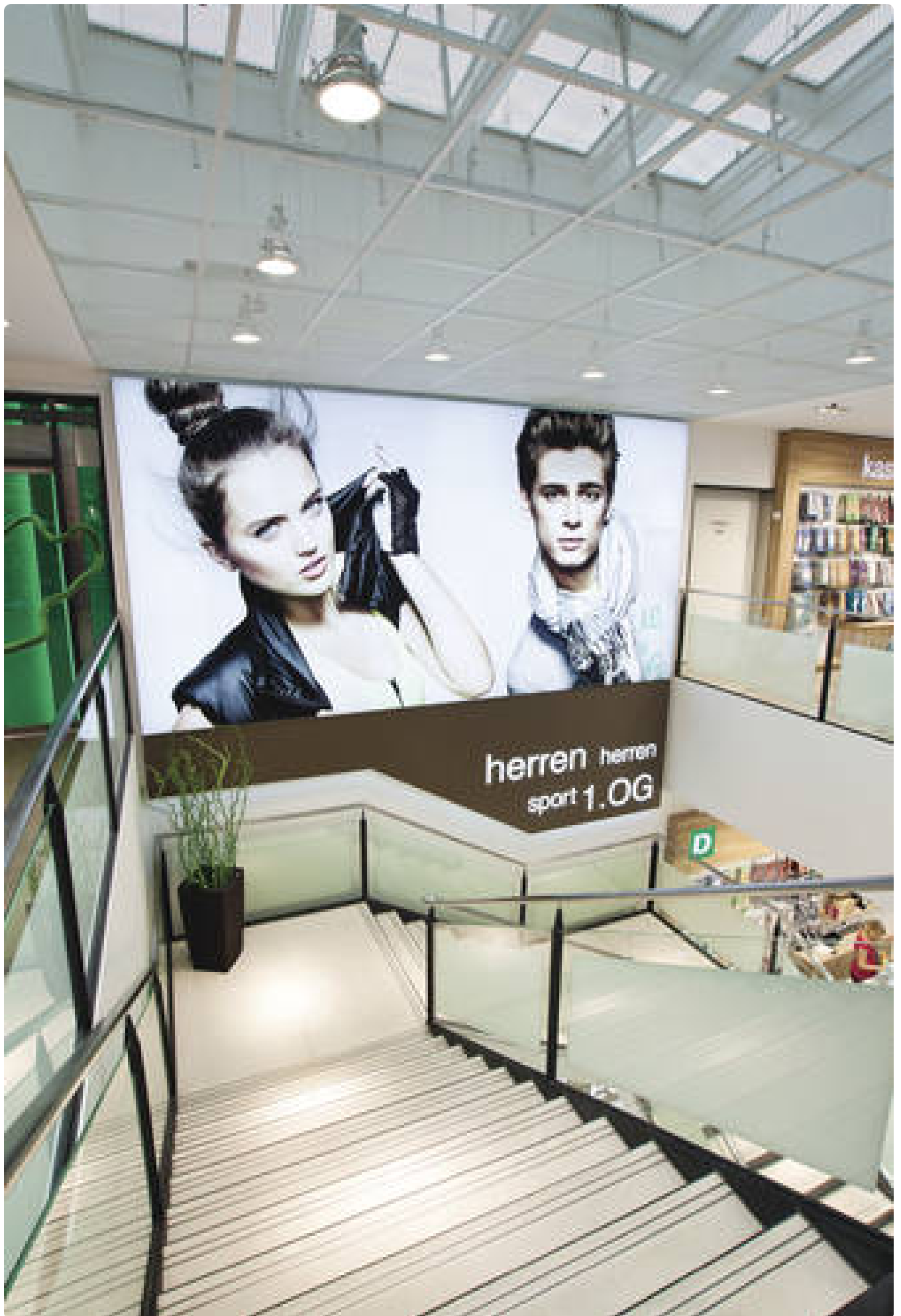
																																							
<table> <tr> <th>Dim. no.</th><th>C max.</th><th>D max.</th><th>F max.</th></tr> <tr> <td>1</td><td>109</td><td>56</td><td>45.5</td></tr> </table>	Dim. no.	C max.	D max.	F max.	1	109	56	45.5	<table> <tr> <th>Dim. no.</th><th>C max.</th><th>D max.</th><th>F max.</th></tr> <tr> <td>2</td><td>107.5</td><td>56</td><td>45.5</td></tr> </table>	Dim. no.	C max.	D max.	F max.	2	107.5	56	45.5	<table> <tr> <th>Dim. no.</th><th>C max.</th><th>D max.</th><th>F max.</th></tr> <tr> <td>3</td><td>125</td><td>64</td><td>47.3</td></tr> <tr> <td>4</td><td>137</td><td>71</td><td>47.3</td></tr> </table>	Dim. no.	C max.	D max.	F max.	3	125	64	47.3	4	137	71	47.3	<table> <tr> <th>Dim. no.</th><th>C max.</th><th>D max.</th><th>F max.</th></tr> <tr> <td>5</td><td>135.5</td><td>71</td><td>47.3</td></tr> </table>	Dim. no.	C max.	D max.	F max.	5	135.5	71	47.3
Dim. no.	C max.	D max.	F max.																																				
1	109	56	45.5																																				
Dim. no.	C max.	D max.	F max.																																				
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4	137	71	47.3																																				
Dim. no.	C max.	D max.	F max.																																				
5	135.5	71	47.3																																				

## Softone 220-240V Warm white

Wattage/ Colour Code	Cap-Base	Bulb	Colour Tempera- ture	Rated Luminous Flux	Rated Lifetime		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...
			(K)	(lm)	(h)						
5W/827	ES	A55	2,700	200	10,000	A	1	IPF / 6	6	5ESSOFT10Y	<b>68179300</b>
11W/827	ES	A55	2,700	580	10,000	A	1	IPF / 6	6	11ESSOFT10Y	<b>68206600</b>
11W/827	BC	A55	2,700	580	10,000	A	2	IPF / 6	6	11BCSOFT10Y	<b>68192200</b>
15W/827	ES	A65	2,700	810	10,000	A	3	IPF / 6	6	15ESSOFT10Y	<b>68264600</b>
18W/827	ES	A70	2,700	1,050	10,000	A	4	IPF / 6	6	18ESSOFT10Y	<b>68278300</b>
18W/827	BC	A70	2,700	1,050	10,000	A	5	IPF / 6	6	18BCSOFT10Y	<b>68273800</b>

03







## PL-R



## PL-S



## PL-C



## PL-T



## PL-L



## PL-Q



04



## MASTER PL-R Eco 4 Pin



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

**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 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%

**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

**Environment**

- Most sustainable compact fluorescent solution for comparable lighting solutions
- Up to 50% reduction of CO<sub>2</sub> 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

## MASTER PL-R Eco GRI4q-I

Wattage/ Colour Code	Colour Rendering Index (Ra)	Dimma- ble	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...	
14W/840	82	yes	19,000	24,000	A	1	ICT / 5X10CC	50	14PLR840ECO	26598270	yes
17W/830	82	yes	19,000	24,000	A	2	ICT / 5X10CC	50	17PLR830ECO	26601970	yes
17W/840	82	yes	19,000	24,000	A	2	ICT / 5X10CC	50	17PLR840ECO	26604070	yes

## MASTER PL-S 2 Pin



## The original!

MASTER PL-S is an efficient low-wattage compact fluorescent lamp, typically used for decorative and orientation purposes. The original Philips-invented bridge technology guarantees optimum performance in the application, enabling more light and higher efficacy than the bended technology. The 2-pin version is designed for operation on electromagnetic gear and is provided with a plug-in/pull-out lamp base

## Product Benefits

- Optimal light performance for short or long operation per switch-on
- Multiple light color choice
- Good color rendering (CRI > 80)

## Product Features

- 2-pin base with a housing incorporating the special instant starter and capacitor
- Fluorescent tri-phosphor technology
- Low light depreciation over lamp life

## 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 <sub>a</sub> )	Luminous Flux EM 25°C, Rated (lm)	Dim- mable	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	259	no	6,500	10,000	B	1	ICT / 5X10CC	50	5PLS8272PINB	26045170	yes
7W/827	82	405	no	6,500	10,000	B	2	ICT / 5X10CC	50	7PLS8272PINB	26057470	yes
7W/840	82	405	no	6,500	10,000	B	2	ICT / 5X10CC	50	7PLS8402PINB	26065970	yes
9W/827	82	583	no	6,500	10,000	A	3	ICT / 5X10CC	50	9PLS8272PINB	26079670	yes
9W/830	82	583	no	6,500	10,000	A	3	ICT / 5X10CC	50	9PLS8302PINB	26084070	yes
9W/840	82	583	no	6,500	10,000	A	3	ICT / 5X10CC	50	9PLS8402PINB	26087170	yes
11W/827	82	893	no	6,500	10,000	A	4	ICT / 5X10CC	50	11PLS8272PINB	26101470	yes
11W/840	82	893	no	6,500	10,000	A	4	ICT / 5X10CC	50	11PLS8402PINB	26109070	yes

04



## MASTER PL-S 4 Pin



## Product Description

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

## Product Benefits

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

## 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

## Environment

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

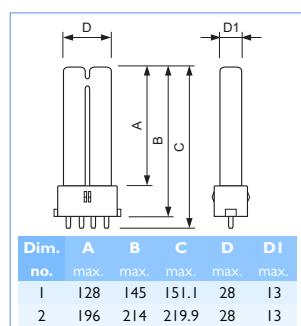
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## 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



## MASTER PL-S /4P 2G7

Wattage/ Colour Code	Colour Rendering Index (R <sub>a</sub> )	Luminous Flux EL 25°C, Rated (lm)	Dim- mable	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...	
9W/840	82	583	yes	8,000	13,000	A	1	1CT / 5X10CC	50	9PLS8404PINB	<b>26096370</b>	yes
11W/827	82	880	yes	8,000	13,000	A	2	1CT / 5X10CC	50	11PLS8274PINB	<b>26114470</b>	yes
11W/840	82	900	yes	8,000	13,000	A	2	1CT / 5X10CC	50	11PLS8404PINB	<b>26122970</b>	yes

04



## MASTER PL-C 2 Pin



## Product Description

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

## Product Benefits

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

## 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

## Environment

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

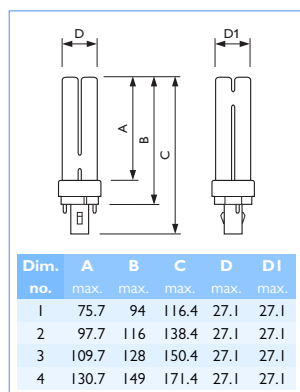
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## 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



## MASTER PL-C /2P

Wattage/ Colour Code	Cap- Base	Colour Rend- ering Index (R <sub>a</sub> )	Luminous Flux EM 25°C, Rated (lm)	Dim- mable	Life to 10% failures EM (h)	Life to 50% failures EM (h)		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
10W/827	G24d-1	83	600	no	6,500	10,000	B	1	ICT / 5X10CC	50	10PLC8272PIN	<b>70681270</b>	yes
10W/830	G24d-1	83	600	no	6,500	10,000	B	1	ICT / 5X10CC	50	10PLC8302PIN	<b>70724670</b>	yes
10W/840	G24d-1	82	600	no	6,500	10,000	B	1	ICT / 5X10CC	50	10PLC8402PIN	<b>70498670</b>	yes
13W/827	G24d-1	83	900	no	6,500	10,000	A	2	ICT / 5X10CC	50	13PLC8272PIN	<b>62081170</b>	yes
13W/830	G24d-1	82	900	no	6,500	10,000	A	2	ICT / 5X10CC	50	13PLC8302PIN	<b>62084270</b>	yes
13W/840	G24d-1	82	900	no	6,500	10,000	A	2	ICT / 5X10CC	50	13PLC8402PIN	<b>62086670</b>	yes
18W/827	G24d-2	82	1,200	no	6,500	10,000	B	3	ICT / 5X10CC	50	18PLC8272PIN	<b>62088070</b>	yes
18W/830	G24d-2	82	1,200	no	6,500	10,000	B	3	ICT / 5X10CC	50	18PLC8302PIN	<b>62091070</b>	yes
18W/840	G24d-2	82	1,200	no	6,500	10,000	B	3	ICT / 5X10CC	50	18PLC8402PIN	<b>62093470</b>	yes
26W/827	G24d-3	83	1,800	no	6,500	10,000	B	4	ICT / 5X10CC	50	26PLC8272PIN	<b>62095870</b>	yes
26W/830	G24d-3	83	1,800	no	6,500	10,000	B	4	ICT / 5X10CC	50	26PLC8302PIN	<b>62098970</b>	yes
26W/840	G24d-3	82	1,800	no	6,500	10,000	B	4	ICT / 5X10CC	50	26PLC8402PIN	<b>62100970</b>	yes



## MASTER PL-C 4 Pin



## Product Description

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

## Product Benefits

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

## Product Features

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

## Environment

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

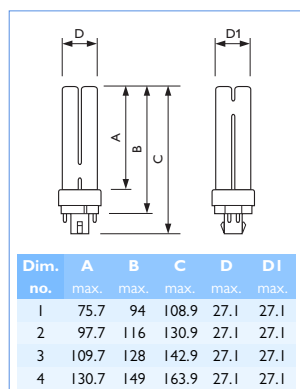
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## Application

- 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



## MASTER PL-C /4P

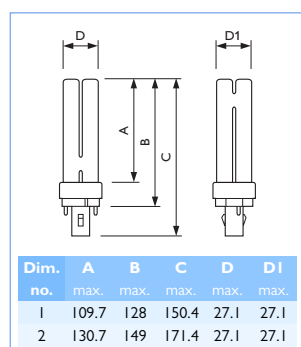
Wattage/ Colour Code	Cap- Base	Colour Rend- ering Index (R <sub>a</sub> )	Luminous Flux EL 25°C, Rated (lm)	Dim- mable	Life to 10% fail Preheat EL,3h (h)	Life to 50% fail Preheat EL,3h (h)		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...	
10W/840	G24q-I	82	600	yes	8,000	13,000	A	1	ICT / 5X10CC	50	10PLC8404PIN	<b>62330070</b>	yes
13W/827	G24q-I	83	925	yes	8,000	13,000	A	2	ICT / 5X10CC	50	13PLC8274PIN	<b>62326370</b>	yes
13W/830	G24q-I	83	900	yes	8,000	13,000	A	2	ICT / 5X10CC	50	13PLC8304PIN	<b>62331770</b>	yes
13W/840	G24q-I	82	900	yes	8,000	13,000	A	2	ICT / 5X10CC	50	13PLC8404PIN	<b>62332470</b>	yes
18W/827	G24q-2	83	1,200	yes	8,000	13,000	A	3	ICT / 5X10CC	50	18PLC8274PIN	<b>62327070</b>	yes
18W/830	G24q-2	83	1,200	yes	8,000	13,000	A	3	ICT / 5X10CC	50	18PLC8304PIN	<b>62333170</b>	yes
18W/840	G24q-2	82	1,200	yes	8,000	13,000	A	3	ICT / 5X10CC	50	18PLC8404PIN	<b>62334870</b>	yes
26W/827	G24q-3	83	1,760	yes	8,000	13,000	A	4	ICT / 5X10CC	50	26PLC8274PIN	<b>62328770</b>	yes
26W/830	G24q-3	83	1,760	yes	8,000	13,000	A	4	ICT / 5X10CC	50	26PLC8304PIN	<b>62335570</b>	yes
26W/835	G24q-3	82	1,800	yes	8,000	13,000	B	4	ICT / 5X10CC	50	26PLC8354PIN	<b>86653070</b>	yes
26W/840	G24q-3	82	1,760	yes	8,000	13,000	A	4	ICT / 5X10CC	50	26PLC8404PIN	<b>62336270</b>	yes

04





## MASTER PL-C Xtra 2 Pin



## Product Description

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

## Product 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 Features

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

## Environment

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

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

## Application

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

## 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

04



## MASTER PL-C Xtra /2P

Wattage/ Colour Code	Cap- Base	Colour Rende- ring Index (R <sub>a</sub> )	Luminous Flux EM 25°C, Rated (lm)	Dim- mable	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	1,200	no	12,000	16,000	B	1	ICT / 5X10CC	50	18PLC8302PXTRA	<b>89895170</b>	yes
18W/840	G24d-2	82	1,200	no	12,000	16,000	B	1	ICT / 5X10CC	50	18PLC8402PXTRA	<b>95030770</b>	yes
26W/840	G24d-3	82	1,800	no	12,000	16,000	B	2	ICT / 5X10CC	50	26PLC8402PXTRA	<b>89886970</b>	yes

## MASTER PL-C Xtra 4 Pin



## Product Description

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

## Product 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 Features

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

## Environment

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

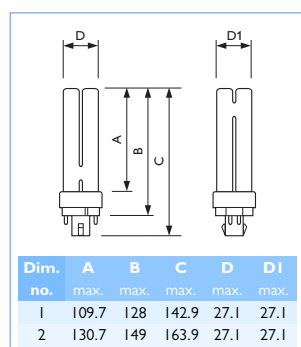
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## Application

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

## 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



## MASTER PL-C Xtra /4P

Wattage/ Colour Code	Cap- Base	Colour Rende- ring Index (Ra)	Luminous Flux EL 25°C, Rated (lm)	Dim- mable	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	1,200	yes	20,000	33,000	A	1	ICT / 5X10CC	50	18PLC8404PXTRA	<b>95036970</b>	yes
26W/830	G24q-3	82	1,800	yes	20,000	33,000	A	2	ICT / 5X10CC	50	26PLC8304PXTRA	<b>89889070</b>	yes
26W/840	G24q-3	82	1,800	yes	20,000	33,000	A	2	ICT / 5X10CC	50	26PLC8404PXTRA	<b>89892070</b>	yes

## MASTER PL-T 2 Pin



## Product Description

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

## Product 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

## 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

## Environment

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

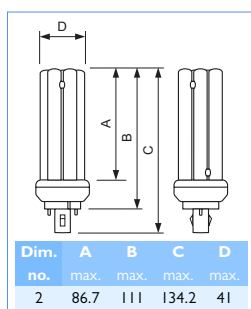
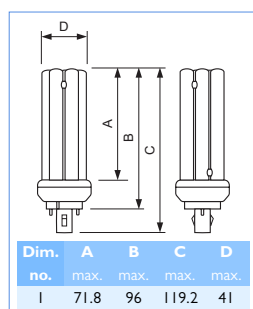
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## 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



## MASTER PL-T /2P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index (R <sub>a</sub> )	Luminous Flux EM 25°C, Rated (lm)	Dim- mable	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	1,200	no	6,500	10,000	B	1	ICT / 5X10CC	50	18PLT8402PINCS	<b>61061470</b>	yes
26W/830	GX24d-3	82	1,725	no	6,500	10,000	B	2	ICT / 5X10CC	50	26PLT8302PINCS	<b>61102470</b>	yes
26W/840	GX24d-3	82	1,725	no	6,500	10,000	B	2	ICT / 5X10CC	50	26PLT8402PINCS	<b>61113070</b>	yes

04



## 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 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

## 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

## Environment

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

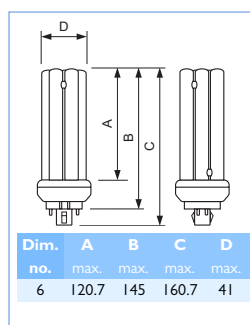
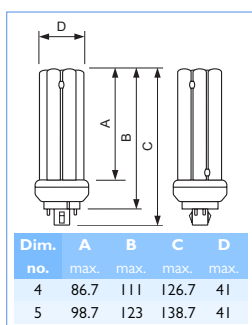
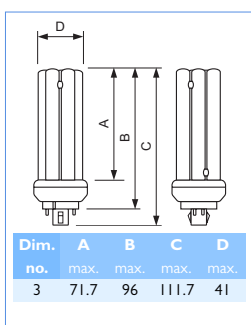
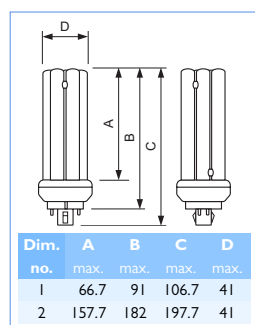
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## 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



## MASTER PL-T /4P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index (Ra)	Luminous Flux EL 25°C, Rated (lm)	Dim- mable	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	850	yes	8,000	13,000	A	1	1CT / 5X10CC	50	13PLT8404PINCS	61047870	yes
18W/830	GX24q-2	82	1,200	yes	8,000	13,000	A	3	1CT / 5X10CC	50	18PLT8304PINCS	61076870	yes
18W/840	GX24q-2	82	1,200	yes	8,000	13,000	A	3	1CT / 5X10CC	50	18PLT8404PINCS	61099770	yes
26W/827	GX24q-3	82	1,725	yes	8,000	13,000	A	4	1CT / 5X10CC	50	26PLT8274PINCS	55993770	yes
26W/830	GX24q-3	83	1,725	yes	8,000	13,000	A	4	1CT / 5X10CC	50	26PLT8304PINCS	61120870	yes
26W/840	GX24q-3	82	1,725	yes	8,000	13,000	A	4	1CT / 5X10CC	50	26PLT8404PINCS	61125370	yes
32W/827	GX24q-3	82	2,400	yes	8,000	13,000	A	5	1CT / 5X10CC	50	32PLT8274PINCS	55996870	yes
32W/830	GX24q-3	82	2,400	yes	8,000	13,000	A	5	1CT / 5X10CC	50	32PLT8304PINCS	61128470	yes
32W/840	GX24q-3	82	2,400	yes	8,000	13,000	A	5	1CT / 5X10CC	50	32PLT8404PINCS	61131470	yes
42W/830	GX24q-4	82	3,050	yes	8,000	13,000	A	6	1CT / 5X10CC	50	42PLT8304PINCS	61134570	yes
42W/840	GX24q-4	82	3,050	yes	8,000	13,000	A	6	1CT / 5X10CC	50	42PLT8404PINCS	61137670	yes
57W/830	GX24q-5	82	4,200	yes	8,000	13,000	A	2	1CT / 5X10CC	50	57PLT8304PINCS	61140670	yes
57W/840	GX24q-5	82	4,200	yes	8,000	13,000	A	2	1CT / 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 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

## 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

## Environment

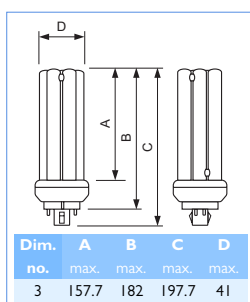
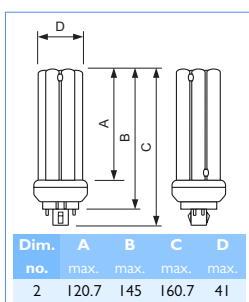
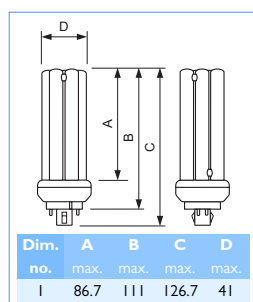
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame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



## MASTER PL-T TOP /4P

Wattage/ Colour Code	Cap-Base	Colour Rende- ring Index (R <sub>a</sub> )	Luminous Flux EL 25°C, Rated (lm)	Dim- mable	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...	
26W/830	GX24q-3	82	1,725	yes	8,000	13,000	A	1	ICT / 5X10CC	50	26PLT8304PINTOP	88944770	yes
26W/840	GX24q-3	82	1,725	yes	8,000	13,000	A	1	ICT / 5X10CC	50	26PLT8404PINTOP	88947870	yes
42W/830	GX24q-4	82	3,050	yes	8,000	13,000	A	2	ICT / 5X10CC	50	42PLT8304PINTOP	61004170	yes
42W/840	GX24q-4	82	3,050	yes	8,000	13,000	A	2	ICT / 5X10CC	50	42PLT8404PINTOP	61008970	yes
57W/830	GX24q-5	82	3,900	yes	8,000	13,000	A	3	ICT / 5X10CC	50	57PLT8304PINTOP	61022570	yes
57W/840	GX24q-5	82	3,900	yes	8,000	13,000	A	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 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

## 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

## Environment

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

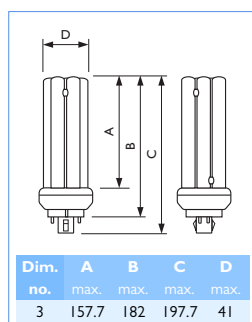
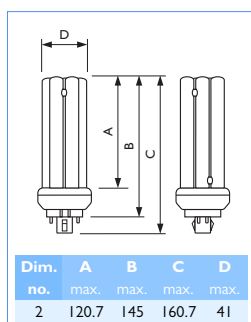
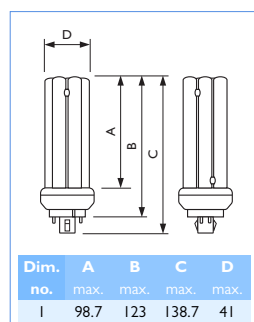
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

## 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



## MASTER PL-T Xtra /4P

Wattage/ Colour Code	Cap-Base	Colour Rendering Index (Ra)	Luminous Flux EL 25°C, Rated (lm)	Dim-mable	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	2,400	yes	20,000	33,000	A 1	ICT / 5X10CC 50	32PLT8304PXTRA	<b>89740470</b>	yes
32W/840	GX24q-3	82	2,400	yes	20,000	33,000	A 1	ICT / 5X10CC 50	32PLT8404PXTRA	<b>89743570</b>	yes
42W/830	GX24q-4	82	3,050	yes	20,000	33,000	A 2	ICT / 5X10CC 50	42PLT8304PXTRA	<b>89746670</b>	yes
42W/840	GX24q-4	82	3,050	yes	20,000	33,000	A 2	ICT / 5X10CC 50	42PLT8404PXTRA	<b>89749770</b>	yes
57W/840	GX24q-5	82	4,200	yes	20,000	33,000	A 3	ICT / 5X10CC 50	57PLT8404PXTRA	<b>89755870</b>	yes



## MASTER PL-L 4 Pin



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

## Product Description

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

## Product Benefits

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

## 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

## Environment

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

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

## Application

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

## 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

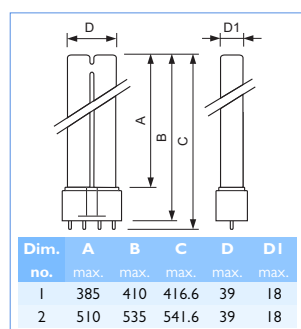
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## MASTER PL-L /4P 2GI I

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

## MASTER PL-L Polar 4 Pin



## Product Description

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

## Product 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 Features

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

## 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

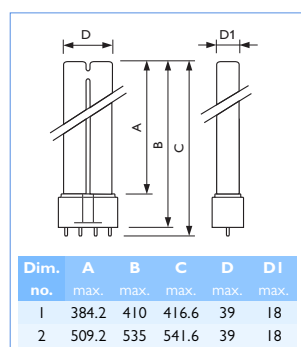
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## MASTER PL-L Polar /4P 2G11

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

## MASTER PL-L Xtra 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 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 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
- 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

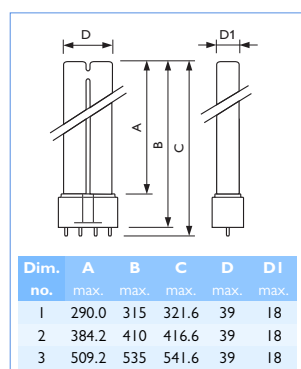
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## MASTER PL-L Xtra /4P 2G11

Wattage/ Colour Code	Colour Rendering Index	Luminous Flux EL 25°C, Rated	Dimma- ble	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
	(Ra)	(lm)		(h)	(h)							
36W/830	82	2,900	yes	25,000	36,000	A	1	ICT / 25	25	36PLL830XTRA	<b>89758940</b>	yes
36W/840	82	2,900	yes	25,000	36,000	A	1	ICT / 25	25	36PLL840XTRA	<b>89760240</b>	yes
55W/830	82	4,800	yes	25,000	36,000	A	2	ICT / 25	25	55PLL830XTRA	<b>89762640</b>	yes
55W/840	82	4,800	yes	25,000	36,000	A	2	ICT / 25	25	55PLL840XTRA	<b>89764040</b>	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 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%

**Product Features**

- 4-pin base

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

**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

## MASTER PL-L Xtra Polar /4P 2G11

Wattage/ Colour Code	Colour Rendering Index	Luminous Flux EL 25°C, Rated	Dim- mable	Life to 10% fail Preheat EL,3h	Life to 50% fail Preheat EL,3h		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
	(R <sub>s</sub> )	(lm)		(h)	(h)							
24W/830	82	1,800	yes	25,000	36,000	A	1	ICT / 25	25	24PLL830XTRAPOL	<b>26772640</b>	yes
36W/830	82	2,900	yes	25,000	36,000	A	2	ICT / 25	25	36PLL830XTRAPOL	<b>26776440</b>	yes
55W/830	82	4,800	yes	25,000	36,000	A	3	ICT / 25	25	55PLL830XTRAPOL	<b>26784940</b>	yes

## PL-Q 2 Pin



## Product Description

- Compact fluorescent lamps with a quadrant-like shape

## 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

## Product Features

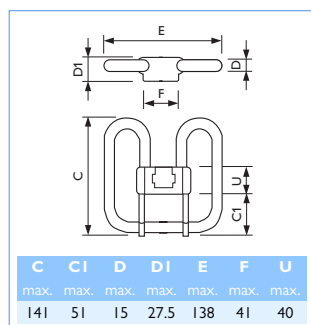
- Retrofit in already installed 2D luminaires
- Assembled with the same high-quality components as all other Philips CFL-NI lamps

## 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



## PL-Q /2P GR8

Wattage/ Colour Code	Colour Rendering Index	Luminous Flux EM 25°C, Rated	Dimma- ble	Life to 10% failures EM	Life to 50% failures EM	 Packing type/Packing configu- ration		National Order Code	Ordering number 8711500...		
	(Ra)	(lm)		(h)	(h)						
16W/827	82	1,050	no	6,000	10,000	B	ICT / 10	10	16PLQ8272PIN	<b>26965225</b>	yes
16W/830	82	1,050	no	6,000	10,000	B	ICT / 10	10	16PLQ8302PIN	<b>26987425</b>	yes
16W/835	82	1,050	no	6,000	10,000	B	ICT / 10	10	16PLQ8352PIN	<b>26966925</b>	yes

04



## PL-Q 4 Pin



## Product Description

- Compact fluorescent lamps with a quadrant-like shape

## 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

## Product Features

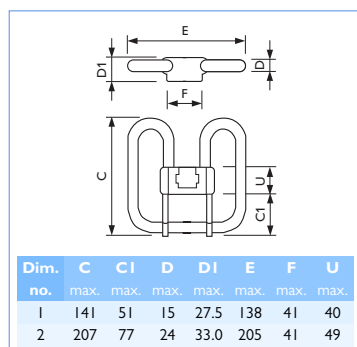
- Retrofit in already installed 2D luminaires
- Assembled with the same high-quality components as all other Philips CFL-NI lamps
- Dimming is possible

## 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



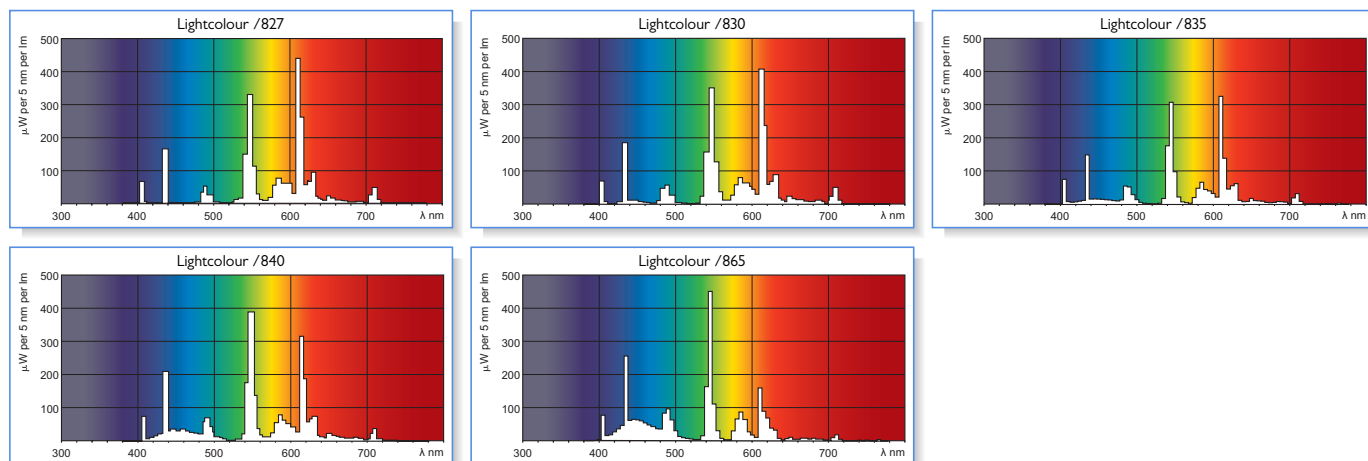
## PL-Q /4P GR10q

Wattage/ Colour Code	Colour Rendering Index (R <sub>a</sub> )	Dimma- ble	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	yes	8,000	13,000	A	1	ICT / 10	10	16PLQ8354PIN	<b>272065</b> 25	yes
28W/827	82	yes	8,000	13,000	A	2	ICT / 10	10	28PLQ8274PIN	<b>269911</b> 25	yes
28W/830	82	yes	8,000	13,000	A	2	ICT / 10	10	28PLQ8304PIN	<b>269928</b> 25	yes
28W/835	82	yes	8,000	13,000	A	2	ICT / 10	10	28PLQ8354PIN	<b>269676</b> 25	yes
28W/840	82	yes	8,000	13,000	A	2	ICT / 10	10	28PLQ8404PIN	<b>269935</b> 25	yes
38W/830	82	yes	8,000	12,000	A	2	ICT / 10	10	38PLQ8304PIN	<b>271723</b> 25	yes
38W/835	82	yes	8,000	13,000	A	2	ICT / 10	10	38PLQ8354PIN	<b>271730</b> 25	yes
38W/840	82	yes	8,000	13,000	A	2	ICT / 10	10	38PLQ8404PIN	<b>271747</b> 25	yes

04



## Spectral power distribution























04







## MASTERCLOUR CDM

				
MASTERCLOUR CDM-T Evolution 77	MASTERCLOUR CDM-T Elite 78	MASTERCLOUR CDM-T 79	MASTERCLOUR CDM-TC Evolution 80	MASTERCLOUR CDM-TC Elite 81
				
MASTERCLOUR CDM-TC 81	MASTERCLOUR CDM-T Fresh 82	MASTERCLOUR CDM-TC Fresh 83	MASTERCLOUR CDM-T Warm 83	MASTERCLOUR CDM-TC Warm 84
				
MASTERCLOUR CDM-Tm Evolution Mini 85	MASTERCLOUR CDM-Tm Mini GU6.5 85	MASTERCLOUR CDM-Tm Elite Mini 86	MASTERCLOUR CDM-Tm Mini 87	MASTERCLOUR CDM-TP 88
				
MASTERCLOUR CDM-TD 89	MASTERCLOUR CDM-Rm Elite Mini 89	MASTERCLOUR CDM-R Elite 90	MASTERCLOUR CDM-Rm Mini 91	MASTERCLOUR CDM-R 91

## MASTER SDW White SON

			
MASTERCLOUR CDM-R111 Elite 92	MASTERCLOUR CDM-R111 93	MASTER SDW-TG Mini 94	MASTER SDW-T 95

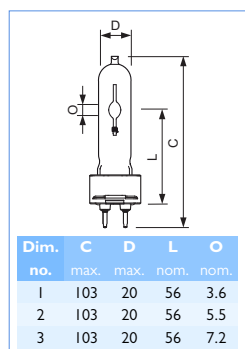
## MHN Low Wattage Metal Halide


MHN-TD 96

05



## MASTERColour CDM-T 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 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

**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

**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)
- CDM Evolution lamps are designed to comply with IEC standards
- The vast majority of drivers are fully compatible with CDM Evolution lamps. However, we are also aware that the use of CDM Evolution lamps in combination with certain type of drivers may cause undesired performance issues and for that reason we advise you to always perform a driver compatibility check to ensure proper operation.

## MASTERColour CDM-T Evolution G12

Wattage/ Colour Code	Colour Temperature (K)	Lamp Luminous Flux EL (lm)	Burning Position		Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
20W/930	3,000	2,050	any	A+	1	ICT / 12 12	20CDMTEVO930	<b>65912900</b>	yes
35W/930	3,000	4,300	any	A+	2	ICT / 12 12	35CDMTEVO930	<b>65121500</b>	yes
50W/930	3,000	5,700	vbu/vbd60	A+	3	ICT / 12 12	50CDMTEVO930	<b>70122400</b>	yes



## MASTERColour CDM-T Elite



## Product Description

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

## 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 merchandise'
- 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

## 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-T 35 W: vertical +/- 60 degrees
  - CDM Elite-T 70 W: universal

## Environment

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

## Application

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

## 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. 35 W & 70 W lamps may also use electromagnetic gear.
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)

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

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

## MASTERColour CDM-T Elite G12

Wattage/ Colour Code	Colour Tem- perature (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 configu- ration		National Order Code	Ordering number	
35W/930	3,000	4,000	10,000	15,000	any	A+	1	ICT / 12	12	35CDMTELITE930	872790091137400	yes
35W/942	4,200	3,800	10,000	15,000	any	A+	1	ICT / 12	12	35CDMTELITE942	871829116364000	yes
50W/930	3,000	5,400	10,000	15,000	any	A+	2	ICT / 12	12	50CDMTELITE930	872790093060300	yes
50W/942	4,200	5,000	10,000	15,000	any	A+	2	ICT / 12	12	50CDMTELITE942	871829120159500	yes
70W/930	3,000	7,800	10,000	15,000	any	A+	3	ICT / 12	12	70CDMTELITE930	872790091141100	yes
70W/942	4,200	7,500	10,000	15,000	any	A+	3	ICT / 12	12	70CDMTELITE942	871829116362600	yes
100W/930	3,000	11,000	10,000	15,000	any	A+	4	ICT / 12	12	100CDMTELITE930	872790087169200	yes
100W/942	4,200	10,500	10,000	15,000	any	A+	4	ICT / 12	12	100CDMTELITE942	871829123178300	yes
150W/930	3,000	15,000	10,000	12,000	p10	A+	5	ICT / 12	12	150CDMTELITE930	871150021312915	yes

## MASTERColour 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 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

## Product Features

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

## 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.	C max.	D max.	L nom.	O nom.
1	103	20	56	4

Dim. no.	C max.	D max.	L nom.	O nom.
2	103	20	56	5
3	103	20	56	7
4	103	20	56	6
5	110	20	56	9
6	110	20	56	8

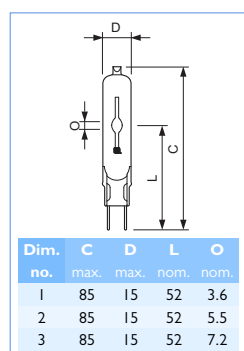
Dim. no.	C max.	D max.	L nom.	O nom.
7	135	25	72.5	12.3

## MASTERColour CDM-T G12

Wattage/ Colour Code	Colour Tem- perature  (K)	Lamp Luminous Flux EL  (lm)	Lamp Lumi- nous Flux EM (lm)	Life to 10% failures EL  (h)	Life to 50% failures EL  (h)	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number	
20W/830	3,000	1,800		10,000	15,000	any	A+	1	ICT / 12	12	20CDMT830+	872790087156200	yes
35W/830	3,000	3,150	3,000	9,000	12,000	any	A+	2	ICT / 12	12	35CDMT830	871150019697215	yes
35W/842	4,200	3,100		9,000	12,000	any	A+	2	ICT / 12	12	35CDMT942	871150021126215	yes
70W/830	3,000	6,500	6,400	10,000	12,000	any	A+	3	ICT / 12	12	70CDMT830	871150019699615	yes
70W/942	4,200	6,300	6,300	10,000	12,000	any	A+	4	ICT / 12	12	70CDMT942	871150019927015	yes
150W/830	3,000	13,600	13,200	10,000	12,000	any	A+	5	ICT / 12	12	150CDMT830	871150019780115	yes
150W/942	4,200	12,700	12,000	10,000	12,000	any	A+	6	ICT / 12	12	150CDMT942	871150020005115	yes
250W/830	3,000		27,540	4,500	8,000	any	A+	7	ICT / 12	12	250CDMT830	871150020801915	yes
250W/942	4,200		26,000	4,500	8,000	any	A+	7	ICT / 12	12	250CDMT942	871150021112515	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 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

**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

**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)
- CDM Evolution lamps are designed to comply with IEC standards
- The vast majority of drivers are fully compatible with CDM Evolution lamps. However, we are also aware that the use of CDM Evolution lamps in combination with certain type of drivers may cause undesired performance issues and for that reason we advise you to always perform a driver compatibility check to ensure proper operation.

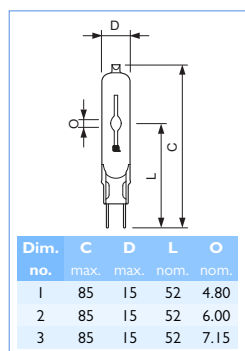
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## MASTERColour CDM-TC Evolution G8.5

Wattage/ Colour Code	Colour Tem- perature (K)	Lamp Luminous Flux EL (lm)	Burning Position		Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...	
20W/930	3,000	2,050	any	A+	1	ICT / 12 12	20CDMTCEVO930	<b>65920400</b>	yes
35W/930	3,000	4,300	any	A+	2	ICT / 12 12	35CDMTCEVO930	<b>65125300</b>	yes
50W/930	3,000	5,700	vbu/vbd60	A+	3	ICT / 12 12	50CDMTCEVO930	<b>70126200</b>	yes

## MASTERColour CDM-TC Elite



## Product Description

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

## 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 merchandise'
- 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

## 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

## 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)

## MASTERColour CDM-TC Elite G8.5

Wattage/ Colour Code	Colour Tem- perature  (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 configu- ration		National Order Code	Ordering number	
35W/930	3,000	4,000	10,000	15,000	any	A+	1	ICT / 12	12	35CDMTCElite930	872790091149700	yes
35W/942	4,200	3,700	10,000	15,000	any	A+	1	ICT / 12	12	35CDMTCElite942	871829116366400	yes
50W/930	3,000	5,400	10,000	15,000	any	A+	2	ICT / 12	12	50CDMTCElite930	872790093062700	yes
50W/942	4,200	5,000	10,000	15,000	any	A+	2	ICT / 12	12	50CDMTCElite942	871829120163200	yes
70W/930	3,000	7,700	10,000	15,000	any	A+	3	ICT / 12	12	70CDMTCElite930	872790091153400	yes
70W/942	4,200	7,400	10,000	15,000	any	A+	3	ICT / 12	12	70CDMTCElite942	871829116368800	yes

## MASTERColour CDM-TC



## Product Description

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

## 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)

## Product Features

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

## 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	D	L	O
	max.	max.	nom.	nom.
1	85	15	52	4

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

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

Dim. no.	C	D	L	O
	max.	max.	nom.	nom.
4	85	15	52	5

## MASTERColour CDM-TC G8.5

Wattage/ Colour Code	Colour Tem- perature	Lamp Luminous Flux EL	Lamp Lumi- nous Flux EM	Life to 10% failures EL	Life to 50% failures EL	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number	
	(K)	(lm)	(lm)	(h)	(h)								
20W/830	2,980	1,800		10,000	15,000	any	A+	1	ICT / 12	12	20CDMTC830+	872790087158600	yes
35W/830	3,000	3,100	3,000	8,000	12,000	any	A+	2	ICT / 12	12	35CDMTC830	871150020000615	yes
35W/842	4,200	3,100		8,000	12,000	any	A+	2	ICT / 12	12	35CDMTC942	871150020957315	yes
70W/830	3,000	6,400		8,000	12,000	any	A+	3	ICT / 12	12	70CDMTC830	871150020167615	yes
70W/842	4,200	5,800		8,000	12,000	any	A+	4	ICT / 12	12	70CDMTC942	871150021275715	yes

## MASTERColour CDM-T Fresh

**Incredible colours, unbeatable efficiency**

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

**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!

**Product Feature**

- 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

**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)

Technical drawing of the CDM-T Fresh lamp. The drawing shows a side view of the lamp with a base and a glass envelope. Dimension lines indicate the following measurements:

- D**: Diameter of the glass envelope.
- C**: Total height of the lamp.
- L**: Height of the glass envelope from the base.
- O**: Diameter of the base.

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

## MASTERColour CDM-T Fresh G12

Wattage/ Colour Code	Colour Temper- ature	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position		Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...	
	(K)	(lm)	(h)	(h)							
70W/740	4.000	6.000	10.000	15.000	any	A+	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 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!

**Product Features**

- Excellent colour enhancement (red, green, orange, blue)

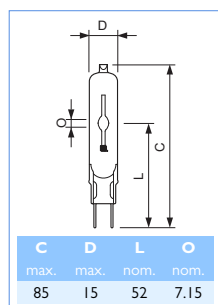
- Highest efficacy in fresh food lighting
- Long life with stable colour
- Standard CDM shapes and sizes
- Can be operated on standard CDM gear

**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)



## MASTERColour CDM-TC Fresh 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 configu- ration		National Order Code	Ordering number 8718291...	
	(K)	(lm)	(h)	(h)							
70W/740	4.000	6.000	10.000	15.000	any	A+	ICT / 12	12	70CDMTCFRESH	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 Benefits**

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

**Product Features**

- Warm colour temperature (2,500 K)
- High lamp efficacy
- Excellent lumen maintenance (80% at 15,000 hours)

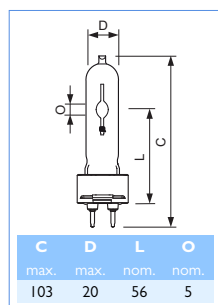
- Excellent colour rendering (CRI > 90)
- Long life (15,000 hours)

**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)



## MASTERColour CDM-T Warm G12

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position		Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...	
	(K)	(lm)	(h)	(h)							
70W/925	2,500	6,500	8,000	15,000	any	A+	ICT / 12	12	CDMTW70W925G12	<b>20305600</b>	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 Benefits**

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

**Product Features**

- Warm colour temperature (2,500 K)
- High lamp efficacy
- Excellent lumen maintenance (80% at 15,000 hours)

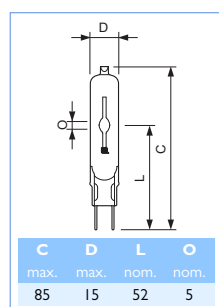
- Excellent colour rendering (CRI > 90)
- Long life (15,000 hours)

**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)



## MASTERColour CDM-TC Warm G8.5

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position		Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...	
	(K)	(lm)	(h)	(h)							
70W/925	2,600	6,500	8,000	15,000	any	A+	ICT / 12	12	CDMTCW70925G8.5	<b>20307000</b>	yes

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## MASTERColour CDM-Tm Evolution Mini



Technical drawing of a vertical lamp. The drawing shows a side view of the lamp with a bulb. Dimensions are indicated by arrows and labels: 'D' for the diameter of the lamp body, 'C' for the total height, 'L' for the height from the base to the bottom of the bulb, and 'O' for the diameter of the bulb. The lamp has a base with two mounting points.

C	D	L	O
max.	max.	nom.	nom.
56.7	13.3	30	3.6

**Ultimate sparkle, unbeatable value**

Highest-efficiency, longest-life CDM-Tm Mini lamp producing crisp white sparkling light with high color rendering

**Product Benefits**

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

**Product Features**

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

**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)
- CDM Evolution lamps are designed to comply with IEC standards
- The vast majority of drivers are fully compatible with CDM Evolution lamps. However, we are also aware that the use of CDM Evolution lamps in combination with certain type of drivers may cause undesired performance issues and for that reason we advise you to always perform a driver compatibility check to ensure proper operation.

## MASTERColour CDM-Tm Evolution GU6.5

Wattage/ Colour Code	Colour Temperature	Lamp Luminous Flux EL	Life to 10% failures	Life to 50% failures	Burning Position	 Packing type/Packing configuration		National Order Code	Ordering number 8718291...
	(K)	(lm)	(h)	(h)					
20W/930	3.000	2.050	16.000	20.000	any	A+	ICT / 12 12	20CDMTMEVO930	72863400

## MASTERColour CDM-Tm Mini GU6.5



Technical drawing of a lamp with dimensions labeled: C (total height), D (width), L (height of the main body), and O (height of the base).

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

**Beautiful sparkle, mini design**

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

**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

**Product Features**

- Crisp, white sparkling light
- Good colour rendering for the 20 W lamp, excellent colour rendering for the 35 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

**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)



## MASTERColour CDM-Tm Mini GU6.5

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Life to 10% failures	Life to 50% failures	Burning Position		Packing type/ Packing configu- ration		National Order Code	Ordering number 8727900...	
	(K)	(lm)	(h)	(h)							
20W/830	3,000	1,800	10,000	15,000	any	A+	ICT / 12	12	20CDMTM830GU6.5	<b>89083900</b>	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 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

**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

**Environment**

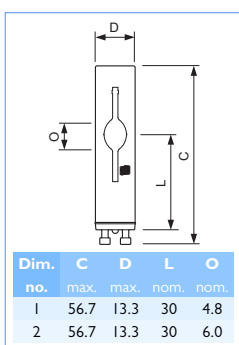
- This product is RoHS-compliant
- This product is covered by WEEE

**Application**

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

**Warnings and Safety**

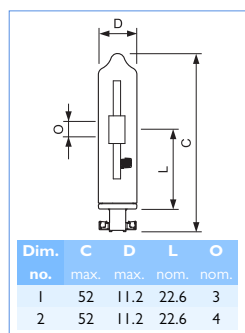
- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- For 50 W use with Philips electronic gear only
- Control gear must include end-of-life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



## MASTERColour CDM-Tm Elite Mini GU6.5

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8718291...	
	(K)	(lm)	(h)	(h)								
35W/930	3,000	3,900	10,000	15,000	any	A+	1	ICT / 12	12	CDMTM35930GU651	<b>15382500</b>	yes
50W/930	3,000	5,200	10,000	15,000	any	A+	2	ICT / 12	12	50CDMTMELITE930	<b>15386300</b>	yes

## MASTERColour CDM-Tm Mini

**Product Description**

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

**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

**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

**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

## MASTERColour CDM-Tm Mini PGJ5

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
	(K)	(lm)	(h)	(h)								
20W/830	3,000	1,650	10,000	12,000	any	A+	1	ICT / 12	12	20CDMTM830	<b>207517</b> / 5	yes
35W/930	3,000	3,000	10,000	12,000	any	A+	2	ICT / 12	12	35CDMTM930	<b>211491</b> / 5	yes

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## 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 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

## 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

## 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 Tempera- ture	Lamp Lumi- nous Flux EM	Life to 5% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 871 1500...	
		(K)	(lm)	(h)	(h)								
70W/830	PG12-2	3,000	6,000	9,000	16,000	any	A+	1	ICT / 12	12	70CDMTP830	<b>201270</b> /15	yes
70W/842	PG12-2	4,200	5,600	9,000	16,000	any	A+	2	ICT / 12	12	70CDMTP942	<b>201133</b> /15	yes
150W/830	PGX12-2	3,000	12,800	9,000	16,000	any	A+	3	ICT / 12	12	150CDMTP830	<b>201256</b> /15	yes
150W/942	PGX12-2	4,200	12,000	9,000	16,000	any	A+	4	ICT / 12	12	150CDMTP942	<b>201119</b> /15	yes

05





## MASTERColour CDM-TD



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

**Beautiful sparkle, reliable life**

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

**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) lamps
- 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

**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  $\pm 45^\circ$

**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)

## MASTERColour CDM-TD RX7s

Wattage/ Colour Code	Colour Tempera- ture	Lamp Lumi- nous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
	(K)	(lm)	(h)	(h)								
70W/830	3,000	6,000	13,000	16,000	p45	A+	1	ICT / 12	12	70CDMTD830	197825/5	yes
70W/942	4,200	5,600	13,000	16,000	p45	A+	2	ICT / 12	12	70CDMTD942	200020/5	yes
150W/830	3,000	13,250	13,000	16,000	p45	A+	3	ICT / 12	12	150CDMTD830	197849/5	yes
150W/942	4,200	13,750	13,000	16,000	p45	A+	3	ICT / 12	12	150CDMTD942	200259/5	yes

## MASTERColour CDM-Rm Elite Mini



A	C	CI	D
max.	nom.	max.	nom.
59	62.75	60.9	50

**Perfect sparkle, easy application**

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

**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

**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

**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)

## MASTERColour CDM-Rm Elite Mini GX10

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

## 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

## 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 max.	D max.
1	95	65

Dim. no.	C max.	D max.
2	123	97

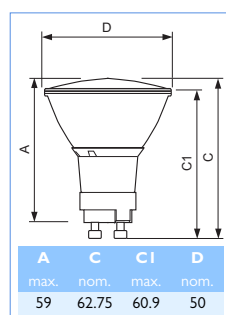
Dim. no.	C nom.	D nom.
3	120	95

## MASTERColour CDM-R Elite ES

Wattage/Colour Code														Beam Description		Colour Temperature	Luminous Intensity	Life to 10% failures	Life to 10% failures EL	Life to 50% failures	Life to 50% failures EL		Dim. no.		National Order Code	Ordering number	
														(°)	(K)	(cd)	(h)	(h)	(h)	(h)							
35W/930	10	Spot	3,000	23,000			10,000		15,000	A	1	12	35CDM930PAR2010	8718291	<b>65155000</b>	yes											
35W/930	10	Spot	3,000	56,000			10,000		15,000	A	2	6	35CDM930PAR3010	8718291	<b>24192800</b>	yes											
35W/930	30	Flood	3,000	7,800	7,000			12,000			3	6	35CDMR930P3030	8727900	<b>86544800</b>	yes											
35W/930	30	Flood	3,000	8,200			10,000		15,000	A	2	6	35CDM930PAR3030	8718291	<b>24194200</b>	yes											
35W/930	30	Flood	3,000	6,500			10,000		15,000	A	1	12	35CDM930PAR2030	8718291	<b>65157400</b>	yes											
50W/930	10	Spot	3,000	60,700			10,000		15,000	A	2	6	50CDM930PAR3010	8718291	<b>24196600</b>	yes											
50W/930	30	Flood	3,000	11,000			10,000		15,000	A	2	6	50CDM930PAR3030	8718291	<b>24198000</b>	yes											
50W/930	40	Flood	3,000	7,200			10,000		15,000	A	2	6	50CDM930PAR3040	8718291	<b>24200000</b>	yes											
70W/930	10	Spot	3,000	70,000	7,000			11,000			3	6	70CDMR930P3010	8727900	<b>86530100</b>	yes											
70W/930	10	Spot	3,000	74,500			10,000		15,000	A	2	6	70CDM930PAR3010	8718291	<b>24186700</b>	yes											
70W/930	30	Flood	3,000	15,000			10,000		15,000	A	2	6	70CDM930PAR3030	8718291	<b>24188100</b>	yes											
70W/930	40	Flood	3,000	10,000	7,000			11,000			3	6	70CDMR930P3040	8727900	<b>86534900</b>	yes											
70W/930	40	Flood	3,000	10,300			10,000		15,000	A	2	6	70CDM930PAR3040	8718291	<b>24190400</b>	yes											



## MASTERColour 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 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

## Product Features

- Miniaturized 50 mm CDM reflector lamp
- High beam intensity
- Long lamp lifetime compared to halogen lamps
- Twist and lock system

## 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

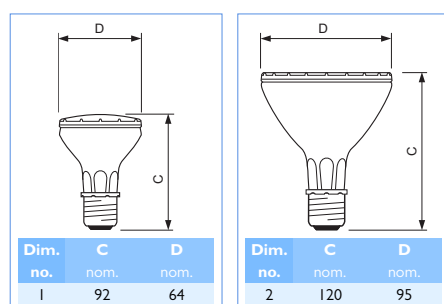
## Warnings and Safety

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

## MASTERColour CDM-Rm Mini GX10

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

## MASTERColour CDM-R



## Product Description

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

## 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

## 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

## 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

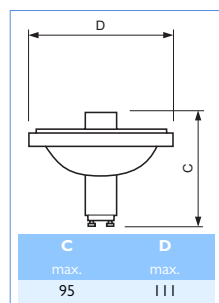
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Use only with electronic control gear. Colour 830 lamps may also use electromagnetic gear.



## MASTERColour CDM-R ES

Wattage/ Colour Code	Bulb		Beam Description	Colour Temper- ature	Luminous Intensity	Life to 5% failures EL	Life to 50% failures EL		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	A	1	ICT / 12	12	35CDMR830SP20	<b>198082</b> 15	yes
35W/942	PAR20	10	Spot	4,200	21,500	5,000	9,000	A	1	ICT / 12	12	35CDMR942P2010D	<b>207852</b> 15	yes
35W/830	PAR20	30	Flood	3,000	5,300	5,000	9,000	A	1	ICT / 12	12	35CDMR830FLP20	<b>198105</b> 15	yes
35W/942	PAR20	30	Flood	4,200	5,000	5,000	9,000	A	1	ICT / 12	12	35CDMR942P2030D	<b>207876</b> 15	yes
35W/830	PAR30L	10	Spot	3,000	44,000	5,000	11,000	A	2	ICT / 6	6	35CDMR830SP	<b>197016</b> 10	yes
70W/830	PAR30L	10	Spot	3,000	68,000	5,500	12,000	A	2	ICT / 6	6	70CDMR830SP30	<b>197054</b> 10	yes
70W/942	PAR30L	10	Spot	4,200	60,000	5,000	12,000	A	2	ICT / 6	6	70CDMR942P3010	<b>207258</b> 10	yes
35W/830	PAR30L	30	Flood	3,000	7,400	5,000	11,000	A	2	ICT / 6	6	35CDMR830FL	<b>197030</b> 10	yes
70W/942	PAR30L	30	Flood	4,200	13,000	5,000	12,000	A	2	ICT / 6	6	70CDMR942P3030	<b>207296</b> 10	yes
70W/830	PAR30L	40	Flood	3,000	9,500	5,500	12,000	A	2	ICT / 6	6	70CDMR830FLP30	<b>197078</b> 10	yes
70W/942	PAR30L	40	Flood	4,200	9,000	5,000	12,000	A	2	ICT / 6	6	70CDMR942P3040	<b>207272</b> 10	yes

## MASTERColour CDM-RIII Elite



## Perfect sparkle, trendy design

MASTERColour CDM-RIII Elite combines the trendy look of 111 mm aluminium-reflector halogen lamps with the long life, high energy efficiency and crisp white light of MASTERColour CDM.

## Product Benefits

- Crisp white sparkling light
- Easy installation
- Less glare, comfort for shoppers and staff

## Product Features

- High lamp efficacy
- Long lamp lifetime compared to incandescent and halogen lamps
- The ceramic discharge tube is optimally positioned and stable in the reflector
- UV-block burner capsule
- Anti-glare cap design

## Application

- Accent and decorative lighting: display lighting with sparkling, theatrical effects, even in surroundings with very high background ambient light levels, such as shops windows
- General lighting: in downlighters, a warm and 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/930 lamps may also use electromagnetic gear.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

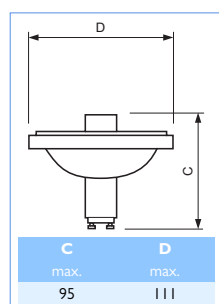
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## MASTERColour CDM-RIII Elite GX8.5

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 8718291...
	(°)		(K)	(cd)	(h)	(h)						
35W/930	10	Spot	3,000	36,000	9,500	12,000	any	B	ICT / 6	6	35CDMER11193010	<b>68918800</b>
35W/930	24	Narrow Flood	3,000	8,500	9,500	12,000	any	A	ICT / 6	6	35CDMER11193024	<b>68944700</b>
35W/930	40	Flood	3,000	4,500	9,500	12,000	any	A	ICT / 6	6	35CDMER11193040	<b>68952200</b>
50W/930	10	Spot	3,000	46,500	9,500	12,000	any	B	ICT / 6	6	50CDMER11193010	<b>14561500</b>
50W/930	24	Narrow Flood	3,000	11,000	9,500	12,000	any	A	ICT / 6	6	50CDMER11193024	<b>14565300</b>
50W/930	40	Flood	3,000	6,000	9,500	12,000	any	A	ICT / 6	6	50CDMER11193040	<b>14569100</b>
70W/930	10	Spot	3,000	61,000	9,500	12,000	any	B	ICT / 6	6	70CDMER11193010	<b>68962100</b>
70W/930	24	Narrow Flood	3,000	16,000	9,500	12,000	any	A	ICT / 6	6	70CDMER11193024	<b>68970600</b>
70W/930	40	Flood	3,000	8,500	9,500	12,000	any	A	ICT / 6	6	70CDMER11193040	<b>68978200</b>

## 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 Benefits**

- Low operating costs
- Easy installation
- Relatively low heat output
- Less glare, comfort for shoppers and staff
- Reduced fading risks

**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

**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.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a sealed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.

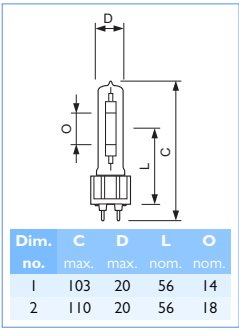
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## MASTERColour CDM-R III GX8.5

Wattage/ Colour Code	Beam Description (°)	Colour Tem- perature (K)	Luminous Intensity (cd)	Life to 10% failures EL (h)	Life to 50% failures EL (h)	Burning Position	Packing type/ Packing configu- ration	National Order Code	Ordering number 8711500...	
20W/830	10 Spot	3,000	23,000	7,000	9,000	any	B ICT / 6 6	20CDMR11183010	<b>209474</b> 10	yes
20W/830	24 Narrow Flood	3,000	5,500	7,000	9,000	any	B ICT / 6 6	20CDMR11183024	<b>209511</b> 10	yes
35W/830	10 Spot	3,000	28,000	7,000	12,000	any	B ICT / 6 6	35CDMR11183010	<b>204486</b> 10	yes
35W/830	24 Narrow Flood	3,000	8,000	7,000	12,000	any	B ICT / 6 6	35CDMR11183024	<b>204509</b> 10	yes
35W/830	40 Flood	3,000	4,000	7,000	12,000	any	B ICT / 6 6	35CDMR11183040	<b>204523</b> 10	yes
35W/942	10 Spot	4,200	28,000	6,500	9,000	any	B ICT / 6 6	35CDMR11194210	<b>213853</b> 10	yes
35W/942	24 Narrow Flood	4,200	8,000	6,500	9,000	any	B ICT / 6 6	35CDMR11194224	<b>213877</b> 10	yes
35W/942	40 Flood	4,200	4,000	6,500	9,000	any	B ICT / 6 6	35CDMR11194240	<b>213891</b> 10	yes
70W/830	10 Spot	3,000	50,000	5,000	12,000	any	B ICT / 6 6	70CDMR11183010	<b>207197</b> 10	yes
70W/830	24 Narrow Flood	3,000	15,000	5,000	12,000	any	B ICT / 6 6	70CDMR11183024	<b>207210</b> 10	yes
70W/830	40 Flood	3,000	8,000	5,000	12,000	any	B ICT / 6 6	70CDMR11183040	<b>207234</b> 10	yes
70W/942	24 Narrow Flood	4,200	15,000	8,500	11,000	any	B ICT / 6 6	70CDMR11194224	<b>213938</b> 10	yes
70W/942	40 Flood	4,200	8,000	8,500	11,000	any	B ICT / 6 6	70CDMR11194240	<b>213952</b> 10	yes

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 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

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

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

MASTER SDW-TG Mini GX12-I

Wattage/ Colour Code	Colour Tempera- ture	Lamp Luminous Flux EL	Life to 5% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 871 1500...	
	(K)	(lm)	(h)	(h)								
50W/825	2,500	2,400	7,000	10,000	any	B	1	ICT / 12	12	50SDWTG	203236 / 5	yes
100W/825	2,500	4,900	5,000	10,000	any	B	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 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

## 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

## 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 PG12-I

Wattage/ Colour Code	Colour Tempera- ture	Lamp Lumi- nous Flux EM	Life to 5% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 871 1500...	
	(K)	(lm)	(h)	(h)								
35W/825	2,500	1,300	8,000	15,000	any	B	1	ISL / 12	12	35SDWT	<b>734020</b> / 5	yes
50W/825	2,500	2,300	8,000	15,000	any	B	2	ISL / 12	12	not UK product	<b>734037</b> 76	
50W/825	2,500	2,300	8,000	15,000	any	B	2	ISL / 12	12	50SDWT	<b>734037</b> / 5	yes
100W/825	2,500	5,000	5,000	15,000	any	B	3	ISL / 12	12	not UK product	<b>734044</b> 76	
100W/825	2,500	5,000	5,000	15,000	any	B	3	ISL / 12	12	100SDWT	<b>734044</b> / 5	yes





## MHN-TD



## Product Description

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

## Product Benefits

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

## Product Features

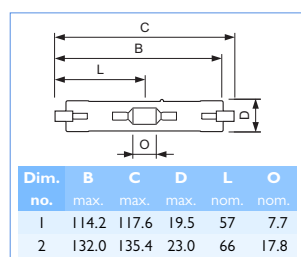
- Quartz discharge tube containing high-pressure mercury and a mixture of dysprosium, holmium and thulium halides (MHN-TD) or tin iodide (MHW-TD), with sodium and thallium added for colour correction and arc stabilisation
- Double-ended lamps housed in a tubular clear UV-Block quartz evacuated outer envelope
- Restricted burning position

## 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)



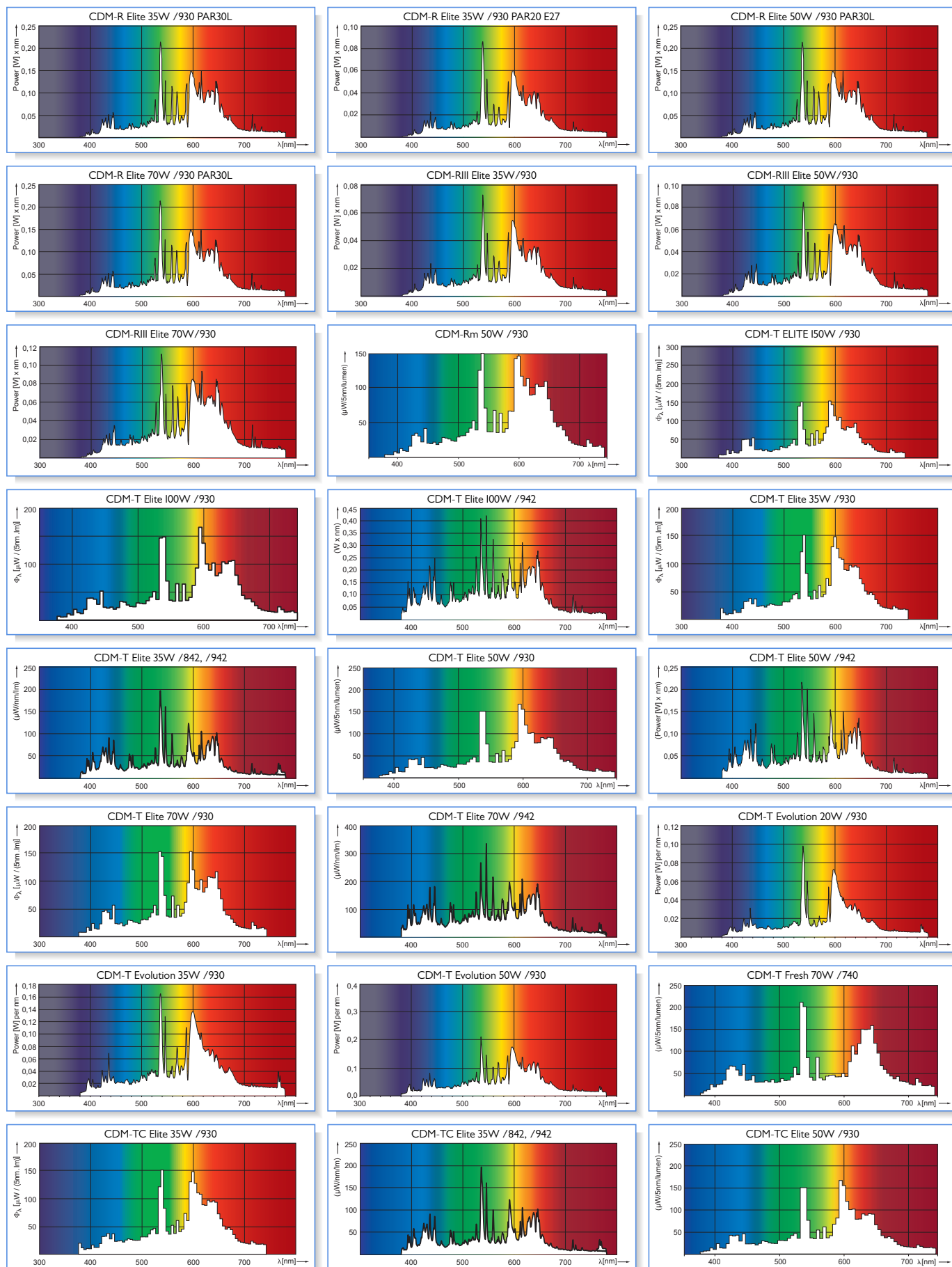
## MHN-TD RX7s

Wattage/ Colour Code	Colour Tempera- ture	Lamp Lumi- nous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number	
	(K)	(lm)	(h)	(h)								
70W/730	3,000	6,000		9,000	p45	A+	1	ICT / 12	12	70MHWTD	871829121530100	yes
70W/730	3,000	6,200	6,000	9,000	p45		1	ICT / 12	12	70MHWTD	871150056268515	yes
150W/730	3,000	13,800	6,500	10,500	p45		2	ICT / 12	12	150MHWTD	871150019350615	yes
150W/842	4,200	12,900		10,500	p45	A+	2	ICT / 12	12	150MHNTD	871829121536300	yes

05

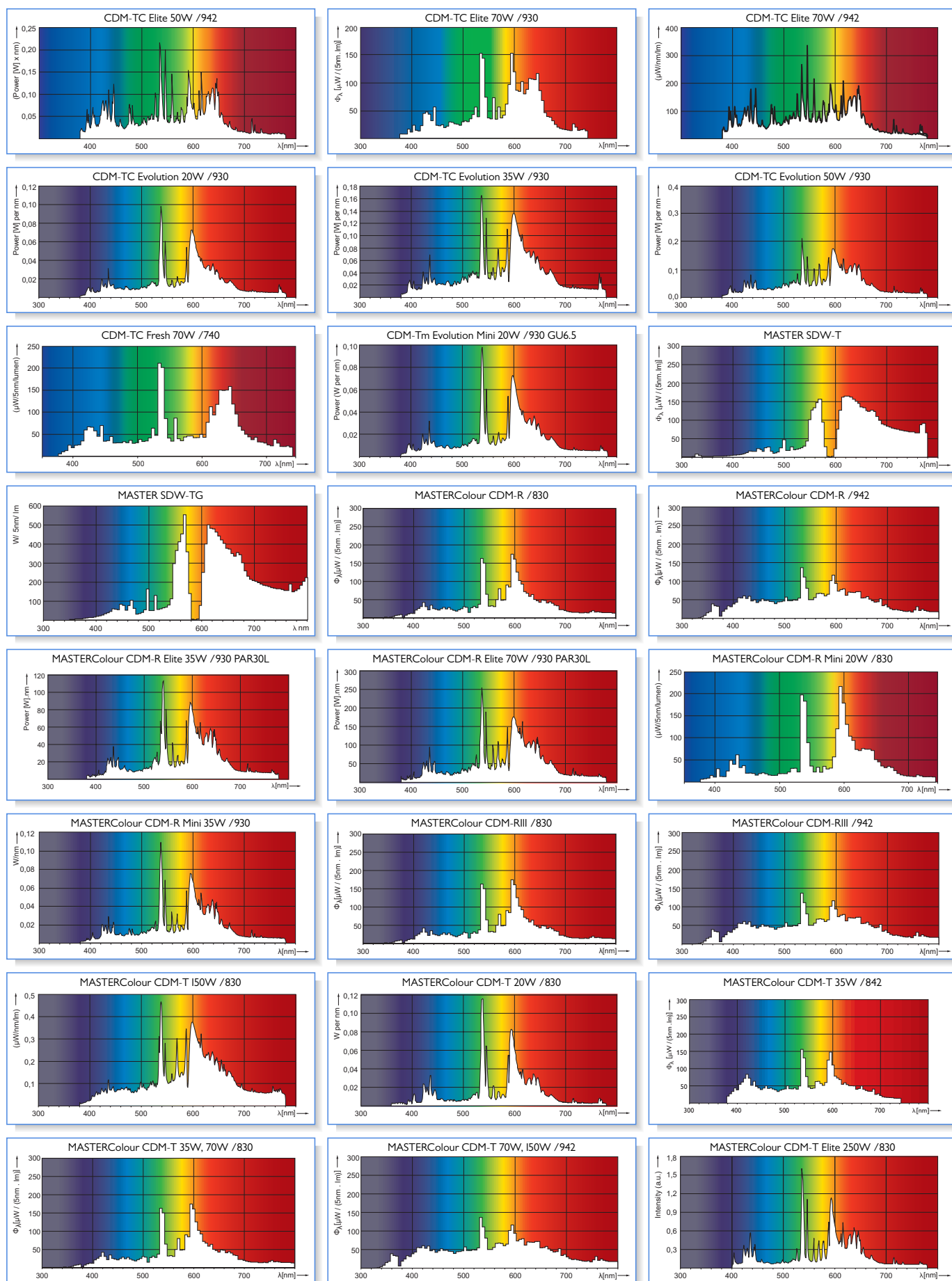


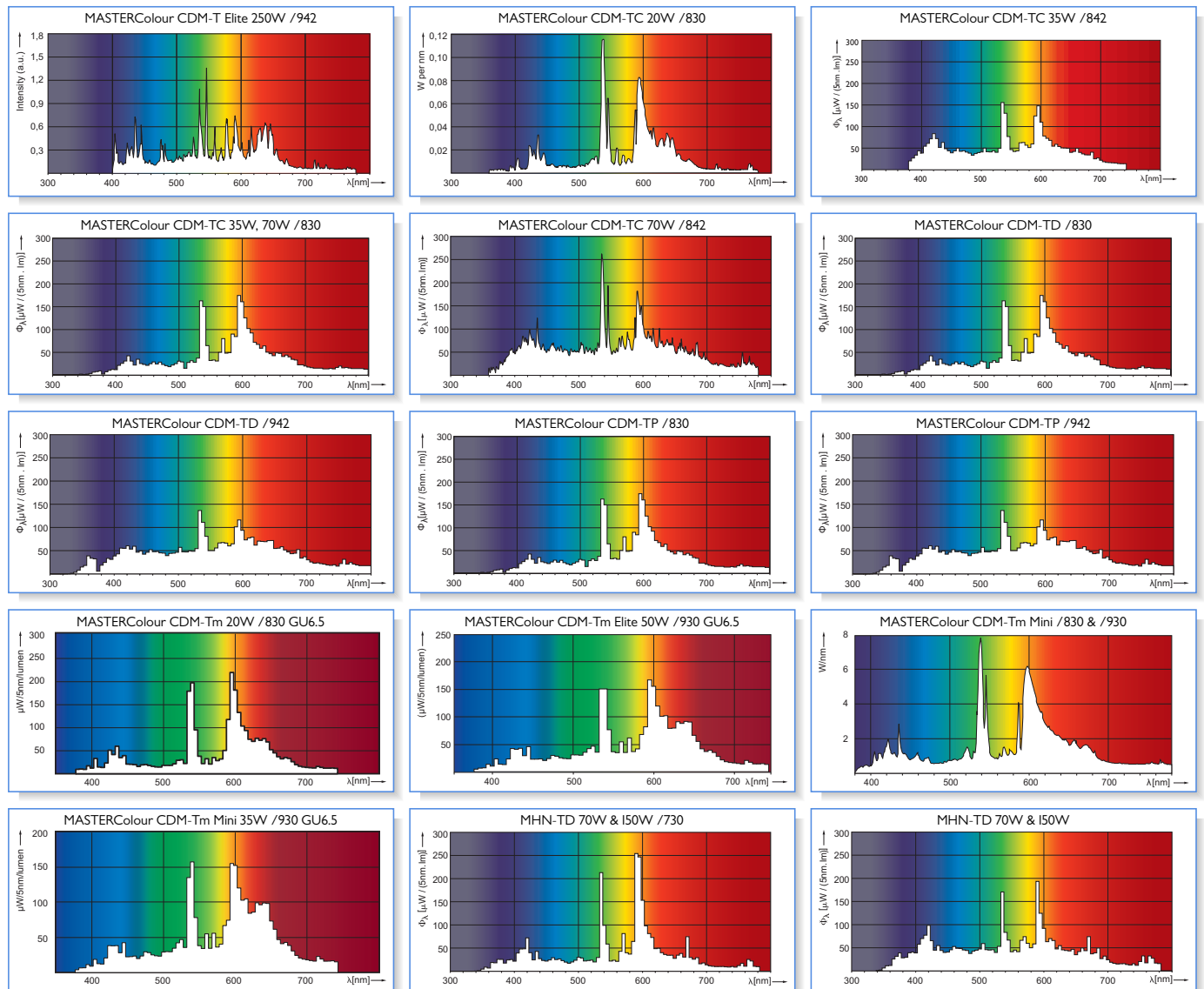
## Spectral power distribution



05





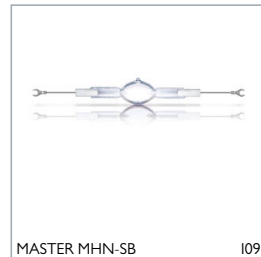




## Outdoor Ceramic White Light ↗



## Quartz Metal Halide ↗

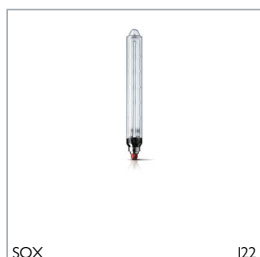


## SON High Pressure Sodium ↗



## HID Horticulture

## SOX Low Pressure Sodium ↗



## MASTER CosmoWhite CPO-TW &amp; CPO-TW Xtra



## 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

## Product Benefits

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

## 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 (PGZ12) provides best optical efficacy
- Compact size: 50% smaller than SON/HPL systems
- New electronic gear platform including dimming options

## Environment

- Philips Green Flagship product with high efficacy minimizes environmental impact and CO<sub>2</sub> 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)

Dim. no.	C max.	D nom.	L nom.	O nom.
1	132	19	59	14
2	143	19	66	18

Dim. no.	C max.	D nom.	L nom.	O nom.
3	150.0	19	66	22
4	149.8	19	66	22

## PGZ12 Clear

Type	Wattage/ Colour Code	Lum. Flux EL25°C, Rat. horiz. (lm)	Life to 10% failures, horiz. (h)	Burning Position		Dim. no.	Packing type/ Packing configu- ration	National Order Code	Ordering number	
MASTER CosmoWhite CPO-TW Xtra	45W/628	4,950	24,000	any	A+	1	ICT / 12	45CPOTW728	8718291 <b>15001500</b>	yes
MASTER CosmoWhite CPO-TW Xtra	60W/728	7,200	24,000	any	A+	1	ICT / 12	60CPOTW728	8711500 <b>20851415</b>	yes
MASTER CosmoWhite CPO-TW Xtra	90W/728	10,800	20,000	any	A+	2	ICT / 12	90CPOTW728	8711500 <b>21121715</b>	yes
MASTER CosmoWhite CPO-TW	90W/840	10,560	12,000	any	A+	2	ICT / 12	90CPOTW840	8718291 <b>13789400</b>	yes
MASTER CosmoWhite CPO-TW	140W/728	16,500	16,000	any	A+	3	ICT / 12	140CPOTW728	8711500 <b>20853815</b>	yes
MASTER CosmoWhite CPO-TW	140W/840	16,100	12,000	any	A+	4	ICT / 12	140CPOTW840	8718291 <b>13791700</b>	yes

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## MASTER CosmoWhite CPO-TT Xtra



### The easy-fitting solution for highly energy-efficient and reliable white light outdoors

New-generation ceramic metal-halide tubular lamps used in outdoor applications, offering efficient and pleasant white light

#### Product Benefits

- Attractive white-light alternative to current standard mercury-vapor, HPS and ceramic solutions
- Offering easy access to low-cost high-performance new system with existing standard components
- Best combination of low investment and high energy savings (up to 65%), resulting in very low cost of ownership

#### Product Features

- Highly efficient white light; extremely high system efficacy
- Long reliable lifetime; new Xtra range offering service life of up to 6 years (> 30kh average life)
- Unique new burner design in combination with glass outer bulb and Edison lamp base offering easy fit into existing HPS / SON luminaire platform
- Designed for electronic gear platforms including all control features and dimming options offering flexible light levels and reduced energy consumption

#### Environment

Philips Green product with highest efficacy: minimises environmental impact and CO<sub>2</sub> emissions:

- Good environmental choice due to high energy efficiency in combination with easy-to-install white light
- RoHS-compliant (lead-free), very low mercury content (max. 2.5 mg), covered by WEEE

#### Application

- Street lighting and area lighting, urban and residential areas and city centers; for functional lighting and city beautification

#### 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 suitable electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- E27 lamp holders and other parts in luminaires should be designed to withstand the ignition voltage of the electronic control gear (rated at 5 kV ignition pulse)

Dim. no.	C max.	D nom.	L nom.	O nom.
1	156	35	103	14
2	156	35	102	14
3	211	46	132	18

Dim. no.	C max.	D nom.	L nom.	O nom.
4	211	46	132	22

Dim. no.	C max.	D nom.	L nom.	O nom.
5	257	46	157	12.3
6	257	46	162	14.0

## MASTER CosmoWhite CPO-TT Xtra Clear

Wattage/Colour Code	Cap-Base	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 8718291...
45W/628	ES	4,650	24,000	p20	A+	1	ISL / 12	12	45CPOTT628	<b>69171600</b>
60W/628	ES	7,090	24,000	p20	A+	2	ISL / 12	12	60CPOTT628	<b>69034400</b>
90W/628	GES	10,140	20,000	p20	A+	3	ISL / 12	12	90CPOTT628	<b>68115100</b>
140W/628	GES	16,000	16,000	p20	A+	4	ISL / 12	12	140CPOTT628	<b>69032000</b>
210W/942	GES	22,000	15,800	any	A+	5	ISL / 12	12	210CPOTT942	<b>69105100</b>
315W/942	GES	34,750	15,900	any	A+	6	ISL / 12	12	315CPOTT942	<b>69107500</b>



## 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 Benefits

- High quality sparkling white light
- Highest energy saving and lowest cost of ownership
- Reduced energy consumption/CO<sub>2</sub> emission
- Dimmable

## 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

## 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	16.0
4	186	28	90	14.0
5	193	38	90	12.1
6	193	38	90	
7	193	38	90	16.0
8	193	38	90	14.0

## MASTERColour CDM-TMW Elite Clear

Wattage/Colour Code/Feature	Cap-Base	Lamp Luminous Flux EL	Life to 10% failures EL	Life to 50% failures EL	Burning Position	Energy Class	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number	WEEE
		(lm)	(h)	(h)							
210W/930	PGZ18	24,150	14,000	27,000	any	A+	1	ICT / 12 12	210CDMTELITE930	871829113950800	yes
210W/942	PGZ18	23,000	15,000	30,000	any	A+	2	ICT / 12 12	210CDMTELITE942	871829113952200	yes
315W/930	PGZ18	38,700	16,000	30,000	any	A+	3	ICT / 12 12		871829154801000	
315W/930	PGZ18	38,700	16,000	30,000	any	A+	3	ICT / 12 12	315CDMTELITE930	872790080157600	yes
315W/942	PGZ18	35,500	16,000	30,000	any	A+	4	ICT / 12 12	315CDMTELITE942	871829154803400	yes
210W/930W - P	PGZX18.	23,300	15,400	21,000	any	A+	5	ICT / 12 12		871829113954600	
210W/942W - P	PGZX18.	22,800	12,000	20,000	any	A+	6	ICT / 12 12	210CDMTPELIT942	872790086211900	yes
315W/930W - P	PGZX18.	36,200	11,500	20,000	any	A+	7	ICT / 12 12	315CDMTPELIT930	871829113956000	
315W/942W - P	PGZX18.	34,300	13,300	20,000	any	A+	8	ICT / 12 12	315CDMTPELIT942	871829113960700	

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## 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 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

**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

**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		D		L		O	
	max.	max.	max.	max.	nom.	nom.	nom.	nom.
1	156	36	102	5.25				
2	156	36	102	7.15				

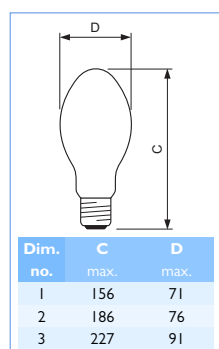
Dim. no.	C		D		L		O	
	max.	max.	max.	max.	nom.	nom.	nom.	nom.
3	211	47	132	8.5				
4	211	47	132	10.0				
5	257	47	157	12.1				

## 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 configu- ration		National Order Code	Ordering number 8718291...	
		(lm)	(h)	(h)								
50W/828	ES	5,500	12,000	20,000	any	A+	1	ISL / 12	12	50CDOTPLUS828	18561100	yes
70W/828	ES	7,500	12,000	27,000	any	A+	2	ISL / 12	12	70CDOTPLUS828	12030800	yes
100W/828	GES	10,700	18,000	27,000	any	A+	3	ISL / 12	12	100CDOTPLUS828	12032200	yes
150W/828	GES	16,500	18,000	27,000	any	A+	4	ISL / 12	12	150CDOTPLUS828	12034600	yes
250W/830	GES	28,300	16,000	23,000	any	A+	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 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

## 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

## 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)

## MASTER CityWhite CDO-ET Plus Coated

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 configu- ration		National Order Code	Ordering number 8718291...	
		(lm)	(h)	(h)								
50W/828	ES	5,150	12,000	20,000	any	A+	1	ISL / 24	24	50CDOETPLUS828	18563500	yes
70W/828	ES	7,230	12,000	27,000	any	A+	1	ISL / 24	24	70CDOETPLUS828	15875200	yes
100W/828	GES	9,400	18,000	27,000	any	A+	2	ISL / 12	12	100CDOETPLUS828	15877600	yes
150W/828	GES	15,100	20,000	27,000	any	A+	3	ISL / 12	12	150CDOETPLUS828	15881300	yes

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## MASTER MHN-SA



## Product Description

- Compact quartz metal halide lamps with double-pinch

## 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

## 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

## Environment

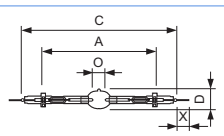
- This product is RoHS compliant
- This product is covered by WEEE

## Application

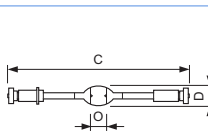
- Professional sports lighting and floodlighting

## 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.	A	C	D	O	X
	nom.	max.	max.	nom.	nom.
1	318	369	41.0	25	25
2	226	369	34.3	25	34
3	226	369	41.0	25	25



Dim. no.	C	D	O
	max.	max.	nom.
4	364	41	25

## MASTER MHN-SA Clear

Wattage/ Colour Code	Cap- Base	Voltage	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	
		(V)	(lm)	(h)	(h)								
1800W/956	X830R	230	155,000	2,300	5,000	p15	A+	1	NO / I	I	1800MHNSA956R	871150020106500	yes
1800W/956	(P)SFC	230	155,000	2,000	6,100	p15	A+	4	NO / I	I	1800MHNSA956	871150020075400	yes
1800W/956	(P)SFC	400	160,000	2,400	6,100	p15	A+	4	NO / I	I	4151800MHNSA956	871150020076100	yes
2000W/956	X830R	400	226,000	2,300	5,000	p15	A+	2	UNP / I	I	2000MHNSA956HO	871829124183600	yes
2000W/956	X830R	400	200,000	1,400	3,700	p15	A+	3	NO / I	I	2000MHNSA956	871150020079200	yes

## MASTER MHN-LA



## Product Description

- Compact quartz metal halide lamps with double-pinch

## 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

## 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

## Environment

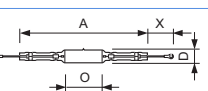
- This product is RoHS compliant.
- This product is covered by WEEE

## 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	Lamp Lumi- nous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
		(V)	(lm)	(h)	(h)								
1000W/842	X528	230	100,000	8,000	15,000	p5	A+	1	NO / I	I	1000MHNLA842	<b>20078500</b>	yes
1000W/956	X528	230	90,000	8,000	15,000	p5	A+	1	NO / I	I	1000MHNLA956	<b>20077800</b>	yes
2000W/842	X528	400	220,000	6,000	13,000	p5	A+	2	NO / I	I	2000MHNLA842	<b>20074700</b>	yes
2000W/956	X528	400	190,000	6,000	13,000	p5	A+	2	NO / I	I	2000MHNLA956	<b>20073000</b>	yes

## MASTER MHN-SE



## Product Description

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

## 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

## 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

## Environment

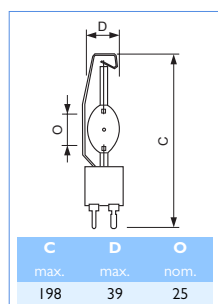
- This product is RoHS compliant
- This product is covered by WEEE

## 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



## MASTER MHN-SE 400V Clear

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

## MASTER MHN-FC



## Product Description

- Compact quartz metal halide lamps with double pinch

## 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

## 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

## Environment

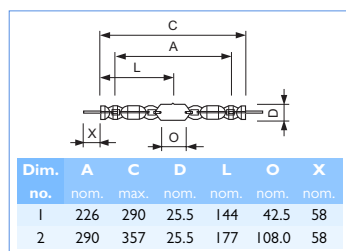
- This product is RoHS compliant
- This product is covered by WEEE

## Application

- Recreational sports and area floodlighting

## Warnings and Safety

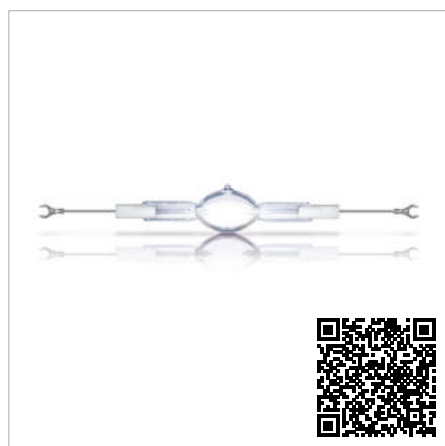
- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures



## MASTER MHN-FC Double Ended Clear

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

## MASTER MHN-SB



## Optimal beam control, compact design

Compact quartz metal halide lamp with single pinch

## 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

## Product Features

- Compact source (Short Base lamp dimensions) with short electrode distance and high luminous efficacy

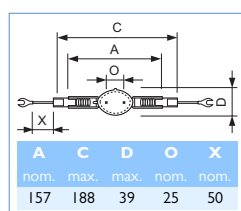
- Single pinch concept with long lifetime
- Natural white colour appearance, good colour rendering and stability
- Daylight colour temperature eases transition from daylight to artificial lighting

## 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






More data see next page



## MASTER MHN-SB Cable 400V Clear (continued)

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...	
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## 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	A+ UNP / I I	2000MHNSBHO956	<b>92860000</b>	yes

## MASTER HPI-T Plus



## Product Description

- Quartz metal halide lamps with clear outer bulb

## Product Benefits

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

## 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

## Environment

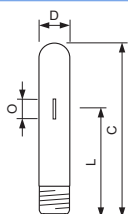
- Good environmental choice because of long service life
- This product is RoHS compliant
- This product is covered by WEEE

## 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

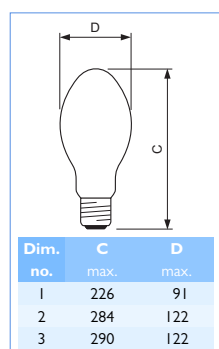


Dim. no.	C max.	D max.	L nom.	O nom.
1	255	47	155	29.0
2	286	47	168	30.5

## MASTER HPI-T Plus GES Clear

Wattage/ Colour Code	Lamp Luminous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
	(lm)	(h)	(h)								
250W/645	20,500	7,500	20,000	p20	A+	1	ISL / 12	12	250HPITPLUS	<b>17989015</b>	yes
400W/645	32,000	7,500	20,000	p20	A+	2	ISL / 12	12	400HPITPLUS	<b>17990615</b>	yes

## MASTER HPI Plus



## Product Description

- Quartz metal halide lamps with opalized outer bulb

## 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

## 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

## Environment

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

## Application

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

## 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

## MASTER HPI Plus GES Coated

Wattage/ Colour Code	System Description <sup>1</sup>	Luminous Flux EM 25°C, Rated	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration	National Order Code	Ordering number 8711500...	
		(lm)	(h)	(h)							
250W/645	BU	18,000	7,500	20,000	h15	A	1	ISL / 12 12	250HPIPLUSBU	18114515	yes
250W/645	BU-P	18,000	7,500	20,000	h15	A	1	ISL / 12 12	250HPIPLUSBUP	21147715	yes
250W/667	BU	18,000	7,500	20,000	h15	A	1	ISL / 12 12	250HPIPLUSDBU	20739515	yes
400W/645	BU	32,500	7,500	20,000	h15	A+	2	ISL / 6 6	400HPIPLUSBU	18252410	yes
400W/645	BU-P	32,500	7,500	20,000	h15	A+	3	ISL / 6 6	400HPIPLUSBUP	21143910	yes
400W/667	BU	32,500	7,500	20,000	h15	A+	3	ISL / 6 6	400HPIPLUSDBU	20737110	yes
400W/645	BUS	32,500	7,500	20,000	h15	A+	3	ISL / 6 6	400HPIPLUSBUS	18111410	yes
400W/645	BUS-P	32,500	7,500	20,000	h15	A+	3	ISL / 6 6	400HPIPLUSBUP	21145310	yes

<sup>1</sup> 'System Description' value abbreviations: 'BU' = Base-Up, 'BU-P' = Base-Up/Protected, 'BUS' = Base-Up/internal Starter, 'BUS-P' = Base-Up/internal Starter/Protected

## HPI-T



## Product Description

- Quartz metal halide lamps with clear outer bulb

## Product Benefits

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

## 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

## Environment

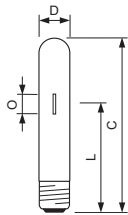
- This product is RoHS compliant
- This product is covered by WEEE

## Application

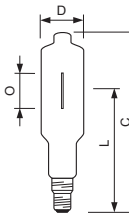
- Sports lighting, floodlighting of buildings and monuments, area lighting e. g. harbours and building sites

## 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	Lamp Luminous Flux EM	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 871 1500...	
	(V)	(lm)	(h)	(h)								
1000W/543	220	85,000	5,500	12,000	p	A+	1	ISL / 4	4	1000HPIT	<b>18373645</b>	yes
2000W/542	380	210,000	5,500	12,000	p20	A+	2	CRP / 4	4	4152000HPITN	<b>20235245</b>	yes
2000W/646	220	189,000	5,500	12,000	p75	A+	3	ISL / 4	4	2000HPIT	<b>18376745</b>	yes



## 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 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

#### 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

#### 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 max.	D max.	L nom.	O 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	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...	
(W)		(lm)	(h)	(h)								
50	ES	4,700	25,000	38,000	any	A+	1	ISL / 12	12	50SONTPLUSXTRA	93358100	yes
70	ES	7,300	28,000	40,000	any	A+	2	ISL / 12	12	70SONTPLUSXTRA	92290500	yes
100	GES	10,700	28,000	40,000	any	A+	3	ISL / 12	12	100SONTPLUSXTRA	92323000	yes
150	GES	18,000	32,000	45,000	any	A+	4	ISL / 12	12	150SONTPLUSXTRA	92733700	yes
250	GES	33,300	32,000	45,000	any	A+	5	ISL / 12	12	250SONTPLUSXTRA	92737500	yes
400	GES	56,000	32,000	45,000	any	A++	6	ISL / 12	12	400SONTPLUSXTRA	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 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

#### 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

#### 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 max.	D max.
1	156	71.0
2	186	76.0
3	227	91.0
4	290	121.5

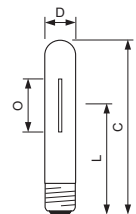
## MASTER SON APIA Plus Xtra External Ignitor Coated

Wattage	Cap-Base	Luminous Flux EM 25°C, Rated	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...	
(W)		(lm)	(h)	(h)								
50	ES	3,900	25,000	38,000	any	A+	1	ISL / 24	24	50SONPLUSXTRA	<b>92813600</b>	yes
70	ES	6,210	28,000	40,000	any	A+	1	ISL / 24	24	70SONPLUSXTRA	<b>92817400</b>	yes
100	GES	10,000	28,000	40,000	any	A+	2	ISL / 12	12	100SONPLUSXTRA	<b>92743600</b>	yes
150	GES	17,500	32,000	45,000	any	A+	3	ISL / 12	12	150SONPLUSXTRA	<b>92745000</b>	yes
250	GES	31,300	32,000	45,000	any	A+	3	ISL / 12	12	250SONPLUSXTRA	<b>92773300</b>	yes
400	GES	55,400	32,000	45,000	any	A++	4	ISL / 12	12	400SONPLUSXTRA	<b>92767200</b>	yes

06



## MASTER SON-T PIA Plus

Dim. no.	C max.	D max.	L nom.	O nom.
1	156	36	104.0	35
2	156	36	104.0	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

## Product Description

- High Pressure Sodium lamp with clear tubular outer bulb, high output and long reliable lifetime

## 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

## 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

## 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)

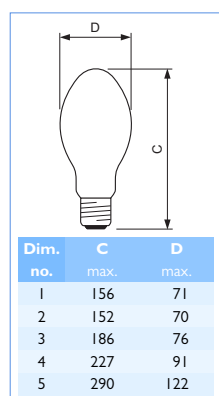
## MASTER SON-T PIA Plus External Ignitor 230V Clear

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 configu- ration		National Order Code	Ordering number 871 1500...	
		(lm)	(h)	(h)								
50W/220	ES	4,400	17,000	30,000	any	A+	1	ISL / 12	12	50SONTPLUS	192653 / 5	yes
70W/220	ES	6,600	20,000	30,000	any	A+	2	ISL / 12	12	70SONTPLUS	192660 / 5	yes
100W/220	GES	10,700	21,000	36,000	any	A+	3	ISL / 12	12	100SONTPLUS	192301 / 5	yes
150W/220	GES	17,700	24,000	36,000	any	A+	4	ISL / 12	12	150SONTPLUS	192295 / 5	yes
250W/220	GES	33,000	24,000	36,000	any	A+	5	ISL / 12	12	not UK product	179876 / 6	
250W/220	GES	33,000	24,000	36,000	any	A+	5	ISL / 12	12	250SONTPLUS	179876 / 5	yes
400W/220	GES	55,800	24,000	36,000	any	A++	6	ISL / 12	12	400SONTPLUS	179883 / 5	yes
600W/220	GES	90,000	15,000	30,000	any	A++	7	ISL / 12	12	not UK product	197429 / 6	
600W/220	GES	90,000	15,000	30,000	any	A++	7	ISL / 12	12	600SONTPLUS	197429 / 5	yes

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## MASTER SON PIA Plus



## Product Description

- High Pressure Sodium lamp with opalized ovoid outer bulb, high output and long reliable lifetime

## 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

## 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

## 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)

## 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 configu- ration		National Order Code	Ordering number	
			(lm)	(h)	(h)								
50W/220	External Ignitor	ES	3,900	17,000	30,000	any	A+	1	ISL / 24	24	50SONPLUS	871829118038800	yes
70W/220	External Ignitor	ES	5,900	20,000	30,000	any	A+	1	ISL / 24	24	70SONPLUS	871829118040100	yes
70W/220	Internal Ignitor	ES	5,900	17,000	30,000	any	A+	2	ISL / 24	24	70SONIPLUS	871150020426430	yes
100W/220	External Ignitor	GES	10,000	21,000	36,000	any	A+	3	ISL / 12	12	100SONPLUS	871150018225815	yes
150W/220	External Ignitor	GES	16,100	24,000	36,000	any	A+	4	ISL / 12	12	150SONPLUS	871150018228915	yes
250W/220	External Ignitor	GES	30,900	24,000	36,000	any	A+	4	ISL / 12	12	250SONPLUS	871150019344515	yes
400W/220	External Ignitor	GES	55,400	24,000	36,000	any	A++	5	ISL / 12	12	400SONPLUS	871150019345215	yes

## SON-T



## Product Description

- High Pressure Sodium lamp with clear tubular outer bulb

## Product Benefits

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

## 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

## Environment

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

## Application

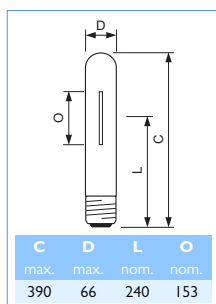
- Road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications
- Recreational sports facilities Outdoor and Indoor

## Warnings and Safety

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







SON-T External Ignitor GES Clear

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

## SON



## Product Description

- High Pressure Sodium lamp with opalized ovoid outer bulb

## Product Benefits

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

## 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

## Environment

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

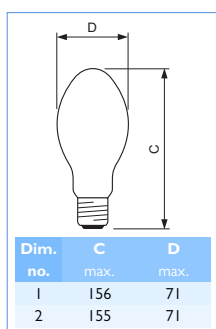
## Application

- 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)

06



SON ES Coated

Wattage/ Colour Code	System Description	Lamp Lumi- nous Flux EM	Luminous Flux EM 25°C, Rated	Life to 10% failures	Life to 50% failures	Burning Position		Dim. no.	Packing type/ Packing configu- ration		National Order Code	Ordering number 8711500...	
		(lm)	(lm)	(h)	(h)								
50W/220	External Ignitor	3,500	3,500	15,000	28,000	any	A	1	ISL / 24	24	50SONE	18195430	yes
50W/220	Internal Ignitor	3,500	3,500	13,000	28,000	any		1	ISL / 24	24	50SONI	18189330	yes
70W/220	External Ignitor	5,810	5,810	15,000	28,000	any	A+	1	ISL / 24	24	70SONE	18192330	yes
70W/220	Internal Ignitor	5,600	5,600	13,000	28,000	any	A+	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 Benefits

- The ideal balance between colour impression and energy efficacy

## 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

## Environment

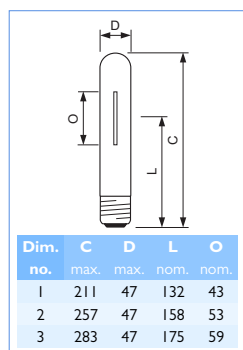
- This product is RoHS compliant
- This product is covered by WEEE

## 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)



## 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 configu- ration		National Order Code	Ordering number 8711500...	
150W/621	13,000	12,000	24,000	any	A+	1	ISL / 12	12	150SONTCOM	<b>192288</b> /5	yes
250W/621	23,000	12,000	24,000	any	A+	2	ISL / 12	12	250SONTCOM	<b>179852</b> /5	yes
400W/621	38,000	12,000	24,000	any	A+	3	ISL / 12	12	400SONTCOM	<b>179869</b> /5	yes

## SON Comfort



## Product Description

- High Pressure Sodium lamp with opalized, ovoid outer bulb and a comfortable colour impression

## Product Benefits

- The ideal balance between colour impression and energy efficacy

## 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

## Environment

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

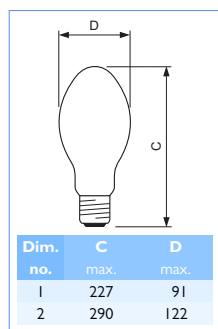
## Application

- City centres and residential areas
- Commercial and industrial applications

## Warnings and Safety

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





## SON Comfort External Ignitor GES Coated

Wattage/ Colour Code	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 8711500...	
	(lm)	(h)	(h)								
150W/621	12,500	12,000	24,000	any	A+	1	ISL / 12	12	150SONCOM	<b>182166</b> /15	yes
250W/621	22,000	12,000	24,000	any	A+	1	ISL / 12	12	250SONCOM	<b>182197</b> /15	yes
400W/621	37,000	12,000	24,000	any	A+	2	ISL / 12	12	400SONCOM	<b>182227</b> /15	yes

## SON H



## Product Description

- High Pressure Sodium lamp with opalized outer bulb retrofit for High Pressure Mercury lamps

## Product Benefits

- Instant and cost-effective upgrade of light level and reduction of energy use replacing HPL

## 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

## Environment

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

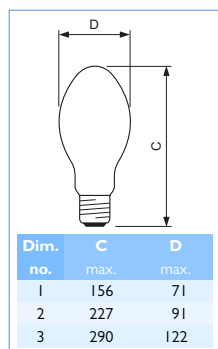
## Application

- 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

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## SON H 220V Coated

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)								
110	ES	9,600		28,000	any	A+	1	ICT / 24	24	110SONH	87182911 <b>1857200</b>	yes
220W/220	GES	19,000	12,000	26,000	any	A+	2	ISL / 12	12	220SONH	8711500 <b>182074</b> /15	yes
350W/220	GES	34,000	12,000	26,000	any	A+	3	ISL / 12	12	350SONH	8711500 <b>182135</b> /15	yes

## HORTI



## Product Description

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

## Product Benefits

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

## 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

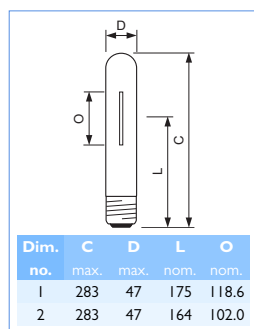
- "GreenPower" concept with optimized micromol output (growth light)
- "Plus" concept with high efficacy translated into high light output
- "Agro" concept with optimized light spectrum

## 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



## GES Clear

Type	Wattage/ Colour Code	System Description	Vol- tage	Luminous Flux EM 25°C, Rated (lm)	Life to 10% failures (h)	Life to 50% failures (h)	Burning Position		Dim. no.		National Order Code	Ordering number 8711500...	
MASTER GreenPower CG T	400W/220	External Ignitor	230	58,500	21,000	30,000	any	A+	1	12	400SONTGP	20196615	yes
MASTER GreenPower	600W/220	System 400V	400	87,550	14,000	20,000	any	A++	2	12	415600SONTGP	20307615	yes

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## 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 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

## 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)

## 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 max.	D max.
1	311	52
2	425	52

## MASTER SOX PSG BY22d Clear

Wattage (W)	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	A+	1	ISL / 12	12	35SOXPSG	<b>735089</b> / 5	yes
55	12,000	18,000	h110	A++	2	ISL / 12	12	55SOXPSG	<b>735126</b> / 5	yes

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## MASTER SOX-E



## Product Description

- Low Pressure Sodium lamp with improved efficacy

## Product Benefits

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

## 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

## 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	A+	1	ISL / 12	12	18SOXE	<b>600233</b> / 5	yes
26	3,600	18,000	h110	A++	2	ISL / 12	12	26SOXE	<b>600257</b> / 5	yes
36	6,100	18,000	p20	A++	3	ISL / 12	12	36SOXE	<b>600271</b> / 5	yes
66	10,500	18,000	p20	A++	4	ISL / 12	12	66SOXE	<b>600295</b> / 5	yes
91	17,400	18,000	p20	A++	5	ISL / 12	12	91SOXE	<b>600332</b> / 5	yes
131	26,200	18,000	p20	A++	6	ISL / 6	6	131SOXE	<b>735140</b> / 0	yes

## SOX



## Product Description

- Low Pressure Sodium lamp

## Product Benefits

- High luminous efficacy leads to low energy consumption

## Product Features

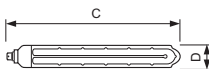
- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

## 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

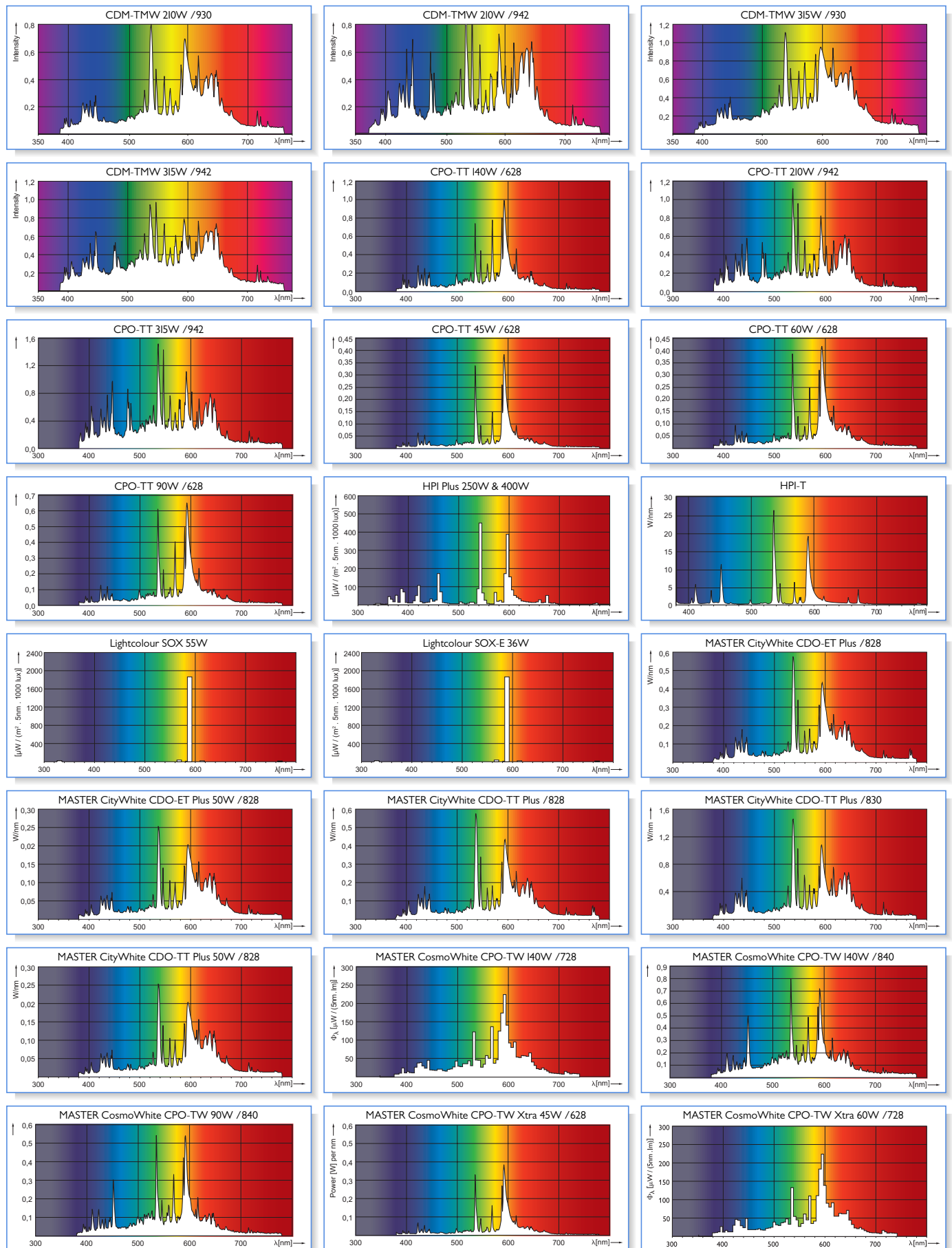
## SOX BY22d

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	A+	1	ISL / 12	12	35SOX	<b>735003</b> / 5	yes
35	4,550	18,000	h110	A+	1	ISL / 12	12	35SOXPLUS	<b>194695</b> / 5	yes
55	7,800	18,000	h110	A++	2	ISL / 12	12	55SOX	<b>600318</b> / 5	yes
55	7,800	18,000	h110	A++	2	ISL / 12	12	55SOXPLUS	<b>194718</b> / 5	yes
90	13,600	18,000	p20	A++	3	ISL / 12	12	90SOX	<b>735027</b> / 5	yes
90	13,600	18,000	p20	A++	3	ISL / 12	12	90SOXPLUS	<b>194732</b> / 5	yes
135	22,600	18,000	p20	A++	4	ISL / 12	12	135SOX	<b>735041</b> / 5	yes
135	22,600	18,000	p20	A++	4	ISL / 12	12	135SOXPLUS	<b>194756</b> / 5	yes
180	32,000	18,000	p20	A++	5	ISL / 6	6	180SOX	<b>735164</b> / 0	yes

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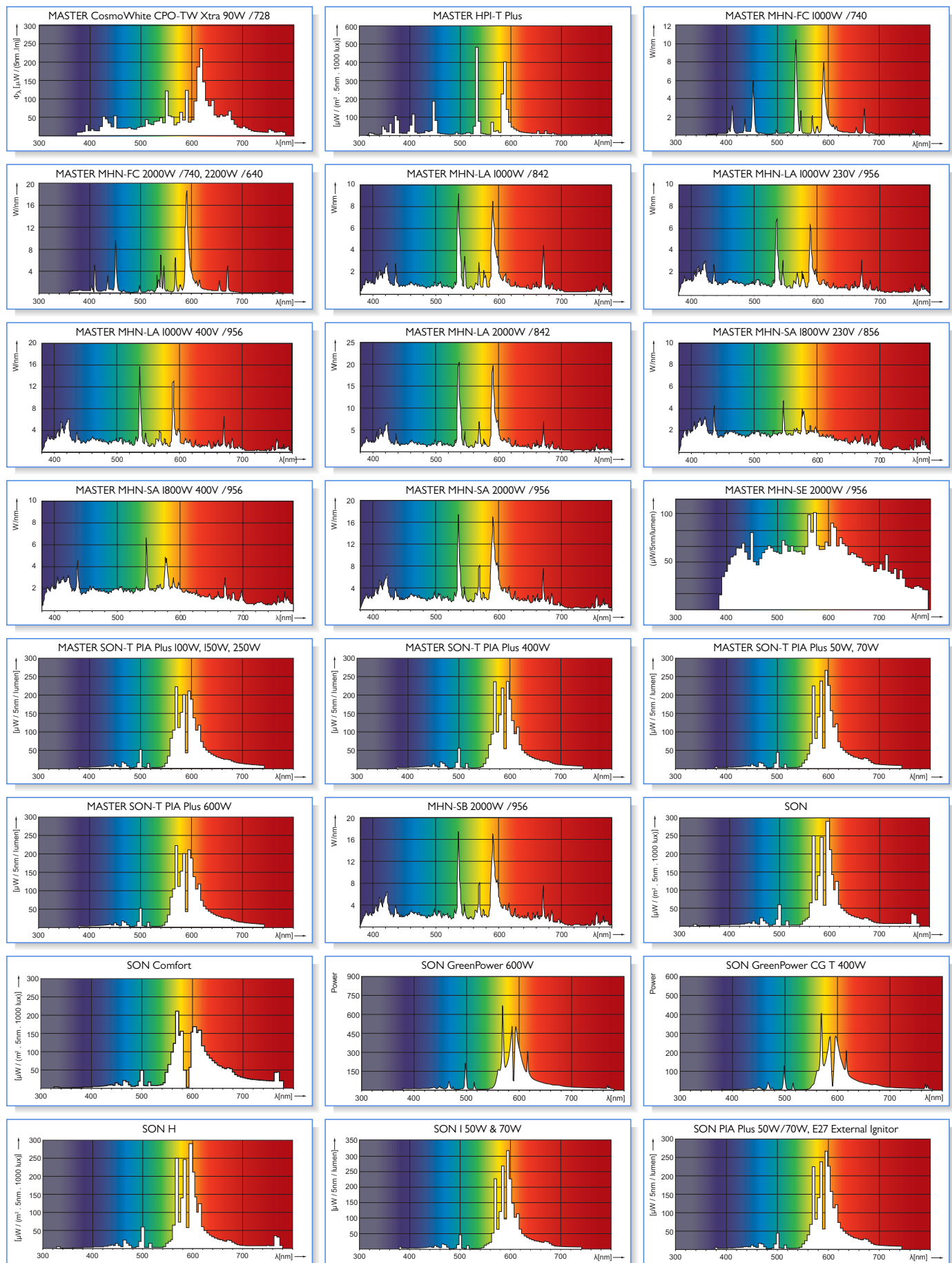
## Spectral power distribution

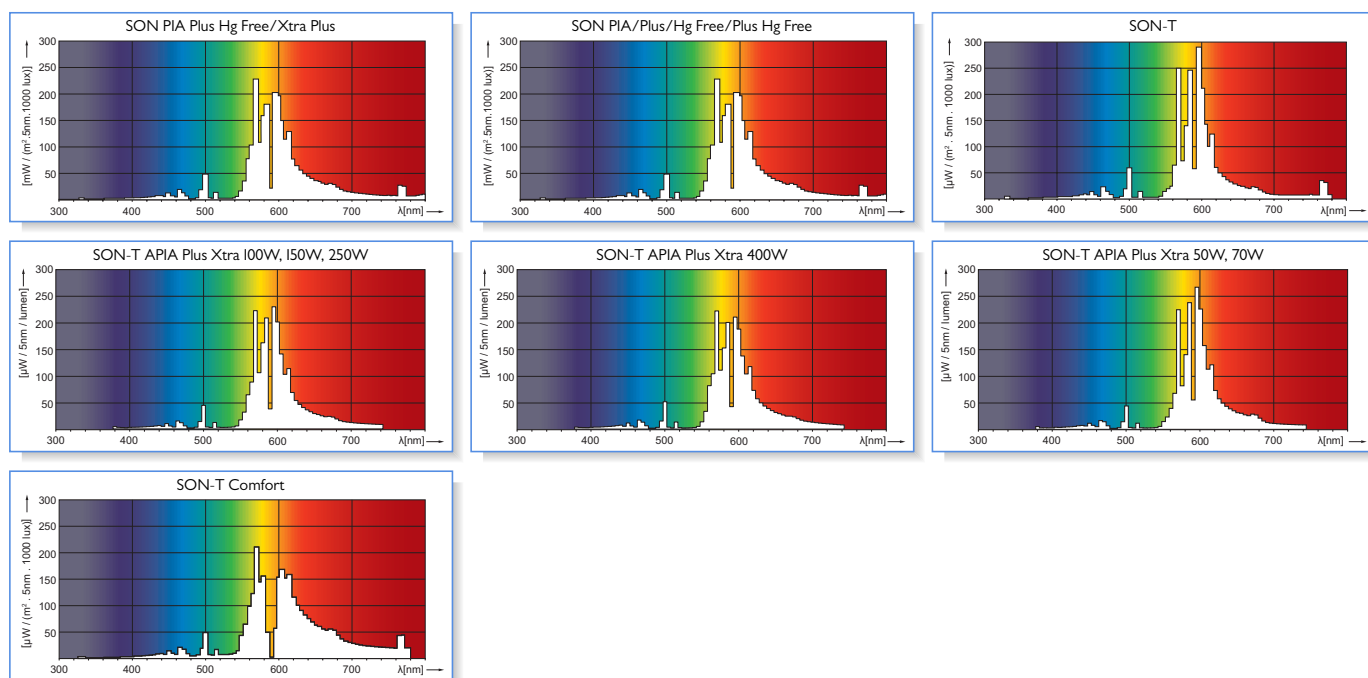


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## LV Halogen with Reflector ⇨



MASTERLine ES I28



MASTERLine III I29



Brilliantline Dichroic I29



Brilliantline Alu I30



Accentline I31

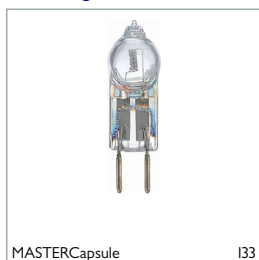
## LV Halogen without Reflector ⇨



Aluline III I31



Aluline 37/56 I32



MASTERCapsule I33



Capsuleline I33

## MV Halogen with Reflector



Twistline Alu 2,000 hours I35



EcoClassic A-shape I36



EcoClassic Candle B35 I36



EcoClassic P45 I37

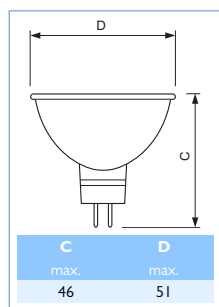


Plusline Large (double ended) I38

## MV Halogen without 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 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

## 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




## 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

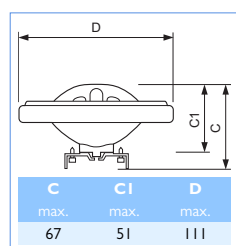
## MASTERLine ES GU5.3 12V

Lamp Wattage		Luminous Intensity	Rated Lifetime		Packing type/Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)					
20	8	6,000	5,000	B	ICT / 4X5F	20	14578	41364271
20	36	1,000	5,000	B	ICT / 4X5F	20	14579	41367371
30	8	11,000	5,000	B	ICT / 4X5F	20	14580	41370371
30	24	3,150	5,000	B	ICT / 4X5F	20	14581	41375871
30	36	1,600	5,000	B	ICT / 4X5F	20	14582	41378971
30	60	750	5,000	B	ICT / 4X5F	20	14583	41382671
35	8	12,500	5,000	B	ICT / 4X5F	20	14584	41387171
35	24	4,100	5,000	B	ICT / 4X5F	20	14585	41397071
35	36	2,200	5,000	B	ICT / 4X5F	20	14586	42432771
35	60	1,050	5,000	B	ICT / 4X5F	20	14587	42435871
45	8	15,000	5,000	B	ICT / 4X5F	20	14588	42438971
45	24	5,300	5,000	B	ICT / 4X5F	20	14589	42441971
45	36	2,850	5,000	B	ICT / 4X5F	20	14590	42444071
45	60	1,300	5,000	B	ICT / 4X5F	20	14591	42447171

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## MASTERLine III



## Product Description

- Low-voltage halogen reflector lamp with double-ended burner and high-purity aluminium reflector

## 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

## 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

## Environment

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

## Application

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

## MASTERLine III G53 12V

Lamp Wattage		Luminous Intensity	Rated Lifetime		Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)					
30	8	23,000	4,000	C	ICT / 6	6	30ML1118D	41101310
30	24	3,600	4,000	B	ICT / 6	6	30ML11124D	41103710
45	8	30,000	4,000	C	ICT / 6	6	45ML1118D	41105110
45	24	5,300	4,000	B	ICT / 6	6	45ML11124D	41107510
45	45	1,800	4,000	B	ICT / 6	6	45ML11145D	41109910
60	8	40,000	4,000	C	ICT / 6	6	60ML1118D	41111210
60	24	7,700	4,000	C	ICT / 6	6	60ML11124D	41115010
60	45	2,400	4,000	C	ICT / 6	6	60ML11145D	41113610

## Brilliantline Dichroic



## Product Description

- Low-voltage, xenon gas-filled halogen burner with axial filament optically positioned in a glass reflector

## Product Benefits

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

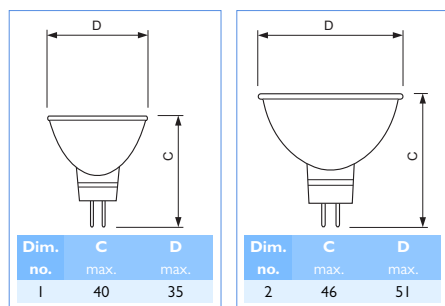
## Product Features

- 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

## Application

- Ideally suited for accent, task and decorative lighting in shops, stores, hotels, restaurants etc.



## Brilliantline Dichroic 12V Clear

Bulb	Lamp Wattage	Cap-Base		Luminous Intensity	Rated Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(W)		(°)	(cd [max.])	(h)						
MR11	20	GU4	10	4,800	4,000	C	1	ICT / 10X5F	50	42537960	<b>42537960</b>
MR11	20	GU4	30	800	4,000	C	1	ICT / 10X5F	50	42540960	<b>42540960</b>
MR11	35	GU4	10	6,000	4,000	C	1	ICT / 10X5F	50	42543060	<b>42543060</b>
MR11	35	GU4	30	1,500	4,000	C	1	ICT / 10X5F	50	42546160	<b>42546160</b>
MR16	35	GU5.3	10	7,500	4,000	B	2	ICT / 10X5F	50	42490760	<b>42490760</b>
MR16	35	GU5.3	36	1,400	4,000	B	2	ICT / 10X5F	50	42504160	<b>42504160</b>
MR16	50	GU5.3	36	2,050	4,000	B	2	ICT / 10X5F	50	42516460	<b>42516460</b>

## Brilliantline Alu



## Product Description

- Low voltage, xenon gas filled halogen burner with axial filament optically positioned in a aluminum coated glass reflector

## 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)

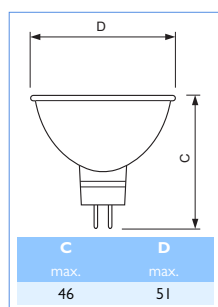
## Product Features

- 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

## 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



## Brilliantline Alu GU5.3 12V Clear

Bulb	Lamp Wattage		Luminous Intensity	Rated Lifetime		Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(W)	(°)	(cd [max.])	(h)					
MR16	20	36	700	4,000	B	ICT / 10X5F	50	14715	<b>43072460</b>
MR16	35	36	1,500	4,000	B	ICT / 10X5F	50	14716	<b>43075560</b>
MR16	50	36	2,100	4,000	B	ICT / 10X5F	50	14717	<b>43079360</b>





## Accentline



## Product Description

- Low-voltage halogen burner optically positioned in a glass reflector with and without front glass

## Product Benefits

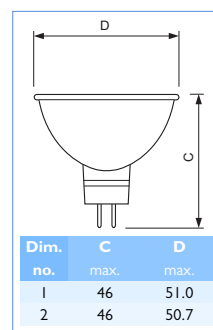
- Good light quality, cool beam halogen light and a professional lifetime

## 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

## Application

- Accent, task lighting and decorative applications in homes, shops, hotels and restaurants



## Accentline GU5.3 12V

Lamp Wattage		Luminous Intensity	Rated Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)						
20	36	400	2,000	B	1	ICT / 10X5F	50		<b>41199000</b>
20	36	500	3,000	B	2	ICT / 10X5F	50	6644ECON	<b>41199060</b>
35	36	800	2,000	B	1	ICT / 10X5F	50		<b>41202700</b>
35	36	1,000	3,000	B	2	ICT / 10X5F	50	6647ECON	<b>41202760</b>
50	36	1,200	2,000	B	1	ICT / 10X5F	50		<b>41205800</b>
50	60	400	2,000	B	1	ICT / 10X5F	50		<b>42608600</b>
50	36	1,500	3,000	B	2	ICT / 10X5F	50	6650ECON	<b>41205860</b>
50	60	675	3,000	B	2	ICT / 10X5F	50	6651ECON	<b>42608660</b>

## Aluline III



## Product Description

- Low-voltage halogen reflector lamp with high-purity aluminium reflector of III mm

## Product Benefits

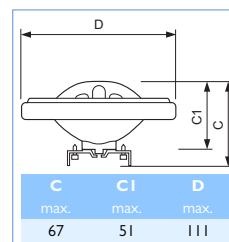
- Glare free, well defined accent lighting with minimum amount of direct glare from the lamp

## 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 mating eyelet or receptacle
- UV-block quartz glass

## Application

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



## Aluline III G53 12V

Lamp Wattage		Luminous Intensity	Rated Lifetime		Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)					
50	24	4,100	3,000	C	ICT / 6	6	50ALU11124D	<b>42655033</b>



## Aluline 37/56



## Product Description

- Low-voltage halogen burner in a lightweight, high-gloss anodised aluminium reflector giving a white halogen light

## Product Benefits

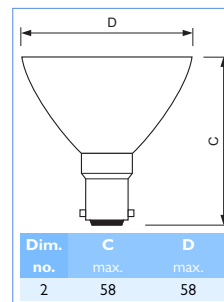
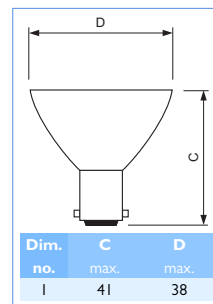
- Excellent accent lighting effects due to reduced spill light (clear versions only)

## 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

## Application

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



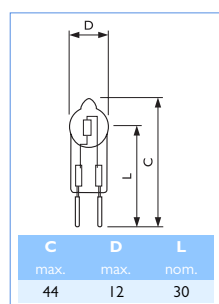
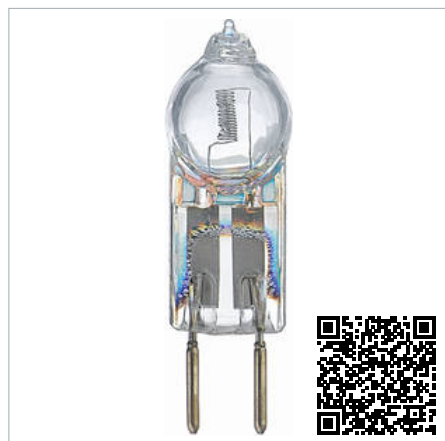
## Aluline 12V

Bulb	Lamp Wattage	Cap-Base	Bulb Finish		Luminous Intensity	Rated Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(W)			(°)	(cd [max.])	(h)						
R37	20	BA15d	Clear	6	6,400	2,000	B	1	ICT / 10X5F	50	6433	<b>40194660</b>
R37	20	BA15d	Clear	18	1,500	2,000	B	1	ICT / 10X5F	50	6434	<b>40195360</b>
R37	20	BA15d	Frosted	32	350	2,000	C	1	ICT / 10X5F	50	6435FR	<b>40935560</b>
R56	50	SBC	Clear	10	12,000	2,000	B	2	ICT / 10X5F	50	6438	<b>40200460</b>

07



## MASTERCapsule



## Product Description

- MASTERCapsule with EcoBoost technology: halogen capsule, 40% more energy saving than standard capsule

## 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

## 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

## Environment

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

## Application

- Replacement for standard capsules in most professional and semi-professional applications
- Indoor lighting (e. g. hotels, restaurants, offices)
- Enclosed fixtures required for outdoor applications

## MASTERCapsule GY6.35 12V IR Coated

Lamp Wattage	Lamp Luminous Flux	Rated Lifetime		Packing type/Packing configuration		National Order Code	Ordering number 8727900...
(W)	(lm)	(h)					
20	420	4,000	B	1CT / 5X10F	50	18160	20353070
30	750	4,000	B	1CT / 5X10F	50	18161	20354770
45	1,250	4,000	B	1CT / 5X10F	50	18162	20355470
60	1,700	4,000	B	1CT / 5X10F	50	18163	20356170

## Capsuleline



## Product Description

- Single-ended low-voltage halogen capsule giving crisp white halogen light

## Product Benefits

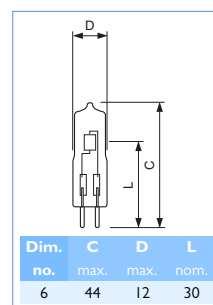
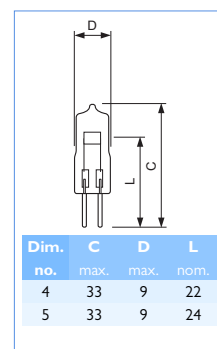
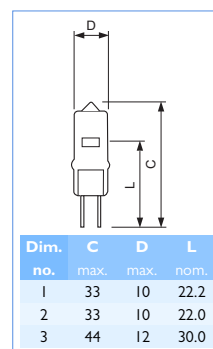
- Low-pressure technology allows use in luminaires without front glass

## Product Features



- Sturdy, low-pressure lamps with UV-Block glass (IEC 357)
- Gas-filled ( $\leq 2.5$  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

## Application

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

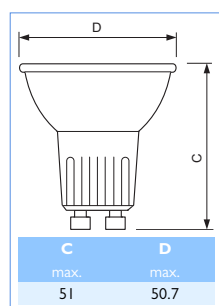


## Capsuleline Clear

Lamp Wattage	Cap-Base	Voltage	Lamp Luminous Flux	Rated Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
(W)		(V)	(lm)	(h)						
10	G4	12	100	2,000	C	1	ICT / 10X10F	100	14565	<b>41298050</b>
10	G4	12	140	4,000	C	4	ICT / 10X10F	100	13284Q	<b>40970650</b>
20	G4	12	255	2,000	C	2	ICT / 10X10F	100	14566	<b>41299750</b>
20	G4	12	310	4,000	C	4	ICT / 10X10F	100	13078	<b>40210350</b>
20	G4	24	300	4,000	C	5	ICT / 10X10F	100	13091	<b>40962150</b>
20	GY6.35	12	300	4,000	C	6	ICT / 10X10F	100	13104	<b>40219650</b>
35	GY6.35	12	600	4,000	C	6	ICT / 10X10F	100	13103	<b>40218950</b>
50	GY6.35	12	850	2,000	C	3	ICT / 10X10F	100	14567	<b>41295950</b>
50	GY6.35	12	880	4,000	C	6	ICT / 10X10F	100	13102	<b>40217250</b>
75	GY6.35	12	1,400	4,000	C	6	ICT / 10X10F	100	13101	<b>40216550</b>
100	GY6.35	12	1,850	4,000	D	6	ICT / 10X10F	100	13100	<b>40215850</b>



## Twistline Alu 2,000 hours



## Product Description

- Mains-voltage 50 mm diameter reflector lamp with aluminium reflector

## 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

## 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

## Application

- Typically used for accent lighting in homes
- Also used in accent and general lighting in shops, hotels, restaurants, bars etc.

## Twistline Alu 2000h GU10 240V Clear

Lamp Wattage		Luminous Intensity	Rated Lifetime		Packing type/Packing configuration		National Order Code	Ordering number
(W)	(°)	(cd [max.])	(h)					8711500...
35	40	300	2,000	D	ICT / 50	50	18042	<b>65280565</b>
50	20	1,000	2,000	D	ICT / 10X5F	50	18073	<b>42850960</b>
50	40	600	2,000	D	ICT / 10X5F	50	14605MP	<b>41261460</b>

07



## 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 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

## Product Features

- Superior quality of light with excellent colour rendering ( $R_a = 100$ )
- Mains-voltage lamp, no transformer needed
- Universal burning position
- Instant start

## 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 max.	D max.
1	95.5	56

Dim. no.	C max.	D max.
2	97	56

Dim. no.	C max.	D max.
3	97	56

Dim. no.	C max.	D max.
4	95.5	56

## EcoClassic 240V Clear

Bulb	Lamp Wattage (W)	Cap-Base	Lamp Luminous Flux (lm)	Rated Lifetime (h)	Energy Efficiency Class	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
A55	28	BC	370	2,000	D	1	ICT / 10	28BCECO30A55	25285925
A55	28	ES	370	2,000	D	2	ICT / 10	28ESECO30A55	25283525
A55	42	BC	630	2,000	D	1	ICT / 10	42BCECO30CLA55	25187625
A55	42	ES	630	2,000	D	2	ICT / 10	42ESECO30CLA55	25179125
A55	53	BC	850	2,000	D	1	ICT / 10	53BCECO30CLA55	25188325
A55	53	ES	850	2,000	D	2	ICT / 10	53ESECO30CLA55	25180725
A55	105	ES	1,980	2,000	D	3	ICT / 10	105ESECO30CLA55	25182125
A55	105	BC	1,980	2,000	D	4	ICT / 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 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

## Product Features

- Superior quality of light with excellent colour rendering ( $R_a = 100$ )
- Mains-voltage lamp, no transformer needed
- Universal burning position
- Instant start

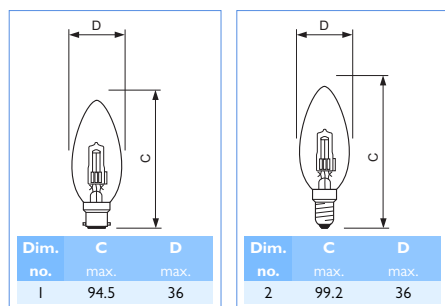
## Environment

- 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





## EcoClassic 240V Clear

Bulb	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Rated Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(W)		(lm)	(h)						
B35	18	BC	204	2,000	D	1	ICT / 15	15	18WB22ECOCLAS30	86264500
B35	18	SES	204	2,000	D	2	ICT / 15	15	18WSECOCLAS30	86268300
B35	28	BC	370	2,000	D	1	ICT / 15	15	28BCCECO30CL	25273620
B35	28	SES	370	2,000	D	2	ICT / 15	15	28SECECO30CL	25271220
B35	42	BC	630	2,000	D	1	ICT / 15	15	42BCECO30B35CL	82050800
B35	42	SES	630	2,000	D	2	ICT / 15	15	42SESECO30B35CL	82062100

## 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 Benefits

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

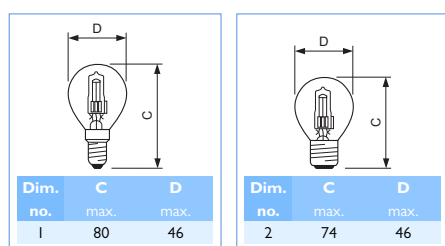
- Creates an attractive ambience
- Dimmable

## Product Features

- Superior quality of light with excellent colour rendering ( $R_a = 100$ )
- Mains-voltage lamp, no transformer needed
- Universal burning position
- Instant start

## Application

- Accent and general lighting applications in homes, offices, shops, hotels and restaurants. Replacement for traditional bulb in classical luminaires



## EcoClassic 240V Clear

Bulb	Lamp Wattage	Cap-Base	Lamp Luminous Flux	Rated Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(W)		(lm)	(h)						
P45	28	SES	370	2,000	D	1	ICT / 20	20	28SESECO30P45CL	83579300
P45	28	ES	370	2,000	D	2	ICT / 20	20	28WE27ECOC-GOLF	86300001
P45	42	ES	630	2,000	D	2	ICT / 20	20	42WE27ECOC-GOLF	86371000

Plusline Large (double ended)



Product Description

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

Product Benefits

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

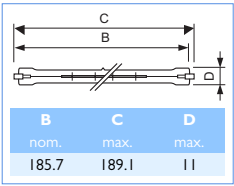
Product Features

- 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

Application

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



Plusline Large R7s 240V Clear

Lamp Wattage	Lamp Luminous Flux	Rated Lifetime		Packing type/Packing configuration		National Order Code	Ordering number
(W)	(lm)	(h)					871 1500...
1,000	21,500	2,000	C	ICT / 10	10	K4	05597225





## Touring/Stage ↗



## DJ/Club



## Helios Cinema Xenon



## Infrared Lamps



## MSR



## Product Description

MSR – bright vivid colours, always  
The high colour rendering index of the single ended MSR series ensures that everyone in the audience can enjoy the true colours of the scenery, the stage props, the players and their costumes – in fact everything that is on stage can be made bright and vivid in daylight quality light. Also, thanks to the single ended lamp concept, the luminaire has optimal light collection and direction possibilities to help ensure brightness on stage exactly where and when it is needed. In addition, the MSR can be used in any burning position for easy set-up and convenience.

## Product Benefits

- High luminous efficacy
- Compact arc (6-10 mm)
- Good colour rendering
- Dimmable with a stable colour temperature

## Product Features

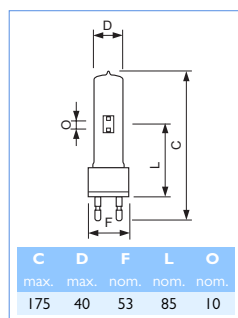
- Run-up time 2 minutes
- Restrike time 5-10 minutes, depending on cooling conditions

## Application

- Studios and discos

## System

- Can be operated on an electronic power supply or a magnetic ballast-ignitor combination



C	D	F	L	O
max.	max.	nom.	nom.	nom.
175	40	53	85	10

Type	Rated Lamp Wattage	Cap-Base	Colour Temperature	Lamp Luminous Flux EM	Lamp Current	Burning Position	Packing type/ Packing configuration	Ordering number
	(W)		(K)	(lm)	(A)			8727900...
MSR	1,200	G22	7,200	110,000	13.8	any	ICT / 3	91133600

## MSR Short Arc



## Product Description

MSR Short Arc – for longer life  
The lamp's short arc and compact design helps enable a compact luminaire that provides high beam intensity, while the excellent colour rendition characteristics help ensure optimal colours on stage. The highly innovative P3 technology, developed by Philips, allows MSR Short Arc lamps to be used at higher temperatures in any burning position. The result? Longer lifetime, fewer early failures and a highly consistent performance throughout the lamp's lifetime.

## Product Benefits

- High luminous efficacy
- Very compact arc
- Good colour rendering

## Product Features

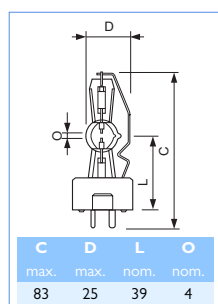
- Run-up time max. 2 minutes
- Restrike time 5-10 minutes, depending on cooling conditions
- Non-dimmable

## Application

- Entertainment


## System

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



C	D	L	O
max.	max.	nom.	nom.
83	25	39	4



Type	Rated Lamp Wattage	Cap-Base	Colour Temperature	Lamp Luminous Flux EM	Lamp Current	Burning Position	Packing type/ Packing configuration		Ordering number
	(W)		(K)	(lm)	(A)				8718291...
MSR	700	GY9.5	5,600	55,000	11	any	ICT / 4	4	<b>22802800</b>

## MSR Gold™ SA Double Ended

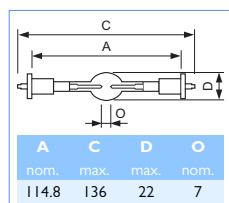
**MSR Gold™ SA Double Ended – for extended performance**


To optimize the total lifetime of the double ended MSR Gold™ SA Double Ended lamps, the caps are plated with gold. This provides superior heat protection and thereby minimizes premature failure of the lamp and lamp holder, as well as ensuring extended consistent performance. In addition, the highly innovative P3 technology, developed by Philips, allows the lamp to be used at higher temperatures, which further extends service life and consistency of high-quality light output.

- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
- Pure, white light; colour point close to black body line. Consistent colour impression over MSR Range
- Reduces early lamp or lamp holder failures

**Product Features**

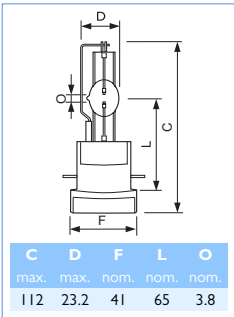
- Philips Pinch Protection
- MSR filling
- Gold plated lamp caps



Type	Rated Lamp Wattage	Cap-Base	Colour Temperature	Lamp Luminous Flux EM	Lamp Current	Burning Position	Packing type/ Packing configuration		Ordering number
	(W)		(K)	(lm)	(A)				8718291...
MSR Gold™ GOLD	1,200	SFC10-4	6,000	106,000	13.6	any	ICT / 4	4	<b>22121000</b>



MSR Gold™ FastFit



MSR Gold™ FastFit – easy lamp replacement in seconds

All lamps burn out eventually, but when this happens with single ended MSR Gold™ FastFit, it is replaced in seconds – thanks to the specially designed lamp base and lamp holder. This lamp provides a high beam intensity of pure, white light for a truly illuminating performance, while the gold-plated caps provide superior heat protection and prevent premature failure. P3 technology allows use in any position and at higher temperatures, further extending lamp life and consistency of high-quality light output. Also, because the FastFit design is applied to Philips Halogen lamps, switching between lamp technologies can be done quickly and easily.

The Philips MSR Gold™ I,200 FastFit can be operated in a lamp wattage range between 800 W and I,400 W.

- Lamp replacement in just seconds, exchangeable with halogen lamp

- High beam intensity
- Easy handling, smaller and lighter fixtures possible
- Boostable light levels
- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
- Reduces early lamp or lamp holder failures. Excellent current transfer
- Pure, white light; colour point close to black body line

Product Features

- Philips FastFit
- Very short arc
- Compact design
- Flexible power range
- Philips pinch protection
- Innovative gold plated pins
- MSR filling

System

- The Philips MSR Gold™ I,200 FastFit can be operated in a lamp wattage range between 800 W and I,400 W.

Type	Rated Lamp Wattage	Cap-Base	Colour Temperature	Lamp Luminous Flux EM	Lamp Current	Burning Position	Packing type/ Packing configuration	Ordering number
	(W)		(K)	(lm)	(A)			8718291...
MSR Gold™ GOLD	700	PGJX50	6,000	50,000	10.2	any	ICT / 4	4 22119700

MSD



Product Description

MSD – right light, stage bright  
These single ended, compact lamps enable optimal light collection and accurate beam control, while they also provide true daylight colour temperatures – all to create great stage brightness and vivid entertainment. And since they offer long lifetime usage they help minimize the cost of ownership via fewer lamp replacements and fewer maintenance man hour costs.

Product Benefits

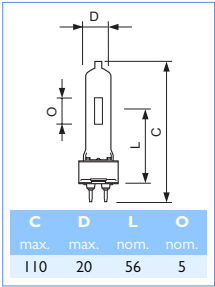
- Optimal light collection
- Low cost of ownership
- Brightness on stage


Product Features

- Long lifetime
- Compact arc
- Good colour rendering
- Universal burning position

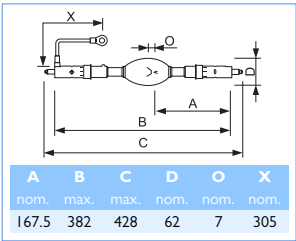
Application

- Studio and disco lighting



Type	Rated Lamp Wattage	Cap-Base	Colour Temperature	Lamp Luminous Flux EM	Lamp Current	Burning Position	Packing type/ Packing configuration		Ordering number
	(W)		(K)	(lm)	(A)				8727900...
MSD /2	150	G12	8,500	10,500	1.85	any	ICT / 40	40	91571600

HEH (Helios standard)



Helios Standard Cinema Xenon lamps

These drop-in replacement lamps consume the same electrical energy as standard lamps, yet significantly increase the light output on the screen. This means they can be used to upgrade projection performance without actually purchasing a new projector. Alternatively, these lamps allow use of a lower wattage lamp while maintaining the light output on screen, which means they can be used to reduce power consumption and lower the overall cost of ownership of a cinema projector. In addition, since they are 'drop-in' replacements, no lamp housing modifications and no lens changes are required. There is a choice of five power ratings in the Helios Standard Cinema Xenon lamps range: 2,000 W, 2,500 W, 3,000 W, 4,200 W, or 7,000 W.

Product Benefits

- Avoid upgrading older equipment
- Can reduce power consumption and lower cost of ownership
- No lamp house modifications
- No lens change required

Product Features

- Can increase light output on screen at same lamp wattage\*
- Can allow use of smaller wattage lamp while maintaining light output on screen\*
- Drop-in replacement for standard lamps

\* As there are many variations in equipment type and condition, as well as in lamp types, these improvements cannot be guaranteed. Philips encourages customers to test Helios lamps against their current lamps and see for themselves the benefits.

Type	Rated Lamp Wattage	Lamp Voltage	Lamp Luminous Flux	Lamp Current	Burning Position	Packing type/ Packing configuration	Ordering number
	(W)	(V)	(lm)	(A)			8727900...
LTIX Helios Standard lamp	4,200	29	190,000	140	hor/ver20	UNP / I I	30206600

## 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.

## 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.

## 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.

## 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.

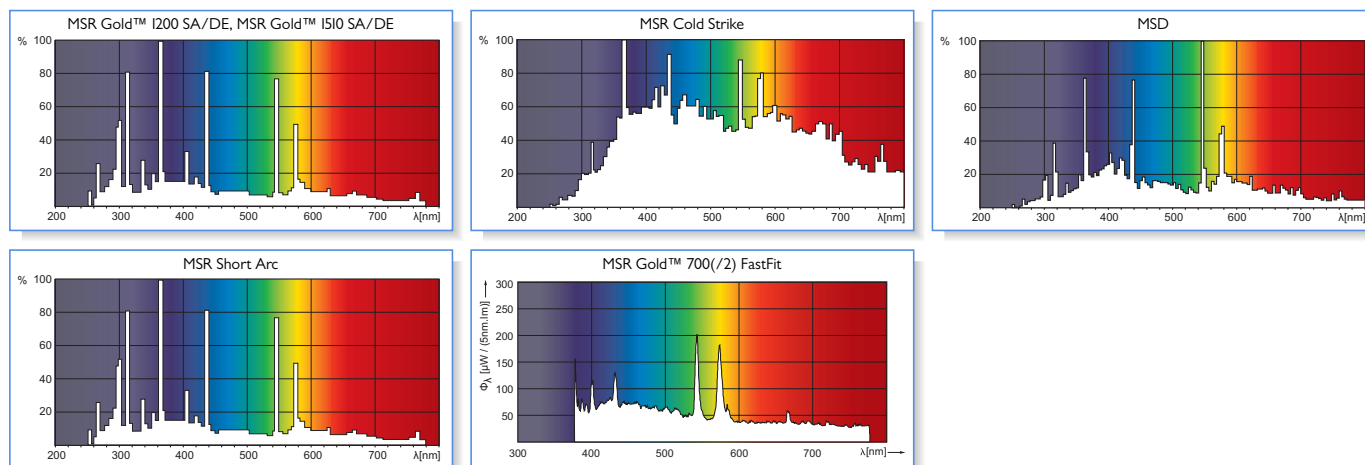
Dim. no.	C max.	C1 max.	D nom.	Dim. no.	C max.	C1 max.	D nom.
1	136	124	121	2	179	125	125

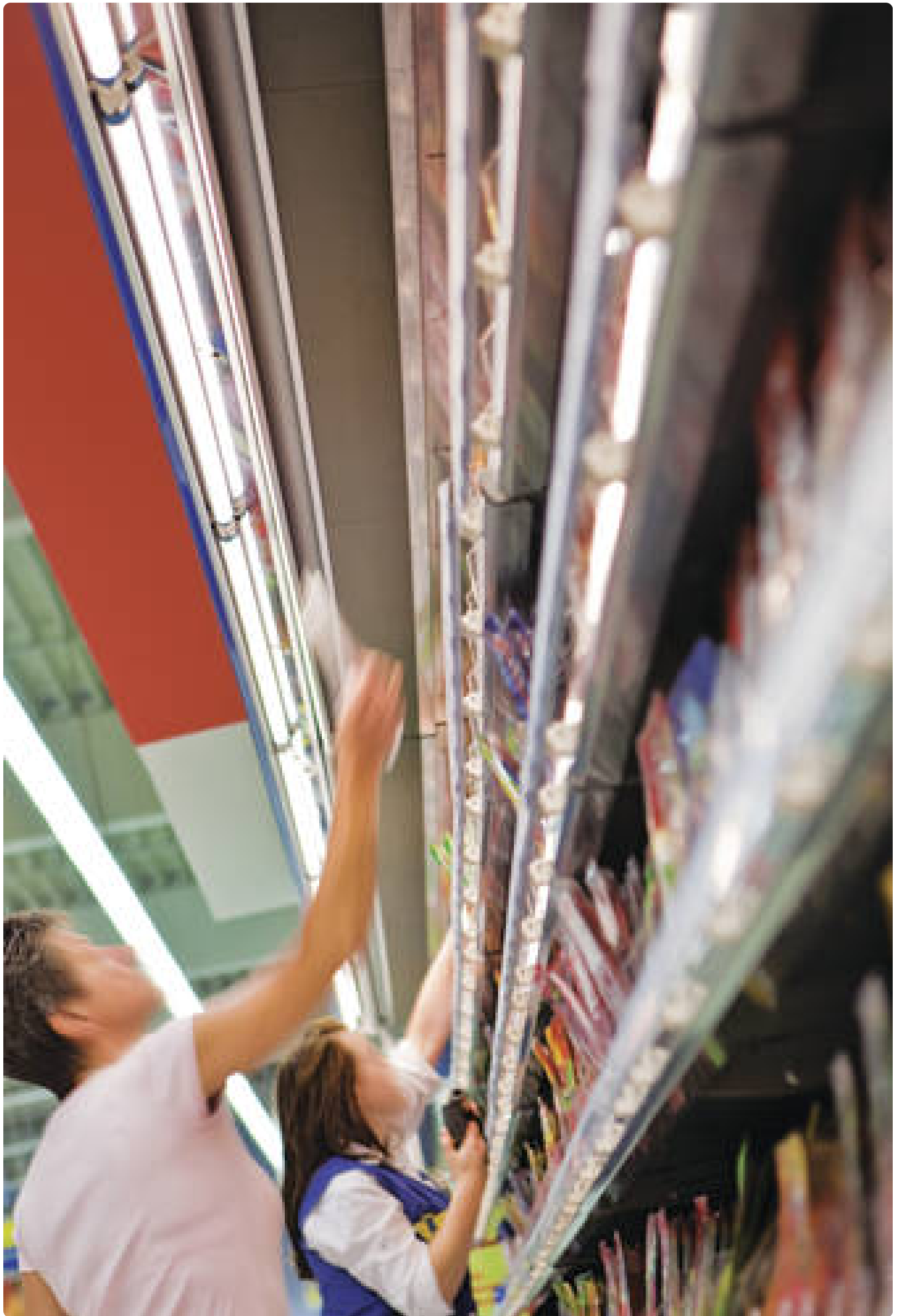
Type	Lamp Wattage (W)	Cap-Base	Voltage (V)	Bulb Finish	Burning Position	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
PAR38 IR	100	ES	240	Clear	any	1	ICT / 12 12	IR100C	<b>128935</b> / 5
PAR38 IR	175	ES	240	Clear	any	1	ICT / 12 12	IR175C	<b>128959</b> / 5
R125 IR	250	ES	230-250	Clear	any	2	ICT / 10 10	IR250CH	<b>126498</b> 25
R125 IR	300	ES	230-250	Clear	any	2	ICT / 10 10	IR300CH	<b>126566</b> 25





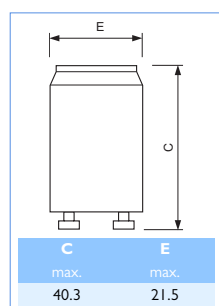
## Spectral power distribution







## Ecoclick Starters



## Product Description

- Range of premium-quality glow switch starters for igniting fluorescent lamps with electromagnetic ballast.

## 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)

## 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

## Application

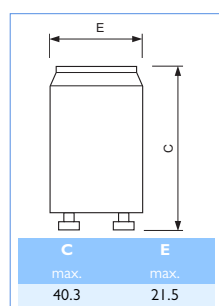
- Ignite fluorescent lamps of all brands with conventional electromagnetic ballast using TL-D (T8), TL (T12), TL mini and PL-L lamps
- S2 Ecoclick starters are suitable for:
  - I10/I30 V, 4-22 W single applications
  - 220/240 V, 4-6-8-15-18-22 W single applications
  - 220/240 V, 4-22 W series applications
- S10 Ecoclick starters are suitable for 220/240 V, 4-65 W single applications
- S10 Ecoclick starter is required for 220/240 V, 13 W single application
- S2 Ecoclick starter is recommended for 220/240 V, 18 W single application for optimum performance

## System

- Starter replacement recommended when replacing fluorescent lamps

Type	Lamp Wattage (W)	System Description	Voltage (V)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
S2	4-22	Series	220-240	UNP / 1,000	1,000	S21000W	<b>69750928</b>
S2	4-22	Series	220-240	INO / 20X10CT	200	S210W	<b>69750931</b>
S10	4-65	Single	220-240	UNP / 1,000	1,000	S101000W	<b>69769128</b>
S10	4-65	Single	220-240	INO / 20X10CT	200	S1010W	<b>69769131</b>

## 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 Benefits

- Easy to install (click and switch)
- Safe ignition
- Eco-friendly

## Product Features

- Narrowed starter shape and two extra notches (patented innovation)
- Flame-retardant components and UV-resistant canister
- Lead-free, and no radioactive substances

## 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~, I5-20 W, Single application
- Bodytone Starter I5-20 W - 220-240 V~, I5-20 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



Type	Lamp Wattage (W)	System Description	Voltage (V)	Packing type/Packing configuration		National Order Code	Ordering number 8711500...
S12	115-140	Single	220-240	UNP / 20X25CT	500	S12250WBNEW	<b>90379226</b>
S16	70-125	Single	240	UNP / 1,000	1,000	S161000WNEW	<b>90356328</b>
S16	70-125	Single	240	UNP / 20X10CT	200	S1610WBNEW	<b>90356331</b>





## GLS Specialties



Standard Extra Low Voltage  
A60 I54

## Domestic Appliances ↗



Appliance Oven Tubular I55



Appliance Oven P45 I55

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



Reflector diam 50 mm I56



PAR38 I56



PAR56 I57



## Standard Extra Low Voltage A60



## Product Description

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

## Product Benefits

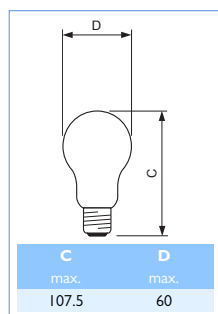
- Provide the perfect light for dramatic accents and display lighting as well as general lighting in a variety of applications
- Gas-filled lamp has a clear glass are ideally suited for remote, isolated areas where energy has to be supplied by private generating plants, batteries or other low-voltage sources
- Used when brilliance is an advantage

## Product Features



- Types till 42 V are safer in combination with a mains power supply transformer

## Application

- Rural and isolated areas where mains power supplies are not available
- Emergency lighting installations



## Standard ELV ES Clear 50V

Bulb	Lamp Wattage (W)	Nominal Lifetime (h)		Packing type/Packing configuration		National Order Code	Ordering number 8711500...
A60	40	1,000	D	ICT / 12X10F	120	5040ESCP	<b>10156384</b>
A60	60	1,000	D	ICT / 12X10F	120	5060ESCP	<b>10188484</b>





## Appliance Oven Tubular



## Product Description

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

## Product Benefits

- Reliable operation when used in special lampholders at high oven temperatures (up to 300 °C)

## Product Features

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

## 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 max.
1	49	22
2	57	25

## Appliance SES Clear 230-240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Nominal Lifetime		Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(W)	(lm)	(h)						
T22	15	90	1,000	E	1	ICT / 10X10F	100	15SESOZP	<b>03659950</b>
T25	25	172	1,000	E	2	ICT / 10X10F	100	25SESOZP	<b>03871550</b>

## Appliance Oven P45



## Product Description

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

## Product Benefits

- Reliable operation when used in special lampholders at high oven temperatures (up to 300 °C)

## Product Features

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

## 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.
75	45

## Appliance SES Clear 240V

Bulb	Lamp Wattage	Lamp Luminous Flux	Nominal Lifetime		Packing type/Packing configuration		National Order Code	Ordering number 8711500...
	(W)	(lm)	(h)					
P45	40	420	1,000	E	ICT / 10X10F	100	40SESOZ	<b>03545550</b>



Reflector diam 50 mm

**Product Description**

- Reflector lamps based on advanced spotlighting technology

**Product Benefits**

- Centre-beam intensities up to 100% higher than with conventional reflector lamps

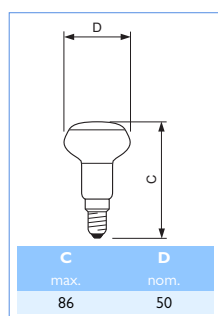
**Product Features**

- 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

**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



Reflector SES Frosted 240V

Bulb	Lamp Wattage		Luminous Intensity	Nominal 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

PAR38

**Product Description**

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

**Product Benefits**

- Produces the same useful light as conventional PAR lamps at 20% lower energy

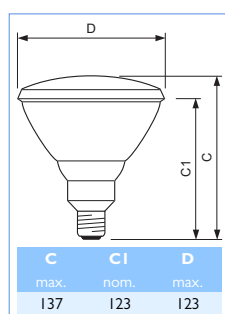
**Product Features**

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




**Application**

- Can be used indoors and outdoors, or wherever blown-bulb reflector lamps would be too vulnerable

- Indoors: shops, window displays, homes, hotels, restaurants, theatres, museums, exhibitions and buildings
- Outdoors: floodlighting, advertising signs, buildings, statues, podiums, sports grounds, parks and gardens
- Can be installed outdoors without any protection, provided they are used in a watertight lampholder
- For outdoor use, a heat-resistant rubber ring must be fitted between the lamp and the lampholder



## PAR38 ES 24V

Bulb	Lamp Wattage	Beam Description		Luminous Intensity (cd [max.])	Nominal Lifetime (h)		Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(W)		(°)							
PAR38	120	Spot	10	23,000	2,000	C	ICT / 12	12	24/20ESPAR38	38073915

## PAR56



## Product Description

- Extremely powerful pressed-glass 179 mm diameter reflector lamps

## Product Benefits

- For indoor and outdoor use wherever high illuminance levels are required




## 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)

## 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

## PAR56 Multipurpose 12V

Lamp Wattage		Luminous Intensity	Nominal Lifetime		Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
(W)	(°)	(cd [max.])	(h)					
300	40	16,000	1,000	C	ICT / 8	8	12300PAR56FL	15969442





HID Electronic Indoor ↗



HID Electronic Outdoor ↗



Controllers ↗



HID Electromagnetic ↗



Ignitors ↗



HID-Constant wattage BSX for SOX 183



HID ignitors for series systems 184



HID ignitors for MK4 semi-parallel systems 185

Fluorescent Dimming gear ↗



HF-Regulator Intelligent Touch DALI for PL-T/C and TL5C 186



HF-Regulator Intelligent Touch DALI for TL5/TL-D/PL-L lamps 187



HF-Regulator II Touch DALI for PL-T, PL-C and PL-R lamps 188



HF-Regulator II for TL5 lamps 189



HF-Regulator II for TL-D lamps 190



HF-Regulator II for PL-L lamps 191



HF-Regulator II for PL-T/C 192

Fluorescent Fixed Output gear ↗



HF-Performer Intelligent for TL5 HE/HO lamps 193



HF-Performer III for TL5 lamps 194



HF-Performer III for TL-D lamps 195



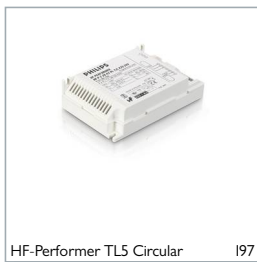
HF-Performer II (flat) for TL5 lamps 195



HF-Performer II for TL-D lamps 196



HF-Performer II Xtreme for TL5/TL-D lamps 197



HF-Performer TL5 Circular 197



HF-Performer III for PL-L lamps 198



HF-Performer III for PL-T/C lamps 199



HF-Performer II for PL-T/C/R/L/TL5C lamps 200

Halogen electronic transformers ↗



HF-Matchbox Red 201



HF-Matchbox Blue 201

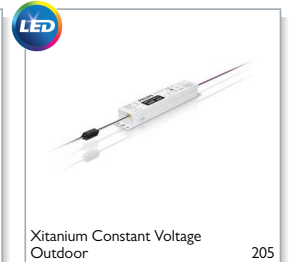


Primaline Halogen Transformers 203



Certaline Halogen Transformers 203

LED Electronic Drivers ↗



Xitanium Constant Voltage Outdoor 205



Xitanium/Fortimo LED Drivers Indoor 206



Xitanium Constant Current Outdoor 206



Xitanium Constant Current Xtreme 207



Xitanium/Fortimo LED Drivers indoor dimmable 208



Xitanium LED Driver Indoor Dimmable 208

## 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 Benefits

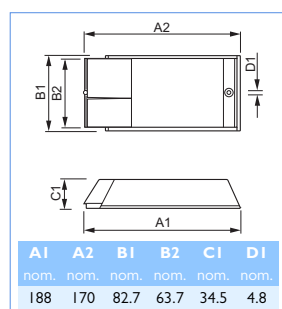
- Dim and boost Elite Light Boost lamps for energy saving and attraction lighting
- SOFTSTART allows installation with fewer circuit breakers
- Loop Through allows faster, cost-efficient installation

## Product Feature

- DALI interface
- SOFT START feature
- Loop Through feature
- Improved thermal performance
- Voltage Drop Detection

## Applications

- 70 W: accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Packing type/ Packing configuration	National Order Code	Ordering number
	(V)	(Hz)	(x)	(h)			8727900...
HID-AV C DALI 70 /1 CDM	220-240	50/60	32	40,000	INO / 12 12	HIDAVCDALI70	94400600

## AspiraVision Compact for CDM



## AspiraVision Compact (35, 50 &amp; 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 Benefits

- SOFT START allows installation with fewer circuit breakers; Loop Through allows faster, cost-efficient installation
- Longer lifetime

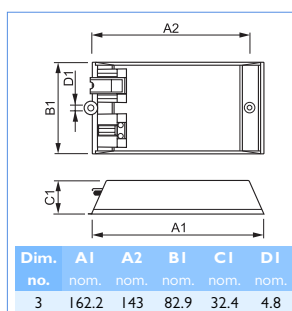
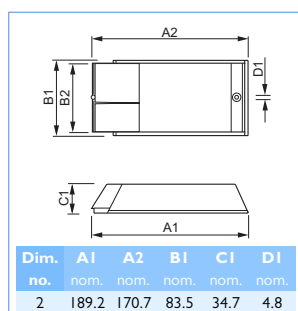
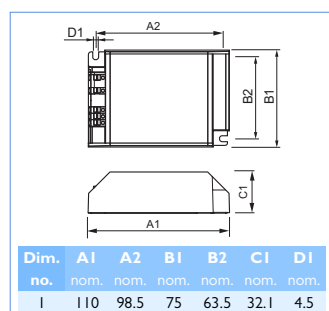
- Driver can be set to 35, 50 or 70 W with the integrated switch, which means there is no need to replace the driver if the installation requires lower or higher-wattage lamps in the future

## Product Features

- SOFT START
- Loop Through (in independent version)
- Improved thermal performance
- Low electromagnetic interference
- Voltage drop detection

## Applications

- Accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only





Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @TcaseLife	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
	(V)	(Hz)	(x)	(h)					
HID-AV C 35-70 /S CDM	220-240	50/60	58	40,000	1	INO / 12	12	HIDAVTW3570S	<b>23310700</b>
HID-AV C 35-70 /I CDM	220-240	50/60	58	40,000	2	INO / 12	12	HIDAVTW3570I	<b>23312100</b>
HID-AV C 35-70 /C CDM	220-240	50/60	58	40,000	3	INO / 12	12	HIDAVTW3570C	<b>23314500</b>

## PrimaVision Compact for CDM



## High quality and robust performance

High-quality, compact and lightweight HID electronic gear for optimal and reliable performance of 20, 35, 50 and 70 W CDM lamps

## Product Benefits

- Optimal lamp performance thanks to minimal lamp power tolerance
- CDM lamp life increased by up to 30%
- Eliminates all visible lamp flicker

## 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

## Applications

- 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	162.2	143	83	32.4	4.8	

Dim. no.	A1	A2	B1	B2	C1	D1
2	188	170	82.7	34.5	4.8	

Dim. no.	A1	A2	B1	B2	C1	D1
3	188	170	82.7	34.5	4.8	

Dim. no.	A1	A2	B1	B2	C1	D1
4	109.6	98.5	74.4	63.7	32.2	4.9
5	109.6	98.5	74.4		32.2	4.9

Dim. no.	A1	A2	B1	B2	C1	D1
6	106.6	98.5	71.6	63.7	29.6	4.9
7		98.5	71.6	63.7	29.6	4.9

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @TcaseLife	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number
	(V)	(Hz)	(x)	(h)					
HID-PV C 35 /C CDM	220-240	50/60	24		1	INO / 12	12	HIDPVC35C	8718291 <b>22857800</b>
HID-PV C 35 /G CDM	220-240	50/60	24	40,000	2	INO / 6	6	PVC35GCDM	8727900 <b>91642300</b>
HID-PV C 35 /I CDM	220-240	50/60	24	40,000	3	INO / 12	12	PVC035ICDM	8727900 <b>85973700</b>
HID-PV C 35 /S CDM	220-240	50/60	24	40,000	4	UNP / 12	12	PVC035SCDM	8727900 <b>85962100</b>
HID-PV C 35 /P CDM	220-240	50/60	24	40,000	6	UNP / 12	12	PVC035PCDM	8727900 <b>86554700</b>
HID-PV C 50 /C CDM	220-240	50/60	24		1	INO / 12	12	HIDPVC50C	8718291 <b>22845500</b>
HID-PV C 50 /S CDM	220-240	50/60	24	40,000	5	INO / 12	12	PVC050SCDM	8727900 <b>93363500</b>
HID-PV C 50 /P CDM	220-240	50/60	24	40,000	7	INO / 12	12	PVC050PCDM	8727900 <b>94338200</b>
HID-PV C 50 /I CDM	220-240	50/60	24	40,000	3	INO / 12	12	PVC050ICDM	8727900 <b>93365900</b>
HID-PV C 70 /G CDM	220-240	50/60	20	40,000	2	INO / 6	6	PVC70GCDM	8727900 <b>91644700</b>

More data see next page



(continued)

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number
	(V)	(Hz)	(x)	(h)					
HID-PV C 70 /S CDM	220-240	50/60	20	40,000	4	INO / 12	12	PVC070SCDM	872790085974400
HID-PV C 70 /P CDM	220-240	50/60	20	40,000	6	UNP / 12	12	PVC070PCDM	872790086553000
HID-PV C 70 /I CDM	220-240	50/60	20	40,000	3	INO / 12	12	PVC070ICDM	872790085988100

## PrimaVision Mini for CDM



## PrimaVision Mini (20 W, 35 W &amp; 50 W) for CDM - Miniature size to enhance creativity

Miniature HID electronic gear for PGJ5 CDM lamps – freeing up the boundaries of creativity and innovation in luminaire design

## Product Benefits

- Miniaturization enables stylish luminaire design and retrofit halogen replacement
- Optimal lamp performance thanks to minimal lamp power tolerance
- Easy luminaire design-in

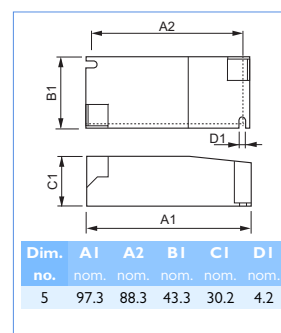
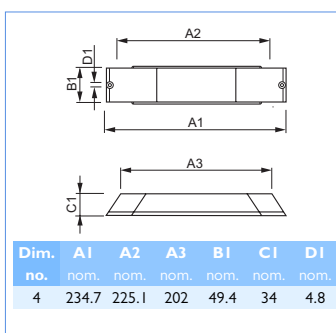
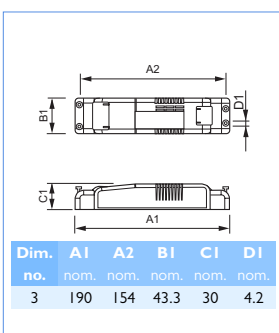
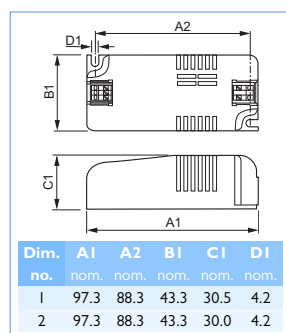
## Product Features

- 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

## Applications

- 20/35/50 W accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



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)					
HID-PV m PGJ5 35/S HPF CDM	220-240	50/60	24	1	INO / 12	12	PVM35S	872790088341100
HID-PV m PGJ5 20 LPF CDM	220-240	50/60	48	3	INO / 12	12	HIDPVMPGJ5020I	871150090981730
HID-PV m PGJ5 20 LPF CDM	220-240	50/60	36	2	INO / 12	12	HIDPVMPGJ5020S	871150053608230
HID-PV m 20 /I HPF CDM	220-240	50/60	24	4	UNP	10	PVM20IHPF	872790089060000
HID-PV m 20 /S HPF CDM	220-240	50/60	32	5	INO / 12	12	PVM20SHPF	871829167159600
HID-PV m 35 /S HPF CDM	220-240	50/60	24	5	INO / 12	12	PVM35S	871829167161900
HID-PV m 35/I HPF CDM	220-240	50/60	24	4	UNP	10	PVM35I	872790089164500

## PrimaVision Twin for CDM



## PrimaVision Twin (35 W &amp; 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 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

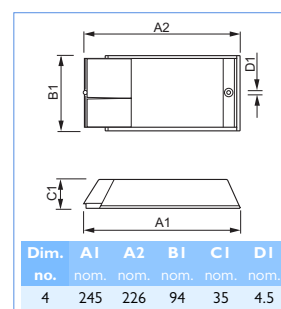
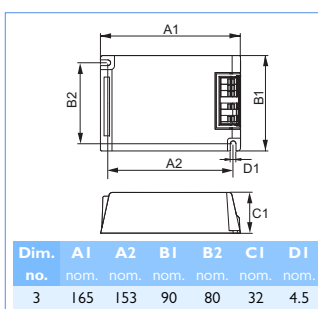
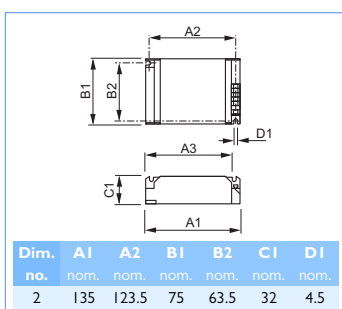
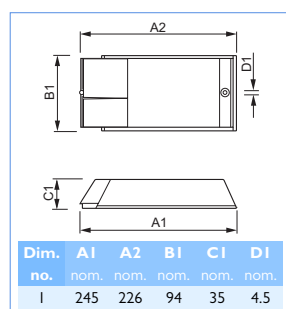
## Product features

- 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

## Applications

- 35 and 70 W: accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



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...
HID-PV C 2x35 /I CDM SOFT START	220-240	50/60	20	1	UNP / 6	6	PVC2X35ICDM	<b>89704300</b>
HID-PV C 2x35 /S Int. Earth Loop CDM	220-240	50/60	14	2	UNP / 12	12	PVC2X35SCDM	<b>89572800</b>
HID-PV C 2x70 /S CDM	220-240	50/60	10	3	UNP / 12	12	HIDPVC270S	<b>84579200</b>
HID-PV C 2x70 /I CDM SOFT START	220-240	50/60	10	4	UNP / 6	6	HIDPVC270I	<b>84580800</b>

## PrimaVision Power for CDM



## PrimaVision Power (100 W &amp; 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 Benefits

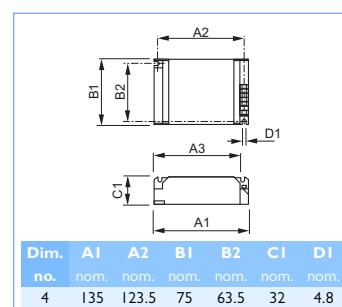
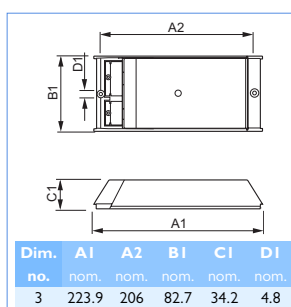
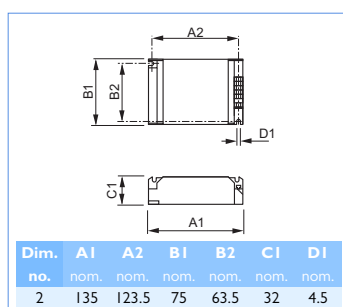
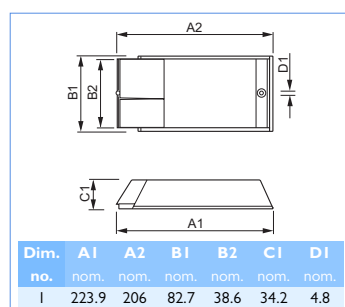
- Optimal lamp performance thanks to minimal lamp power tolerance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker

## 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

## Applications

- 100 and 150 W: high-bay area, accent and decorative lighting for shops, public spaces, lobbies and offices
- Suitable for indoor use only



Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number
	(V)	(Hz)	(x)	(h)					
HID-PV C 100 /I CDM	220-240	50/60	17	40,000	1	UNP / 10	10	PVC100ICDM	872790089951100
HID-PV C 100 /S CDM	220-240	50/60	17	40,000	2	UNP / 12	12	PVC100SCDM	872790089762300
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 Benefits

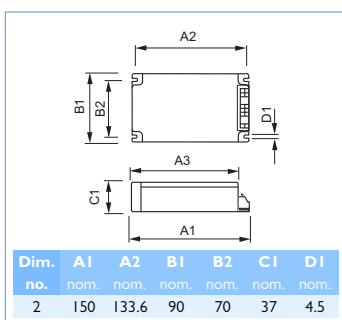
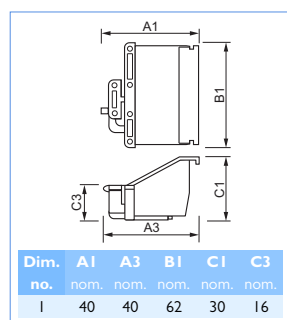
- Optimal lamp performance thanks to minimal lamp power tolerance
- Reduces colour differences between lamps and initial lumen spread
- Performance is independent of mains voltage

## 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

## 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



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)					
HID Strain Relief 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

## 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 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

## Product Features

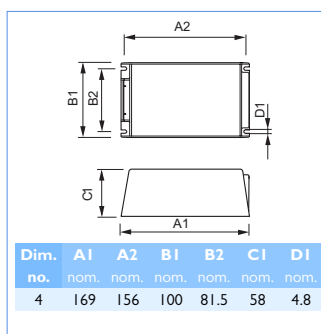
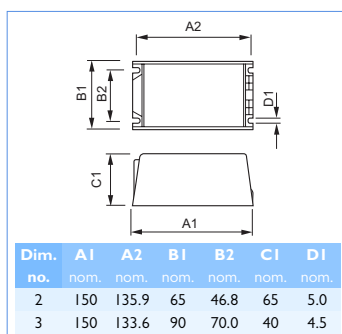
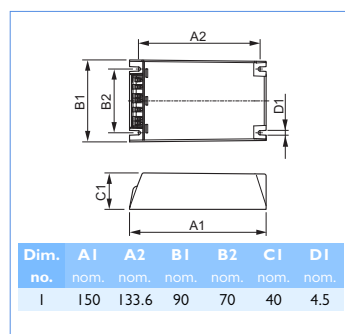
- Xtreme long lifetime of 80,000 hours, with minimum 90% survival at  $T_c = 80^\circ\text{C}$
- Xtreme lightning protection 10 kV/5 kA
- Xtreme protection against humidity and vibration
- Better lighting efficiency than magnetic ballasts
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

## Environment

- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

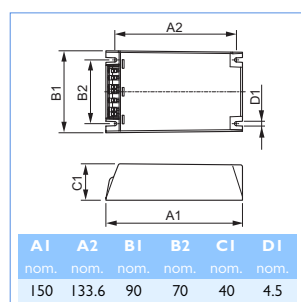
## Applications

- Residential lighting
- City beautification
- Road/highway lighting



Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number
	(V)	(Hz)	(h)				
HID-PV Xt 45 CPO	208-277	50/60	80,000	1	INO / 12 12	PVXT45CPOQ	8718291 <b>66896100</b>
HID-PV sXt 45 CPO	208-277	50/60	80,000	2	INO / 12 12	PVSTXT45CPO	8727900 <b>91585300</b>
HID-PV Xt 60 CPO	208-277	50/60	80,000	1	INO / 12 12	PVXT60CPOQ	8718291 <b>24143000</b>
HID-PV Xt 90 CPO	208-277	50/60	80,000	3	INO / 12 12	PVXT90CPOQ	8718291 <b>24145400</b>
HID-PV Xt 140 CPO	208-277	50/60	80,000	3	INO / 12 12	PVXT140CPOQ	8718291 <b>24147800</b>
HID-PV Xt 210 CDMe/CPO	208-277	50/60	80,000	4	INO / 6 6	PVXT210CDMCPO	8718291 <b>21993400</b>

## 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 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

#### 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

#### 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

Type	Line Voltage (V)	Line Frequency (Hz)	Lifetime 90% surv. @Tcaselife (h)	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
HID-DV LS-6 Xt 45 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT645CPOQ	<b>66906700</b>
HID-DV LS-8 Xt 45 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT845CPOQ	<b>66898500</b>
HID-DV LS-6 Xt 60 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT660CPOQ	<b>66908100</b>
HID-DV LS-8 Xt 60 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT860CPOQ	<b>66900500</b>
HID-DV LS-8 Xt 90 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT890CPOQ	<b>66902900</b>
HID-DV LS-6 Xt 90 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT690CPOQ	<b>66910400</b>
HID-DV LS-8 Xt 140 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT8140CPOQ	<b>66904300</b>
HID-DV LS-6 Xt 140 CPO	208-277	50/60	80,000	INO / 12	12	DVLSXT6140CPOQ	<b>66912800</b>

PrimaVision Xtreme for CDO

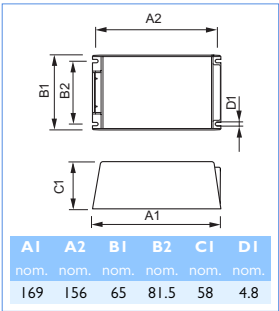


**Xtreme drivers for the highest reliability**  
Highly reliable electronic drivers for CDO lamps; designed to save energy by offering better light efficiency than magnetic drivers and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection

**Product 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
- Product Features**
- Xtreme long lifetime of 80,000 hours, with minimum 90% survival at Tc = 80 °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
- Applications**
- Residential lighting
  - City beautification
  - Road/highway lighting



Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Packing type/ Packing configuration		National Order Code	Ordering number
	(V)	(Hz)	(h)				8718291...
HID-PV Xt 250 C2 CDO	208-277	50/60	80,000	INO / 6	6	PVXT250CDO	22267500

PrimaVision Xtreme for SON

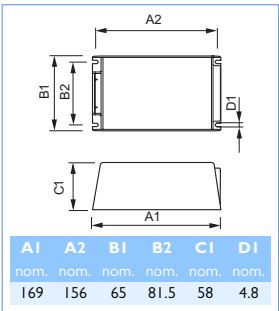


**Product Description**  
Highly reliable electronic drivers for SON lamps designed for saving energy via better light efficiency compared to magnetic drivers and for saving on maintenance costs thanks to a lifetime of up to 80,000 hours and the integrated Lightning protection.

**Product 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 Lighting (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)

- 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
- Applications**
- Residential lighting
  - City beautification
  - Road and highway lighting



Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
	(V)	(Hz)	(h)				
HID-PV Xt 250 SON	208-277	50/60	80,000	INO / 6	6	PVXT250SON	<b>22271200</b>

## 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 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

**Product Features**

- Up to 92% system efficiency

- Standard 4 kV/2 kV common/differential mode surge protection
- Xtreme lifetime 80,000 hours (90% survival  $T_c = 80^\circ\text{C}$ )
- Optional 5 kA / 10 kV lightning strike protection
- 95-97% accuracy on power stabilization if mains voltage remains between 180 and 300 V

**Environment**

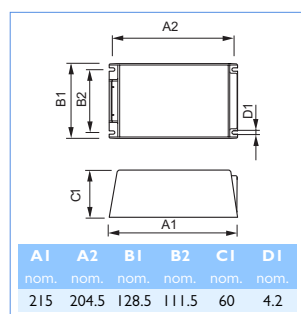
- RoHS compliant
- Limited carbon footprint helps you to play your role in conserving our planet

**Applications**

- 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



Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(V)	(Hz)	(h)				
HID-PV 315 /S CDM	220-240	50/60	50,000	UNP / 4	4	HIDPV315SCDMMW	<b>84311800</b>

## EXC for SOX

**HID-EXC for SOX**

Electronic drivers for SOX lamps; designed to save energy and reduce maintenance costs

**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

**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

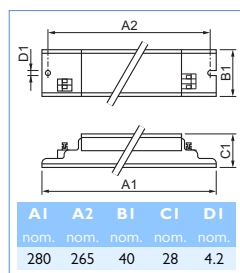
**Environment**

- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

**Applications**

- Residential lighting
- City beautification
- Road lighting





Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(V)	(Hz)	(h)				
EXC 35 EII SOX	220-240	50/60	50,000	UNP / 25	25	EXC035550	<b>06238330</b>
EXC 36 EII SOX-E	220-240	50/60	50,000	UNP / 25	25	EXC036550	<b>06240630</b>
EXC 55 EII SOX	220-240	50/60	50,000	UNP / 25	25	EXC055550	<b>06242030</b>

## 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 Benefits

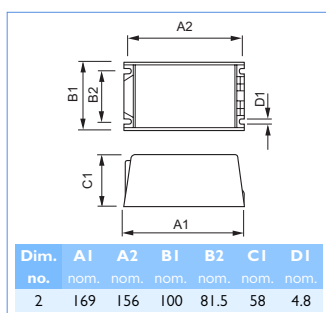
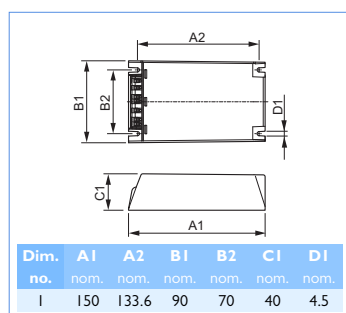
- Enables 2-way communication with the lighting network (via DALI)
- Up to 40% energy saving due to the integrated dimming options and very high driver efficiency
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

### 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

### Application

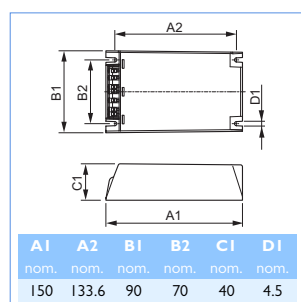
- Road lighting
- Residential lighting
- City beautification



Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Dim. no.	Packing type/Packing configuration		National Order Code	Ordering number 8718291...
	(V)	(Hz)	(h)					
HID-DV PROG Xt 50 Q CDO	208-277	50/60	80,000	1	INO / 12	12	DVPROGXT50CDOQ	<b>66916600</b>
HID-DV PROG Xt 70 Q CDO	208-277	50/60	80,000	1	INO / 12	12	DVPROGXT70CDOQ	<b>66918000</b>
HID-DV PROG Xt 100 Q CDO	208-277	50/60	80,000	1	INO / 12	12	DVPROGXT100CDOQ	<b>66920300</b>
HID-DV PROG Xt 150 Q CDO	208-277	50/60	80,000	1	INO / 12	12	DVPROGXT150CDOQ	<b>66922700</b>
HID-DV PROG Xt 250 C2 CDO	208-277	50/60	80,000	2	INO / 6	6	DVPROGXT250CDO	<b>22261300</b>



## 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 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

**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  $T_c = 80^\circ\text{C}$
- Xtreme lightning protection 10 kV/5 kA
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

**Application**

- Road lighting
- Residential lighting
- City beautification

Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
	(V)	(Hz)	(h)				
HID-DV PROG Xt 45 Q CPO	208-277	50/60	80,000	INO / 12	12	DVPROGXT45CPOQ	<b>66914200</b>
HID-DV PROG PROG Xt 60 Q CPO	208-277	50/60	80,000	INO / 12	12	DVPROGXT60CPOQ	<b>24149200</b>
HID-DV PROG PROG Xt 90 Q CPO	208-277	50/60	80,000	INO / 12	12	DVPROGXT90CPOQ	<b>24151500</b>
HID-DV PROG PROG Xt 140 Q CPO	208-277	50/60	80,000	INO / 12	12	DVPROGXT140CPOQ	<b>24153900</b>

## 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 Benefits**

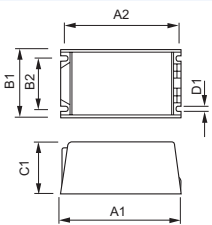
- Enables 2-way communication with the lighting network (via DALI)
- Up to 40% energy saving due to the integrated dimming options and very high driver efficiency
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

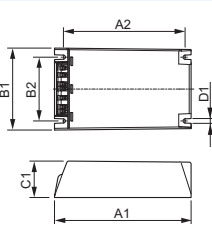
**Product Features**

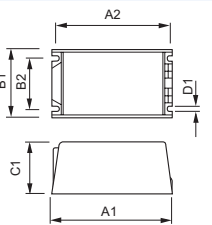
- Programmable by means of standard digital interface (DALI) and controllable via DALI protocol
- Integrates several control options (DynaDimmer, LineSwitch, AmpDim, Constant Light Output, Adjustable Light Output)
- Xtreme long lifetime of 80,000 hours with minimum 90% survival at  $T_c = 80^\circ\text{C}$
- Xtreme lightning protection 10 kV/5 kA
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range of 180-300 V

**Application**

- Road/highway lighting
- Residential lighting
- City beautification

						
Dim.	A1	A2	B1	B2	C1	D1
no.	nom.	nom.	nom.	nom.	nom.	nom.
1	150	133.6	90	70	40	4.5

						
Dim.	A1	A2	B1	B2	C1	D1
no.	nom.	nom.	nom.	nom.	nom.	nom.
2	150	133.6	90	70	40	4.5

						
Dim.	A1	A2	B1	B2	C1	D1
no.	nom.	nom.	nom.	nom.	nom.	nom.
3	169	156	100	81.5	58	4.8

Type	Line Voltage	Line Frequency	Lifetime 90% surv. @Tcaselife	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
	(V)	(Hz)	(h)				
HID-DV PROG Xt 50 SON	208-277	50/60	80,000	1	INO / 12	DVPROGXT50SONQ	<b>66924100</b>
HID-DV PROG Xt 70 SON	208-277	50/60	80,000	1	INO / 12	DVPROGXT70SONQ	<b>66926500</b>
HID-DV PROG Xt 100 SON	208-277	50/60	80,000	1	INO / 12	DVPROGXT100SONQ	<b>66928900</b>
HID-DV PROG Xt 150 SON	208-277	50/60	80,000	2	INO / 12	DVPROGXT150SONQ	<b>66930200</b>
HID-DV PROG Xt 250 SON	208-277	50/60	80,000	3	INO / 6	DVPROGXT250SON	<b>21991000</b>

## 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 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.)

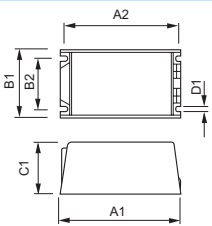
- Same energy consumption and smooth driving of the lamp regardless of fluctuations in the mains voltage

## 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<sub>c</sub> = 80 °C
- Lightning protection 10 kV/5 kA
- Accurate lamp power stabilization of 95-97% over wide mains-voltage range of 180-300 V

## Applications

- 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	Line Frequency	Lifetime 90% surv. @Tcaselife	Packing type/Packing configuration	National Order Code	Ordering number 8718291...
	(V)	(Hz)	(h)			
HID-DV PROG Xt 210 C2 CDMe/CPO	208-277	50/60	80,000	INO / 6	DVPROGXT210CDM	<b>22269900</b>

HID-PrimaVision CDM



HID-PrimaVision CDM - Xtreme drivers for the highest reliability

Compact, lightweight and easy-to-use highly reliable electronic gear for optimal performance of 35/70/100/150 W CDM lamps

Product Benefits

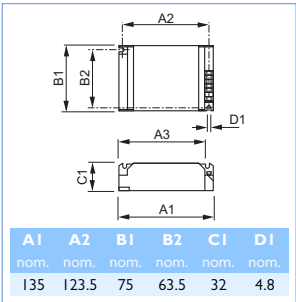
- Minimal lamp power tolerance results in optimal lamp performance
- Eliminates all visible lamp flicker
- Reduces color differences between lamps and reduces initial lumen spread
- Performance is independent of mains voltage
- Trouble-free installation and cabling with push-in contacts

Product Features

- available as a standard (/S) or PCB (/P) version for use in a luminaire
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 hours
- Push-in contacts

Applications

- 35/70/100/150 W: accent and decorative lighting for shops, public spaces, lobbies and offices
- 150 W for high ceilings
- For indoor use only



Type	Line Voltage	Line Frequency	Packing type/Packing configuration		National Order Code	Ordering number
	(V)	(Hz)				8711500...
HID-PV C 150 /S CDM	220-240	50/60	UNP / 12	12	HIDPVC150S	91052330

## Gear for SDW-T lamps



## Product Description

- CSLS electronic control unit with impregnated (HID "BASIC") or encapsulated (HID "Heavy Duty") electromagnetic ballasts

## Product Benefits

- Electronic control unit ensures reliable starting and stabilizes lamp power for optimum performance (minimum colour deviation)
- Simple installation and cabling

## 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')

## Applications

- Similar to those of the related lamps
- Climatic suitability:
  - CSLS + HID "BASIC": restricted to built-in situations under normal conditions
  - CSLS + HID "Heavy Duty": use in luminaires under humid conditions (not drip-proof)

## Warnings &amp; Safety

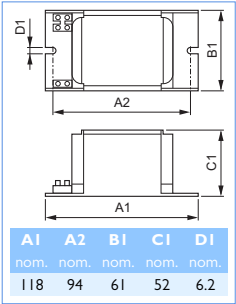
- Climatic suitability CSLS and HID BASIC: restricted to built in situations under normal conditions
- Climatic suitability CSLS and HID Heavy Duty: use in luminaires under humid conditions (not drip-proof)

Dim. no.	A1	A2	B1	C1	D1
1	123	98	61	52	6.2
2	118	94	61	52	6.2

Dim. no.	A1	A2	B1	B2	C1	D1
3	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
BSL 100 K307-TS	230/240	50	1	INO / 6	6	BSL100K307TS	872790094058900
BSL 50 K307-TS	230/240	50	2	INO / 6	6	BSL50K307TS	872790094039800
CSLS 100	220-240	50/60	3	UNP / 18	18	CSLS100	871150090870430
CSLS 35	220-240	50/60	3	UNP / 18	18	CSLS35	871150091112430
CSLS 50	220-240	50/60	3	UNP / 18	18	CSLS50	871150090808730

HID-DynaVision Control for SON



Product Description:

- HID-DynaVision Controller for combination with dimming ballast (BSH), electromagnetic ballast (BSN) and ignitor

Product Benefits

- 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

Product Features

- Dimming down to 35% system power
- I-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


Environment

- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

Applications:

- 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)

I-10V

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	6	BSH2540K30	94035000



## HID-High Power Basic for SON/MH/HPL

**Long-lasting, reliable solution**

Basic aluminum/iron ballasts for use with SON (T) (Plus), HPL, HPI and MH lamps with rated wattages of 1,000 W and above • Basic aluminum/iron ballasts for use with SON (T) (Plus), HPL, HPI and MH lamps with rated wattages of 1,000 W and above

**Product Benefits**

- Cost-effective high-performance solution
- Protected from overheating; outstanding product lifetime – 15 years on average
- Minimal watt losses, thanks to orthocyclic winding process

**Product Features**

- Aluminum wire ballasts exceeding copper performance

- Equipped as standard with screw terminal blocks
- Separate earth terminal
- Ballasts for alternative mains voltages/frequencies available on request

**Applications**

- Outdoor lighting (most popular application areas: sports and area lighting)

**System**

- Electromagnetic system demands ballast, ignitor and capacitor
- Series or semi-parallel or parallel circuit can be applied for HP Basic Ballasts. Ignitor and capacitor value according to system power can be found in lamp-ballast combination sheet

Dim. no.	A1	A2	A3	B1	B2	C1	D1
1	228	218	246	126	88	112	7.0
2	317	284	317	126	106	111	6.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8718291...
BSN 1000 L307-A	230/240	50	1	INO / I	BSN1000L307	11853400
BMH 2000 L5018-A	380-415	50	2	INO / I	BMH2000L5018	11851000

## 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 Benefits**

- 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

**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

**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

Technical drawing of a HID ballast showing dimensions A1, A2, B1, C1, and D1. The drawing includes a top view and a side view. The top view shows a rectangular body with a central mounting area. The side view shows the profile of the ballast, including the mounting base and the main body. Dimensions are labeled as follows: A1 is the total width, A2 is the width of the main body, B1 is the height of the main body, C1 is the height of the mounting base, and D1 is the diameter of the mounting base.

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	134	113	76	65	6.2
4	160	139	76	65	6.2

Technical drawing of a HID ballast showing dimensions A1, A2, B1, B2, C1, and D1. The drawing includes a top view and a side view. The top view shows a rectangular body with a central mounting area. The side view shows the profile of the ballast, including the mounting base and the main body. Dimensions are labeled as follows: A1 is the total width, A2 is the width of the main body, B1 is the height of the main body, B2 is the height of the mounting base, C1 is the height of the mounting base, and D1 is the diameter of the mounting base.

Dim. no.	A1 nom.	A2 nom.	B1 nom.	B2 nom.	C1 nom.	D1 nom.
5	166	145	97	78.5	83	6.5

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
BSN 50 K407-ITS	230/240	50	1	UNP / 6	6	BSN50K407ITS	88693100
BSN 70 K407-ITS	230/240	50	1	INO / 6	6	BSN70K407ITS	88694800
BSN 100 K407-ITS	230/240	50	2	UNP / 6	6	BSN100K407ITS	88695500
BSN 150 K407-ITS	230/240	50	3	UNP / 6	6	BSN150K407ITS	88698600
BSN 250 K407-ITS	230/240	50	4	UNP / 6	6	BSN250K407ITS	88702000
BSN 400 K407-ITS	230/240	50	5	UNP / 2	2	BSN400K407ITS	88704400
BSN 600 K302-ITS	230	50	5	UNP / 2	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 Benefits

- Long-lasting reliable solution protected from overheating
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

## 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

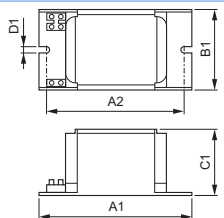
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

## Applications

- Outdoor lighting
- Horticulture

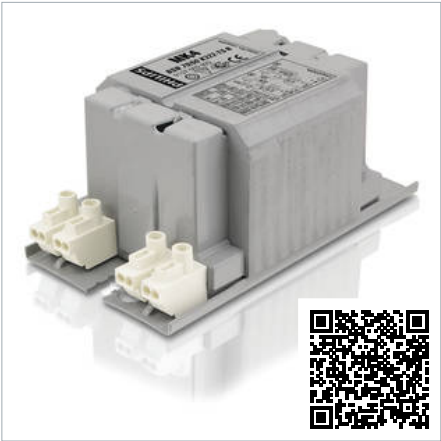
## System

- 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 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

Product Features

- Possibility of dimming with an external controller

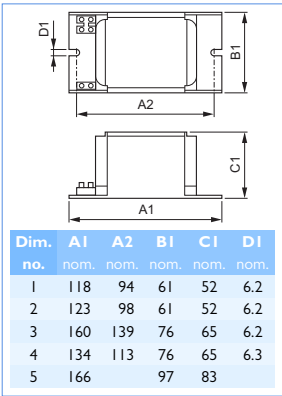
- Multi-wattage ballasts can be used only in series circuits
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Applications

- Outdoor lighting

System

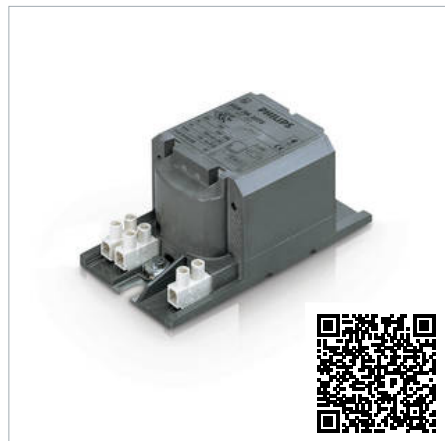
- Electromagnetic system requires ballast, ignitor and capacitor
- Series circuit: all ballasts are designed to work with series ignitors – SUD... (Philips) or any other series ignitors



Type	Line Voltage	Line Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(V)	(Hz)					
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 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

**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')

**Applications**

- 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	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	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	Line Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 871 1500...
	(V)	(Hz)					
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-TS	240	50	4	UNP / 6	6	BSN250L34TS	05966630
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 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

**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

**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	A2	B1	C1	D1
	nom.	nom.	nom.	nom.	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	Line Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(V)	(Hz)					
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 Benefits**

- Long-lasting reliable solution
- Minimal watt losses thanks to orthocyclic winding process
- Control gear can be installed remotely

**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

**Applications**

- 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

A1	A2	B1	C1	D1
nom.	nom.	nom.	nom.	nom.
118	94	61	52	6.2

Type	Line Voltage (V)	Line Frequency (Hz)	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
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



## 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

## Product Benefits

- Protected from overheating – outstanding product lifetime of 15 years average
- Minimal watt losses thanks to orthocyclic winding process
- Ideal for pole mounting

## 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

## Applications

- 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 nom.	A2 nom.	A3 nom.	B1 nom.	B2 nom.	C1 nom.	D1 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

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
HID-HighPower BHL 1000 L78 HP-207	230/240	50	1	UNP / I	I	BHL1000L78	06237600
BSN 1000 L78 HP-257	230/240	50	2	UNP / I	I	BSN1000L78	06236900
HID-HighPower BMH 1800 L78 HP-317	230/240	50	3	UNP / I	I	BMH1800L78	05990100
HID-HighPower BHL 2000 L78 HP-317	230/240	50	3	INO / I	I	BHL2000L78	06385400
HID-HighPower BHD 2000 L76 HP-317	380-415	50	3	UNP / I	I	BHD2000L76	74276600
HID-HighPower BHD 2000 L77 HP-317	400-430	50	3	UNP / I	I	BHD2000L77	53817800
HID-HighPower BHL 2000 L76 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 Benefits

- Compact dimensions and lightweight – easy to fit in linear luminaires
- Simple installation
- Long-lasting reliable solution protected from overheating

## Product Features

- Based on magnetic fluorescent ballast design
- Equipped with double-insert contacts

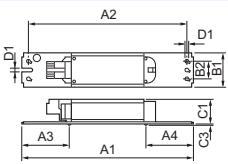
- Minimal watt losses thanks to orthocyclic winding process
- Ballasts for alternative mains voltages/frequencies available upon request

## Applications

- 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



Dim. no.	A1	A2	A3	A4	B1	B2	C1	C3	D1
1	155	140	54	54	39	20	28	1.5	4.2
2	196	180	54	54	39	20	28	1.5	4.2

Type	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number
BSX 18 L82	240	50	1	UNP / 32	32	BSX18L82	871150091558030
BSX 26 L82	240	50	2	UNP / 24	24	BSX26L82 240V	871150092051530
BSX 35/55 L82	240	50	2	UNP / 15	15	BSX3555L82240VB	872790090500700
BSX 35/55 L82	240	50	2	UNP / 24	24	BSX3555L82	871150092053930

## HID-HeavyDuty BSX for SOX



## Long-lasting, reliable solution

Encapsulated electromagnetic copper/iron ballasts for SOX and SOX-E lamps

## 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

## Product Features

- Encapsulated with thermoplastic polyester resin, reinforced with glass fiber

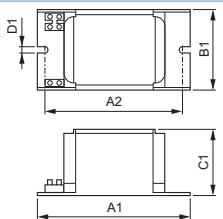
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Ballasts for alternative mains voltages/frequencies available upon request
- Separate earth terminal (HID 'Heavy Duty')

## Applications

- 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	91534431

## 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 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

**Product Features**

- Series capacitor required in circuits with constant wattage
- Silicon potted ballast under IP2I canopy

- Equipped with screw terminal blocks as standard
- Ballasts for alternative mains voltages/frequencies available upon request

**Applications**

- 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	173	157	64	42	52	4.2
2	149	135	80	42	67	4.2
3	178	162	100	42	74	4.2
4	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
BSX 66 H66	240	50	1	UNP	10	BSX66H66	872790087497600
BSX 91 H96	220-240	50	2	ICT / 8	8	BSX91H96	871150092039399
BSX 131 H96	220-240	50	3	ICT / 4	4	BSX131H96	871150091978699
BSX 135 H96	230-240	50	2	ICT / 8	8	BSX135H96	871150092007299
BSX 180 H96	220-240	50	4	ICT / 4	4	BSX180H96	871150093900599

## HID ignitors for series systems



## Digital ignitors for maximum reliability

## HID ignitors for series systems

## Product Benefits

- Easy installation and wiring
- Can operate with both semi-parallel and series ballasts
- Digital ignitors ensure maximum reliability

## Product Features

- Ignitors equipped with screw terminal blocks as standard

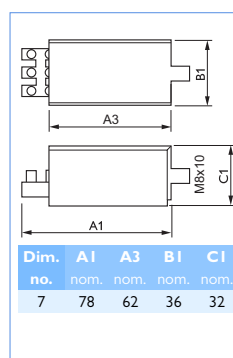
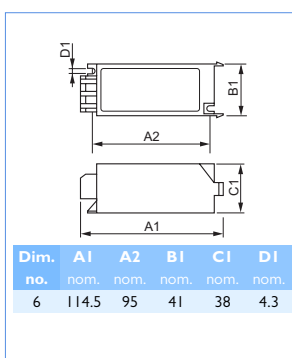
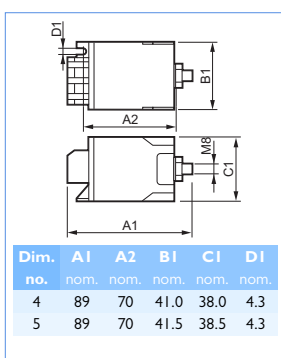
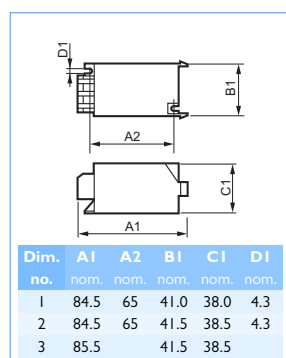
- Series ignitor will only work in series circuits

## Applications

- 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



Type	Rated Ballast-Lamp Power/Rated Lamptype	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
SI 51	250/400 HPI	220-240	50/60	1	UNP / 48	SI51	91553530
SI 51-S	1,000 HPI	220-240	50/60	4	UNP / 20	SI51S	74749530
SI 52	250/400 HPI	220-240	50/60	1	UNP / 48	SI52	91554230
SI 54	2,000 HPI	380-415	50/60	6	INO / 20	SI54	91548130
SN 57	50/70 SON	220-240	50/60	1	UNP / 48	SN57	91555930
SN 57-S	50/70 SON	220-240	50/60	4	UNP / 20	SN57S	06052530
SN 58	35-400 SON/CDM/MH/HPI	220-240	50/60	1	UNP / 48	SN58	91556630
SN 58-S	50/70 SON-T	220-240	50/60	4	UNP / 20	SN58S	74175230
SN 59	1000/1,800 SON/MHN	220-240	50/60	6	UNP / 20	SN59	91557330
SN 61	1000/1,800 SON/MH	220-240	50/60	6	UNP / 20	SN61	91639630
SND 57	50/70 SON	220-240	50/60	2	UNP / 48	SND57	93066830
SND 58	35-600 SON/CDM/MH/HPI/HPA	220-240	50/60	2	UNP / 48	SND58	93068230
SND 58-S	35-600 SON/CDM/MH/HPI/HPA	220-240	50/60	5	UNP / 20	SND58S	93070530
SUD 10-S	50/70 SON/CDO	220-240	50/60	7	UNP / 30	SUD10S	93144330
SX 26	26/35 SOX/SOX-E	220-240	50/60	6	UNP / 20	SX26	91590030
SX 70	90 SOX/SOX-E	220-240	50/60	6	UNP / 20	SX70	91549830
SX 72	35/55 SOX/SOX-E	220-240	50/60	6	UNP / 20	SX72	91561030
SX 73	180 SOX	220-240	50/60	3	UNP / 48	SX73	92005830
SX 74	91/135 SOX/SOX-E	220-240	50/60	6	UNP / 20	SX74	91569630
SX 76	66/90 SOX	220-240	50/60	6	UNP / 20	SX76	91640230

## HID ignitors for MK4 semi-parallel systems



### Compact ignitors for flexible luminaire design

HID ignitors for semi-parallel systems

#### 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

#### 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

#### Application

- Outdoor lighting

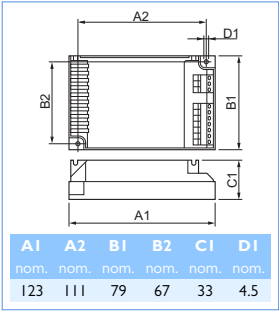
#### System

- 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.	Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	63.5	40.5	28	2	67.5	40.5	28

Type	Rated Ballast-Lamp Power/Rated Lamptype	Line Voltage (V)	Line Frequency (Hz)	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
SK 578	35-600 SON/CDM/MH/HPI/HPA/CDO	220-240	50/60	1	INO / 48 48	SK578	<b>89568100</b>
SK 578-S	35-600 SON/CDM/MH/HPI/HPA/CDO	220-240	50/60	2	UNP / 20 20	SK578S	<b>89570400</b>
SKD 578	35-600 SON/CDM/MH/HPI/HPA/CDO	220-240	50/60	1	INO / 48 48	SKD578	<b>89567400</b>
SKD 578-S	35-600 SON/CDM/MH/HPI/HPA/CDO	220-240	50/60	2	UNP / 20 20	SKD 578S	<b>89569800</b>

HF-Regulator Intelligent Touch DALI for PL-T/C and TL5C



**Dimming – a next step in energy saving.**  
Intelligent high-frequency electronic dimming ballast, using DALI (Digital Addressable Lighting Interface according to IEC 62386) or Touch and Dim push-button protocol for fluorescent lamps. Features Corridor Mode, programmable with Philips MultiOne. High-frequency operation improves light quality and lamp lifetime. Pre-empting upcoming legislation as it meets AIBAT requirements.

- Product Benefits**
- Programmed start: flicker-free ignition in 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 3 to 100%
  - Protected against excessive mains voltages, incorrect connections and incorrect lamp use

- Product Features**
- Extremely low stand-by losses, controlled cut-off for dimming levels above 80%
  - Combined with controls, additional energy savings can be achieved
  - Stop circuit is activated within 5 seconds of lamp failure (safety stop), and ballast resets automatically after lamp replacement
  - HF operation improves light quality and lamp lifetime
  - Programmable Corridor Mode
  - 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)

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Packing type/ Packing configuration		National Order Code	Ordering number 8718291...
	(V)	(Hz)	(x)	(h)					
HF-Ri TD 2x 26-42 PL-T/C E+	195-240	50/60	12	50,000	AI BAT	INO / 12	12	HFRTD22642PLTCE	24169000



## HF-Regulator Intelligent Touch DALI for TL5/TL-D/PL-L lamps



	A1	A2	BI	CI	DI
Dim. no.	nom.	nom.	nom.	nom.	nom.
1	360	350	30	21	4.1
2	360	350	39	22	4.2
3	360	350	30	22	4.1
4	424	415	30	22	4.2

## 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 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

## Product Features

- HF-R Intelligent recognises 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

## Environment

- The HF-R intelligent will recognise which lamp is connected and will drive it accordingly
- Extremely low energy consumption in stand-by (0.25 W)
- Optimised for MASTER TL5 Eco lamps
- RoHS and ISO 14000-compliant
- EEI = AI 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 recognises 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

Type	Line Voltage	Line Frequency	Max ballast on MCB (16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
	(V)	(Hz)	(x)	(h)					
HF-Ri TD 1x 14/21/24/39 TL5 E+	195-240	50/60	30	50,000	AI BAT	1	INO / 12 12		8718291 <b>69689600</b>
HF-Ri TD 2x 14/21/24/39 TL5 E+	195-240	50/60	16	50,000	AI BAT	1	INO / 12 12		8718291 <b>69691900</b>
HF-Ri TD 4x 14/24 TL5 E+	195-240	50/60	16	50,000	AI BAT	2	INO / 10 10		8718291 <b>15678900</b>
HF-Ri TD 1x 28/35/49/54 TL5 E+	195-240	50/60	39	50,000	AI BAT	3	INO / 12 12	HFRITD12854T5PL	8718291 <b>66205100</b>
HF-Ri TD 2x 28/35/49/54 TL5 E+	195-240	50/60	18	50,000	AI BAT	3	INO / 12 12	HFRITD22854T5PL	8718291 <b>66209900</b>
HF-Ri TD 1x 35/49/80 TL5 E+	195-240	50/60	18	50,000	AI BAT	3	INO / 12 12	HFRITD13580T5PL	8718291 <b>66207500</b>
HF-Ri TD 2x 80 TL5/PL-L E+	220-240	50/60	9	50,000	AI	4	INO / 12 12	HFRITD280TL5/PLL	87115009 <b>1067730</b>

## HF-Regulator II Touch DALI for PL-T, PL-C and PL-R lamps

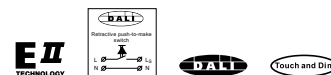
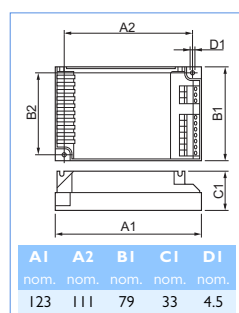


### HF-Regulator II Touch DALI for PL-T and PL-C lamps – Dimming: a next step in energy saving

High-frequency electronic dimming ballast, using DALI (Digital Addressable Lighting Interface) or Touch and Dim push-button protocol for (compact) fluorescent lamps

#### Product 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



#### 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

#### Applications

- Indoor, general and task lighting applications in combination with lighting control systems (personal control, daylight linking and/or movement detection)

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
	(V)	(Hz)	(x)	(h)				
HF-R TD 1x 14-17 PL-R EII	220-240	50/60	28	50,000	A1	INO / 12 12	HFRTD11417PLREI	91349430
HF-R TD 2x 14-17 PL-R EII	220-240	50/60	28	50,000	A1	INO / 12 12	HFRTD21417PLREI	91346330
HF-R TD 1x 18 PL-T/C EII	220-240	50/60	28	50,000	A1	INO / 12 12	HFRTD118PLTCEII	91344930
HF-R TD 2x 18 PL-T/C EII	220-240	50/60	28	50,000	A1	INO / 12 12	HFRTD218PLTCEII	91342530

## 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 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

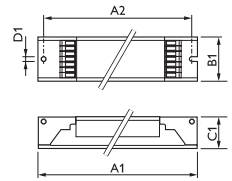
## Product Features

- 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

## Applications

- 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
3	359	350	30	22	4.2
4	425	415	30	22	4.2

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 871 1500...
	(V)	(Hz)	(x)	(h)					
HF-R 1x 14-35 TL5 EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR11435TL5EII	91180330
HF-R 2x 14-35 TL5 EII	220-240	50/60	12	50,000	A1	1	UNP / 12 12	HFR21435TL5EII	91178030
HF-R 3x 14 TL5 EII	220-240	50-60	28	50,000	A1	2	UNP 10	HFR314TL5EII	91368530
HF-R 4x 14 TL5 EII	220-240	50-60	28	50,000	A1	2	UNP 10	HFR414TL5EII	91364730
HF-R 1x 24 TL5/PL-L EII	220-240	50/60	28	50,000	A1	3	UNP / 12 12	HFR124TL5EII	91466830
HF-R 2x 24 TL5/PL-L EII	220-240	50/60	28	50,000	A1	3	UNP / 12 12	HFR224TL5EII	91472930
HF-R 3x 24 TL5/PL-L EII	220-240	50-60	12	50,000	A1	2	UNP 10	HFR324TL5EII	91370830
HF-R 4x 24 TL5/PL-L EII	220-240	50-60	12	50,000	A1	2	UNP 10	HFR424TL5EII	91374630
HF-R 1x 39 TL5 EII	220-240	50/60	28	50,000	A1	3	UNP / 12 12	HFR139TL5EII	91468230
HF-R 2x 39 TL5 EII	220-240	50/60	12	50,000	A1	3	UNP / 12 12	HFR239TL5EII	91474330
HF-R 1x 49 TL5 EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR149TL5II	90998530
HF-R 2x 49 TL5 EII	220-240	50/60	12	50,000	A1	1	UNP / 12 12	HFR249TL5II	91003530
HF-R 1x 54 TL5 EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR154TL5II	91005930
HF-R 2x 54 TL5 EII	220-240	50/60	12	50,000	A1	1	UNP / 12 12	HFR254TL5II	91008030
HF-R 1x 80 TL5/PL-L EII	220-240	50/60	12	50,000	A1	1	UNP / 12 12	HFR180TL5/PLL	91011030
HF-R 2x 80 TL5/PL-L EII	220-240	50/60	9	50,000	A1	4	UNP / 12 12	HFR280TL5/PLL	91065330

## HF-Regulator II for TL-D lamps



## Product Description

- Flat, lightweight high-frequency electronic regulating ballast, using I-IO V protocol for TL-D fluorescent lamps

## Product Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the I-IO 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

## 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

## Applications

- I-IO V installations with daylight linking and/or movement detection (for energy savings)
- I-IO 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	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(V)	(Hz)	(x)	(h)						
HF-R 1x 18 TL-D EII	220-240	50/60	28	50,000	A1	1	UNP / 12	12	HFR118TLDEII	91190230
HF-R 2x 18 TL-D EII	220-240	50/60	12	50,000	A1	1	UNP / 12	12	HFR218TLDEII	91192630
HF-R 3x 18 TL-D EII	220-240	50-60	28	50,000	A1	2	UNP	10	HFR318TLDEII	91376030
HF-R 4x 18 TL-D EII	220-240	50-60	12	50,000	A1	2	UNP	10	HFR418TLDEII	91366130
HF-R 1x 36 TL-D EII	220-240	50/60	28	50,000	A1	1	UNP / 12	12	HFR136TLDII	91013430
HF-R 2x 36 TL-D EII	220-240	50/60	12	50,000	A1	1	UNP / 12	12	HFR236TLDII	91015830
HF-R 1x 58 TL-D EII	220-240	50/60	28	50,000	A1	1	UNP / 12	12	HFR158TLDII	91017230
HF-R 2x 58 TL-D EII	220-240	50/60	12	50,000	A1	1	UNP / 12	12	HFR258TLDII	91019630

## 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 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

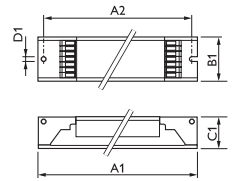
## Product Features

- 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

## Applications

- 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	359	350	39	22	4.2
3	360	350	30	22	4.2
4	425	415	30	22	4.2

Type	Line Voltage	Line Frequency	Max ballast on MCB (16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
	(V)	(Hz)	(x)	(h)					
HF-R 1x 24 TL5/PL-L EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR124TL5EII	91466830
HF-R 2x 24 TL5/PL-L EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR224TL5EII	91472930
HF-R 3x 24 TL5/PL-L EII	220-240	50-60	12	50,000	A1	2	UNP 10	HFR324TL5EII	91370830
HF-R 4x 24 TL5/PL-L EII	220-240	50-60	12	50,000	A1	2	UNP 10	HFR424TL5EII	91374630
HF-R 1x 36 PL-L EII	220-240	50/60	28	50,000	A1	3	UNP / 12 12	HFR136PLLEII	91182730
HF-R 2x 36 PL-L EII	220-240	50/60	12	50,000	A1	3	UNP / 12 12	HFR236PLLEII	91184130
HF-R 1x 40 PL-L EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR140PLLEII	91470530
HF-R 2x 40 PL-L EII	220-240	50/60	12	50,000	A1	1	UNP / 12 12	HFR240PLLEII	91460630
HF-R 1x 55 PL-L EII	220-240	50/60	28	50,000	A1	3	UNP / 12 12	HFR155PLLEII	91186530
HF-R 2x 55 PL-L EII	220-240	50/60	12	50,000	A1	3	UNP / 12 12	HFR255PLLEII	91188930
HF-R 1x 80 TL5/PL-L EII	220-240	50/60	12	50,000	A1	3	UNP / 12 12	HFR180TL5/PLL	91011030
HF-R 2x 80 TL5/PL-L EII	220-240	50/60	9	50,000	A1	4	UNP / 12 12	HFR280TL5/PLL	91065330

## HF-Regulator II for PL-T/C

1-10V



## Product Description:

- Compact, lightweight High-Frequency electronic regulating ballast for PL-T and PL-C compact fluorescent lamps

## Product Benefits

- The lamp power can be dimmed from 1 to 100% via the Analog control input (in accordance with the 1-10 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

## 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

## Applications:

- 1-10 V installations with daylight linking and/or movement detection (energy saving)
- 1-10 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	A2	B1	B2	C1	D1
1	123	111	79	67	33	4.5

Dim. no.	A1	A2	B1	B2	C1	D1
2	123	111	79	67	33	4.5

Type	Line Voltage	Line Frequency	Max ballast on MCB (16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
	(V)	(Hz)	(x)	(h)					
HF-R 1x 26-42 PL-T/C EII	220-240	50/60	28	50,000	A1	1	UNP / 12 12	HFR126-42PLCT	80971800
HF-R 2x 26-42 PL-T/C EII	220-240	50/60	12	50,000	A1	2	UNP / 12 12	HFR226-42PLCT	80972500

## 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 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.

## 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

## 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.	A1	A2	B1	C1	D1
no.	nom.	nom.	nom.	nom.	nom.
1	360	350	30	22	4.2

Dim.	A1	A2	B1	C1	D1
no.	nom.	nom.	nom.	nom.	nom.
2	360	350	30	22	4.2

Dim.	A1	A2	B1	C1	D1
no.	nom.	nom.	nom.	nom.	nom.
3	360	350	30	22	4.2

220-240V

Type	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
	(Hz)	(x)	(h)					
HF-Performer Intelligent 1x 14-39 TL5 EII	50/60	18	50,000	A2	1	INO / 12 12	HFPI114212439	871150091494130
HF-Performer Intelligent 3/4x 14/24 TL5/PL-L EII	50/60	12	50,000	A2	2	UNP / 12 12	HFPI341424TL5II	872790088775400
HF-Performer Intelligent 1x 28-54 TL5 EII	50/60	18	50,000	A2	1	INO / 12 12	HFPI128354954	871150091496530
HF-Performer Intelligent 2x 28-54 TL5 EII	50/60	12	50,000	A2	3	INO / 12 12	HFPI228354954	871150091502330

## HF-Performer III for TL5 lamps



Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	22	4.2
2	280	265	39	21	4.2
3	360	350	30	21	4.2
4	425	415	30	21	4.2

## 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 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

## 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 25I offers the flexibility for horizontal-manual or push-in robot wiring or vertical ALF-robot wiring.

## Applications

- 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

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number
	(V)	(Hz)	(x)	(h)					
HF-P 1x 14-35 TL5 HE III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP11435T5HEIII	872790090504500
HF-P 2x 14-35 TL5 HE III	220-240	50/60	28	53,000	A2 BAT	1	INO / 12 12	HFP21435T5HEIII	872790090503800
HF-P 3/4x 14 TL5 III	220-240	50/60	28	100,000	A2 BAT	2	INO / 10 10	HFP3414TL5EIII	871829172125300
HF-P 1x 24/39 TL5 HO III	220-240	50/60	28	50,000	A2 BAT	3	INO / 12 12	HFP124TL5HOLLL	872790095224700
HF-P 2x 24/39 TL5 HO III	220-240	50/60	20	50,000	A2 BAT	3	INO / 12 12	HFP224-39TLEIIL	872790095226100
HF-P 1x 49 TL5 HO III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP149TL5HOIII	872790086319200
HF-P 2x 49 TL5 HO III	220-240	50/60	12	50,000	A2 BAT	1	INO / 12 12	HFP249TL5HOIII	872790086347500
HF-P 1x 54/55 TL5 HO/PL-L III	220-240	50/60	28	50,000	A2 BAT	1	UNP / 12 12	HFP154TL5HOIII	872790086348200
HF-P 2x 54/55 TL5 HO/PL-L III	220-240	50/60	12	50,000	A2 BAT	1	UNP / 12 12	HFP254TL5HOIII	872790086351200
HF-P 1x 80 TL5/PL-L III	220-240	50/60	15	50,000	A2 BAT	3	INO / 12 12	HFP180TLPLLEIIL	872790095228500
HF-P 2x 80 TL5/PL-L III	220-240	50/60	12	50,000	A2 BAT	4	INO / 12 12	HFP280T5PLLEIII	872790095230800



## HF-Performer III for TL-D lamps



	A1	A2	B1	C1	D1
Dim. no.	nom.	nom.	nom.	nom.	nom.
1	280	265	30	28	4.2
2	280	265	40	28	4.2

## 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 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 25I offers the flexibility for horizontal-manual or push-in robot wiring or vertical ALF-robot wiring.

## 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.

## 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

Type	Line Voltage	Line Frequency	Max ballast on MCB(16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
	(V)	(Hz)	(x)	(h)					
HF-P 1x 18 TL-D III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP118TLDIII	91158900
HF-P 2x 18 TL-D III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP218TLDIII	91160200
HF-P 3/4x 18 TL-D III	220-240	50/60	28	50,000	A2 BAT	2	INO / 10 10	HFP3418TLDIII	91162600
HF-P 1x 36 TL-D III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP136TLDIII	91164000
HF-P 2x 36 TL-D III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP236TLDIII	91166400
HF-P 1x 58 TL-D III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12 12	HFP158TLDIII	91170100
HF-P 2x 58 TL-D III	220-240	50/60	12	50,000	A2 BAT	1	INO / 12 12	HFP258TLDIII	91172500

## 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 benefits

- High CELMA Energy Efficiency Index A2
- Optimal savings can be achieved using HF-P-II together with TL5 ECO lamps (system solution)
- The programmed start enables the lamp to be switched on and off more than 50,000 times without reducing useful lamp life

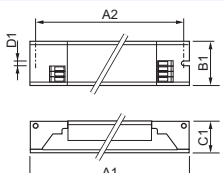
## Features

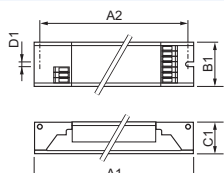
- Programmed start: flicker-free, warm start circuit preheating (0.5 s) the lamp electrodes; this enables the lamps to be switched on and off without reducing useful life
- Smart power: constant light independent of mains voltage fluctuations

- 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

## Applications

- Department stores, shops, supermarkets
- Industrial premises
- Airports, railway stations
- Outdoor lighting
- Office buildings, for example insurance companies, banks, government ministries
- Hospitals
- Hotels
- Suitable for emergency installations according to VDE 0108, re-ignition < 0.5 s

					
Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	D1 nom.
1	360	350	30	22	4.2
2	359	350	30	28	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)	Lifetime 90% surv. @Tcaselife (h)	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-P 3/4x 14 TL5 EII	220-240	50/60	28	50,000	A2	1	UNP / 12 12	HFP3414TL5EII	05984030
HF-P 1x 95-120 TL5 EII	220-240	50/60	12	50,000	A2	2	INO / 12 12	HFP195120TL5VHO	91482830
HF-P 2x 95-120 TL5 EII	220-240	50/60	6	50,000	A2	3	INO / 10 10	HFP295120TL5VHO	91484230

## HF-Performer II for TL-D lamps



## Product Description:

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

## Product benefits

- High CELMA Energy Efficiency Index A2
- The programmed start enables the lamp to be switched on and off more than 50,000 times without reducing useful lamp life
- Suitable for luminaires in protection class I and, after testing, class II

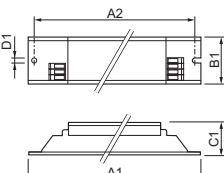
## Features

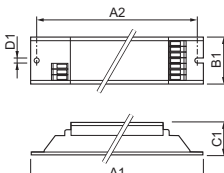
- Programmed start: flicker-free, warm start circuit preheats (0.5 s) the lamp electrodes; lamps can be switched on and off without reducing useful life
- Smart power: constant light independent of mains voltage fluctuations
- Unit is protected against excessive mains voltages and incorrect connections

- 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

## Applications:

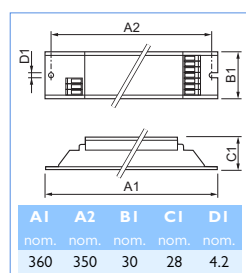
- Suitable for use with infrared remote control systems (e. g. movement detection)
- Department stores, shops, supermarkets, hotels, hospitals, office buildings, industrial premises
- Airports, railway stations
- Outdoor lighting; in general suitable for Class I applications
- Suitable for installations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

					
Dim. no.	A1 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)	Lifetime 90% surv. @Tcaselife (h)	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
HF-P 1x 70 TL-D EII	220-240	50/60	28	50,000	A2	1	UNP / 12 12	HFP170TLDEII	93411630
HF-P 2x 70 TL-D EII	220-240	50/60	12	50,000	A2	2	UNP / 12 12	HFP270TLDEII	05863830

## 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 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  $T_{case} = 85^{\circ}\text{C}$ ; 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

**Product Features**

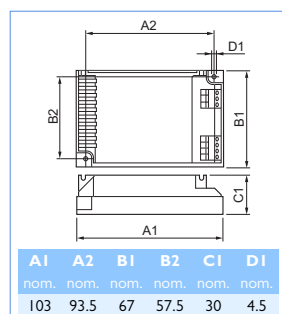
- Protects against transient voltage peaks of up to 4 kV and excessive mains voltage and incorrect connections of up to 400 V
- Programmed, flicker-free, pre-heated start ( $< 2.0\text{ s}$ ) which allows the lamp to be switched on and off without reducing useful lamp life
- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- Suitable for emergency lighting luminaires in accordance with IEC/EN 60598-22

**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

Type	Line Voltage	Line Frequency	Max ballast on MCB (16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Packing type/ Packing configuration	National Order Code	Ordering number 8711500...
	(V)	(Hz)	(x)	(h)				
HF-P Xt 2x 58 TL-D EII	220-240	50/60	12	100,000	A2	UNP / 12	12	HFPTX258TLDEII 91206030

## HF-Performer TL5 Circular

**Product Description**

- Compact, square, lightweight, High Frequency electronic ballasts for TL5 Circular lamps

**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

**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

**Applications**

- Ideal for applications with high switching frequency, for example:
  - Use with infrared remote control systems (e. g. movement detection)
  - Department stores, shops, supermarkets, hotels, hospitals, office buildings
  - Airports
  - Installations with emergency back-up according to VDE 0108-100 / EN 60598-22 with re-ignition  $< 0.5\text{ s}$

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Lifetime 90% surv. @Tcaselife (h)	Energy Efficiency Index	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
HF-P 1x 55 TL5C	220-240	50/60	28	50,000	A3	UNP / 36	36	HFP155TL5C	<b>92776730</b>
HF-P 1x 60 TL5C	220-240	50/60	28	50,000	A2	UNP / 36	36	HFP160TL5C	<b>92778130</b>

## HF-Performer III for PL-L lamps



	A1	A2	B1	C1	D1
Dim. no.	nom.	nom.	nom.	nom.	nom.
1	280	265	30	28	4.2
2	360	350	30	22	4.2
3	425	415	30	21	4.2

## 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 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
- 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.

## Applications

- 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)



Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Lifetime 90% surv. @Tcaselife (h)	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
HF-P 1x 36 PL-L III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12	12	HFP136PLLEIIL	<b>95191200</b>
HF-P 2x 36 PL-L III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12	12	HFP236PLLEIII	<b>95193600</b>
HF-P 1x 40 PL-L III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12	12	HFP140PLLEIII	<b>95195000</b>
HF-P 2x 40 PL-L III	220-240	50/60	12	50,000	A2 BAT	1	INO / 12	12	HFP240PLLEIIL	<b>95197400</b>
HF-P 1x 54/55 TL5 HO/PL-L III	220-240	50/60	28	50,000	A2 BAT	2	UNP / 12	12	HFP154TL5HOIII	<b>86348200</b>
HF-P 2x 54/55 TL5 HO/PL-L III	220-240	50/60	12	50,000	A2 BAT	2	UNP / 12	12	HFP254TL5HOIII	<b>86351200</b>
HF-P 1x 55 PL-L III	220-240	50/60	28	50,000	A2 BAT	1	INO / 12	12	HFP155PLLEIIL	<b>95199800</b>
HF-P 2x 55 PL-L III	220-240	50/60	12	50,000	A2 BAT	1	INO / 12	12	HFP255PLLEIIL	<b>95201800</b>
HF-P 2x 80 TL5/PL-L III	220-240	50/60	12	50,000	A2 BAT	3	INO / 12	12	HFP280T5PLLEIII	<b>95230800</b>

## 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 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

**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.

**Applications**

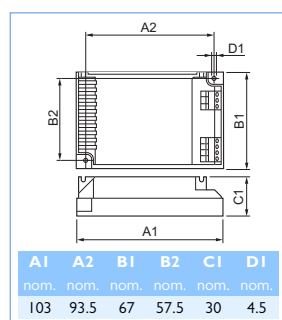
- Ideal for commercial indoor lighting applications where it is necessary to reduce the wattage per square meter or operating costs
- Used with movement-detection control systems like Philips OccuPlus
- Mainly for indoor applications such as spotlights, downlights and recessed fixtures used primarily in retail stores, office buildings, supermarkets, hotels and convenience stores
- Industrial premises with long operating hours

Dim. no.	A1	A2	B1	B2	C1	D1
I	103.8	93.5	67.8	57.5	30	4.2

Dim. no.	A1	A2	B1	B2	C1	D1
2	103.8	93.5	67.8	57.5	30	4.2

Type	Line Voltage	Line Frequency	Max ballast on MCB (16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Dim. no.	Packing type/ Packing configuration	National Order Code	Ordering number 8727900...
	(V)	(Hz)	(x)	(h)					
HF-P 1x 18 PL-T/C III	220-240	50/60	28	50,000	A2	1	UNP / 12 12	HFP118PLTCIII	83416100
HF-P 2x 18 PL-T/C III	220-240	50/60	28	50,000	A2	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/T5c 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 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 °C) and in line with IEC/EN 60598-22 luminaire norms

## 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.

## Applications

- 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

Type	Line Voltage	Line Frequency	Max ballast on MCB (16A type B)	Lifetime 90% surv. @Tcaselife	Energy Efficiency Index	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(V)	(Hz)	(x)	(h)					
HF-P 1x 13-17 PL-T/C/R EII	220-240	50/60	28	50,000	A2	UNP / 12	12	HFP11317PLTCR	91407130
HF-P 2x 13-17 PL-T/C/R EII	220-240	50/60	28	50,000	A2	UNP / 12	12	HFP21317PLTCR	91409530
HF-P 1x 22-42 PL-T/C/L/TL5C EII	220-240	50/60	28	50,000	A2	UNP / 12	12	HFP12242PLT/C/L	91397530
HF-P 2x 22-42 PL-T/C/L/TL5C EII	220-240	50/60	12	50,000	A2	UNP / 12	12	HFP2242PLT/C/L	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 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

**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

**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	Line Frequency	Max ballast on MCB(I6A type B)	Lifetime 90% surv. @Tcaselife	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(V)	(Hz)	(x)	(h)					
HF-M RED 1x 9 SH TL/PL-S	230-240	50/60	159	40,000	1	INO / 50	50	HFMRED109SH	93142930
HF-M RED 1x 14 SH TL/TL5/PL-C/S	230-240	50/60	101	45,000	2	INO / 50	50	HFMRED114SH	93140530
HF-M RED 1x 18 SH PL-C/PL-T	230-240	50/60	73	40,000	1	UNP / 50	50	HFMRED118SH	92802330
HF-M RED 1x 24 SH TL/TL5/PL-L	230-240	50/60	48	50,000	3	UNP / 50	50	HFMRED124SH	91040030

## HF-Matchbox Blue

**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 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

**Product Features**

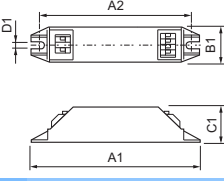
- Suitable for emergency DC operation between 190 and 254 V

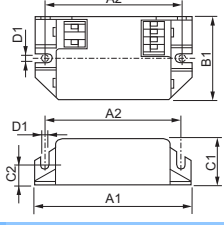
- Programmed, flicker-free, pre-heated start (<0.8 s); over 8,000 on/off switches on one lamp (depending on lamp/ballast combination)
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.


**Applications**

- 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.	D1 nom.
1	144	132	22	22	4.4
2	120		18	20	
3	187	176	22	22	4.4
4	160		18	20	

						
Dim. no.	A1 nom.	A2 nom.	B1 nom.	C1 nom.	C2 nom.	D1 nom.
5	94	84	40	22	10	4.4

Type	Line Voltage (V)	Line Frequency (Hz)	Max ballast on MCB(16A type B) (x)	Lifetime 90% surv. @Tcaselife (h)	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
HF-M BLUE 1x 5 LH TL/PL-S	230-240	50/60	240		1	UNP / 50	50	HFMBLUE105LH	<b>53678530</b>
HF-M BLUE 1x 9 LH TL/PL-S	230-240	50/60	159		1	UNP / 50	50	HFMBLUE109LH	<b>53680830</b>
HF-M BLUE 1x 9 LP TL/PL-S	230-240	50/60	159		2	UNP / 432	432	HFMBLUE109LP	<b>53692130</b>
HF-M BLUE 1x 14 LH TL/PL-S/PL-C	230-240	50/60	101		1	INO / 50	50	HFMBLUE114LH	<b>53682230</b>
HF-M BLUE 1x 14 LP TL/PL-S/PL-C	230-240	50/60	101		2	UNP / 432	432	HFMBLUE114LP	<b>53694530</b>
HF-M BLUE 1x 21 LH TL5	230-240	50/60	59		3	UNP / 50	50	HFMBLUE121LH	<b>53646430</b>
HF-M BLUE 1x 21 LP TL5	230-240	50/60	59		4	UNP / 216	216	HFMBLUE121LP	<b>53648830</b>
HF-M BLUE 1x 24 SH TL/TL5/PL-L mkI	230-240	50/60	60	25,000	5	INO / 50	50	HFMBLUE124SH	<b>53638930</b>
HF-M BLUE 1x 24 LH TL/TL5/PL-L	230-240	50/60	60		3	UNP / 50	50	HFMBLUE124LH	<b>53640230</b>
HF-M BLUE 1x 28 LH TL5	230-240	50/60			3	UNP / 50	50	HFMBLUE128LH	<b>93243330</b>





## 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 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

## 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

## Application

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

## Warnings and Safety

- Transformer is not suitable for DC operation

Dim. no.	A1 nom.	B1 nom.	C1 nom.	Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	110	45	33	2	145	51	33

Type	Line Voltage (V)	Line Frequency (Hz)	Rated Ballast-Lamp Power (W)	Lifetime 90% surv. @Tcaselife (h)	Dim. no.	Packing type/Packing configuration	National Order Code	Ordering number 8711500...
Primaline 70	230-240	50/60	35-70	50,000	1	ICT / 50 50	PRIMALINE 70	91266430
Primaline 105	230-240	50/60	50-105	50,000	1	ICT / 50 50	PRIMALINE 105	91268830
Primaline 150	230-240	50/60	70-150	50,000	2	ICT / 50 50	PLINEHAL 150	91270130

## 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 Benefits

- Suitable for independent operation thanks to robust strain-relief
- VDE, SELV, CE and EMC-compliant

## 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


## Application

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

## Warnings and Safety

- Transformer is not suitable for DC operation

Dim. no.	A1 nom.	B1 nom.	C1 nom.	Dim. no.	A1 nom.	B1 nom.	C1 nom.	Dim. no.	A1 nom.	B1 nom.	C1 nom.
1	107	32	22	2	146	50	19.5	3	180	46	36

Type	Line Voltage (V)	Line Frequency (Hz)	Rated Ballast-Lamp Power (W)	Lifetime 90% surv. @Tcaselife (h)	Dim. no.	Packing type/ Packing configuration 	National Order Code	Ordering number 8711500...
Certaline 60W	230-240	50/60	20-60	20,000	1	ICT / 100 100	CERTALINE60W	<b>91378430</b>
Certaline 105W	230-240	50/60	35-105	20,000	2	ICT / 100 100	CERTALINE105W	<b>91380730</b>
Certaline 150W	230-240	50/60	50-150	20,000	3	ICT / 50 50	CERTALINE150W	<b>91385230</b>



## 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 Benefits

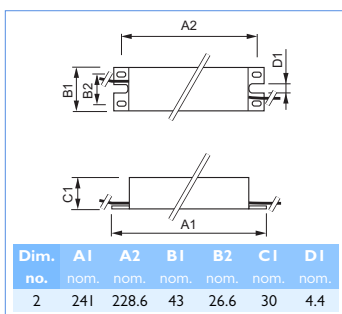
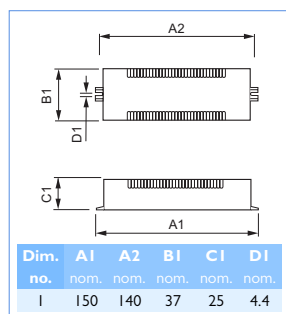
- SELV operating voltages ensure safety even if wiring or LED boards become damaged
- Easy installation with simple parallel wiring
- Excellent reliability

## Product Features

- Stable output voltage
- Robust protection against moisture
- Minimum 50,000 h lifetime

## Application

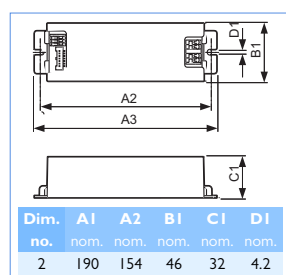
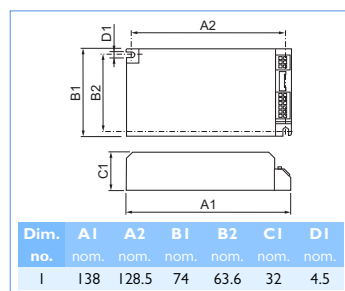
- Refrigerated display lighting
- Signage applications - channel letter and contour lighting
- Architectural and decorative lighting



Type	Input Voltage Range (AC)	Input Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(V)	(Hz)					
LED Power Driver Outd. 100-240V 20W 24V	100-240	50/60	1	INO / 10	10	LPD-20WLED	91194030
LED Power Driver Outd. 100-240V 60W 24V	100-240	50/60	2	INO / 10	10	LPD-60WLED	91146930



## Xitanium/Fortimo LED Drivers Indoor



## Product Description

- The new Fortimo and Xitanium electronic LED drivers are specially designed to operate LED solutions for general lighting applications.
- There are Xitanium LED driver versions in 17 W / 24 V, 25 W / 36 V and 45 W / 80 V
- There are fixed-output and dimmable (trailing edge and Touch & DALI) versions.
- The high output voltage (up to 80 V) and adjustable output current (200 to 700 mA) enable operation of many LEDs (high light output) and flexibility in LED fixture design
- The output current can be set by placing a resistor on your LED PCB (Level 2 board)
- The new housing design incorporates three different mounting options: independent, screw and click mounting.
- The 25 W and 45 W versions also feature a 12 V output to operate active cooling or decorative LED light effects.
- The Xitanium LED driver 45 W/80 V is available in fixed-output version in an independent housing.

## Product Benefits

- One driver can be used for various LED PCB solutions from different LED manufacturers
- Enables use of lighting controls to increase energy savings
- Guarantees product specifications, incl. lifetime
- Design freedom: enables smaller luminaire designs

## Savings on logistics:

- One SKU for three different product variants
- Flexibility when volumes are still small
- LED engine can be changed while driver is connected to mains (hot wiring)
- Increased lifetime for LED engine (ripple current)

## Product Features

- Adjustable output current from 200 / 300 to 700 / 1,000 mA
- Versions with trailing edge and Touch & DALI dimming protocols
- Temperature derating via NTC (negative thermal coefficient)
- 25 W dimmable and 45 W fixed output with 12 V output for active cooling
- New flexible housing design
- Hot wiring (Xitanium types)
- Improved ripple current

## Applications

- Offices (representative areas 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 dimming types:

- Busch-Jaeger: 65I3U-I02
- Jung-licht management: 225T DE

Type	Input Voltage Range (AC)	Input Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number
	(V)	(Hz)					
Fortimo LED driver I 100-3000	220-240	50/60	1	UNP / 6	6	DLM I 100-3000FO	8727900 <b>92085700</b>
Xitanium 25W LH 0.3-1A 36V I 230V	220-240	50/60	2	INO / 10	10		8718291 <b>66808400</b>

## 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 Benefits

- SELV operating voltages ensure safety even if wiring or LED boards become damaged

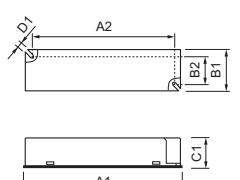
- Excellent reliability
- Wide range of form-factors and wattages to match all application needs

## Product Features

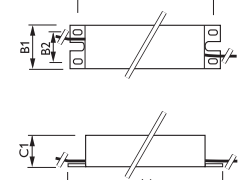
- Portfolio includes wide choice of output current
- Robust protection against moisture and vibration
- Minimum 50,000 h lifetime

## Applications

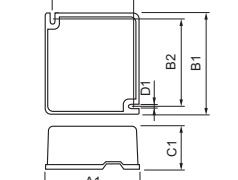
- Signage applications - channel letter and contour lighting
- Architectural lighting
- Emergency and security lighting



Dim. no.	A1	A2	B1	B2	C1	D1
1	132	122.4	34.2	24.6	25	4.5



Dim. no.	A1	A2	B1	B2	C1
2	240	225	43.2	30	29.5



Dim. no.	A1	A2	B1	B2	C1	D1
3	88.9	76	83	70	38	3.8

Type	Input Voltage Range (AC)	Input Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8711500...
	(V)	(Hz)					
LED Driver Outdoor 12W/0.35A-33V 230V		50	1	INO / 10	10	XTMSELV0.35A12W	<b>93045330</b>
LED Driver Outdoor 67W/2.80A-24V 230V		50	2	INO / 20	20	XTMSELV2.80A67W	<b>93120730</b>
LED Driver Outdoor 40W/1.75A-24V 230V	207-264	50	3	INO / 12	12	XTMSELV1.75A40W	<b>91273230</b>

## 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 CO<sub>2</sub> 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 Benefits

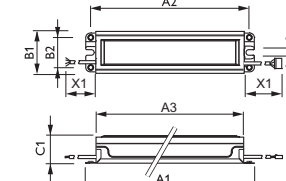
- Design flexibility - one driver can be programmed for many different luminaire designs
- Improved logistics and stock management
- Peace of mind on product performance

### 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

### Application

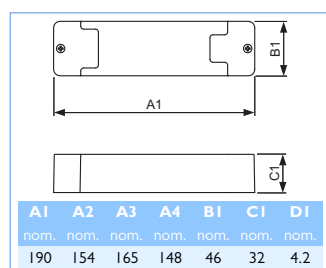
- Urban street lighting
- Functional road & tunnel lighting
- Area and flood illumination



Dim. no.	A1	A2	A3	B1	B2	C1	D1	X1
1	240.5	226.2	211.1	59.1	42.9	37.1	8	280
2	240.5	226.2	211.1	59.1	42.9	37.1	8	500

Type	Input Voltage Range (AC)	Input Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(V)	(Hz)					
Xitanium 150W 0.70A 230V sXt	220-240	50/60	1	UNP / 10	10	XTM0.70A150W	<b>80917600</b>
Xitanium 150W 0.35-0.7A GL Prog sXt	120-277	50/60	2	UNP / 10	10	XIT150WPROG	<b>78351300</b>

## 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 Benefits**

- Highly efficient LED drivers
- Adjustable output current (AOC)
- New “TD” version offers dynamic active cooling (via PWM protocol), optimizing energy efficiency

**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 12 V output for active cooling
- New flexible housing design offering independent, screw and click mounting
- Hot wiring (Xitanium types)
- Improved ripple current

**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: 6513U-I02
- Jung-licht management: 225T DE
- Siemens STC8 284
- PEHA Tronic-Dimmer 433 HAB
- Wuyun WB3-C 162
- Everflourish EFE700D

Type	Input Voltage Range (AC)	Input Frequency	Packing type/ Packing configuration		National Order Code	Ordering number 8727900...
	(V)	(Hz)				
Xitanium 17W 0.3-0.7A 24V TE/I 230V	220-240	50/60	INO / 10	10	XTM17W24VTEI	<b>90729200</b>

## 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

**Product Benefits**

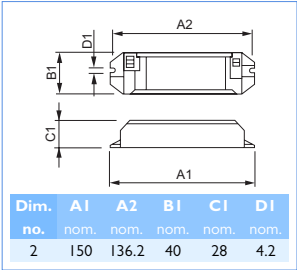
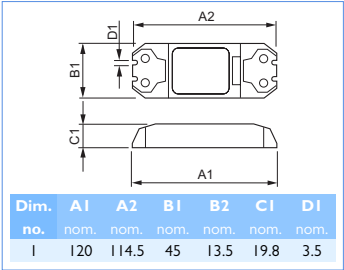
- Excellent dimming performance - no dimming steps visible
- No humming, no flickering
- Independent thanks to its cable strain relief clamp (for 10w only)

**Product Features**

- Unique LED drivers dimmable on the mains (in combination with trailing edge dimmers)
- High Power Factor, low THD
- Short circuit protection and open circuit protection
- Can dim down to 20% or even less (depending on the dimmer)
- 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...



Type	Input Frequency	Dim. no.	Packing type/ Packing configuration		National Order Code	Ordering number 8710163...
	(Hz)					
Xitanium LED Driver 10W/0.70A-14V DIM	50/60	1	UNP / 36	36	XTM-DIMMABLE10W	06416130
Xitanium LED Driver 30W/0.70A-42V DIM	50/60	2	UNP / 20	20	XTM-DIMMABLE30W	06421500







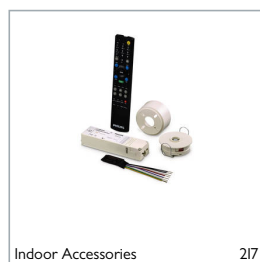
## Installer Based Smart Sensors ↗



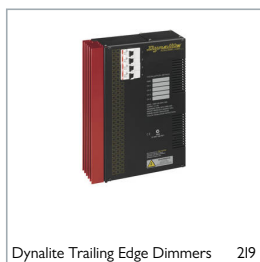
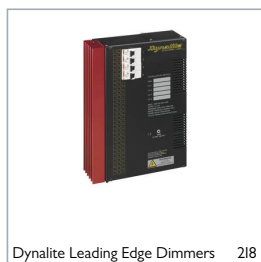
## Installer Based Systems



## Indoor Accessories



## Indoor Lighting Management Systems ↗



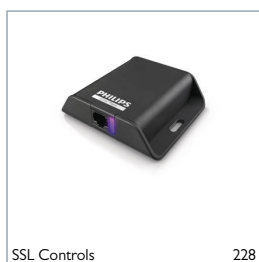
## Luminaire Based Systems ↗



## Smart Interfaces



## SSL Controls ↗



## Outdoor Lighting Management Systems ↗



## Outdoor Luminaire Based Control ↗





## OccuSwitch



## OccuSwitch - a smart move

The OccuSwitch is a movement detector with a built-in switch. It will switch the lights off in a room or area when it is vacated and thus save up to 30% on electricity

The OccuSwitch can switch any load of up to 6 A and control an area of between 20 and 25 m<sup>2</sup>.

A detachable mains connector enables easy installation and mounting of the OccuSwitch in the ceiling, a separate Wieland cable is available for easy, fast and trouble-free installation

## Benefits

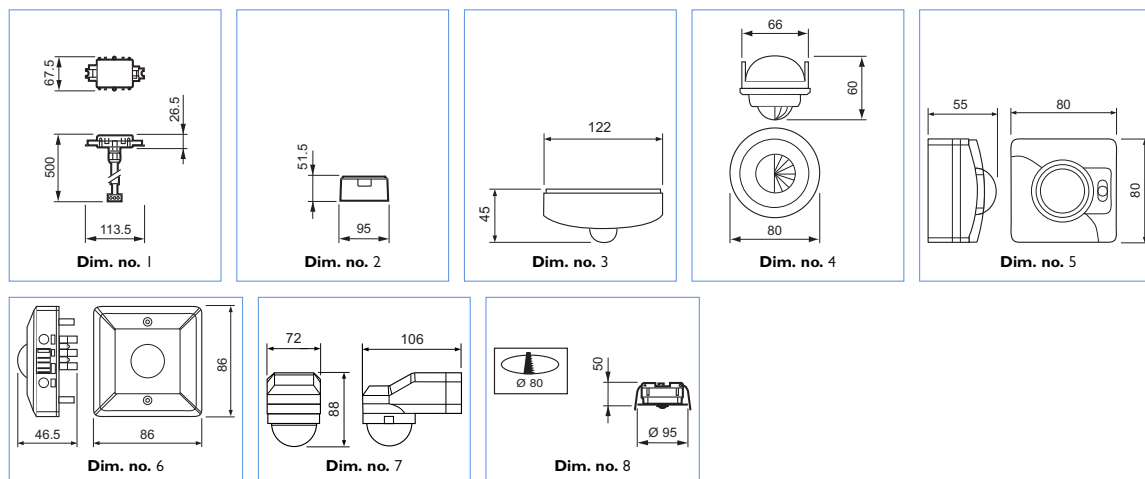
- Energy savings of up to 30% and good pay-back
- Works with almost all lamp- and luminaire types
- Easy to install, enables even faster installation by optional Wieland connectors.

## Features

- OccuSwitch has a smart timer that will extend the delay time by 10 minutes if movement is detected shortly after switch-off, assuming that the area is still in use but there is very little movement
- The OccuSwitch has a retractable shield that can be used to shield off areas, e.g. corridors, adjacent to the area the OccuSwitch is controlling

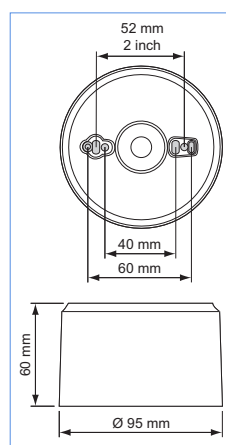
## Application

- The OccuSwitch is designed for use in offices, schools and similar applications, including toilets, storage rooms, etc
- It is optimised for recessed ceiling mounting and for mounting heights between 2.5 and 4 metres
- The surface box also enables surface mounting, with either recessed wiring or surface-mounted ducts



Type	Dim. no.	Packing type/Packing configuration		Ordering number
LCC1070/00 PIR T-CABLE 3P	1	ICT / 20	20	8711559 <b>731773</b> 99
LRH1070/00 SENSR SURFACE	2	ICT / 42	42	8711559 <b>731438</b> 99
LRM1000 OS mov det	3	ICT / 48	63	8718291 <b>225577</b> 00
LRM1010 OS mov det small	4	ICT / 75	80	8718291 <b>225614</b> 00
LRM1020 OS mov det corridor	5	ICT / 75	120	8718291 <b>225638</b> 00
LRM1030 OS mov det switch 3 wire	6	ICT / 75	30	8718291 <b>225652</b> 00
LRM1040 OS mov det IP55 240dgr	7	ICT / 32	36	8718291 <b>225737</b> 00
LRM1070/00 SENSR MOV DET ST	8	ICT / 42	42	8711559 <b>731384</b> 99
LRM1080/00 SENSR MOV DET ST IR	8	ICT / 42	42	8711559 <b>731407</b> 99

## OccuSwitch DALI

**OccuSwitch DALI – a simple solution for demanding installations**

OccuSwitch DALI is a combined sensor and controller and will dim and switch the lights in a room or area upon occupancy and according to the available daylight, with options for local override, parallel operation and network links to Building Management Systems (BMS).

Can control up to 15 DALI luminaires and is easy to install, requires limited commissioning, if any. With optional extension sensor(s) (LRM8118) and push-button interface(s) (LCU2070).

Separate Wieland cables available for easy, fast and trouble-free installation.

**Benefits**


- Energy savings of up to 55% and good TCO
- Adds comfort with local control
- Easy to use (works right out of the box) but also easy to adapt to specific applications or user demands

**Features**

- Advanced occupancy control and daylight regulation with separate window and corridor algorithms
- Retractable shield that can be used to shield off areas, e. g. corridors, adjacent to the area the OccuSwitch DALI is controlling
- Push-button interface for the use of standard wired switches
- Energy indicator shows relative energy usage
- BMS version interacts with almost any building management system via the DALI interface

**Application**

- OccuSwitch DALI is designed for use in offices, schools (incl. board lighting) and similar applications, including small meeting rooms, lobbies and corridors
- It is optimised for recessed ceiling mounting and for mounting heights of between 2.5 and 4 metres
- The surface box also allows surface mounting, with either recessed wiring or surface-mounted ducts

Type	Packing type/Packing configuration		Ordering number
LCC2070/00 CABLE BASIC	IBG / 18	18	8711559 <b>732480</b> 99
LCC2080/00 CABLE ADV + BMS	IBG / 18	18	8711559 <b>732503</b> 99
LCU2070/00 PBU	IBG / 50	50	8727900 <b>870268</b> 00
LRH2070/00 SURFACE BOX	ICT / 42	42	8711559 <b>732527</b> 99
LRM2070 BASIC	ICT / 42	42	8711559 <b>732305</b> 99
LRM2080 ADVANCED	ICT / 42	42	8711559 <b>732343</b> 99

## OccuSwitch Wireless



A wide range of wireless sensors with movement detection to control an area of 20-25 m<sup>2</sup>. Battery-operated, with a typical lifetime of 8-10 years. The actuator can switch any load up to 6 A and can be located in the ceiling or corridor. OccuSwitch Wireless will switch the lights off in a room or area when it is vacated and so save up to 30% on electricity. A detachable mains wiring connector enables easy installation. Separate Wieland and CEE cables are available for even easier, faster and trouble-free installation. Up to 10 sensors and/or actuators can be combined in one parallel network. The maximum distance between the sensor and actuator is 10 meters (depending on the application). With the extended scope of OccuSwitch Wireless functionality (increased number of sensors and interoperable with wireless ActiLume range), all wireless devices should be from the same version (LRM/LRA/LLC XXXX/10 or higher).

## Benefits

- Energy savings of up to 30%. Additional savings can be obtained in combination with ActiLume Wireless.

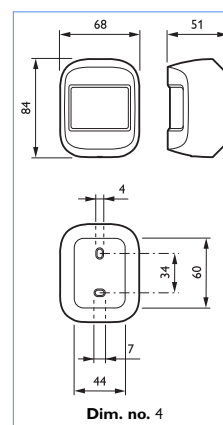
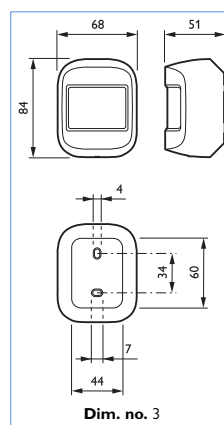
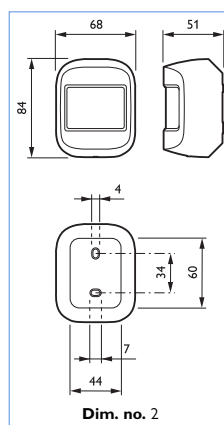
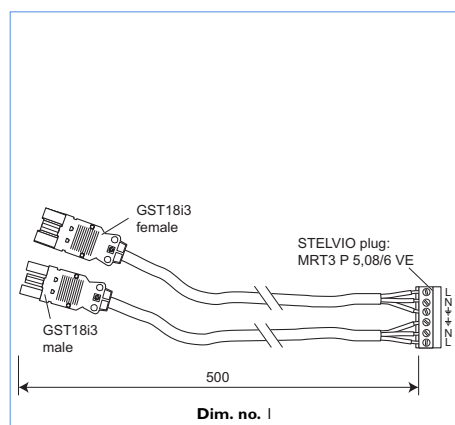
- Offers an easy-to-apply solution, especially for existing non-electronic (EM) lighting systems.
- Wireless sensor can be mounted in various places and offers maximum flexibility. The actuator is designed for any wiring system.

## Features

- Smart timer extends the delay time by 5% if movement is detected shortly after switch-off, assuming that the area is still in use but there is very little movement.
- The ceiling sensor has a retractable shield that can be used to shield off areas, e. g. corridors adjacent to the area in which OccuSwitch Wireless is operating.
- There is considerable freedom in terms of where to mount the OccuSwitch Wireless actuator to minimize installation cost and time.

## Application

- OccuSwitch Wireless is designed for use in open-plan offices, schools and similar applications, including toilets, storage rooms, etc.
- The ceiling sensor is optimised for mounting heights between 2.5 and 4 metres, the corridor, corner and wall sensors for heights between 2.1 and 2.5 metres



Type	Dim. no.	Packing type/Packing configuration		Ordering number
LCC1720/00 WIELAND CABLE	1	IBG / 15	15	872790091400900
LRM1765/10 OS Wireless Corridor sensor	2	ICT / 20	20	871829125065400
LRM1770/10 OS Wireless Corner sensor	3	ICT / 20	20	871829125061600
LRM1775/10 OS Wireless Wall sensor	4	ICT / 20	20	871829125063000

## Trios

**Trios - the versatile plug and play solution**

Multifunctional lighting controller for many stand-alone applications or in small systems. Versatile local control system to create energy-saving solutions.

Works with separate light sensors, movement detectors, switch interfaces and infrared remote control for local control

**Benefits**

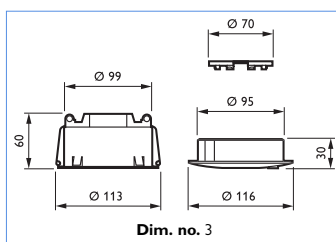
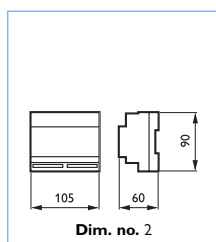
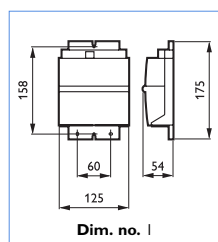
- Highly versatile through the use of separate sensors and a low-voltage sensor bus
- Applicable in many (larger) area's, capable of savings huge amounts of energy, for instance up to 70% in gymnasiums and distribution centers
- Gives a good pay-back and TCO in larger applications


**Features**

- Automatically adapts to the connected sensor configuration
- Window- / corridor control (LRCI030 only)
- Inverted daylight control (LRCI030 only)
- Drives up to 150 Philips I-10 V ballasts

**Application**

- Occupancy control and daylight regulation in warehouses, assembly areas, shops, lobbies and other large areas
- Inverted daylight control for shop windows
- Light level setting (e. g. gymnasiums and tennis halls) in combination with occupancy control



Type	Dim. no.	Packing type/Packing configuration		Ordering number 8711559...
LRCI030/10 Contr IXI Prog St Sw & R	1	ICT / 12	12	<b>73195799</b>
LRCI035/10 Contr IXI Prog St Sw & R	2	ICT / 12	12	<b>73196499</b>
LRL8102/00 HighBay Sensor	3	UNP / 1	1	<b>51720900</b>

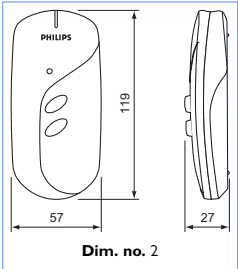
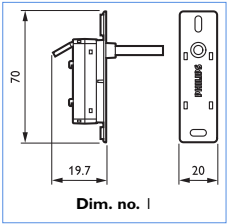
Indoor Accessories




Accessories — completing your system

Indoor lighting control accessories cover all the user interfaces, sensors, cables, dimmers and other accessories that can be used with our control systems or stand-alone with our lighting systems.

The performance and capabilities of the products vary according to the system they are connected to.



Type	Dim. no.	Packing type/Packing configuration		Ordering number 871 1559...
IRR8125/10 SENSR IR NV	1	ICT / 100	100	73131599
IRT8010/00 Transm IR Point	2	ICT / 12	12	51749099
IRT8050/00 Transm IR 2-key Wall		ICT / 8	8	51707099
IRT8055/00 TRANSM IR 2KEY WALL TEMP		ICT / 8	8	51843599
IRT8080/00 Transm IR Multi func		ICT / 8	8	51767499
LCU8020/00 Interf Push Button		ICT / 8	8	73182799

## LightMaster KNX




Adding Philips' recognized lighting know-how to the open world of KNX

- Energy savings of up to 55%
- Increased comfort for the building occupant
- Flexibility to keep the system up to date, now and in the future
- Possibility to add sensors and switches to the DALI network: lower installation and wiring costs Structured cabling: faster and more reliable installation

- Control of the required lighting protocol with one device: DALI, DSI and I-I0 V
- Low-profile aesthetics of sensor: clean ceilings

- Offices, schools, hospitals
- Industry
- Mixed-use facilities

Type	Type description		Ordering number 8710163...
PPS640-KNX	KNX bus power supply, 640 mA	I	<b>53518000</b>
PLC-KNX	KNX PLC	I	<b>53520300</b>
PPMI4-DALI	DALI dry contact interface for integration of 3rd party switches in combination with DALI	I	<b>53524100</b>
PLPC905GL-3-HD-KNX	Dim actuator for structured wiring solutions, Wieland 3-pole, heavy duty	I	<b>53526500</b>
PIPE-KNX-4P-2G	Double KNX switch with 4 positions	I	<b>53528900</b>
PIPE-KNX-2P-2G	Double KNX switch with 2 positions	I	<b>53530200</b>
PLPC905GL-4-HD-KNX	Dim actuator for structured wiring solutions, Wieland 4-pole, heavy duty	I	<b>53536400</b>
PIPE-KNX-2P	KNX switch with 2 positions	I	<b>53534000</b>
PLPC905GL-3-KNX	Dim actuator for structured wiring solutions, Wieland 3-pole	I	<b>53372800</b>
PLOS-CM-KNX	KNX Multi sensor	I	<b>53374200</b>
PDBC120-DALI-KNX	DALI MultiMaster actuator	I	<b>53378000</b>
PDRC1216FR-KNX	Relay actuator with 12 channels	I	<b>53512800</b>
PLPC905GL-4-KNX	Dim actuator for structured wiring solutions, Wieland 4-pole	I	<b>53508100</b>
PDRC816FR-KNX	Relay actuator with 8 channels	I	<b>53510400</b>
PDRC416FR-KNX	Relay actuator with 4 channels	I	<b>53514200</b>
PLOS-CM-DALI	DALI multi sensor for DALI multi master actuator	I	<b>53516600</b>
PIPE-KNX-4P	KNX switch with 4 positions	I	<b>53532600</b>

## Dynalite Leading Edge Dimmers



### Sophisticated yet simple energy-efficient lighting solutions

Philips Dynalite supports a wide selection of dimmer units that are compatible with most lamp types. By selecting the right dimmer for the different lamp types, an unlimited number of combinations of dimmer units can be chosen to work together in one project. Utilizing the very latest in microprocessor technology, every Dynalite dimmer has many built-in dedicated features for the lighting control industry.

Industry-leading 16-bit fading resolution allows ultra-smooth dimming in projects where this is critical for flicker-free scene changes. The dimmers are capable of fading from one scene to another over a period ranging from

one second to 23 hours, triggered from a single network message. This allows simpler programming and a smooth transition from one scene to the next – a feature that is perfect for daylight harvesting in projects requiring energy management.

#### Product Benefits

Allows lighting designers to push the boundaries of creativity

#### Product Features

Each dimmer can store over 170 scenes for unrestricted flexibility Live editing of lighting levels

#### Application


Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DLE 120-S	I	<b>50504600</b>
DLE 220-S	I	<b>50506000</b>
DLE 405	I	<b>50516900</b>
DLE 410	I	<b>50526800</b>
DDLE 802	I	<b>50500800</b>
DLE 1203	I	<b>50536700</b>
DLE 1205	I	<b>50542800</b>

More data see next page




(continued)

Type		Ordering number 8710163...
DLE I210	I	<b>50554100</b>
DLE I210GL	I	<b>50568800</b>
DLE I220GL-S	I	<b>50572500</b>

## Dynamalite Trailing Edge Dimmers



Type		Ordering number 8710163...
DTE 310	I	<b>50584800</b>
DTE I210	I	<b>50586200</b>

## Dynamalite Multipurpose Controllers

**Dynamalite Multipurpose Controllers**

Within any project, many different lighting load types may be required to achieve a desired result. Each of these load types may require a different style of control. The Philips Dynamalite range of multipurpose controllers allows customization of output types via different output module units. When using DIN-rail multipurpose controllers, a specific type of control can be chosen for each circuit: relay, leading-edge dimmer, trailing-edge dimmer, ballast control, controller with out-of-the-box functionality, fan control, and blind/screen control. In any combination, multiple load types can be controlled from a single device. This simplifies installation and prevents wasted capacity of circuits that are not required.

**Product Benefits**

- Controllers support distributed intelligence, i. e. each device has a CPU with presets and can act as a stand-alone control unit


- Some devices have out-of-the-box functionality with re-configuration capability
- Simplified network messages and commissioning process

**Product Features**

- Controllers can directly drive the different lighting groups within projects
- Controllers support an industry-standard RS485 port to communicate with other devices on the DyNet network, as well as with 3rd-party devices like HVAC, network devices, user interfaces
- Available in both DIN-rail and wall-box configurations
- Devices can store over 170 presets, allowing recall of complex switching logic from simple network messages
- Preset scenarios are stored within each relay device

**Application**

Depends on the lighting system in which the controls are used

Type	Type description		Ordering number
DDRC GRMS10	Guest room management system 10	I	8718291 <b>5025900</b>
DDRC GRMSPLUS		I	8718291 <b>57130800</b>
DDMC 802-GL		I	8710163 <b>50613500</b>
DDMC 802		I	8710163 <b>50594700</b>
DMC 810GL		I	8710163 <b>50632600</b>

## Dyalite HF Ballast Controllers



## Sophisticated yet simple energy-efficient lighting solutions

Philips Dyalite supports a wide selection of dimmer units that are compatible with most lamp types. By selecting the right dimmer for the different lamp types, an unlimited number of combinations of dimmer units can be chosen to work together in one project. Utilizing the very latest in microprocessor technology, every Dyalite dimmer has many built-in dedicated features for the lighting control industry.

Industry-leading 16-bit fading resolution allows ultra-smooth dimming in projects where this is critical for flicker-free scene changes. The dimmers are capable of fading from one scene to another over a period ranging from one second to 23 hours, triggered from a single network message. This allows simpler programming and a smooth transition from one scene to the next – a feature that is perfect for daylight harvesting in projects requiring energy management.

## Product Benefits


Benefits Allows lighting designers to push the boundaries of creativity

## Product Features

Each dimmer can store over 170 scenes for unrestricted flexibility Live editing of lighting levels

## Application

Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DMBC 110		<b>50636400</b>
DDBC 300-DALI		<b>50641800</b>
DDBC 320-DALI		<b>50642500</b>
DBC 410		<b>50648700</b>
DBC 905W		<b>50674600</b>
DDBC 1200		<b>50644900</b>
DBC 1205		<b>50656200</b>
DBC 1210		<b>50660900</b>
DBC 1220GL		<b>50668500</b>

## Dyalite Relay Controllers



## Sophisticated yet simple energy-efficient lighting solutions

As one of the most popular forms of lighting control, relay and multi-use devices can have the greatest impact in terms of energy management and lighting control. Available in both DIN-rail and wall-box configurations, this Philips Dyalite solution enables a vast range of relay controllers with a variety of circuit numbers and sizes to work individually or as part of a system, thus fulfilling any project requirement. Each device can store over 170 presets, allowing the recall of complex switching logic from simple network messages. As the required preset scenarios are stored within each relay device, the commissioning process and network messages are simplified.

## Product Benefits

Enables a range of relay controllers with a variety of circuit numbers and sizes to work individually or as part of a system.

Simplifies commissioning process and network messages.


## Product Features

Available in both DIN-rail and wall-box configurations

Each device can store over 170 presets

## Application

Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DMRC 210		<b>50688300</b>
DDRC 420FR		<b>50690600</b>
DDRC 810-GL		<b>50692000</b>
DRC 810DT		<b>50706400</b>
DRC 1205		<b>50708800</b>
DRC 1210		<b>50714900</b>
DRC 1220GL		<b>51060600</b>

## Dyalite System Integration



## Sophisticated yet simple energy-efficient lighting solutions

Within any modern project, many third-party systems can be found performing different roles. Each separate system may use a different protocol for communication. Philips Dyalite has developed a range of gateway devices that can be used to synchronize these systems' functions into one integrated system solution. By utilizing the correct gateway, different systems can be integrated, allowing end-users access to a fully automated site from one interface.

By successfully integrating third-party systems with a Dyalite solution, repetitive end-user interaction is reduced.

## Product Benefits

Reduces repetitive end-user interaction  
Allows access to fully automated site from one interface

## Product Features

A range of different gateways provides different integration opportunities and network management options

## Application

Depends on the lighting system in which the controls are used

Type	Type description		Ordering number 8710163...
DDNI LON	LON	I	<b>50790300</b>
DIR TX8		I	<b>50772900</b>
DDMIDC 8		I	<b>50784200</b>
DDFCUC 024		I	<b>50782800</b>
DNG 100BT		I	<b>50793400</b>
DMNG 100BT		I	<b>50776700</b>
DMNG 232		I	<b>50778100</b>
DDNG 485		I	<b>50787300</b>
DDNI 485		I	<b>50788000</b>
DNG 485		I	<b>50796500</b>
DPMI 940		I	<b>50780400</b>

## Dyalite Network Accessories



## Sophisticated yet simple energy-efficient lighting solutions

To bring all the different devices together, Philips Dyalite supports a range of network devices that are useful in creating a problem-free installation.

## Application

Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DPP 601	I	<b>50808500</b>
DTK 622-USB-J	I	<b>50804700</b>
DDNP 1501	I	<b>50806100</b>

## Dyalite Sensors

**Sophisticated yet simple energy-efficient lighting solutions**

The Philips Dyalite sensor range combines motion detection, light level detection and IR receive in one unit. Each of these features can be operated at the same time, allowing automation scenarios such as turning on the lights after detecting motion and then dimming the lighting level once the available sunlight has been measured, thereby providing additional energy savings. By combining each of these functions into one device, operational efficiency is improved. Each sensor has an in-built microprocessor, allowing logical functions to control one small room, the floor of a building, or an entire building. All sensors receive their power from the DyNet network, and as they are

fully remotely programmable, they can be configured to automate and control a virtually unlimited number of controlled outputs.

**Product Benefits**


Reduces the need for many different types of sensors, thereby preventing ceiling clutter  
Combines motion detection, light level detection and IR receive in one unit, thus improving efficiency

**Product Features**

Sensors are fully remotely programmable  
Built-in microprocessor

**Application**

Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DUS 704C		<b>50722400</b>
DTS 900		<b>50736100</b>

## Dyalite Time clocks

**Sophisticated yet simple energy-efficient lighting solutions**

Philips Dyalite timer clocks are true astronomical 365-day clocks with sunrise/sunset tracking, automatic daylight saving adjustment, and powerful macro and conditional logic functions. The timer clock interfaces with other devices over the DyNet RS485 network to automate tasks and trigger time-based events. It may be used as an energy management controller or simply to select scenes at preset times of the day or week.

The timer clock is powerful enough to provide full automation of a large commercial project and can be programmed with events that automatically run at a specified time. A typical application would entail automatically adjusting lighting levels throughout the day, using long fade time to ensure a disruption-free and smooth work cycle. If required, a local button press on a panel can

override the pre-programmed events until the next timed event occurs.

**Product Benefits**


Can be used for energy management and to select scenes at preset times of the day or week  
Can provide full automation of a large project

**Product Features**

Pre-programmed events can be overwritten with local button press  
Can be used to set the operating mode of other devices in energy management applications  
Sunset/sunrise tracking and automatic daylight savings adjustment  
Can interface with other devices over DyNet RS485 network

**Application**

Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DDTC 001		<b>50740800</b>
DTCE 602		<b>50742200</b>

## Dyalite Remote Controls



## Sophisticated yet simple energy-efficient lighting solutions

DTK500 hand-held remotes are compatible with all Philips Dyalite sensors and panels equipped with an IR receive option. The hand-held remote control allows users to select scenes, ramp lighting levels, or trigger tasks.

## Application

Depends on the lighting system in which the controls are used

Type		Ordering number 8710163...
DTK 504	I	<b>50762000</b>

## Dyalite User Interface



## The ultimate in user interface solutions – balancing aesthetics and function

Regardless of the level of integration and range of available functions, a control system requires an intuitive end-user interface, so that users can easily schedule and activate the various control functionalities. Philips Dyalite user interfaces come in a broad range of panels, touchscreens and wiring devices – with a rich variety of styles and finishes to match any project budget, level of interactivity, or décor requirements.

- User interfaces for automation systems from standard up to premium
- Fully customizable in terms of functions and aesthetics
- Flexibly programmable during and after commissioning

- Wide choice of products for any application
- Ultimate in flexibility – various styles and finishes for consumer and commercial environment, full configurability and customization
- Wiring devices – many function types, aesthetic matching to control panels, modular design
- Panels – many different button layouts, custom engraving, programming settings within area
- Touchscreens - ultimate interactivity, intuitiveness by custom created screen interface, limitless décor matching options
- Hospitality, retail, offices
- Public spaces and multi-purpose event centers
- Smart homes

Type	Type description		Ordering number
PABPE MM-X	Button and rim finish magnesium, no button labels	I	871829  <b>67049000</b>
PATPA VW-X	Button and rim finish white, no button labels	I	871829  <b>70824700</b>
PATPA WA-X		I	871829  <b>70826100</b>
PATPA WC-X		I	871829  <b>70828500</b>
PATPA WB-X		I	871829  <b>70830800</b>
PATPA BW-X		I	871829  <b>70832200</b>
PATPA BA-X		I	871829  <b>70834600</b>
PATPA BC-X		I	871829  <b>70836000</b>
PATPA BB-X		I	871829  <b>70838400</b>
DTP 100		I	8710163  <b>50744600</b>
DUS 804C		I	8710163  <b>50729300</b>
DPNE 963-SF		I	8710163  <b>50818400</b>

## ActiLume DALI



## ActiLume DALI - a simple approach

The Philips ActiLume lighting control system consists of a small, lightweight sensor and controller designed for easy integration into luminaires.

ActiLume is a true plug & play solution for open-plan (up to 34 luminaires) or cell offices (e. g. 4 luminaires). Used in a master-and-slave luminaire concept, easy to use and easy to install. Specific application brochures are available to help specify and apply the system in an optimal way.

Commissioning is optional for all application modes. Using this method, functions can be changed without affecting the electrical installation.

## Benefits

- ActiLume is a plug & play control system which offers energy saving by daylight harvesting and automatic switching. The system is supported with simple, dedicated application and installation sheets
- The ActiLume system consists of three state-of-the-art miniature sensors combined with a controller containing a series of pre-programmed modes
- The two most frequently applied modes – cell or open-plan offices – can be selected via a simple push of the service button

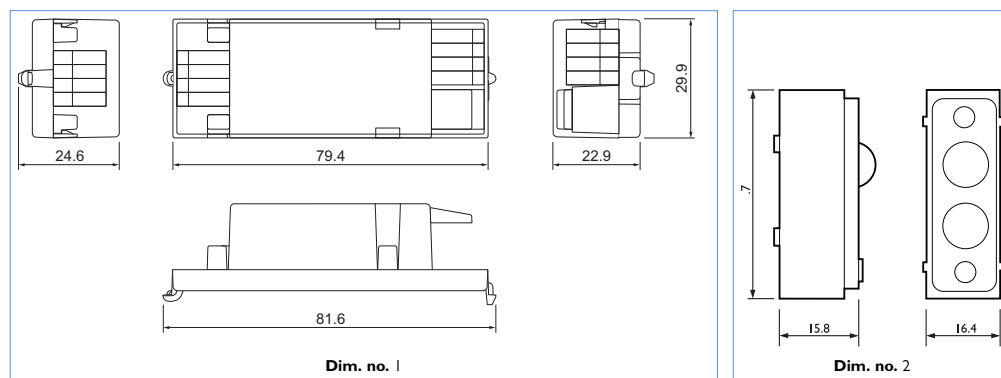
## Features

- Philips ActiLume is a DALI-based lighting control system designed for maximum visual comfort and energy savings of up to 75% (in fully automatic mode and when used in combination with Philips HF-Regulator EII Touch and DALI ballasts). This makes it possible to achieve a quick return on investment.

- The light sensor is sensitive to visible radiation (matching the human eye), providing automatic savings through daylight-dependent regulation, without any visual discomfort for the user.
- The movement detector is very sensitive to human movement and is combined with extended delays to provide optimal functionality in an office environment.
- Semi-automatic solutions can be created by connecting a mains-rated spring-back switch to the controller or by using an infrared remote control unit. In this way the settings can be manually overruled according to personal preference.
- In addition, ActiLume makes it possible to choose specific modes that have been specially developed in line with new legislation, thus making the system very versatile in use. These modes can be activated by using the simple mode selection tool IRT8098/0.
- A specific application setting can be changed easily by selecting another mode on the advanced mode selection tool IRT8099/20.
- The system can control a maximum of 34 ballasts and can be extended with a maximum of two additional movement detectors, extension sensor type LRM8118/0 or LRM8119. For each additional movement detector the maximum number of ballasts is decreased by 1.
- The factory light-level setting is 600 lux at a reflection factor of 0.3.

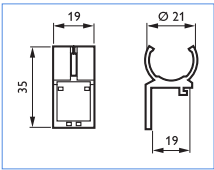
## Application

- The ActiLume system is designed for all office applications, from open-plan to cell offices, lobbies or toilets, and from corridors to small meeting rooms
- It offers specific comfort modes, e. g. for schools, light-lines and direct/indirect lighting concepts



Type	Dim. no.	Packing type/Packing configuration		Ordering number
LCC1653/01 ACTILUME CONTROLLER	1	UNP / 48	48	871150091042430
LRI1663/00 ActiLume gen2 Multi-Sensor	2	ICT / 12	12	871829168092500

LuxSense



LuxSense- simple daylight harvesting

LuxSense is a DayLight Regulation option (DLR) for luminaires equipped with a Philips HFR ballast. The sensor measures the reflected light coming from the surface below. It dims down the lamp output when the light level exceeds the required light level defined by the light sensor set point. LuxSense can be installed in the luminaire by attaching it to the lamp with a lamp clip. LuxSense is available as a complete set with a sensor and a lamp clip: LRLI220 TL-D for TLD lamps and LRLI220 TL5 for T5 lamps.

Benefits

- A simple Daylight Regulation device which can easily be fitted in a I-10 V luminaire
- Offers energy saving opportunities when installed near windows


Features

- LuxSense is connected to the I-10 V DC control input of the HFR ballast
- LuxSense dims light down to the minimum level of the ballast (3% for the Philips HFR ballast)

- LuxSense is calibrated for use in a standard office situation with 600 lux installed and 500 lux required
- If needed, LuxSense can be manually adjusted by a rotating diaphragm to adjust the set point. The sensitivity of the sensor can be changed within a range from 1/3 to 3
- The new set point can be copied for all LuxSense luminaires with similar daylight and reflection conditions
- LuxSense can regulate up to 20 luminaires equipped with Philips HFR ballasts

Application

- LuxSense is designed for all office applications
- LuxSense is designed for average ceiling heights of between 2.5 and 3 m
- LuxSense can be used alone or in combination with other control products in order to add the daylight regulation functionality (e. g. combination of LuxSense with OccuSwitch)

Type	Minimum dim level	Packing type/Packing configuration		Ordering number 8711559...
LRLI220 TL-D	1.5V	UNP / 100	100	<b>67012630</b>
LRLI220 TL5	1.5V	UNP / 100	100	<b>67010230</b>

Smart Interfaces



Product description

The ToBeTouched range consists of user interfaces to promote user interactivity with the system/luminaires. There is a ToBeTouched interface for almost every luminaire/controller. Addresses the segment for stand-alone with no commissioning tool. ToBeTouched currently comprises four models. These range from a simple on/off switch and a version with dimming to a cool/warm-white controller and a full-color model.

Benefits

- Choice of an infinite variety of colours – with one touch, thanks to the user-friendly colour ring
- Intuitive touch-based user interface with sophisticated, exciting design

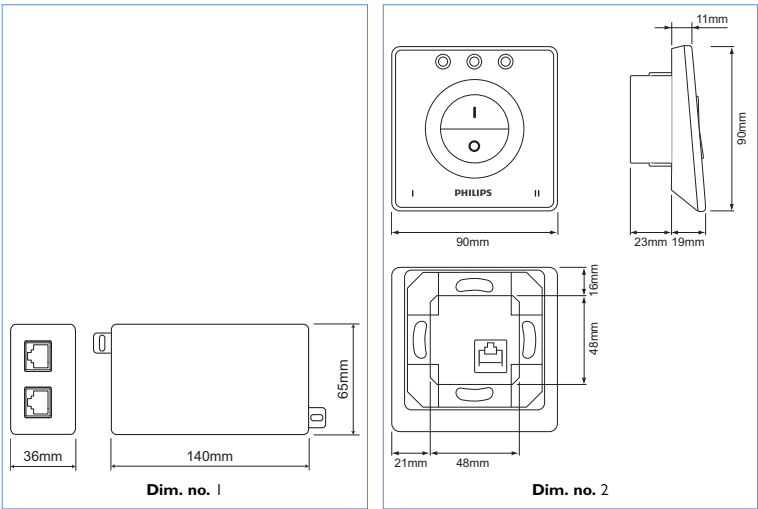
- Allows user to set preferred lighting mood to suit the occasion
- Easy to install and customize – plug and play


Features

- Glowing light ring provides feedback with light
- DMX- Dali and RC5- IR-compliant
- Comprehensive product portfolio: currently four models: simple on/off, dimming, cool/warm-white controller and full colour model
- For the UID8520 (ToBeTouched DALI) there are presets in the ring that are compatible with presence detection (ActiLume extension sensor, OccuSwitch Dali)

Application

- Offices
- Education
- Retail
- Hospitality
- Healthcare



Type	Dim. no.	Packing type/Packing configuration		Ordering number 8727900...
UIA8550 TOBETOUCHES PSU	I	ICT / I	I	88683200
UID8540 TOBETOUCHES COLOR DMX	2	ICT / I0	I0	87352800



## iPlayer3




## iPlayer 3

iPlayer 3 is a DMX lighting controller that is able to store and play custom-authored or pre-programmed light shows. The iPlayer can control up to two full DMX universes or 340 individual RGB luminaires, and once uploaded, shows may be accessed for editing. It's equipped with five touch sensitive preset buttons and a LCD interface that allows navigation between different operating modes.

## Benefits

- Stores and plays custom-authored or pre-programmed light shows - after uploading, shows can be accessed for editing
- Controls up to two full DMX universes or 340 individual RGB luminaires
- Five touch-sensitive preset buttons and an LCD interface allow navigation between different operating modes

Type	Type description	CE mark	Dim. no.		Ordering number
SSLCTR LRC9628 IPLAYER3 EU (100-240V)	iPlayer 3 European version, 100-240 V	CE	1	6	8717943 <b>700585</b> 99
SSLCTR IPLAYER3 AUX BOX 100-277V CE CQC	iPlayer 3 auxiliary box	CE	7	8	8718291 <b>377047</b> 99

## Video System Manager Pro




## Video System Manager

Video System Manager is an integrated software/hardware solution that allows video-based, Ethernet control, intuitively facilitating the reproduction of complex video effects in a lighting installation. It converts standard live video signals from a variety of media sources, including media servers, DVD players, camcorders, and personal computers, and streams the video content scaling to accommodate large installations that may exceed thousands of individually controlled LED nodes.


## Benefits

- Integrated software/hardware solution for video-based Ethernet control, facilitating the reproduction of complex video effects in lighting installations
- Converts standard live video signals from a variety of media sources including media servers, DVD players, camcorders and PCs
- Streams the video content, even to large installations with up to thousands of individually controlled LED-based nodes

Type	Type description	CE mark		Ordering number 8727900...
SSLCTR LRC9626 VSM PRO DVI	Video system manager Pro, digital video	CE	1	<b>71559000</b>

## Tools &amp; Accessories



Type	Type description	CE mark		Ordering number
SSLCTR LRC9627 ETHERNET KEYPAD (POE)	Ethernet keypad (Power over Ethernet)	CE	10	8717943 <b>70064699</b>
SSLCTR LRC9629 SERIAL KEYPAD	Serial keypad	CE	10	8727900 <b>71405099</b>

## SSL Controls



## Create your own atmosphere - in-a-box solutions

ColourChaser is a range of simple, easy-to-use lighting control solutions that enable users to create their own lighting ambience. Providing out-of-the-box functionalities, Philips' user-friendly control solutions are ready for use directly after installation. Even users with minimal technical background can install and operate these 'in-a-box solutions'. With the ColourChaser family, it is possible to directly set a color, dim, or create one's own color sequence, simply by pushing a button or turning a wheel.

## Benefits

- Set-and-forget operation


- Ability to download and play custom shows
- Ultra-compact and lightweight

## Features

- Shows loop automatically – no trigger or additional configuration required
- Choice of six configurable effects
- Download and play custom ColorPlay 3 light shows
- Weight of only 87 g and a small footprint
- Includes a removable 2 GB microSD card, generous enough to store a lengthy or complex ColorPlay 3 light show


## Application

- Small to medium-sized installations with dynamic RGB or dynamic white DMX controllable fixtures

Type	Type description	CE mark		Ordering number 8718291...
SSLCTR LRC9641 iColor Player	iColor Player	CE	I	<b>37767299</b>

## ZCX400 Power/data accessories



Type	Type description	CE mark	Dim. no.		Ordering number
ZCX400 DATA TERMINATOR	Data terminator			500	8727900 <b>71049699</b>
ZCX400 DMX512 ADAPTER CABLE	DMX512 adapter cable			50	8727900 <b>71050299</b>
ZCX400 PDS-150E	Power/data supply, 150 W, E version	CE	1	2	8727900 <b>71081699</b>
ZCX400 PDS-60 24V	Power/data supply, 60 W 24 V	CE	2	4	8727900 <b>71085499</b>
ZCX400 PDS-60 24V DMX/ ETHER	Power/data supply, 60 W 24 V, DMX/Ethernet	CE	2	4	8727900 <b>71086199</b>
ZCX400 PDS-60CA 24V	Power/data supply, 60 W 24 V, CA version		2	4	8727900 <b>71084799</b>
ZCX400 PDS-60CA 24V DMX	Power/data supply, 60 W 24 V, CA version, DMX		2	4	8727900 <b>71560699</b>
ZCX400 PDS-60CA 7.5V DMX/ ETHER	Power/data supply, 60 W 7.5 V, CA version, DMX/Ethernet		2	4	8727900 <b>71083099</b>
ZCX400 PDS-60CA EXP CARD	Power/data supply, 60 W expansion card		2	4	8727900 <b>71082399</b>
ZCX400 PDS-70MR 24V DMX	Power/data supply, 70 W 24 V, MR version, DMX	CE		4	8727900 <b>71088599</b>
ZCX400 SPDS-480CA 24V-480W 8PORTS	8-port SPDS-480CA, 24 V 480 W	CE	3	1	8727900 <b>71099100</b>
ZCX400 SPDS-480CA 7.5V-480W 16PORTS	16-port SPDS-480CA, 7.5 V 480 W	CE	3	1	8727900 <b>71096000</b>
ZCX400 SWITCH UNMANAGED 4 POE PORT Gb (4	Unmanaged switch 4 POE port, 48 V			6	8718291 <b>37658399</b>

IntelliPower



IntelliPower – enabling the transition from static conventional lighting to dynamic LED lighting using existing electrical infrastructures

IntelliPower employs an innovative implementation of proven power-line carrier technology to deliver high-bandwidth control data over standard 2 + ground wiring, enabling the integration of intelligent LED lighting solutions into existing power systems. By leveraging existing electrical and physical infrastructures, IntelliPower technology lets you affordably install dynamic, digitally controllable LED lighting where it was never possible before.

Infinitely flexible configurations

IntelliPower devices can be installed in virtually any configuration to support the full range of lighting design needs. You can use multiple Data Receiver IntelliPower devices on a branch to connect individual LED lighting fixtures in situations where you cannot lay new cable. And you can send the same data stream to multiple Data Enabler IntelliPower devices to control fixtures on multiple branches from a single control source.

Benefits

- Allows dynamic LED lighting solutions in existing installations without the need for new wiring.


- By merging control data with line voltage and transmitting them over a single standard 2 + ground cable, IntelliPower lets you cost-effectively install intelligent Powercore fixtures in existing structures.
- IntelliPower systems work seamlessly with the complete Philips line of controllers, including Video System Manager Pro, Light System Manager, and iPlayer 3, as well as third-party controllers.

Features

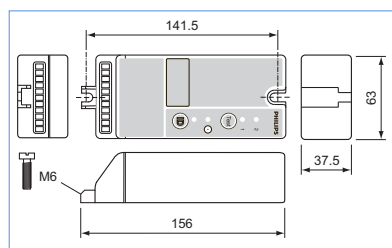
- Allows installation of dynamic LED lighting without replacing existing cabling.
- Ideal for situations where re-wiring is not desirable or feasible.
- Allows flexible standard mains wiring schemes (mains plug & socket-based) to not only power but also control Philips Color Kinetics Powercore fixtures, e. g. in shop windows.
- IP66 outdoor-rated
- Site Assessment Tool provides support in evaluating site readiness, troubleshooting, and commissioning.

Application

- Historical buildings
- In-ground systems
- Bridges
- Monumental exteriors
- Retail

Type	Type description	CE mark	Colour	Dim. no.		Ordering number
PWRDAT iPOWER DATA ENABLER GR CE	IntelliPower data enabler	CE	Grey	7	4	8718291... <b>60262099</b>

## Starsense Powerline



## Light pole and cabinet control system - proven robustness

Starsense Powerline is a networked controls system based on two-way power line communication using the LonWorks® open protocol. The system - making use of the existing power grid - enables individual light points to be controlled remotely and to be managed via online platforms, like CityTouch. Lighting operators can control remotely the outdoor lighting infrastructure setting dimming levels to achieve considerable energy savings and can get real time feedback from the luminaires reducing operating and maintenance costs via accurate scheduling of on-site maintenance service tasks, while improving both the quality and reliability of outdoor lighting.

## Benefits

- Energy saving by on time on/off and dimming

- No investment in infrastructure required (uses existing power supply grid)
- Communication based on open standards

## Features

- LonWorks® powerline communication open protocol
- Remotely control the On/Off/Dim schedules at light pole level
- Monitoring operational parameters at light pole and cabinet level

## Application

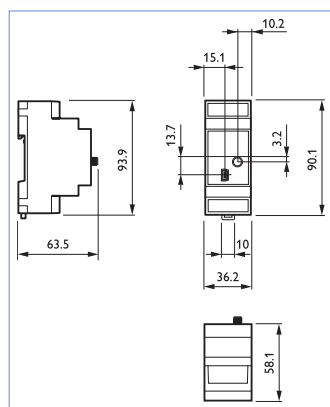
- highways, roads or street lighting in general, including residential areas

## System

- LFC7070 Starsense PL Segment Ctrl CiTo
- LLC7030 Starsense PL OLC DALI
- LLC7040 Starsense PL OLC I-I0 V
- LLC7033 Starsense PL OLC DALI Poletray
- LLC7043 Starsense PL OLC I-I0 V Poletray
- LRV7310 Outdoor Configuration Assistant

Type	Packing type/Packing configuration		Ordering number
LLC7030/00 OLC DALI 220-240V 50/60Hz	ICT / 24	24	8711559 <b>73281799</b>
LRV7310/00 Outd. Configuration Assistant	ICT / 1	1	8718291 <b>12626300</b>

## Starsense Wireless



## End-to-end wireless intelligent management system for your outdoor lighting

Starsense Wireless is a networked controls system based on two-way wireless communication using the latest in mesh network technology. The system enables individual light points to be controlled remotely and to be managed via online platforms, like CityTouch.

Lighting operators can control remotely the outdoor lighting infrastructure setting dimming levels to achieve considerable energy savings and can get real time feedback from the luminaires reducing operating and maintenance costs via accurate scheduling of on-site maintenance service tasks, while improving both the quality and reliability of outdoor lighting.

## Product Benefits


- Very low efforts, quick and error free commissioning
- Reliable system: long range, limited interference
- No software installation costs, easy access from everywhere, automatic back-ups

## Product Features

- Auto commissioning based on collected asset information
- Sub-GHz (868 MHz) frequency for communication
- User friendly, web-based end-user interface
- Freedom to select any dimmable driver supplier using DALI or I-I0 V
- Future-proof: scalable network and upgradeable over the air

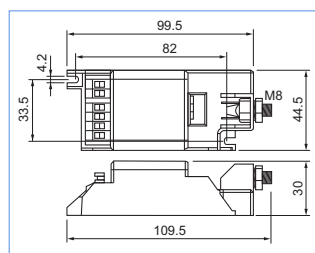
## Applications

- Designed for highways, roads and street lighting, including areas like parking lots

Type	Packing type/Packing configuration		Ordering number 8718291...
LCN7310/00 Starsense Wireless SC RF mod	INO / I	I	<b>54744000</b>
LRV7310/00 Outd. Configuration Assistant	ICT / I	I	<b>12626300</b>



## Dynadimmer



## Dynadimmer - different ways

Luminaire based, stand-alone controller for I-IO V electronic driver. Suitable for outdoor applications like roads, streets, residential and area lighting

5-step dimming schedule is created in easy-to-use software, dimming schedule is downloaded in Dynadimmer via a Programmer or USB PC cable.

## Benefits

- Maximize energy savings through 5-level dimming
- Stand-alone, no commissioning, no operational costs
- Reduced light nuisance

## Features

- Easy-to-use software provides a forecast of energy savings
- Very small size — fits inside almost any luminaire
- Double isolated SELV version for LED luminaires

## Environment


- Up to 50% energy savings and CO<sub>2</sub> emission reduction possible depending on lamp-driver combination and selected dimming schedule
- Reduced light nuisance to prevent disruption to human and animal bio-rhythms

## Application

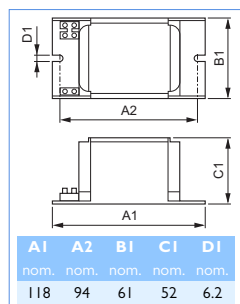
- Each Dynadimmer can control a driver-lamp combination in a stand-alone manner
- Designed for use in road, street, residential and area lighting applications including parking lots, ports, train stations and industrial complexes
- The design of the Dynadimmer is optimized for mounting in a luminaire or gear tray
- The Philips Dynadimmer is designed and released to interact with Philips I-IO V gear and is compatible with dimmable drivers with a standard I-IO V interface

## System

- Operates any I-IO V electronic driver
- Designed to be controlled through external dusk-dawn switches like light sensors or cabinet-controlled switching

Type	Packing type/Packing configuration		Ordering number 8727900...
LCC7210/00 DYNADIMMER USB PC CABLE	IBG / 25	25	<b>90057600</b>
LLC7220/00 DYNADIMMER SELV	UNP / 48	48	<b>88138700</b>

## HID-DynaVision Control for SON



## Product Description:

- HID-DynaVision Controller for combination with dimming ballast (BSH), electromagnetic ballast (BSN) and ignitor

## Product Benefits

- 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

## Product Features

- Dimming down to 35% system power
- I-IO 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


## Environment

- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet

## Applications:

- 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)

I-IOV

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	6	BSH2540K30	<b>94035000</b>

VAYA DMX Booster



Vaya DMX Booster – reliable and economical DMX splitter/booster

Philips Vaya DMX Booster is a 6-output DMX/RDM splitter with DMX/RDM pass-through supporting bi-directional communications for discovery, addressing and DMX control of Philips Vaya products. This unit takes the incoming DMX/RDM signal and splits the signal into six separate output channels, allowing expansion of the number of devices controlled from 32 to 6 x 32. The output terminals are electronically isolated from the input & RDM-through port and share a common ground reference. All six output ports have an independent output driver to boost the DMX/RDM signal.

- 1:6-way DMX/RDM splitter/booster
- Isolated DMX/RDM input/outputs
- RDM mode for Philips Vaya auto-discovery
- DMX mode for Philips Vaya fixture control
- Surface or DIN rail-mountable
- AC adaptor included
- 3-year warranty
- DMX/RDM networks

Type	Type		Ordering number 8718291...
VAYACT	VAYACT LRC2013 DMX 6-SPLITTER RB-6WM	32	60102999

# Approvals and standards

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Luminaires sold in the market are expected to comply with the appropriate safety requirements as laid down in the European series of standards EN 60598 prepared by CENELEC, the European Committee for Electrotechnical Standardisation, and which are almost fully harmonised with the worldwide series of standards IEC 60598. European standards are accepted as the national standards and published as such. Since the issuing of the Low Voltage Directive, the availability of the appropriate safety standards has ensured that those manufacturers following them, such as Philips, have continuously improved quality. The European testing institutes, in cooperation with the European Luminaire Industry, introduced the ENEC mark in January 1993. All luminaires supplied by Philips comply with the ENEC criteria and many indeed carry the ENEC mark to show the involvement of objective third parties. The CE mark, is carried on all products that require verification of CE compliance.



# Lighting Technology

## Fundamentals of Light and Colour

### 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 electromagnetic 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 µm  
IR-B 1,4 µm – 3,0 µm  
IR-C 3,0 µm – 1,0 mm

#### Visible radiation:

Light 380 nm – 780 nm

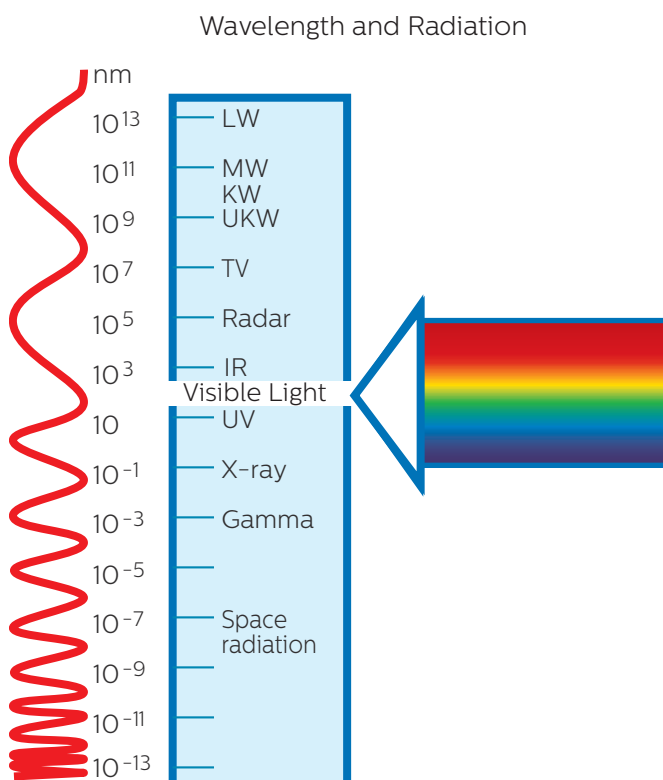
UV-C radiation has a bactericide effect and causes erythem (redness of the skin) and conjunctivitis. Radiation with wavelengths under 200 nm generates ozone from oxygen. UV-B radiation causes erythem and generates vitamin D in the body. UV-A radiation tans the skin without causing a sunburn. It stimulates 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.

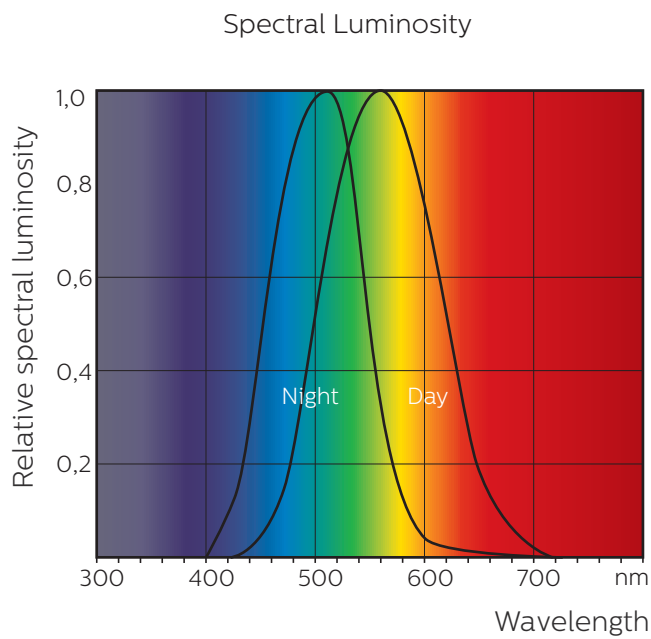
The spectrum of visible radiation (light) can be subdivided into various wavelength ranges, causing certain colour sensations in the human eye:

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.





4. Spectrum

White sunlight is made up of electro-magnetic waves of various lengths. Guiding a narrow beam of sunlight through a glass prism displays a colour spectrum similar to the one we see in a rainbow. During the generation of a rainbow the numerous raindrops in the air act as prisms breaking up the sunlight. Each colour represents a distinctive wavelength. All light waves taken together create the impression of white light

Coloured objects are perceived in their true colour only if the respective colour is present in the spectrum of the light source too. This is the case e.g. with the sun, incandescent and fluorescent lamps with good colour rendering qualities. If the light of a low pressure sodium lamp e.g. is guided through a glass prism though, only yellow radiation can be perceived as the spectrum of this light source lacks all colours except yellow.

5. Fading of materials

Fading of e.g. textiles is an effect of photo chemical processes caused by the absorption of radiation energy. The amount of change in colour depends on the intensity of the illuminance the material is exposed to, the duration of time the material is exposed to the radiation, the temperature and the spectral formation of the radiation; the shorter the wavelength the higher the energy of the radiation. The fading effect can be slowed down by reducing the illuminance, by switching on the light source for short periods of time only, and by using light sources emitting little shortwave radiation.

The fading risk can be calculated using the following formula:

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

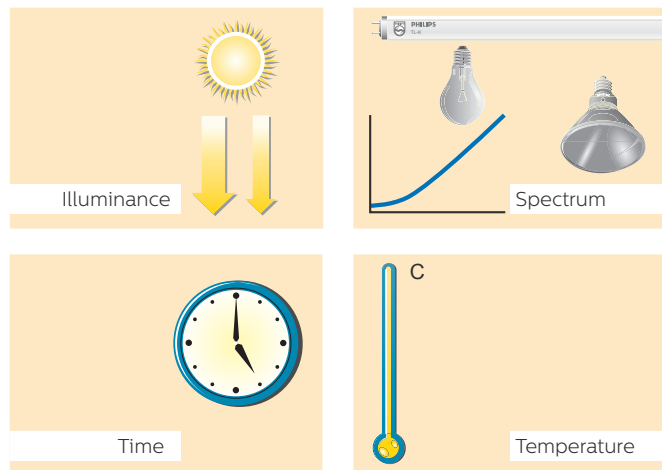
FR = Fading risk                      DF = Damage factor  
E = Illuminance (lx)                t = Time (hrs)

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

Light Source and Spectrum


Type of lighting	Damage factor
Daylight through 4 mm window glass	0,43 – 0,68
Incandescent lamps	0,08
Halogen lamps open	0,20
Halogen lamps with envelope or UV block	0,12
SDW-T lamps	0,10
Metal halide lamps open	0,50
Metal halide lamps with envelope	0,2
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



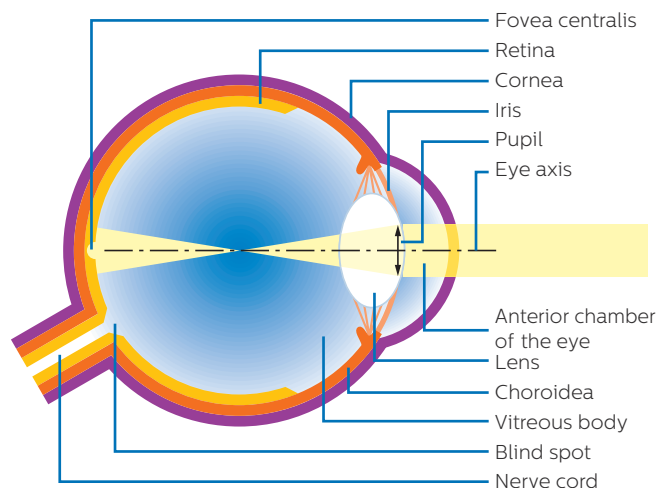
## 6. Black body

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.

### The Eye – A Camera



## 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

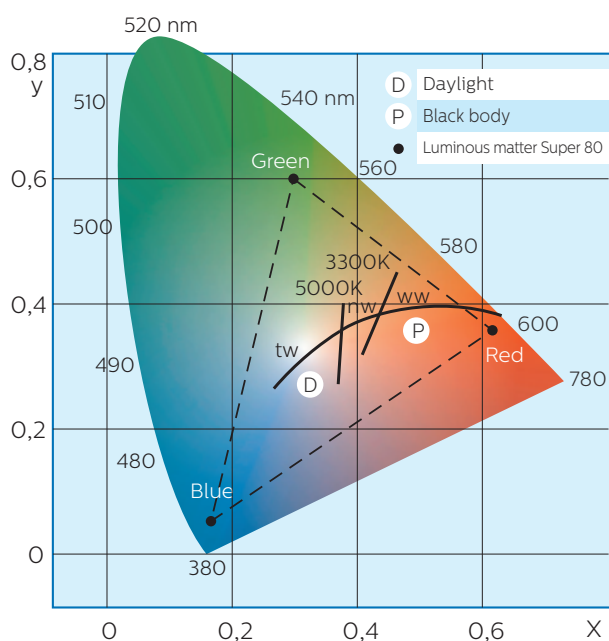
$L_2$  = Luminance of the object

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

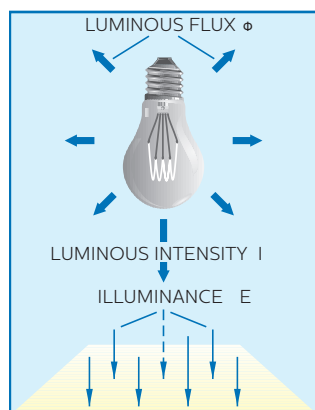
The perception of colour is caused by visible radiation stimulating the receptive system of the eye. The colour stimulus originates either directly from a light source or an object being illuminated or shone through. Object colours are generated by illumination and depend on the respective light's spectrum 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).

Chromaticity Diagram



# Units and Formulas

## 1. Variables and units in lighting technology



Variable	Symbol	Unit	Definition
Luminous flux	$\Phi$	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	$L$	$\text{cd/m}^2$ $\text{cd/cm}^2$	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

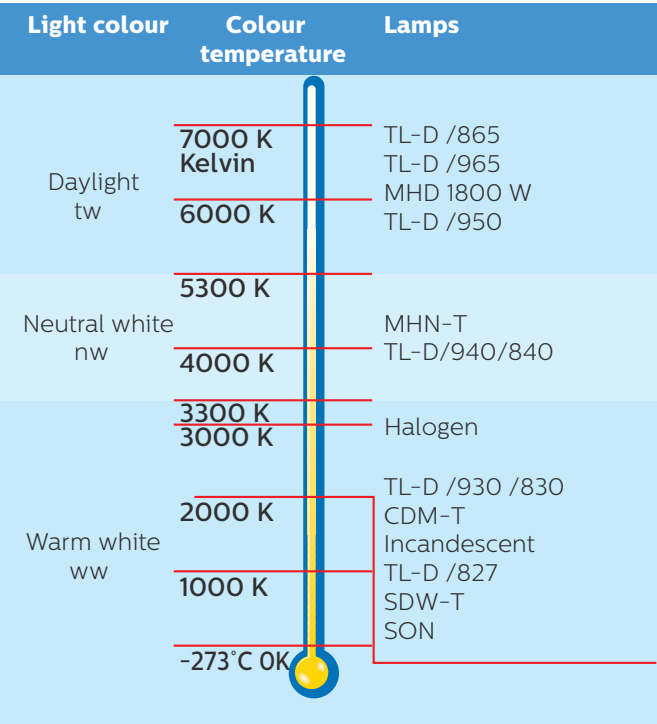
Variable	Symbol	Ratio	Definition
Luminous efficacy of a light source	$\eta$	$\eta = \frac{\Phi_{Lp}}{P}$	Emitted luminous flux divided by the power input of the lamps
Light output ratio	$\eta_{LB}$	$\eta_{LB} = \frac{\Phi_L(t_L)}{\sum \Phi_{Lp}}$	Ratio of the total flux of the luminaire, measured under specific practical conditions, to the sum of the individual luminous fluxes of the lamps operating outside the luminaire under specific conditions
Utilance	$\eta_R$	$\eta_R = \frac{\Phi_N}{\sum \Phi_L}$	Ratio of a lighting installations' luminous flux on the utilized area to the total flux emitted to the room by the luminaires
Utilization factor	$\eta_B$	$\eta_B = \frac{\Phi_N}{\sum \Phi_{Lp}}$ $\eta_B = \eta_R \cdot \eta_{LB}$	Emitted luminous flux on the utilized area divided by the total flux of all the lamps in a lighting installation

# Lighting 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.

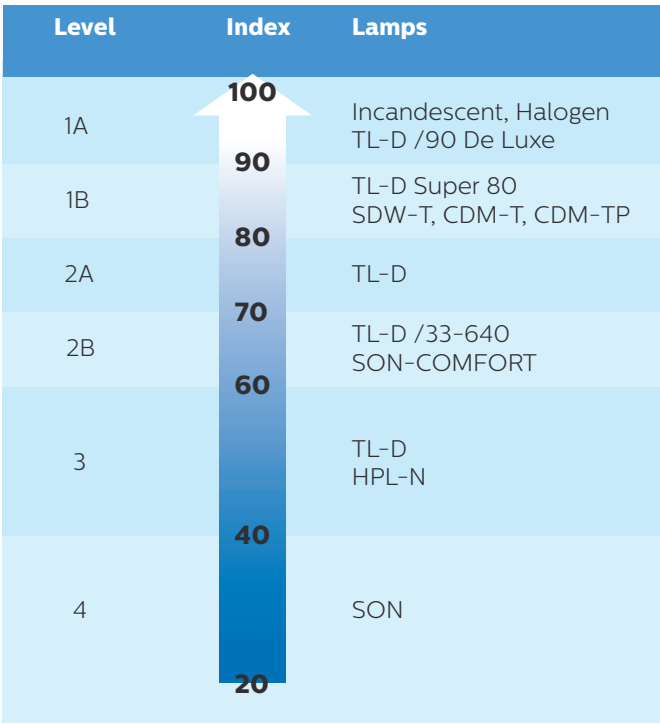
Quality Index — Light Colour



## 2. Colour rendering

The general colour rendering index Ra, derived from a set of eight test colours taken from everyday live, 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 (Ra=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.

# Philips Lighting Warranty Policies

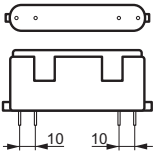
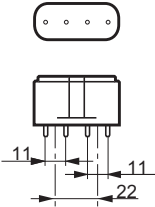
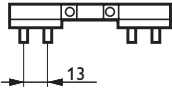
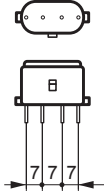
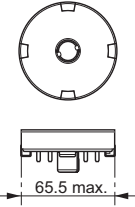
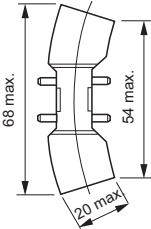

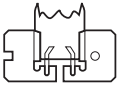
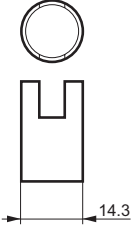


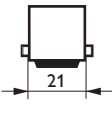
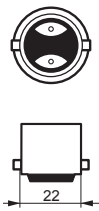
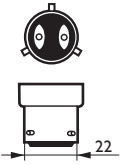


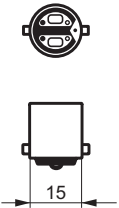


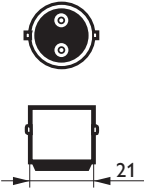

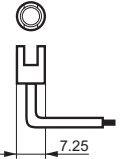
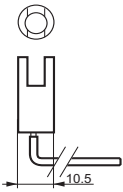
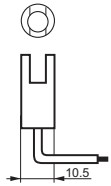
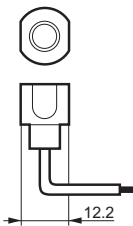
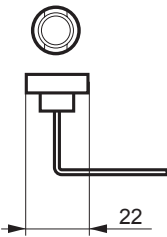
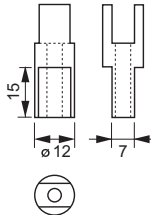

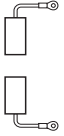

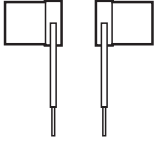
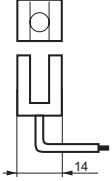

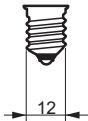
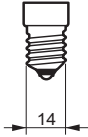


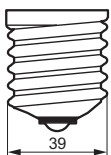
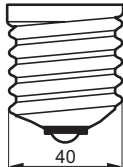
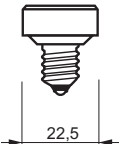
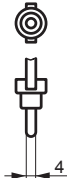

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Philips operates a number of warranty policies for its ranges in luminaires, lamps and components. For full details including how to request extensions and variations of warranties please visit **[philips.co.uk/lightingwarranties](https://philips.co.uk/lightingwarranties)**


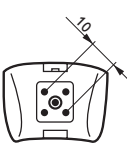
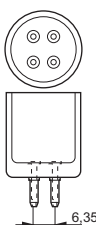
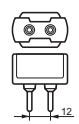
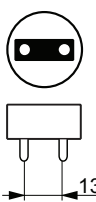
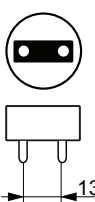
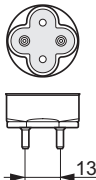
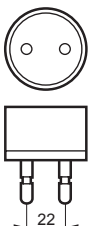
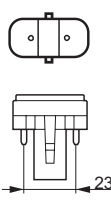
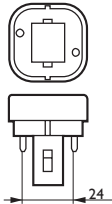
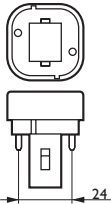
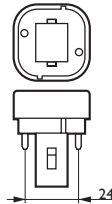
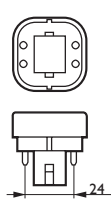
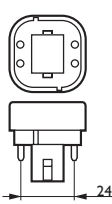
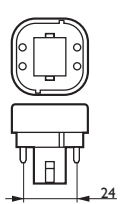
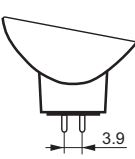

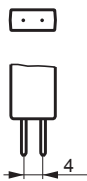
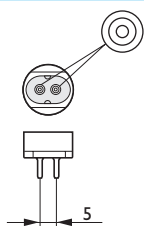
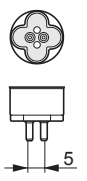

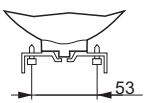

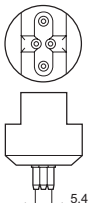
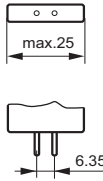
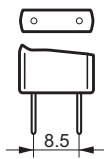
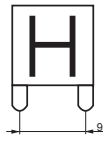
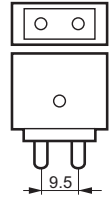
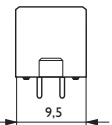
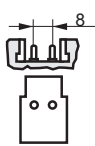
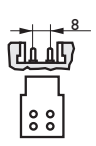
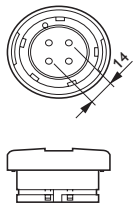

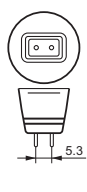
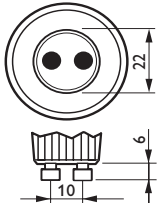
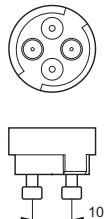
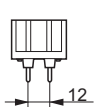
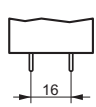
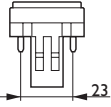
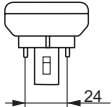
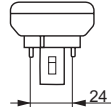
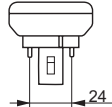


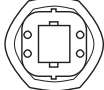
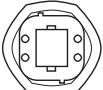
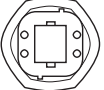
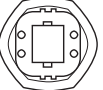

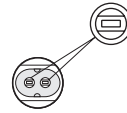

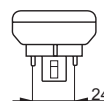
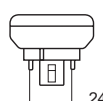
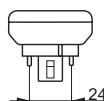
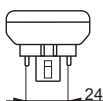
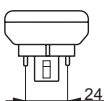
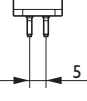
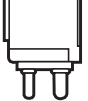

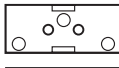
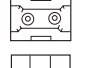




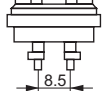
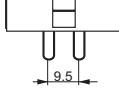
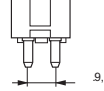

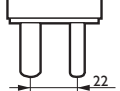


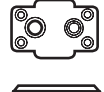



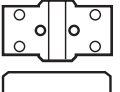
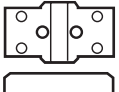
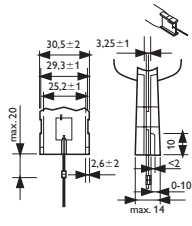
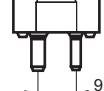
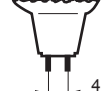

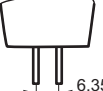
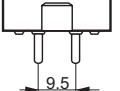

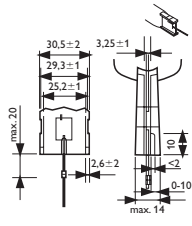
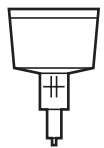



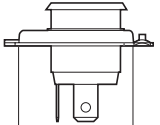






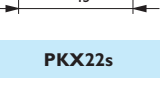


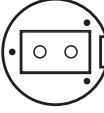

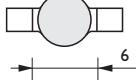

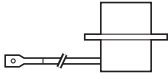
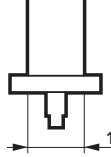
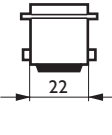

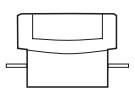
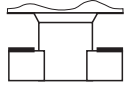

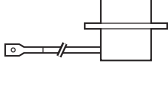
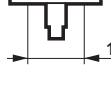
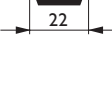
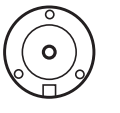



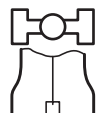

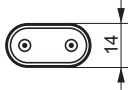



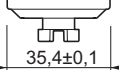





# Cap-Base Overview

2G10	2G11	2G13	2G7	2G8-I	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-I3	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
						

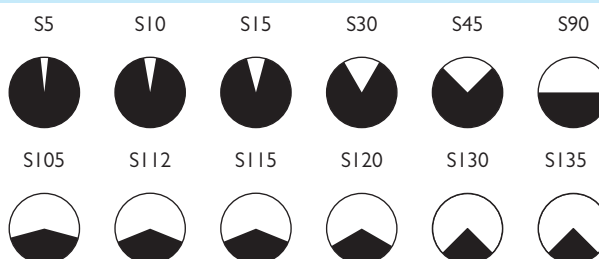
<b>GX24q-1</b>	<b>GX24q-2</b>	<b>GX24q-3</b>	<b>GX24q-4</b>	<b>GX24q-5</b>	<b>GX5</b>	<b>GX7.9</b>
						
						
<b>GX8.5</b>	<b>GX9.5</b>	<b>GX95/26</b>	<b>GY16</b>	<b>GY22</b>	<b>GY3.8</b>	<b>GY5.3</b>
						
						
<b>GY9.5</b>	<b>GZ4</b>	<b>GZ10</b>	<b>GZ6.35</b>	<b>GZ9.5</b>	<b>GZX/GZY/GZZ 9.5</b>	<b>K12x30s</b>
						
						
<b>M4/Multipurpose</b>	<b>P28s</b>	<b>P30s</b>	<b>P32d</b>	<b>P43t.38</b>	<b>PG12-1/PGX12-1</b>	<b>PG12-2/PGX12-2</b>
						
						
<b>PG22</b>	<b>PGJ4.1</b>	<b>PGJ5</b>	<b>PGJ5.1/PGJX5.0</b>	<b>PKX22s</b>	<b>(P)SFC</b>	<b>PX22d</b>
						
						
<b>PX28s</b>	<b>PY20s</b>	<b>RDC/R17d</b>	<b>R18s</b>	<b>R7s</b>	<b>RX7s</b>	<b>S14d</b>
						
						

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			

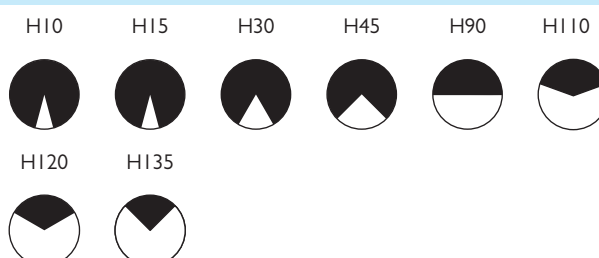
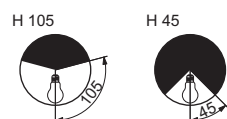
# Operating Positions

	permitted	non permitted
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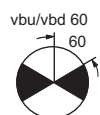
## S = vertical (base down)



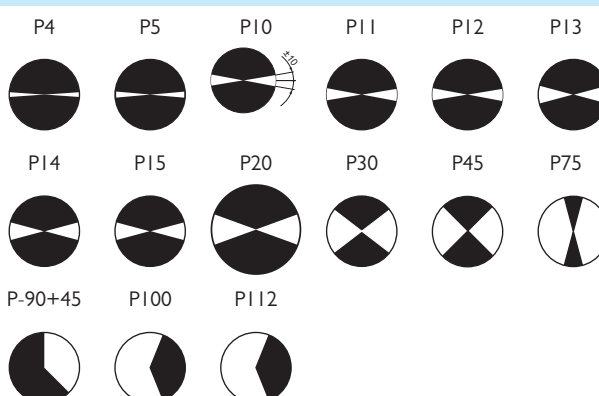
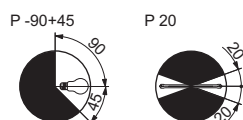
## H = vertical (base up)



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



## P = horizontal



## Universal



## ILCOS Overview

ILCOS	Commercial product name	Page
FBT 15/27/1b-230/240-B22	MASTER PLE-R 20W/827 B22 220-240V	50
FBT 20/27/1b-230/240-E27	MASTER PLE-R 20W/827 E27 220-240V	50
FBT 23/27/1b-230/240-B22	MASTER PLE-R 23W/827 B22 220-240V	50
FBT 23/27/1b-230/240-E27	MASTER PLE-R 23W/827 E27 220-240V	50
FBT-11/27/1b-230/240-E27	MASTER PLE-C 11W/827 E27 230-240V	50
FBT-8/27/1b-230/240-E27	MASTER PLE-C 8W/827 E27 230-240V	50
FD-13/40/1B-E-G5	MASTER TL Mini Super 80 13W/840	45
FD-13/41/2B-E-G5	TL Mini 13W/33-640	45
FD-15/30/1B-E-G13	MASTER TL-D Super 80 15W/830	34
FD-15/40/1B-E-G13	MASTER TL-D Super 80 15W/840	34
FD-16/40/1B-E-G13-26/604	MASTER TL-D Eco 16W/840	32
FD-18/27/1B-E-G13	MASTER TL-D Super 80 18W/827	34
FD-18/30/1A-E-G13	MASTER TL-D 90 De Luxe 18W/930	42
FD-18/30/1B-E-G13	MASTER TL-D Secura 18W/830	35
FD-18/30/1B-E-G13	MASTER TL-D Super 80 18W/830	34
FD-18/30/1B-E-G13	MASTER TL-D Xtra 18W/830	37
FD-18/30/1B-E-G13	MASTER TL-D Xtra Polar 18W/830 T12	38
FD-18/35/1B-E-G13	MASTER TL-D Super 80 18W/835	34
FD-18/38/1A-E-G13	MASTER TL-D 90 De Luxe 18W/940	42
FD-18/40/1B-E-G13	MASTER TL-D Super 80 18W/840	34
FD-18/40/1B-E-G13	MASTER TL-D Xtra 18W/840	37
FD-18/40/1B-E-G13	MASTER TL-D Xtreme 18W/840	40
FD-18/40/1B-E-G13	MASTER TL-D Xtreme Secura 18W/840	41
FD-18/53/1A-E-G13	MASTER TL-D 90 De Luxe 18W/950	42
FD-18/53/1A-E-G13	MASTER TL-D 90 Graphica 18W/950	43
FD-18/65/1A-E-G13	MASTER TL-D 90 De Luxe 18W/965	42
FD-18/65/1A-E-G13	MASTER TL-D 90 Graphica 18W/965	43
FD-18/65/1B-E-G13	MASTER TL-D Super 80 18W/865	34
FD-18/65/1B-E-G13	MASTER TL-D Xtreme 18W/865	40
FD-20/41/2B-LC/N-Fa6	TL-X XL 20W/33-640	44
FD-23/40/1B-E-G13	MASTER TL-D Super 80 23W/840	34
FD-30/30/1B-E-G13	MASTER TL-D Super 80 30W/830	34
FD-30/30/1B-E-G13	MASTER TL-D Xtra 30W/830	37
FD-30/40/1B-E-G13	MASTER TL-D Super 80 30W/840	34
FD-30/40/1B-E-G13	MASTER TL-D Xtra 30W/840	37
FD-32/30/1B-E-G13-26/1,200	MASTER TL-D Eco 32W/830	32
FD-32/40/1B-E-G13-26/1,200	MASTER TL-D Eco 32W/840	32
FD-36/27/1B-E-G13	MASTER TL-D Super 80 36W/827	34
FD-36/30/1A-E-G13	MASTER TL-D 90 De Luxe 36W/930	42
FD-36/30/1B-E-G13	MASTER TL-D Super 80 36W/830	34
FD-36/30/1B-E-G13	MASTER TL-D Xtra 36W/830	37
FD-36/30/1B-E-G13	MASTER TL-D Xtra Polar 36W/830 T12	38
FD-36/35/1B-E-G13	MASTER TL-D Super 80 36W/835	34
FD-36/38/1A-E-G13	MASTER TL-D 90 De Luxe 36W/940	42
FD-36/40/1B-E-G13	MASTER TL-D Super 80 36W/840	34
FD-36/40/1B-E-G13	MASTER TL-D Super 80 36W/840	34
FD-36/40/1B-E-G13	MASTER TL-D Xtra 36W/840	37
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MT/UB-50/930-H-G8.5-17/85	MASTERColour CDM-TC Elite 50W/930 G8.5	81
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MT/UB-70/942-H-G12-20/90	MASTERColour CDM-T Elite 70W/942 G12	78
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100CDOETPLUS828	MASTER CityWhite CDO-ET Plus 100W/828 E40 ISL 12	106
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14835	MASTER TL5 HE 14W/835 ISL 40	24
14840	MASTER TL5 HE 14W/840 ISL 40	24
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14BCGENIE10Y	GENIE 14W WW B22 220-240V IPF 6	51
14ESGENIE10Y	GENIE 14W WW E27 220-240V IPF 6	51
14PLR840ECO	MASTER PL-R Eco 14W/840/4P ICT 5X10CC	57
150CDMT830	MASTERCouleur CDM-T 150W/830 G12 ICT 12	79
150CDMT942	MASTERCouleur CDM-T 150W/942 G12 ICT 12	79
150CDMTD830	MASTERCouleur CDM-TD 150W/830 RX7s ICT 12	89
150CDMTD942	MASTERCouleur CDM-TD 150W/942 RX7s ICT 12	89
150CDMTTELITE930	MASTERCouleur CDM-T Elite 150W/930 G12 ICT 12	78
150CDMTP830	MASTERCouleur CDM-TP 150W/830 PGX12-2 ICT 12	88
150CDMTP942	MASTERCouleur CDM-TP 150W/942 PGX12-2 ICT 12	88
150CDOETPLUS828	MASTER CityWhite CDO-ET Plus 150W/828 E40 ISL 12	106
150CDOTTPUS828	MASTER CityWhite CDO-TT Plus 150W/828 E40 ISL 12	105
150MHNTD	MHN-TD 150W/842 RX7s ICT 12	96
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150SONCOM	SON Comfort 150W/621 E40 ISL 12	119
150SONPLUS	MASTER SON PIA Plus 150W/220 E40 ISL 12	116
150SONPLUSXTRA	MASTER SON APIA Plus Xtra 150W E40 ISL 12	114
150SONTCOM	SON-T Comfort 150W/621 E40 ISL 12	118
150SONTPLUS	MASTER SON-T PIA Plus 150W/220 E40 ISL 12	115
150SONTPLUSXTRA	MASTER SON-T APIA Plus Xtra 150W E40 ISL 12	113
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15ESPLE	MASTER PLE-R 15W/827 E27 220-240V ICT 6	50
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18161	MASTERCapsule 30W GY6.35 12V IR ICT 5X10F	133
18162	MASTERCapsule 45W GY6.35 12V IR ICT 5X10F	133
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18830	MASTER TL-D Super 80 18W/830 ISL 25	34
18830R	MASTER TL-D Reflex 18W/830 ISL 25	36
18830SEC	MASTER TL-D Secura 18W/830 ISL 25	35
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18830TLDPSIXI	MASTER TL-D Power Saver Set 12=18W/830 ISL 25	33
18830XTRA	MASTER TL-D Xtra 18W/830 ISL 25	37
18830XTRAPOLAR	MASTER TL-D Xtra Polar 18W/830 T12 ISL 10	38
18835	MASTER TL-D Super 80 18W/835 ISL 25	34
18840	MASTER TL-D Super 80 18W/840 ISL 25	34
18840R	MASTER TL-D Reflex 18W/840 ISL 25	36
18840TLDPS	MASTER TL-D Power Saver Set 12=18W/840 UNP 25	33
18840TLDPSIXI	MASTER TL-D Power Saver Set 12=18W/840 ISL 25	33
18840XTRA	MASTER TL-D Xtra 18W/840 ISL 25	37
18840XTREME	MASTER TL-D Xtreme 18W/840 ISL 25	40
18840XTREMESEC	MASTER TL-D Xtreme Secura 18W/840 ISL 25	41
18865	MASTER TL-D Super 80 18W/865 ISL 25	34
18865RFECO	MASTER TL-D Reflex 18W/865 ISL 25	36
18865TLDPS	MASTER TL-D Power Saver Set 12=18W/865 UNP 25	33
18865TLDPSIXI	MASTER TL-D Power Saver Set 12=18W/865 ISL 25	33
18865XTREME	MASTER TL-D Xtreme 18W/865 ISL 25	40
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18940DLP	MASTER TL-D 90 De Luxe 18W/940 SLV 10	42
18950DLP	MASTER TL-D 90 De Luxe 18W/950 SLV 10	42
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18ESSOFT10Y	Softone 18W VVV E27 220-240V IPF 6	54
18PLC8272PIN	MASTER PL-C 18W/827/2P ICT 5X10CC	60
18PLC8274PIN	MASTER PL-C 18W/827/4P ICT 5X10CC	61
18PLC8302PIN	MASTER PL-C 18W/830/2P ICT 5X10CC	60
18PLC8302PXTRA	MASTER PL-C Xtra 18W/830/2P ICT 5X10CC	62
18PLC8304PIN	MASTER PL-C 18W/830/4P ICT 5X10CC	61
18PLC8402PIN	MASTER PL-C 18W/840/2P ICT 5X10CC	60
18PLC8402PXTRA	MASTER PL-C Xtra 18W/840/2P ICT 5X10CC	62
18PLC8404PIN	MASTER PL-C 18W/840/4P ICT 5X10CC	61
18PLC8404PXTRA	MASTER PL-C Xtra 18W/840/4P ICT 5X10CC	63
18PLL830	MASTER PL-L 18W/830/4P ICT 25	68
18PLL835	MASTER PL-L 18W/835/4P ICT 25	68
18PLL840	MASTER PL-L 18W/840/4P ICT 25	68
18PLT8304PINC	MASTER PL-T 18W/830/4P ICT 5X10CC	65
18PLT8402PINC	MASTER PL-T 18W/840/2P ICT 5X10CC	64
18PLT8404PINC	MASTER PL-T 18W/840/4P ICT 5X10CC	65
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18WSECOCLAS30	EcoClassic 18W E14 240V B35 CL ICT 15	137
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2000MHNFC740	MASTER MHN-FC 2000W/740 400V XW NO I	109
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2000MHNLA956	MASTER MHN-LA 2000W/956 400V XWH NO I	108
2000MHNLA956	MASTER MHN-SA 2000W/956 400V XW NO I	107
2000MHNLA956HO	MASTER MHN-SA 2000W/956 400V XW HO UNP I	107
2000MHNLSBH0956	MASTER MHN-SB 2000W/956 400V K12s-7 WH HO UNP I	110
2000MHNSE956HO	MASTER MHN-SE 2000W/956 GX22 400V HO NO I	108
20840TLSECO	MASTER TL5 HO Eco 20=24W/840 UNP 40	26
20865TLSECO	MASTER TL5 HO Eco 20=24W/865 ISL 20	26
20BCPLE	MASTER PLE-R 20W/827 B22 220-240V ICT 6	50
20CDMRI1183010	MASTERCouleur CDM-R11 20W/830 GX8.5 10D ICT 6	93
20CDMRI1183024	MASTERCouleur CDM-R11 20W/830 GX8.5 24D ICT 6	93
20CDMRM83010	MASTERCouleur CDM-Rm Mini 20W/830 GX10 MR16 10D ICT 12	91
20CDMRM83025	MASTERCouleur CDM-Rm Mini 20W/830 GX10 MR16 25D ICT 12	91
20CDMRM83040	MASTERCouleur CDM-Rm Mini 20W/830 GX10 MR16 40D ICT 12	91
20CDMT830+	MASTERCouleur CDM-T 20W/830 G12 ICT 12	79
20CDMT830+	MASTERCouleur CDM-TC 20W/830 G8.5 ICT 12	82
20CDMTCEVO930	MASTERCouleur CDM-TC Evolution 20W/930 G8.5 ICT 12	80
20CDMTCEVO930	MASTERCouleur CDM-T Evolution 20W/930 G12 ICT 12	77
20CDMTM830	MASTERCouleur CDM-Tm Mini 20W/830 PGJ5 ICT 12	87
20CDMTM830GU6.5	MASTERCouleur CDM-Tm Mini GU6.5 20W/830 ICT 12	86
20CDMTMEVO930	MASTERCouleur CDM-Tm Evolution Mini 20W/930 GU6.5 ICT 12	85
20ESPLE	MASTER PLE-R 20W/827 E27 220-240V ICT 6	50
210CDMTTELITE930	MASTERCouleur CDM-TMW Elite 210W/930 ICT 12	104
210CDMTTELITE942	MASTERCouleur CDM-TMW Elite 210W/942 ICT 12	104
210CDMTPELIT942	MASTERCouleur CDM-TMW Elite 210W/942 CL P ICT 12	104
210CPOTT942	MASTER CosmoWhite CPO-TT Xtra 210W/942 E40 ISL 12	103
21830	MASTER TL5 HE 21W/830 ISL 40	24
21835	MASTER TL5 HE 21W/835 ISL 40	24
21840	MASTER TL5 HE 21W/840 ISL 40	24
21865	MASTER TL5 HE 21W/865 ISL 40	24
220SONH	SON H 220W/220 E40 ISL 12	119
22TL5C830	MASTER TL5 Circular 22W/830 ICT 10	31
22TL5C840	MASTER TL5 Circular 22W/840 ICT 10	31
23840	MASTER TL-D Super 80 23W/840 ISL 25	34
23BCPLE	MASTER PLE-R 23W/827 B22 220-240V ICT 6	50
23ESPLE	MASTER PLE-R 23W/827 E27 220-240V ICT 6	50
24120ESPAR38	PAR38 120W E27 24V SP 10D ICT 12	157
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24840	MASTER TL5 HO 24W/840 ISL 40	26
24950	MASTER TL5 HO 90 De Luxe 24W/950 ISL 20	30
24PLL830	MASTER PL-L 24W/830/4P ICT 25	68
24PLL830XTRAPOL	MASTER PL-L Xtra Polar 24W/830/4P ICT 25	71
24PLL840	MASTER PL-L 24W/840/4P ICT 25	68
250CDMT830	MASTERCouleur CDM-T 250W/830 G12 ICT 12	79
250CDMT942	MASTERCouleur CDM-T 250W/942 G12 ICT 12	79
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250HPITPLUS	MASTER HPI-T Plus 250W/645 E40 ISL 12	110
250SONCOM	SON Comfort 250W/621 E40 ISL 12	119
250SONPLUS	MASTER SON PIA Plus 250W/220 E40 ISL 12	116
250SONPLUSXTRA	MASTER SON APIA Plus Xtra 250W E40 ISL 12	114
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250SONTPLUS	MASTER SON-T PIA Plus 250W/220 E40 ISL 12	115
250SONTPLUSXTRA	MASTER SON-T APIA Plus Xtra 250W E40 ISL 12	113
25830TLSECOXTRA	MASTER TL5 HE Xtra Eco 25=28W/830 ISL 40	23
25840TLSECO	MASTER TL5 HE Eco 25=28W/840 UNP 40	24
25840TLSECOXTRA	MASTER TL5 HE Xtra Eco 25=28W/840 ISL 40	23
25SESOZP	Appliance 25W E14 230-240V T25 CL OV ICT 10X10F	155
26PLC8272PIN	MASTER PL-C 26W/827/2P ICT 5X10CC	60
26PLC8274PIN	MASTER PL-C 26W/827/4P ICT 5X10CC	61
26PLC8302PIN	MASTER PL-C 26W/830/2P ICT 5X10CC	60
26PLC8304PIN	MASTER PL-C 26W/830/4P ICT 5X10CC	61
26PLC8304PXTRA	MASTER PL-C Xtra 26W/830/4P ICT 5X10CC	63
26PLC8354PIN	MASTER PL-C 26W/835/4P ICT 5X10CC	61
26PLC8402PIN	MASTER PL-C 26W/840/2P ICT 5X10CC	60
26PLC8402PXTRA	MASTER PL-C Xtra 26W/840/2P ICT 5X10CC	62
26PLC8404PIN	MASTER PL-C 26W/840/4P ICT 5X10CC	61
26PLC8404PXTRA	MASTER PL-C Xtra 26W/840/4P ICT 5X10CC	63
26PLT8274PINC	MASTER PL-T 26W/827/4P ICT 5X10CC	65
26PLT8302PINC	MASTER PL-T 26W/830/2P ICT 5X10CC	64
26PLT8304PINC	MASTER PL-T 26W/830/4P ICT 5X10CC	65
26PLT8304PINTOP	MASTER PL-T TOP 26W/830/4P ICT 5X10CC	66
26PLT8402PINC	MASTER PL-T 26W/840/2P ICT 5X10CC	64
26PLT8404PINC	MASTER PL-T 26W/840/4P ICT 5X10CC	65
26PLT8404PINTOP	MASTER PL-T TOP 26W/840/4P ICT 5X10CC	66
26SOXE	MASTER SOX-E 26W BY22d T50 ISL 12	122
27ESPLE	MASTER PLE-R 27W/827 E27 220-240V ICT 6	50
28830	MASTER TL5 HE 28W/830 ISL 40	24
28835	MASTER TL5 HE 28W/835 ISL 40	24
28840	MASTER TL5 HE 28W/840 ISL 40	24
28840TL5SEC	MASTER TL5 HE Secura 28W/840 UNP 40	29
28865	MASTER TL5 HE 28W/865 ISL 40	24
28865IP	MASTER TL5 HE 28W/865 UNP 40	24
28BCCECO30CL	EcoClassic 28W B22 240V B35 CL ICT 15	137
28BCCECO30A55	EcoClassic 28W B22 240V A55 CL ICT 10	136
28SECO30A55	EcoClassic 28W E27 240V A55 CL ICT 10	136
28PLQ8274PIN	PL-Q 28W/827/4P ICT 10	73
28PLQ8304PIN	PL-Q 28W/830/4P ICT 10	73
28PLQ8354PIN	PL-Q 28W/835/4P ICT 10	73
28PLQ8404PIN	PL-Q 28W/840/4P ICT 10	73
28SECECO30CL	EcoClassic 28W E14 240V B35 CL ICT 15	137
28SESECO30P45CL	EcoClassic 28W E14 240V P45 CL ICT 20	137
28WE27ECOC-GOLF	EcoClassic 28W E27 240V P45 CL ICT 20	137
30830	MASTER TL-D Super 80 30W/830 ISL 25	34
30830XTRA	MASTER TL-D Xtra 30W/830 ISL 25	37
30840	MASTER TL-D Super 80 30W/840 ISL 25	34
30840XTRA	MASTER TL-D Xtra 30W/840 ISL 25	37
30MLI1124D	MASTERLine 111 30W G53 12V 24D ICT 6	129
30MLI118D	MASTERLine 111 30W G53 12V 8D ICT 6	129
315CDMTTELITE930	MASTERCouleur CDM-TMW Elite 315W/930 ICT 12	104
315CDMTTELITE942	MASTERCouleur CDM-TMW Elite 315W/942 ICT 12	104
315CDMTPELIT930	MASTERCouleur CDM-TMW Elite 315W/930 ICT 12	104
315CDMTPELIT942	MASTERCouleur CDM-TMW Elite 315W/942 ICT 12	104
315CPOTT942	MASTER CosmoWhite CPO-TT Xtra 315W/942 E40 ISL 12	103
32830TLDECO	MASTER TL-D Eco 32W/830 ISL 25	32
32840	MASTER TL-D HF Super 80 32W/840 ISL 25	36
32840TLSECO	MASTER TL5 HE Eco 32=35W/840 UNP 40	24
32840TLSECOXTRA	MASTER TL5 HE Xtra Eco 32=35W/840 ISL 40	23
32840TLDECO	MASTER TL-D Eco 32W/840 ISL 25	32
32PLT8274PINC	MASTER PL-T 32W/827/4P ICT 5X10CC	65
32PLT8304PINC	MASTER PL-T 32W/830/4P ICT 5X10CC	65
32PLT8304PXTRA	MASTER PL-T Xtra 32W/830/4P ICT 5X10CC	67
32PLT8404PINC	MASTER PL-T 32W/840/4P ICT 5X10CC	65
32PLT8404PXTRA	MASTER PL-T Xtra 32W/840/4P ICT 5X10CC	67
350SONH	SON H 350W/220 E40 ISL 12	119
35830	MASTER TL5 HE 35W/830 ISL 40	24
35835	MASTER TL5 HE 35W/835 ISL 40	24
35840	MASTER TL5 HE 35W/840 ISL 40	24
35865	MASTER TL5 HE 35W/865 ISL 40	24
35CDM930PAR2010	MASTERCouleur CDM-R Elite 35W/930 E27 PAR20 10D ICT 12	90
35CDM930PAR2030	MASTERCouleur CDM-R Elite 35W/930 E27 PAR20 30D ICT 12	90

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35CDM930PAR3010	MASTERCouleur CDM-R Elite 35W/930 E27 PAR30L 10D ICT 6	90	36PLL830	MASTER PL-L 36W/830/4P ICT 25	68
35CDM930PAR3030	MASTERCouleur CDM-R Elite 35W/930 E27 PAR30L 30D ICT 6	90	36PLL830POLAR	MASTER PL-L Polar 36W/830/4P ICT 25	69
35CDMER11193010	MASTERCouleur CDM-R111 Elite 35W/930 GX8.5 10D ICT 6	92	36PLL830XTRA	MASTER PL-L Xtra 36W/830/4P ICT 25	70
35CDMER11193024	MASTERCouleur CDM-R111 Elite 35W/930 GX8.5 24D ICT 6	92	36PLL830XTRAPOL	MASTER PL-L Xtra Polar 36W/830/4P ICT 25	71
35CDMER11193040	MASTERCouleur CDM-R111 Elite 35W/930 GX8.5 40D ICT 6	92	36PLL840	MASTER PL-L 36W/840/4P ICT 25	68
35CDMRI11183010	MASTERCouleur CDM-R111 35W/830 GX8.5 10D ICT 6	93	36PLL840POLAR	MASTER PL-L Polar 36W/840/4P ICT 25	69
35CDMRI11183024	MASTERCouleur CDM-R111 35W/830 GX8.5 24D ICT 6	93	36PLL840XTRA	MASTER PL-L Xtra 36W/840/4P ICT 25	70
35CDMRI11183040	MASTERCouleur CDM-R111 35W/830 GX8.5 40D ICT 6	93	36PLL865	MASTER PL-L 36W/865/4P ICT 25	68
35CDMRI11194210	MASTERCouleur CDM-R111 35W/942 GX8.5 10D ICT 6	93	36SOXE	MASTER SOX-E 36W BY22d T50 ISL 12	122
35CDMRI11194224	MASTERCouleur CDM-R111 35W/942 GX8.5 24D ICT 6	93	38830NG	MASTER TL-D Super 80 38W/830 ISL 25	34
35CDMRI11194240	MASTERCouleur CDM-R111 35W/942 GX8.5 40D ICT 6	93	38840NG	MASTER TL-D Super 80 38W/840 ISL 25	34
35CDMR830FL	MASTERCouleur CDM-R 35W/830 E27 PAR30L 30D ICT 6	92	38PLQ8304PIN	PL-Q 38W/830/4P ICT 10	73
35CDMR830FLP20	MASTERCouleur CDM-R 35W/830 E27 PAR20 30D ICT 12	92	38PLQ8354PIN	PL-Q 38W/835/4P ICT 10	73
35CDMR830SP	MASTERCouleur CDM-R 35W/830 E27 PAR30L 10D ICT 6	92	38PLQ8404PIN	PL-Q 38W/840/4P ICT 10	73
35CDMR830SPP20	MASTERCouleur CDM-R 35W/830 E27 PAR20 10D ICT 12	92	39830	MASTER TL5 HO 39W/830 ISL 40	26
35CDMR930P3030	MASTERCouleur CDM-R Elite 35W/930 E27 PAR30L 30D ICT 6	90	39830IP	MASTER TL5 HO 39W/830 UNP 40	26
35CDMR942P2010D	MASTERCouleur CDM-R 35W/942 E27 PAR20 10D ICT 12	92	39840	MASTER TL5 HO 39W/840 ISL 40	26
35CDMR942P2030D	MASTERCouleur CDM-R 35W/942 E27 PAR20 30D ICT 12	92	400HPIPLUSBU	MASTER HPI Plus 400W/645 BU E40 ISL 6	111
35CDMRMELI93010	MASTERCouleur CDM-Rm Elite Mini 35W/930 GX10 MR16 10D ICT 12	90	400HPIPLUSBUP	MASTER HPI Plus 400W/645 BU-P E40 ISL 6	111
35CDMRMELI93025	MASTERCouleur CDM-Rm Elite Mini 35W/930 GX10 MR16 25D ICT 12	90	400HPIPLUSBUS	MASTER HPI Plus 400W/645 BUS E40 ISL 6	111
35CDMRMELI93040	MASTERCouleur CDM-Rm Elite Mini 35W/930 GX10 MR16 40D ICT 12	90	400HPIPLUSBUP	MASTER HPI Plus 400W/645 BUS-P E40 ISL 6	111
35CDMT830	MASTERCouleur CDM-T 35W/830 G12 ICT 12	79	400HPIPLUSDBU	MASTER HPI Plus 400W/667 BU E40 ISL 6	111
35CDMT942	MASTERCouleur CDM-T 35W/842 G12 ICT 12	79	400HPITPLUS	MASTER HPI-T Plus 400W/645 E40 ISL 12	110
35CDMTC830	MASTERCouleur CDM-TC 35W/830 G8.5 ICT 12	82	400SONCOM	SON Comfort 400W/621 E40 ISL 12	119
35CDMTC942	MASTERCouleur CDM-TC 35W/842 G8.5 ICT 12	82	400SONPLUS	MASTER SON PIA Plus 400W/220 E40 ISL 12	116
35CDMTCElite930	MASTERCouleur CDM-TC Elite 35W/930 G8.5 ICT 12	81	400SONPLUSXTRA	MASTER SON APIA Plus Xtra 400W E40 ISL 12	114
35CDMTCElite942	MASTERCouleur CDM-TC Elite 35W/942 G8.5 ICT 12	81	400SONTCOM	SON-T Comfort 400W/621 E40 ISL 12	118
35CDMTCEVO930	MASTERCouleur CDM-TC Evolution 35W/930 G8.5 ICT 12	80	400SONTGP	MASTER GreenPower CG T 400W E40 ISL 12	120
35CDMTCElite930	MASTERCouleur CDM-T Elite 35W/930 G12 ICT 12	78	400SONTPLUS	MASTER SON-T PIA Plus 400W/220 E40 ISL 12	115
35CDMTCElite942	MASTERCouleur CDM-T Elite 35W/942 G12 ICT 12	78	400SONTPLUSXTRA	MASTER SON-T APIA Plus Xtra 400W E40 ISL 12	113
35CDMTCEVO930	MASTERCouleur CDM-T Evolution 35W/930 G12 ICT 12	77	40PLL830	MASTER PL-L 40W/830/4P ICT 25	68
35CDMTM930	MASTERCouleur CDM-Tm Mini 35W/930 PGJ5 ICT 12	87	40PLL835	MASTER PL-L 40W/835/4P ICT 25	68
35SDWT	MASTER SDW-T 35W/825 PG12-I ISL 12	95	40PLL840	MASTER PL-L 40W/840/4P ICT 25	68
35SOX	SOX 35W BY22d T50 ISL 12	122	40SESOZ	Appliance 40W E14 240V P45 CL OV ICT 10X10F	155
35SOXPLUS	SOX 35W BY22d T50 ISL 12	122	40SESR50SPZP	Reflector 40W E14 240V NR50 30D ICT 30	156
35SOXPSG	MASTER SOX PSG 35W BY22d T50 ISL 12	121	40TLC830	MASTER TL5 Circular 40W/830 ICT 10	31
3608	TL-D 36W BLB ISL 25	43	40TLC840	MASTER TL5 Circular 40W/840 ICT 10	31
36827	MASTER TL-D Super 80 36W/827 ISL 25	34	4151800MHN5A956	MASTER MHN-SA 1800W/956 (P)SCF 400V NO 1	107
36830	MASTER TL-D Super 80 36W/830 ISL 25	34	4152000HPITN	HPI-T 2000W/542 E40 380V CRP 4	112
36830TLDPSS	MASTER TL-D Power Saver Set 23=36W/830 UNP 25	33	415600SONTGP	MASTER GreenPower 600W 400V E40 ISL 12	120
36830TLDPSSI1X1	MASTER TL-D Power Saver Set 23=36W/830 ISL 25	33	41840TLSECO+	MASTER TL5 HO EcoPlus 41=49W/840 UNP 40	25
36830XTRA	MASTER TL-D Xtra 36W/830 ISL 25	37	608	TL 6W BLB 1FM 10X25CC	46
36830XTRAPOLAR	MASTER TL-D Xtra Polar 36W/830 T12 ISL 10	38	633	TL Mini 6W/33-640 1FM 10X25CC	45
36835	MASTER TL-D Super 80 36W/835 ISL 25	34	833	TL Mini 8W/33-640 1FM 10X25CC	45
36840	MASTER TL-D Super 80 36W/840 ISL 25	34	884	MASTER TL Mini Super 80 8W/840 1FM 10X25CC	45
36840R	MASTER TL-D Reflex 36W/840 ISL 25	36	6433	Aluline 20W 12V R37 6D CL ICT 10X5F	132
36840TLDPSS	MASTER TL-D Power Saver Set 23=36W/840 UNP 25	33	6434	Aluline 20W 12V R37 18D CL ICT 10X5F	132
36840TLDPSSI1X1	MASTER TL-D Power Saver Set 23=36W/840 ISL 25	33	6438	Aluline 50W 12V R56 10D CL ICT 10X5F	132
36840XTRA	MASTER TL-D Xtra 36W/840 ISL 25	37	49830	MASTER TL5 HO 49W/830 ISL 40	26
36840XTREME	MASTER TL-D Xtreme 36W/840 ISL 25	40	49835	MASTER TL5 HO 49W/835 ISL 40	26
36840XTREMESEC	MASTER TL-D Xtreme Secura 36W/840 ISL 25	41	49840	MASTER TL5 HO 49W/840 ISL 40	26
36840XTREMEPOLAR	MASTER TL-D Xtreme Polar 36W/840 ISL 10	41	49865	MASTER TL5 HO 49W/865 ISL 40	26
36865	MASTER TL-D Super 80 36W/865 ISL 25	34	50840	MASTER TL-D HF Super 80 50W/840 ISL 25	36
36865TLDPSS	MASTER TL-D Power Saver Set 23=36W/865 UNP 25	33	54830	MASTER TL5 HO 54W/830 ISL 40	26
36865TLDPSSI1X1	MASTER TL-D Power Saver Set 23=36W/865 ISL 25	33	54840	MASTER TL5 HO 54W/840 ISL 40	26
36865XTREME	MASTER TL-D Xtreme 36W/865 ISL 25	40	54865	MASTER TL5 HO 54W/865 ISL 40	26
36930DLP	MASTER TL-D 90 De Luxe 36W/930 SLV 10	42	58827	MASTER TL-D Super 80 58W/827 ISL 25	34
36940DLP	MASTER TL-D 90 De Luxe 36W/940 SLV 10	42	58830	MASTER TL-D Super 80 58W/830 ISL 25	34
36950DLP	MASTER TL-D 90 De Luxe 36W/950 SLV 10	42	58835	MASTER TL-D Super 80 58W/835 ISL 25	34
36950GP	MASTER TL-D 90 Graphica 36W/950 ISL 10	43	58840	MASTER TL-D Super 80 58W/840 ISL 25	34
36965DLP	MASTER TL-D 90 De Luxe 36W/965 SLV 10	42	58865	MASTER TL-D Super 80 58W/865 ISL 25	34
36965GP	MASTER TL-D 90 Graphica 36W/965 ISL 10	43	70830	MASTER TL-D Super 80 70W/830 ISL 25	34
			70835	MASTER TL-D Super 80 70W/835 ISL 25	34
			70840	MASTER TL-D Super 80 70W/840 ISL 25	34
			80830	MASTER TL5 HO 80W/830 ISL 40	26
			80840	MASTER TL5 HO 80W/840 ISL 40	26
			80865	MASTER TL5 HO 80W/865 ISL 40	26
			42490760	Brilliantline Dichroic 35W GU5.3 12V MR16 10D ICT 10X5F	130
			42504160	Brilliantline Dichroic 35W GU5.3 12V MR16 36D ICT 10X5F	130
			42516460	Brilliantline Dichroic 50W GU5.3 12V MR16 36D ICT 10X5F	130
			42537960	Brilliantline Dichroic 20W GU4 12V MR11 10D CL ICT 10X5F	130
			42540960	Brilliantline Dichroic 20W GU4 12V MR11 30D ICT 10X5F	130
			42543060	Brilliantline Dichroic 35W GU4 12V MR11 10D ICT 10X5F	130
			42546160	Brilliantline Dichroic 35W GU4 12V MR11 30D ICT 10X5F	130

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42BCECO30B35CL	EcoClassic 42W B22 240V B35 CL ICT 15	137
42BCECO30CLA55	EcoClassic 42W B22 240V A55 CL ICT 10	136
42ESECO30CLA55	EcoClassic 42W E27 240V A55 CL ICT 10	136
42PLT8304PINCS	MASTER PL-T 42W/830/4P ICT 5X10CC	65
42PLT8304PINTOP	MASTER PL-T TOP 42W/830/4P ICT 5X10CC	66
42PLT8304PXTRA	MASTER PL-T Xtra 42W/830/4P ICT 5X10CC	67
42PLT8404PINCS	MASTER PL-T 42W/840/4P ICT 5X10CC	65
42PLT8404PINTOP	MASTER PL-T TOP 42W/840/4P ICT 5X10CC	66
42PLT8404PXTRA	MASTER PL-T Xtra 42W/840/4P ICT 5X10CC	67
42SESECO30B35CL	EcoClassic 42W E14 240V B35 CL ICT 15	137
42WE27ECOC-GOLF	EcoClassic 42W E27 240V P45 CL ICT 20	137
44840TLSECO+	MASTER TL5 HO EcoPlus 44=54W/840 UNP 40	25
45830TLSECO	MASTER TL5 HO Eco 45=49W/830 UNP 40	26
45840TLSECO	MASTER TL5 HO Eco 45=49W/840 UNP 40	26
45CPOTT628	MASTER CosmoWhite CPO-TT Xtra 45W/628 E27 ISL 12	103
45CPOTW728	MASTER CosmoWhite CPO-TW Xtra 45W/628 PGZ12 ICT 12	102
45MLI1124D	MASTERLine 111 45W G53 12V 24D ICT 6	129
45MLI1145D	MASTERLine 111 45W G53 12V 45D ICT 6	129
45MLI118D	MASTERLine 111 45W G53 12V 8D ICT 6	129
49830XTRATL5	MASTER TL5 HO Xtra 49W/830 ISL 20	27
49840IP	MASTER TL5 HO 49W/840 UNP 40	26
49840TOP	MASTER TL5 HO TOP 49W/840 ISL 20	28
49840XTRATL5	MASTER TL5 HO Xtra 49W/840 ISL 20	27
5040ESCP	Standard ELV 40W E27/BRC 50V A60 CL ICT 12X10F	154
5060ESCP	Standard ELV 60W E27/BRC 50V A60 CL ICT 12X10F	154
50830TLSECO	MASTER TL5 HO Eco 50=54W/830 UNP 40	26
50840TLSECO	MASTER TL5 HO Eco 50=54W/840 UNP 40	26
50ALU11124D	Aluline 111 50W G53 12V 24D ICT 6	131
50CDM930PAR3010	MASTERCouleur CDM-R Elite 50W/930 E27 PAR30L 10D ICT 6	90
50CDM930PAR3030	MASTERCouleur CDM-R Elite 50W/930 E27 PAR30L 30D ICT 6	90
50CDM930PAR3040	MASTERCouleur CDM-R Elite 50W/930 E27 PAR30L 40D ICT 6	90
50CDMER11193010	MASTERCouleur CDM-R111 Elite 50W/930 GX8.5 10D ICT 6	92
50CDMER11193024	MASTERCouleur CDM-R111 Elite 50W/930 GX8.5 24D ICT 6	92
50CDMER11193040	MASTERCouleur CDM-R111 Elite 50W/930 GX8.5 40D ICT 6	92
50CDMRMELI93025	MASTERCouleur CDM-Rm Elite Mini 50W/930 GX10 MR16 25D ICT 12	90
50CDMRMELI93040	MASTERCouleur CDM-Rm Elite Mini 50W/930 GX10 MR16 40D ICT 12	90
50CDMRMELI93060	MASTERCouleur CDM-Rm Elite Mini 50W/930 GX10 MR16 60D ICT 12	90
50CDMTCELITE930	MASTERCouleur CDM-TC Elite 50W/930 G8.5 ICT 12	81
50CDMTCELITE942	MASTERCouleur CDM-TC Elite 50W/942 G8.5 ICT 12	81
50CDMTCEVO930	MASTERCouleur CDM-TC Evolution 50W/930 G8.5 ICT 12	80
50CDMTLITE930	MASTERCouleur CDM-T Elite 50W/930 G12 ICT 12	78
50CDMTLITE942	MASTERCouleur CDM-T Elite 50W/942 G12 ICT 12	78
50CDMTCEVO930	MASTERCouleur CDM-T Evolution 50W/930 G12 ICT 12	77
50CDMTMELITE930	MASTERCouleur CDM-Tm Elite Mini 50W/930 GU6.5 ICT 12	86
50CDOETPLUS828	MASTER CityWhite CDO-ET Plus 50W/828 E27 ISL 24	106
50CDOTTPUS828	MASTER CityWhite CDO-TT Plus 50W/828 E27 ISL 12	105
50SDWT	MASTER SDW-T 50W/825 PG12-1 ISL 12	95
50SDWTG	MASTER SDW-TG Mini 50W/825 GX12-1 ICT 12	94
50SONE	SON 50W/220 E27 ISL 24	117
50SONI	SON 50W/220 I E27 ISL 24	117
50SONPLUS	MASTER SON PIA Plus 50W E27 ISL 24	116
50SONPLUSXTRA	MASTER SON APIA Plus Xtra 50W E27 ISL 24	114
50SONTPLUS	MASTER SON-T PIA Plus 50W/220 E27 ISL 12	115
50SONTPLUSXTRA	MASTER SON-T APIA Plus Xtra 50W E27 ISL 12	113
51830TLDECO	MASTER TL-D Eco 51W/830 ISL 25	32
51840TLDECO	MASTER TL-D Eco 51W/840 ISL 25	32
53BCECO30CLA55	EcoClassic 53W B22 240V A55 CL ICT 10	136
53ESECO30CLA55	EcoClassic 53W E27 240V A55 CL ICT 10	136
54830XTRATL5	MASTER TL5 HO Xtra 54W/830 ISL 20	27
54840TL5SEC	MASTER TL5 HO Secura 54W/840 UNP 40	30
54840XTRATL5	MASTER TL5 HO Xtra 54W/840 ISL 20	27
55PLL830	MASTER PL-L 55W/830/4P ICT 25	68
55PLL830XTRA	MASTER PL-L Xtra 55W/830/4P ICT 25	70
55PLL830XTRAPOL	MASTER PL-L Xtra Polar 55W/830/4P ICT 25	71
55PLL835	MASTER PL-L 55W/835/4P ICT 25	68
55PLL840	MASTER PL-L 55W/840/4P ICT 25	68
55PLL840POLAR	MASTER PL-L Polar 55W/840/4P ICT 25	69
55PLL840XTRA	MASTER PL-L Xtra 55W/840/4P ICT 25	70
55PLL865	MASTER PL-L 55W/865/4P ICT 25	68

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55SOX	SOX 55W BY22d T50 ISL 12	122
55SOXPLUS	SOX 55W BY22d T50 ISL 12	122
55SOXPSG	MASTER SOX PSG 55W BY22d T50 ISL 12	121
55TL5C830	MASTER TL5 Circular 55W/830 ICT 10	31
55TL5C840	MASTER TL5 Circular 55W/840 ICT 10	31
57PLT8304PINCS	MASTER PL-T 57W/830/4P ICT 5X10CC	65
57PLT8304PINTOP	MASTER PL-T TOP 57W/830/4P ICT 5X10CC	66
57PLT8404PINCS	MASTER PL-T 57W/840/4P ICT 5X10CC	65
57PLT8404PINTOP	MASTER PL-T TOP 57W/840/4P ICT 5X10CC	66
57PLT8404PXTRA	MASTER PL-T Xtra 57W/840/4P ICT 5X10CC	67
58830TLDPS5	MASTER TL-D Power Saver Set 37=58W/830 UNP 25	33
58830TLDPS5IXI	MASTER TL-D Power Saver Set 37=58W/830 ISL 25	33
58830XTRA	MASTER TL-D Xtra 58W/830 ISL 25	37
58840BSEC	MASTER TL-D Secura 58W/840 ISL 25	35
58840R	MASTER TL-D Reflex 58W/840 ISL 25	36
58840TLDPS5IXI	MASTER TL-D Power Saver Set 37=58W/840 ISL 25	33
58840XTRA	MASTER TL-D Xtra 58W/840 ISL 25	37
58840XTRASEC	MASTER TL-D Xtra Secura 58W/840 ISL 25	39
58840XTREME	MASTER TL-D Xtreme 58W/840 ISL 25	40
58840XTREMEPOLAR	MASTER TL-D Xtreme Polar 58W/840 ISL 10	41
58865RFECO	MASTER TL-D Reflex 58W/865 ISL 25	36
58865TLDPS5IXI	MASTER TL-D Power Saver Set 37=58W/865 ISL 25	33
58865XTREME	MASTER TL-D Xtreme 58W/865 ISL 25	40
58940DLP	MASTER TL-D 90 De Luxe 58W/940 SLV 10	42
58950DLP	MASTER TL-D 90 De Luxe 58W/950 SLV 10	42
58950GP	MASTER TL-D 90 Graphica 58W/950 ISL 10	43
58965DLP	MASTER TL-D 90 De Luxe 58W/965 SLV 10	42
58965GP	MASTER TL-D 90 Graphica 58W/965 ISL 10	43
5ESSOFT10Y	Softone 5W WWV E27 220-240V IPF 6	54
5PLS8272PINB	MASTER PL-S 5W/827/2P ICT 5X10CC	58
600SONTPLUS	MASTER SON-T PIA Plus 600W/220 E40 ISL 12	115
60CPOTT628	MASTER CosmoWhite CPO-TT Xtra 60W/628 E27 ISL 12	103
60CPOTW728	MASTER CosmoWhite CPO-TW Xtra 60W/728 PGZ12 ICT 12	102
60MLI1124D	MASTERLine 111 60W G53 12V 24D ICT 6	129
60MLI1145D	MASTERLine 111 60W G53 12V 45D ICT 6	129
60MLI118D	MASTERLine 111 60W G53 12V 8D ICT 6	129
60TL5C830	MASTER TL5 Circular 60W/830 ICT 10	31
60TL5C840	MASTER TL5 Circular 60W/840 ICT 10	31
6435FR	Aluline 20W 12V R37 32D FR ICT 10X5F	132
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MASTERCapsule CDM-R Elite 50W/930 E27 PAR30L 40D ICT	871829124200000	90
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MASTERCapsule CDM-R Elite 70W/930 E27 PAR30L 10D ICT	872790086530100	90
MASTERCapsule CDM-R Elite 70W/930 E27 PAR30L 30D ICT	871829124188100	90
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MASTERCapsule CDM-R111 Elite 70W/930 GX8.5 10D ICT	871829168962100	92
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