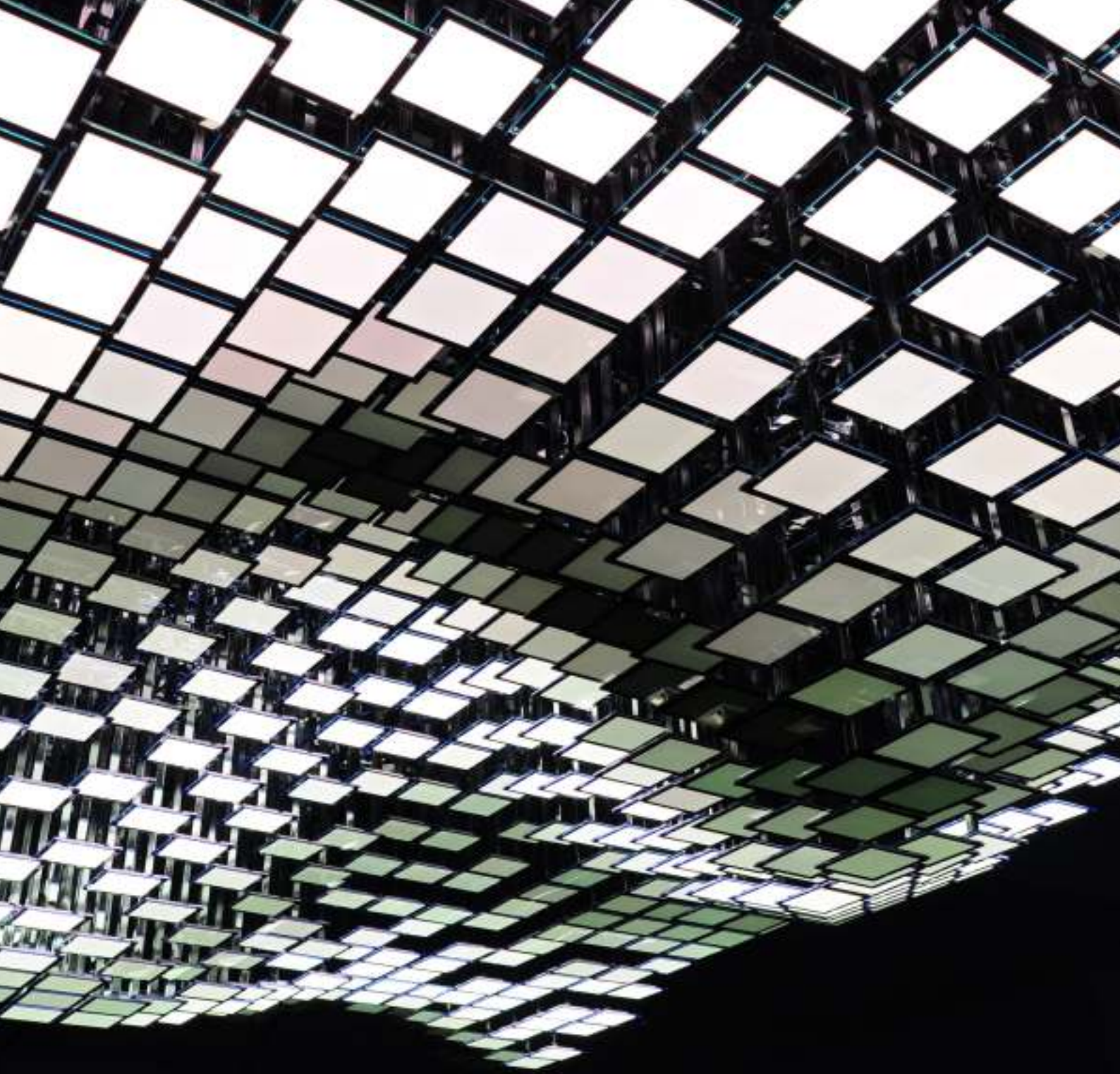




Lamps & Lighting Electronics

Catalogue 2014

PHILIPS



What's new in Lighting?

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

Chapter Overview

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A lifetime of innovation

1891



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

1907



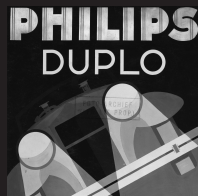
Start of production of tungsten filament lamps

1913



Start of production of gas-filled incandescent lamps

1924



Duplo car-lamps

1931



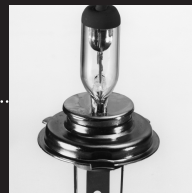
Philora sodium gas discharge lamp

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



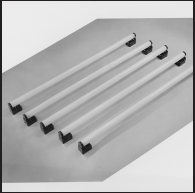
Philips Argon lamp
Philips introduced light bulbs filled with argon, which resulted in a longer lifetime for the filament

1917



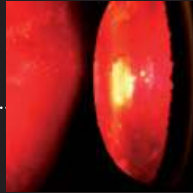
Neon glow lamps (the first gas-discharge lamps that Philips produces)

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



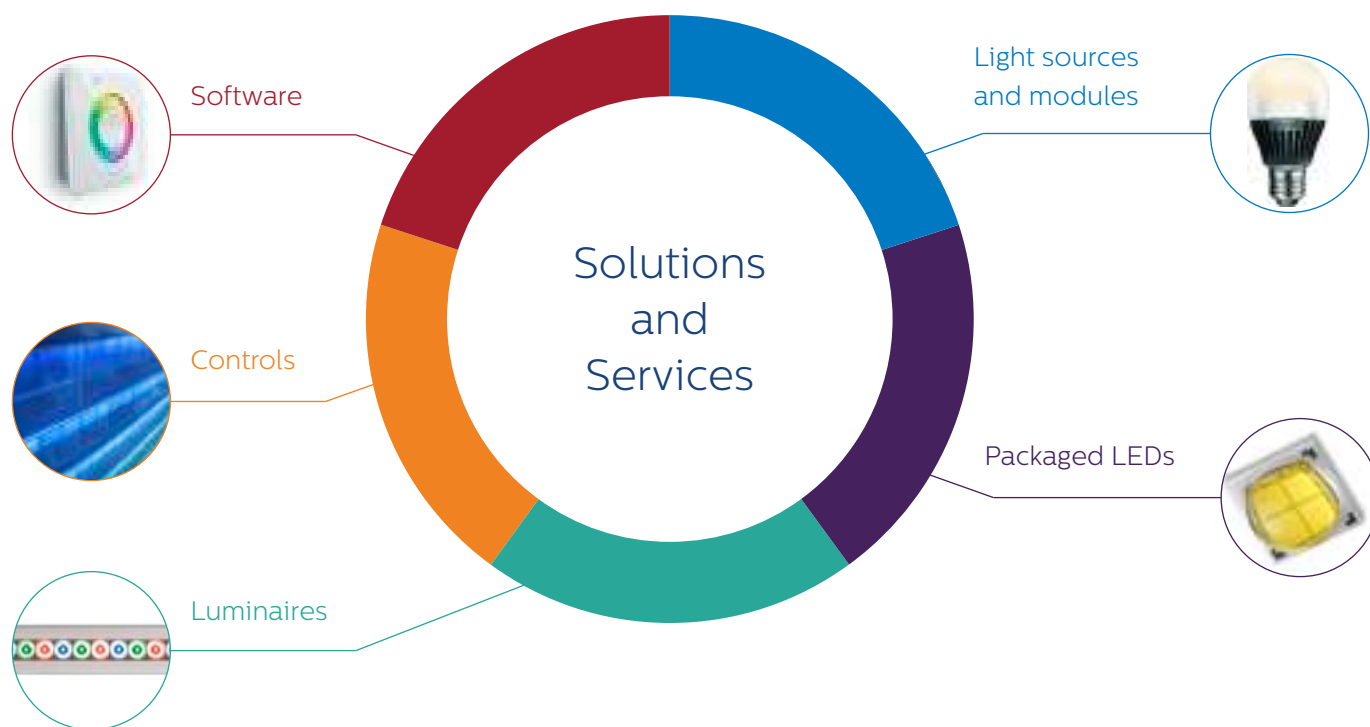
200 lumens per watt LED lamp prototype





Uniquely positioned to shape the market

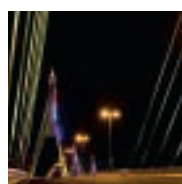
Offering solutions across the complete lighting value chain



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.



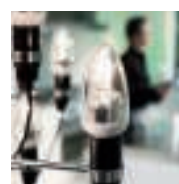
Outdoor

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



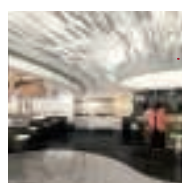
Hospitality

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



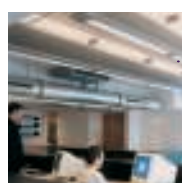
Healthcare

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

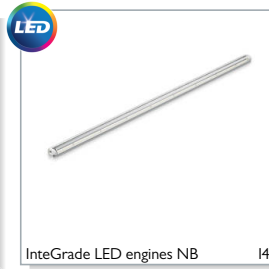
We make vehicles safer, more stylish and more energy efficient



LED Tubes



LED Display Lighting Systems ↗



MASTER LEDtube SAI Gen2



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

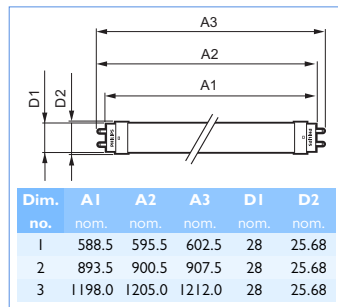
- Cooler canopies

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

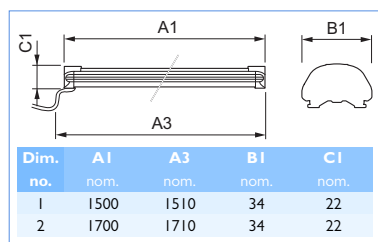
- When replacing fluorescent lamps with MASTER LEDtube SAI, the electrical installation has to be changed. Please contact Philips for advice.



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



Affinium LED display modules 400 Full-height glass doors



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.

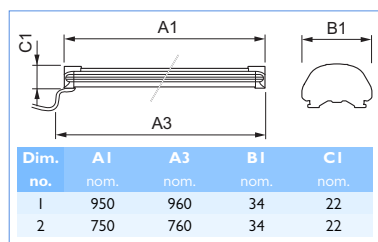
Application

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

| Type | Wattage (W) | Colour Rendering Index (Ra) | Beam angle (°) | Correlated Colour Temperature (K) | Life to 70% lumen maintenance (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... |
|-----------------------------------|-------------|-----------------------------|----------------|-----------------------------------|-----------------------------------|----------|-------------------------------------|---------------------|----------------------------|
| 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



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

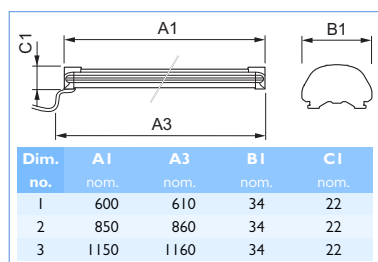
- The range includes Vision-plus for high lighting levels (1,100 lux); Value-plus for regular lighting levels (750 lux). The Center module is used for vertical light distribution in two directions. The Side module for vertical light distribution in one direction.
- Energy savings up to 80%
- Superb optical 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 (W) | Colour Rendering Index (Ra) | Correlated Colour Temperature (K) | Life to 70% lumen maintenance (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... |
|---------------------------------|-------------|-----------------------------|-----------------------------------|-----------------------------------|----------|-------------------------------------|---------------------|----------------------------|
| Value-plus LDM410 950mm(37") CW | 8 | 75 | 5,600 | 50,000 | 1 | INO / 6 6 | LDM410VA950CW | 24809500 |
| Value-plus LDM410 750mm(30") CW | 8 | 75 | 5,600 | 50,000 | 2 | INO / 6 6 | LDM410VA750CW | 24848400 |
| Value-plus LDM410 750mm(30") NW | 9 | 75 | 4,100 | 50,000 | 2 | INO / 6 6 | LDM410VA750NW | 24852100 |
| Value-plus LDM410 950mm(37") NW | 10 | 75 | 4,100 | 50,000 | 1 | INO / 6 6 | LDM410VA950NW | 24829300 |

Affinium LED display modules 421 Island freezers



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. LDM421 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

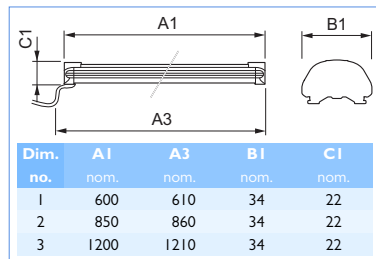
- The range includes Vision-plus for high lighting levels (1,100 lux); Value-plus for regular lighting levels (750 lux)
- Energy savings up to 60%
- Superb optical features; narrow symmetrical 40°
- Products are dimmable
- 5-year Philips warranty for the modules in combination with the Philips LED power 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 | 24444800 |
| Value-plus LDM421 1200mm(47") NW | 13 | 85 | 40 | 4,000 | 50,000 | 2 | INO / 6 6 | LDM421VA850NW | 24436300 |
| Value-plus LDM421 850mm(33") WW | 15 | 85 | 40 | 3,000 | 50,000 | 2 | INO / 6 6 | LDM421VA850WW | 24438700 |
| Vision-plus LDM421 600mm(24") NW | 15 | 85 | 40 | 4,000 | 50,000 | 1 | INO / 6 6 | LDM421VI600NW | 24615200 |
| Vision-plus LDM421 600mm(24") WW | 17 | 85 | 40 | 3,000 | 50,000 | 1 | INO / 6 6 | LDM421VI600WW | 24617600 |
| Value-plus LDM421 1200mm(47") NW | 18 | 85 | 40 | 4,000 | 50,000 | 3 | INO / 6 6 | LDM421VA1200NW | 24370000 |
| Vision-plus LDM421 850mm(33") NW | 20 | 85 | 40 | 4,000 | 50,000 | 2 | INO / 6 6 | LDM421VI850NW | 24611400 |
| Vision-plus LDM421 850mm(33") WW | 22 | 85 | 40 | 3,000 | 50,000 | 2 | INO / 6 6 | LDM421VI850WW | 24613800 |
| Value-plus LDM421 1200mm(47") WW | 22 | 85 | 40 | 3,000 | 50,000 | 3 | INO / 6 6 | LDM421VA1200WW | 24374800 |
| Vision-plus LDM421 1200mm(47") NW | 28 | 85 | 40 | 3,000 | 50,000 | 3 | INO / 6 6 | LDM421VI1200NW | 24365600 |
| Vision-plus LDM421 1200mm(47") WW | 28 | 85 | 40 | 4,000 | 50,000 | 3 | INO / 6 6 | LDM421VI1200WW | 24363200 |

Affinium LED display modules 422 Canopies



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

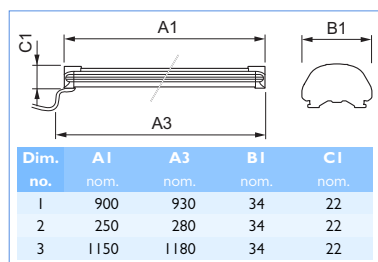
- The range includes Vision-plus for high lighting levels (1,100 lux) and Value-plus for regular lighting levels (750 lux).
- Energy savings of up to 50%
- Superb optical features: mid-asymmetrical 80°
- Products are dimmable
- 5-year Philips warranty on the modules in combination with the Philips LED 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 | 24559900 |
| Value-plus LDM422 600mm(24") WW | 11 | 85 | 80 | 3,000 | 50,000 | 1 | INO / 6 6 | LDM422VA600WW | 24561200 |
| Value-plus LDM422 850mm(33") NW | 13 | 85 | 80 | 4,000 | 50,000 | 2 | INO / 6 6 | LDM422VA850NW | 24555100 |
| Value-plus LDM422 850mm(33") WW | 15 | 85 | 80 | 3,000 | 50,000 | 2 | INO / 6 6 | LDM422VA850WW | 24557500 |
| Value-plus LDM422 1200mm(47") NW | 18 | 85 | 80 | 4,000 | 50,000 | 3 | INO / 6 6 | LDM422VA1200NW | 24541400 |
| Vision-plus LDM422 850mm(33") NW | 20 | 85 | 80 | 4,000 | 50,000 | 2 | INO / 6 6 | LDM422VI850NW | 24545200 |
| Vision-plus LDM422 850mm(33") WW | 22 | 85 | 80 | 3,000 | 50,000 | 2 | INO / 6 6 | LDM422VI850WW | 24553700 |
| Value-plus LDM422 1200mm(47") WW | 22 | 85 | 80 | 3,000 | 50,000 | 3 | INO / 6 6 | LDM422VA1200WW | 24543800 |
| Vision-plus LDM422 1200mm(47") NW | 28 | 85 | 80 | 4,000 | 50,000 | 3 | INO / 6 6 | LDM422VI1200NW | 24537700 |
| Vision-plus LDM422 1200mm(47") WW | 33 | 85 | 80 | 3,000 | 50,000 | 3 | INO / 6 6 | LDM422VI1200WW | 24539100 |

Affinium LED display modules 424 Well and serve-over



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 (W) | Colour Rendering Index (Ra) | Beam Angle (°) | Correlated Colour Temperature (K) | Life to 70% lumen maintenance (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... |
|-----------------------------------|-------------|-----------------------------|----------------|-----------------------------------|-----------------------------------|----------|-------------------------------------|---------------------|----------------------------|
| 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

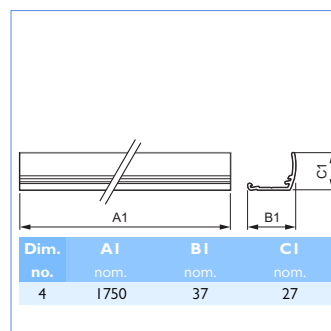
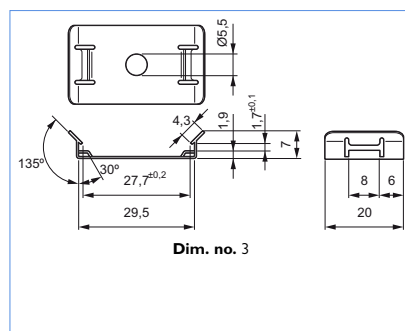
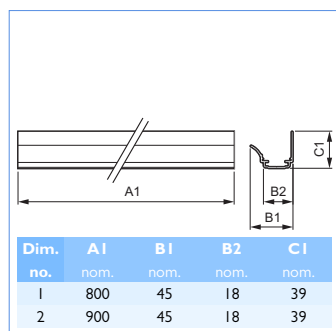
- Removal of sharp metal edges which could cause injury to shoppers
- Easy click-in system to connect the module to the mounting profiles
- Special glare-free profile
- Wide range of mounting profiles to suit the different cabinets

Application

- Commercial freezers and coolers

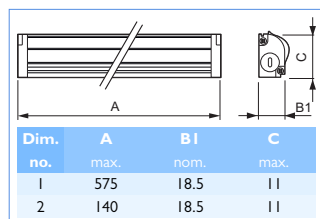
System

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



| Type | Dim. no. | Packing type/Packing configuration | | National Order Code | Ordering number |
|--------------------------------------|----------|------------------------------------|-----|---------------------|-------------------------|
| Glare free mounting profile SD 850mm | 1 | UNP / 12 | 12 | | 8727900 92754200 |
| Glare free mounting profile SD 950mm | 2 | UNP / 12 | 12 | | 8727900 92755900 |
| Mounting clips | 3 | UNP / 200 | 200 | | 8718291 12270800 |
| Mounting profile 10 degr 1700mm | 4 | INO / 18 | 18 | MPI0D1700 | 8718291 16780800 |

InteGrade LED engines NB



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

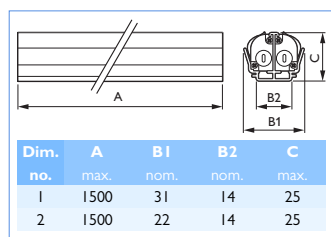
System

- 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 | 25785100 |
| InteGrade ENG vision 575mm(23") 840 NB | 85 | 4,000 | 50,000 | 1 | INO / 24 | 24 | 25787500 |
| InteGrade ENG vision 140mm(6") 840 NB | 85 | 4,000 | 50,000 | 2 | INO / 24 | 24 | 25783700 |



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

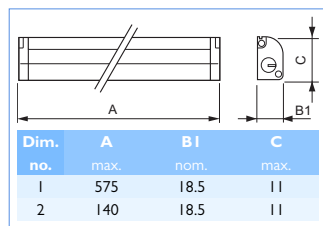
System

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 _a) | 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 | 66198600 |
| InteGrade FIX vis 1500mm(59") WWR NB SD | | | 50,000 | 2 | INO / 6 | 67091900 |
| InteGrade FIX vis 1500mm(59") 840 NB CTR | 85 | 4,100 | 50,000 | 1 | INO / 6 | 67085800 |
| InteGrade FIX vis 1500mm(59") 840 NB SD | 85 | 4,100 | 50,000 | 2 | INO / 6 | 67089600 |



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



InteGrade LED fixture system



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.

- 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

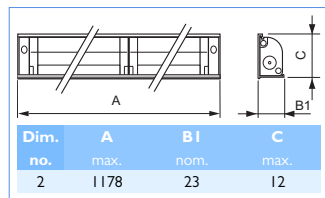
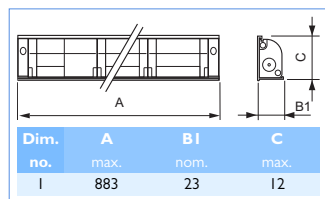
- Energy savings of up to 65% (10 W compared to a 28 W TL5 system)
- Superb asymmetrical optics
- InteGrade cabling allows connection to own connector system
- 5-year Philips warranty (InteGrade LED fixture in combination with Philips cables and Philips LED power driver)

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.



Product benefits

- Excellent Total Cost of Ownership with attractive payback times

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

Accessories for InteGrade LED engines



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.

- 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

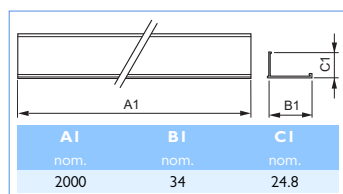
InteGrade LED engines and accessories are designed and marketed together, as we believe good system design is crucial to effective functioning of the system, and it also facilitates an easy design-in


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



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

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

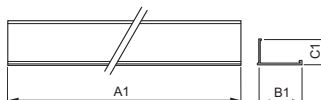
- Dedicated InteGrade cabling allows connection to own connector system.
- With a choice of under-shelf or shelf-arm mounting clips, InteGrade LED fixtures can be installed in shelf rack cabinets and displays.
- Dedicated Xitanium LED Outdoor drivers for reliable operation

Applications

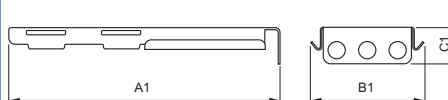
- Shelf and display lighting in supermarkets, refrigerated cabinets, retail environments, libraries, museums

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.



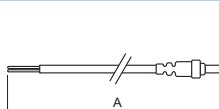
| Dim. no. | A1 nom. | B1 nom. | C1 nom. |
|----------|---------|---------|---------|
| 1 | 2000 | 34.0 | 24.8 |
| 2 | 1175 | 22.2 | 11.9 |
| 3 | 875 | 22.2 | 11.9 |
| 4 | 2000 | 22.2 | 11.9 |



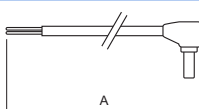
| Dim. no. | A1 nom. | B1 nom. | C1 nom. |
|----------|---------|---------|---------|
| 5 | 71 | 32 | 10 |



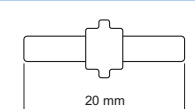
| Dim. no. | A1 nom. | B1 nom. | C1 nom. |
|----------|---------|---------|---------|
| 6 | 47 | 30.5 | 12.5 |



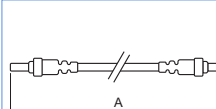
| Dim. no. | A nom. |
|----------|--------|
| 7 | 2500 |
| 8 | 1000 |



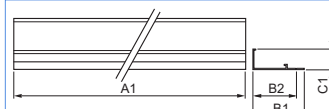
| Dim. no. | A nom. |
|----------|--------|
| 9 | 1000 |
| 10 | 2500 |




Dim. no. 11



| 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 | | 67648500 |
| InteGrade mounting clip T style profile | | INO / 100 | 100 | | 67650800 |
| InteGrade magnet for M style profile | | INO / 100 | 100 | | 70727100 |
| InteGrade mounting clip shelf arm | 5 | INO / 100 | 100 | IGMCSA | 21879100 |
| InteGrade mounting clip under shelf | 6 | INO / 100 | 100 | INTGRMNTCLUNDSSH | 21881400 |
| InteGrade power cable 2.5m(98") white | 7 | INO / 24 | 24 | INTGR2PWRCABWH | 22148700 |
| InteGrade cable 1m(39") black angle | 9 | INO / 24 | 24 | INTGR1CABBL | 22136400 |
| InteGrade cable 1m(39") white angle | 9 | INO / 24 | 24 | IGC139WA | 22142500 |
| InteGrade cable 2.5m(98") black angle | 10 | INO / 24 | 24 | IGC2.5BA | 22146300 |
| InteGrade cable 2.5m(98") white angle | 10 | INO / 24 | 24 | INTGR2CABWH | 22150000 |
| InteGrade connector | 11 | INO / 500 | 500 | IGCON | 22115900 |
| InteGrade power cable 1m(39") black | 8 | INO / 24 | 24 | INTGR1PWRCABBL | 21812800 |
| InteGrade power cable 2.5m(98") black | 7 | INO / 24 | 24 | INTGR2PWRCABBL | 22144900 |
| InteGrade profile 1175mm(46") | 2 | INO / 48 | 48 | INTGR1175PR | 21955200 |
| InteGrade profile 875mm(34") | 3 | INO / 48 | 48 | INTGR875PR | 21953800 |
| InteGrade engine lock inline | | INO / 100 | 100 | IGENGLI | 21951400 |
| InteGrade spacer cable 0.5m black | 12 | INO / 24 | 24 | INTGR05SPCABBL | 22152400 |
| InteGrade spacer cable 0.5m white | 12 | INO / 24 | 24 | INTGR05SPCABWH | 22154800 |
| InteGrade power cable 1m(39") white | 8 | INO / 24 | 24 | IGPC139W | 22140100 |

More data see next page

(continued)

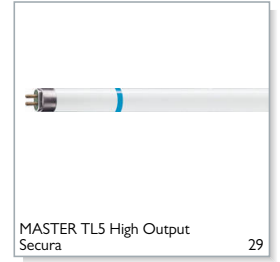
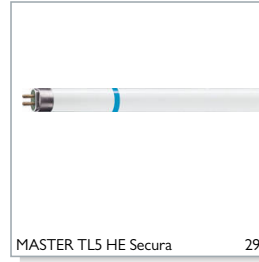
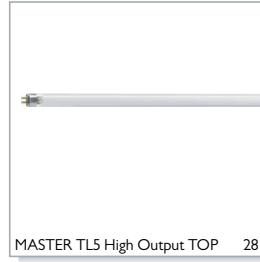
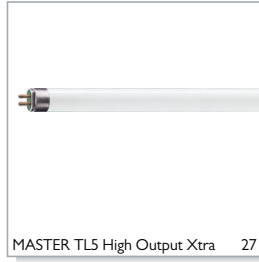
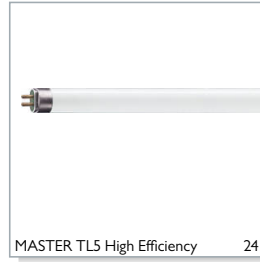
| Type | Dim. no. | Packing type/Packing configuration |  | National Order Code | Ordering number 8718291... |
|--|----------|------------------------------------|---|---------------------|-------------------------------|
| InteGrade profile 2000mm(79") F style | 13 | INO / 24 | 24 | IGP200079FS | 22789200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

01

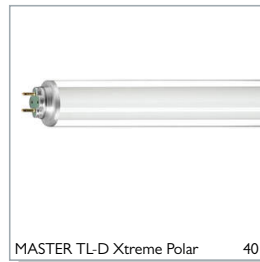
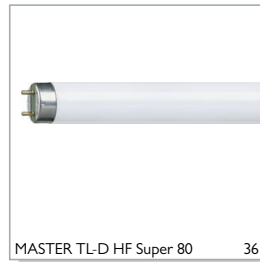




TL5 ⇨



TL-D ⇨



TL

TL Miniature ⇨





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. | A 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 Rendering Index (Ra) | Colour Temperature (K) | Luminous Flux EL 25°C, Rated (lm) | Lum Efficacy Rated HF 35°C (lm/W) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... | |
|----------------------|-----------------------------|------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|----------|-------------------------------------|---------------------|----------------------------|-----|
| 13W/840 | 82 | 4,000 | 1,150 | 104 | 30,000 | 45,000 | A 1 | ISL / 40 40 | 13840TL5ECOXTTRA | 66942500 | yes |
| 25W/830 | 82 | 3,000 | 2,600 | 112 | 30,000 | 45,000 | A 2 | ISL / 40 40 | 25830TL5ECOXTTRA | 66944900 | yes |
| 25W/840 | 82 | 4,000 | 2,600 | 112 | 30,000 | 45,000 | A 2 | ISL / 40 40 | 25840TL5ECOXTTRA | 66946300 | yes |
| 32W/840 | 82 | 4,000 | 3,250 | 111 | 30,000 | 45,000 | A 3 | ISL / 40 40 | 32840TL5ECOXTTRA | 66950000 | yes |

MASTER TL5 High Efficiency Eco



The world's most efficient fluorescent lighting

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

Product 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

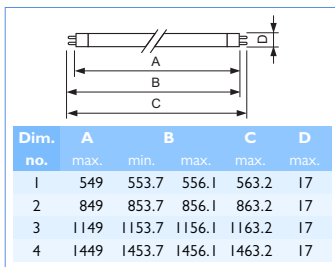
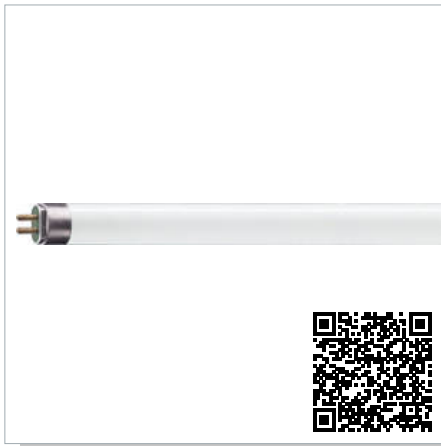
- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.

| Dim. no. | A max. | A 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 Rendering Index | Colour Temperature | Luminous Flux EL 25°C, Rated | Lum Efficacy Rated HF 35°C | Life to 10% fail Preheat EL,3h | Life to 50% fail Preheat EL,3h | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 8727900... | |
|-------------------------|------------------------|--------------------|------------------------------------|----------------------------------|---|---|----|----------|--|----|---------------------|-------------------------------|-----|
| | (R _a) | (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 | 88083000 | yes |
| 19=21W/840 | 85 | 4,000 | 1,800 | 110 | 21,000 | 25,000 | A+ | 2 | ISL / 20 | 20 | 19840TL5ECO | 91814400 | yes |
| 25=28W/840 | 82 | 4,000 | 2,600 | 114 | 21,000 | 25,000 | A+ | 3 | UNP / 40 | 40 | 25840TL5ECO | 82589300 | yes |
| 32=35W/840 | 82 | 4,000 | 3,250 | 111 | 21,000 | 25,000 | A+ | 4 | UNP / 40 | 40 | 32840TL5ECO | 82593000 | yes |

MASTER TL5 High Efficiency



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

Environment

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

Application

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

MASTER TL5 HE G5

| Wattage/ Colour Code | Colour Rendering Index | Colour Temperature | Luminous Flux EL 25°C, Rated | Lum Efficacy Rated HF 35°C | Life to 10% fail Preheat EL,3h | Life to 50% fail Preheat EL,3h | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number | |
|-------------------------|------------------------|--------------------|------------------------------------|----------------------------------|---|---|----|----------|--|----|---------------------|-----------------|-----|
| | (R _a) | (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



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

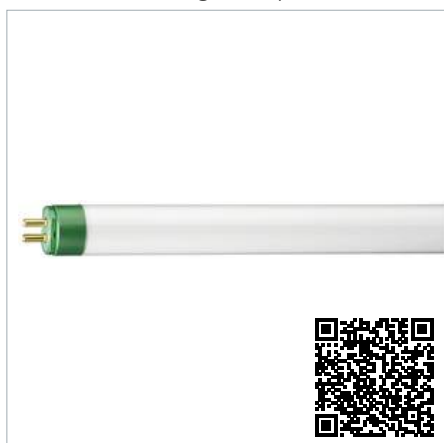
- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.
- TL5 HO EcoPlus is not designed for dimming applications.

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

MASTER TL5 HO EcoPlus G5

| Wattage/ Colour Code | Colour Rendering Index (Ra) | Colour Temperature (K) | Luminous Flux EL 25°C, Rated (lm) | Lum Efficacy Rated HF 35°C (lm/W) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... | RoHS | | |
|----------------------|-----------------------------|------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|----------|-------------------------------------|---------------------|----------------------------|--------------|----------|-----|
| 41W/840 | 82 | 4,000 | 4,250 | 107 | 21,000 | 30,000 | A+ | 1 | UNP / 40 | 40 | 41840TL5ECO+ | 66337900 | yes |
| 44W/840 | 82 | 4,000 | 3,900 | 102 | 21,000 | 30,000 | A+ | 2 | UNP / 40 | 40 | 44840TL5ECO+ | 66333100 | yes |
| 66W/840 | 82 | 4,000 | 5,700 | 97 | 21,000 | 30,000 | A+ | 1 | UNP / 40 | 40 | 66840TL5ECO+ | 66341600 | yes |

MASTER TL5 High Output Eco



The world's most efficient and brightest fluorescent lighting

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

Product 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

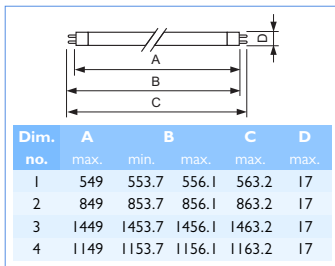
- A reduction in energy consumption is only achieved with current-controlled gear.
- The lamps operate perfectly with power-controlled gear, but in that case the light output can be up to 10% higher.

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

MASTER TL5 HO Eco G5

| Wattage/ Colour Code | Colour Rendering Index | Colour Temperature | Luminous Flux EL 25°C, Rated | Lum Efficacy Rated HF 35°C | Life to 10% fail Preheat EL,3h | Life to 50% fail Preheat EL,3h | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 8727900... | |
|-------------------------|------------------------|--------------------|---------------------------------|----------------------------------|--------------------------------------|--------------------------------------|----|----------|--|----|---------------------|-------------------------------|-----|
| | (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 | 88086100 | yes |
| 20=24W/865 | 82 | 6,500 | 1,525 | 93 | 21,000 | 30,000 | A+ | 1 | ISL / 20 | 20 | 20865TL5ECO | 90816900 | yes |
| 45=49W/830 | 82 | 3,000 | 4,100 | 106 | 21,000 | 30,000 | A+ | 2 | UNP / 40 | 40 | 45830TL5ECO | 82594700 | yes |
| 45=49W/840 | 82 | 4,000 | 4,100 | 106 | 21,000 | 30,000 | A+ | 2 | UNP / 40 | 40 | 45840TL5ECO | 82595400 | yes |
| 50=54W/830 | 85 | 3,000 | 4,450 | 102 | 21,000 | 30,000 | A+ | 3 | UNP / 40 | 40 | 50830TL5ECO | 82590900 | yes |
| 50=54W/840 | 85 | 4,000 | 4,450 | 102 | 21,000 | 30,000 | A+ | 3 | UNP / 40 | 40 | 50840TL5ECO | 82591600 | yes |
| 73=80W/840 | 82 | 4,000 | 6,550 | 94 | 21,000 | 30,000 | A+ | 2 | UNP / 40 | 40 | 73840TL5ECO | 82597800 | yes |

MASTER TL5 High Output



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

Environment

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

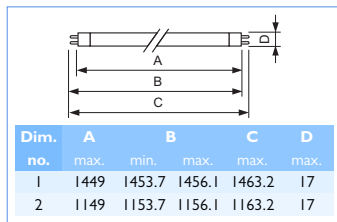
Application

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

MASTER TL5 HO G5

| Wattage/ Colour Code | Colour Rendering Index | Colour Temperature | Luminous Flux EL 25°C, Rated | Lum Efficacy Rated HF 35°C | Life to 10% fail Preheat EL,3h | Life to 50% fail Preheat EL,3h | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number | |
|-------------------------|------------------------|--------------------|---------------------------------|----------------------------------|--------------------------------------|--------------------------------------|----|----------|--|----|---------------------|-----------------|-----|
| | (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 | 871150063958555 | yes |
| 24W/840 | 82 | 4,000 | 1,700 | 87 | 21,000 | 30,000 | A | 1 | ISL / 40 | 40 | 24840 | 871150063960855 | yes |
| 39W/830 | 82 | 3,000 | 3,100 | 92 | 21,000 | 30,000 | A+ | 2 | ISL / 40 | 40 | 39830 | 871150063962255 | yes |
| 39W/830 | 82 | 3,000 | 3,100 | 92 | 21,000 | 30,000 | A+ | 2 | UNP / 40 | 40 | 39830IP | 871150063716155 | yes |
| 39W/840 | 82 | 4,000 | 3,100 | 92 | 21,000 | 30,000 | A+ | 2 | ISL / 40 | 40 | 39840 | 871150063964655 | yes |
| 49W/830 | 82 | 3,000 | 4,375 | 99 | 21,000 | 30,000 | A+ | 3 | ISL / 40 | 40 | 49830 | 871150063954755 | yes |
| 49W/835 | 82 | 3,500 | 4,375 | 99 | 21,000 | 30,000 | A+ | 3 | ISL / 40 | 40 | 49835 | 871829111503800 | yes |
| 49W/840 | 82 | 4,000 | 4,375 | 99 | 21,000 | 30,000 | A+ | 3 | ISL / 40 | 40 | 49840 | 871150063956155 | yes |
| 49W/840 | 82 | 4,000 | 4,375 | 99 | 21,000 | 30,000 | A+ | 3 | UNP / 40 | 40 | 49840IP | 871150063758155 | yes |
| 49W/865 | 82 | 6,500 | 4,075 | 92 | 21,000 | 30,000 | A+ | 3 | ISL / 40 | 40 | 49865 | 871150064389655 | yes |
| 54W/830 | 85 | 3,000 | 4,450 | 93 | 21,000 | 30,000 | A+ | 4 | ISL / 40 | 40 | 54830 | 871150064316255 | yes |
| 54W/840 | 85 | 4,000 | 4,450 | 93 | 21,000 | 30,000 | A+ | 4 | ISL / 40 | 40 | 54840 | 871150064318655 | yes |
| 54W/865 | 85 | 6,500 | 4,150 | 86 | 21,000 | 30,000 | A | 4 | ISL / 40 | 40 | 54865 | 871150064391955 | yes |
| 80W/830 | 82 | 3,000 | 6,550 | 88 | 21,000 | 30,000 | A | 3 | ISL / 40 | 40 | 80830 | 871150071040655 | yes |
| 80W/840 | 82 | 4,000 | 6,550 | 88 | 21,000 | 30,000 | A | 3 | ISL / 40 | 40 | 80840 | 871150071045155 | yes |
| 80W/865 | 82 | 6,500 | 6,300 | 81 | 21,000 | 30,000 | A | 3 | ISL / 40 | 40 | 80865 | 871150071047555 | yes |

MASTER TL5 High Output Xtra



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 CO₂ emissions than any other comparable light source (40% less than TL-D standard lamp, 26% less than TL-D 800) and less waste. Products with the 'Green Flagship' logo have the industry's lowest mercury content and are 100% lead-free. Less material, packaging, weight, transport and recycling volume due to smallest product dimensions (only 16 mm diameter, 40% less than TL-D lamps)
- This product range is RoHS compliant
- This product range is covered by WEEE

Applications

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

System

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

Warnings and Safety

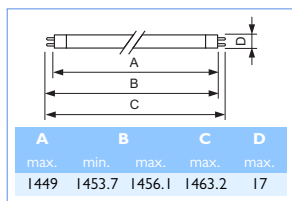
- Philips HF Xtreme gear ensures longest lifetime.
- To achieve lifetimes as published for 100% operation, dimming below 30% should not be applied.

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 871 1500... | |
|----------------------------|-----------------------------------|----------------------------|------------------------------------|-------------------------------------|---|---|----|-------------|---|----|------------------------|-----------------------------------|-----|
| | (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 | 26251605 | yes |
| 49W/840 | 82 | 4,000 | 4,375 | 98 | 30,000 | 45,000 | A+ | 1 | ISL / 20 | 20 | 49840XTRATL5 | 26253005 | yes |
| 54W/830 | 82 | 3,000 | 4,450 | 93 | 30,000 | 45,000 | A+ | 2 | ISL / 20 | 20 | 54830XTRATL5 | 26323005 | yes |
| 54W/840 | 82 | 4,000 | 4,450 | 93 | 30,000 | 45,000 | A+ | 2 | ISL / 20 | 20 | 54840XTRATL5 | 26352005 | yes |
| 80W/830 | 82 | 3,000 | 6,400 | 88 | 30,000 | 45,000 | A | 1 | ISL / 20 | 20 | 80830XTRATL5 | 26261505 | yes |
| 80W/840 | 82 | 4,000 | 6,400 | 88 | 30,000 | 45,000 | A | 1 | ISL / 20 | 20 | 80840XTRATL5 | 26303205 | 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

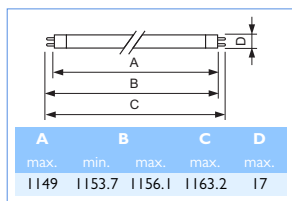
- Not recommended for emergency lighting due to slower run-up behaviour than non-amalgam TL5 lamps

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 | 26687305 | yes |
| 80W/840 | 85 | 4,000 | 6,750 | 88 | 21,000 | 30,000 | A+ | ISL / 20 | 20 | 80840TOP | 26691005 | yes |



MASTER TL5 HE Secura



Shatterfree fluorescent lighting

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

Product 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

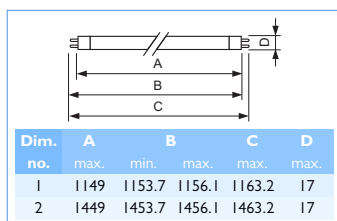
Application

- 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



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 Tempe- ra- ture | Lamp Lumi- nous Flux 25°C EL | 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... | |
|----------------------------|-----------------------------------|---------------------------------|---|---------------------------------------|-------------------------------------|---|---|----|-------------|---|----|------------------------|----------------------------------|-----|
| | (R _a) | (K) | (lm) | (lm) | (lm/W) | (h) | (h) | | | | | | | |
| 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

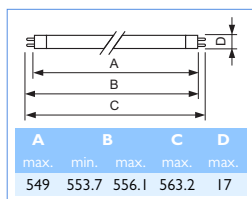
Product Features

- 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 _a) | (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

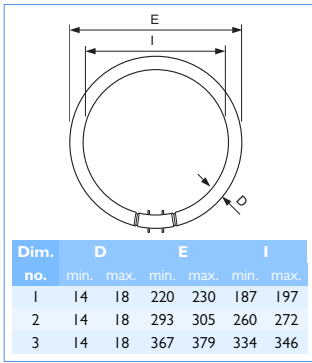
Product Features

- 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

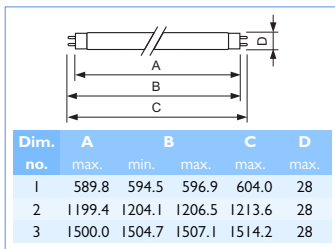
- Brings the benefits of TL5 lighting to an even wider range of attractive applications
- Suitable for a wide range of professional and semi-professional applications
- Ideal for use in shops, offices and public areas with non-traditional lay-outs
- Amalgam lamps are limited suitable for dimming applications



MASTER TL5 Circular 2GX13

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

MASTER TL-D Eco



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 CO₂ emissions and meet climate change targets
- Philips Green Flagship label due to extremely low mercury levels
- RoHS compliant
- Covered by WEEE

Application

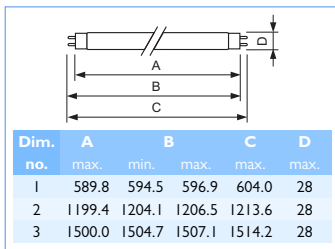
- For use in indoor applications with room temperatures above 20 °C (which implies temperature around the lamp of over 25-35 °C)
- Primary focus on offices, schools and hospitals; secondary focus on retail, industry, supermarkets
- Not recommended under the following conditions:
 - with air flow around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

MASTER TL-D Eco G13

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



MASTER TL-D Power Saver Set



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. | C max. | D max. |
|----------|--------|--------|--------|--------|
| 1 | 437.4 | 442.1 | 444.5 | 451.6 |
| 2 | 589.8 | 594.5 | 596.9 | 604.0 |
| 3 | 970.0 | 974.7 | 977.1 | 984.2 |
| 4 | 894.6 | 899.3 | 901.7 | 908.8 |
| 5 | 1199.4 | 1204.1 | 1206.5 | 1213.6 |
| 6 | 1047.0 | 1051.7 | 1054.1 | 1061.2 |
| 7 | 1500.0 | 1504.7 | 1507.1 | 1514.2 |
| 8 | 1763.8 | 1768.5 | 1770.9 | 1778.0 |

MASTER TL-D Super 80 G13

| Wattage/Colour Code/Version | Colour Rendering Index (Ra) | Colour Temperature (K) | Luminous Flux EM 25°C, Rated (lm) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... | | | |
|-----------------------------|-----------------------------|------------------------|-----------------------------------|------------------------------------|------------------------------------|----------|-------------------------------------|---------------------|----------------------------|----------|-----------------|-----|
| 15W/830 | 85 | 3,000 | 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 max. | B min. | B max. | C max. | D 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 green 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 (Ra) | Colour Temperature (K) | Luminous Flux EM 25°C, Rated (lm) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... | |
|----------------------|-----------------------------|------------------------|-----------------------------------|------------------------------------|------------------------------------|----------|-------------------------------------|---------------------|----------------------------|-----|
| 18W/830 | 85 | 3,000 | 1,300 | 17,000 | 20,000 | A | ISL / 25 | 18830SEC | 64006240 | yes |
| 58W/840 | 85 | 4,000 | 5,000 | 17,000 | 20,000 | A | ISL / 25 | 58840BSEC | 64018540 | yes |

MASTER TL-D Reflex



| Dim. no. | A max. | B min. | B max. | C max. | D max. |
|----------|--------|--------|--------|--------|--------|
| 1 | 589.8 | 594.5 | 596.9 | 604.0 | 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 _a) | (K) | (lm) | (h) | (h) | | | | | | | yes |
| 18W/830 | 85 | 3,000 | 1,350 | 17,000 | 20,000 | A | 1 | ISL / 25 | 25 | 18830R | 63644740 | yes |
| 18W/840 | 85 | 4,000 | 1,350 | 17,000 | 20,000 | A | 1 | ISL / 25 | 25 | 18840R | 63647840 | yes |
| 18W/865 | 85 | 6,500 | 1,300 | 17,000 | 20,000 | A | 1 | ISL / 25 | 25 | 18865RFECO | 26029140 | yes |
| 36W/840 | 85 | 4,000 | 3,350 | 17,000 | 20,000 | A | 2 | ISL / 25 | 25 | 36840R | 55953140 | yes |
| 58W/840 | 85 | 4,000 | 5,240 | 17,000 | 20,000 | A | 3 | ISL / 25 | 25 | 58840R | 55962340 | yes |
| 58W/865 | 85 | 6,500 | 5,000 | 17,000 | 20,000 | A | 3 | ISL / 25 | 25 | 58865RFECO | 26033840 | yes |

MASTER TL-D HF Super 80



Product Description

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

Product 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

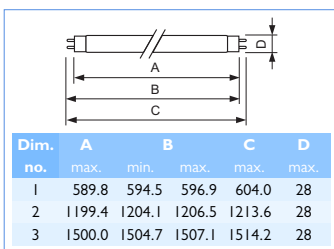
- High initial lumen output
- Available in varying colour designations
- Low mercury dose
- MASTER TL-D lamps are fully recyclable
- End-cap has green bottom plate to identify lamp as recyclable

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



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 _a) | (K) | (lm) | (h) | (h) | | | | | | | yes |
| 16W/830 | 85 | 3,000 | 1,400 | 17,000 | 20,000 | A | 1 | ISL / 25 | 25 | 16830 | 63144240 | yes |
| 16W/840 | 85 | 4,000 | 1,400 | 17,000 | 20,000 | A | 1 | ISL / 25 | 25 | 16840 | 63147340 | yes |
| 32W/840 | 85 | 4,000 | 3,200 | 17,000 | 20,000 | A+ | 2 | ISL / 25 | 25 | 32840 | 63153440 | yes |
| 50W/840 | 85 | 4,000 | 5,000 | 17,000 | 20,000 | A+ | 3 | ISL / 25 | 25 | 50840 | 63159640 | yes |

MASTER TL-D Xtra



| Dim. no. | A max. | A 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

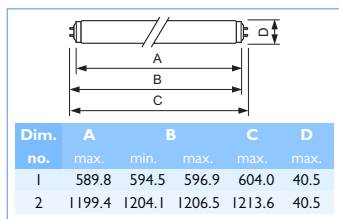
- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

MASTER TL-D Xtra G13

| Wattage/ Colour Code | Colour Rendering Index (Ra) | Colour Temperature (K) | Luminous Flux EM 25°C, Rated (lm) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 871 1500... | |
|-------------------------|--------------------------------|---------------------------|---|--|--|----------|--|---------------------|--------------------------------|-----|
| 18W/830 | 85 | 3,000 | 1,350 | 46,500 | 55,000 | A 1 | ISL / 25 | 18830XTRA | 54498840 | yes |
| 18W/840 | 85 | 4,000 | 1,350 | 46,500 | 55,000 | A 1 | ISL / 25 | 18840XTRA | 55862640 | yes |
| 30W/830 | 85 | 3,000 | 2,400 | 47,000 | 55,000 | A 2 | ISL / 25 | 30830XTRA | 89532540 | yes |
| 30W/840 | 85 | 4,000 | 2,400 | 47,000 | 55,000 | A 2 | ISL / 25 | 30840XTRA | 89536340 | yes |
| 36W/830 | 85 | 3,000 | 3,350 | 47,000 | 55,000 | A 3 | ISL / 25 | 36830XTRA | 55871840 | yes |
| 36W/840 | 85 | 4,000 | 3,350 | 47,000 | 55,000 | A 3 | ISL / 25 | 36840XTRA | 55876340 | yes |
| 58W/830 | 85 | 3,000 | 5,200 | 47,000 | 55,000 | A 4 | ISL / 25 | 58830XTRA | 55888640 | yes |
| 58W/840 | 85 | 4,000 | 5,200 | 47,000 | 55,000 | A 4 | ISL / 25 | 58840XTRA | 55890940 | yes |
| 70W/840 | 85 | 4,000 | 6,150 | 47,000 | 55,000 | A 5 | ISL / 25 | 70840XTRA | 89552340 | yes |



MASTER TL-D Xtra Polar



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

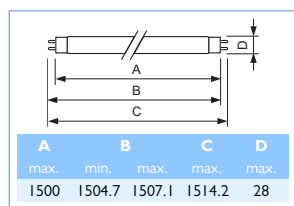
- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

MASTER TL-D Xtra Polar G13

| Wattage/ Colour Code | Bulb | Colour 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 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 | 89303125 | yes |
| 36W/830 | T12 | 85 | 3,000 | 3,350 | 47,000 | 55,000 | A | 2 | ISL / 10 | 10 | 36830XTRAPOLAR | 89315425 | yes |



MASTER TL-D Xtra Secura



Product Description

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

Product 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

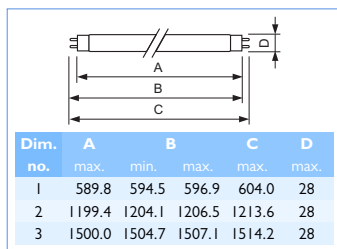
- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

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 871 1500... | |
|-------------------------|------------------------------|----------------------------|------------------------------------|--------------------------------------|--------------------------------------|---|---|----|------------------------|-----------------------------------|-----|
| | (Ra) | (K) | (lm) | (h) | (h) | | | | | | yes |
| 58W/840 | 85 | 4,000 | 5,100 | 47,000 | 55,000 | A | ISL / 25 | 25 | 58840XTRASEC | 88991140 | yes |



MASTER TL-D Xtreme



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

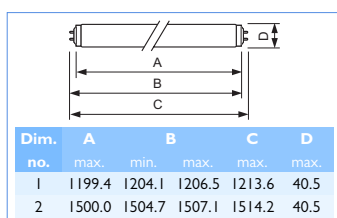
Warnings and Safety

- 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 Temperature | Luminous Flux EM 25°C, Rated | Life to 10% fail Preheat EL,3h | Life to 50% fail Preheat EL,3h | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... |
|----------------------|------------------------|--------------------|------------------------------|--------------------------------|--------------------------------|----------|-------------------------------------|---------------------|----------------------------|
| (R _a) | (K) | (lm) | (h) | (h) | | | | | |
| 18W/840 | 85 | 4,000 | 1,350 | 66,000 | 79,000 | A 1 | ISL / 25 25 | 18840XTREME | 54496440 |
| 18W/865 | 85 | 6,500 | 1,250 | 66,000 | 79,000 | A 1 | ISL / 25 25 | 18865XTREME | 89275140 |
| 36W/840 | 85 | 4,000 | 3,250 | 66,000 | 79,000 | A 2 | ISL / 25 25 | 36840XTREME | 58688840 |
| 36W/865 | 85 | 6,500 | 3,150 | 66,000 | 79,000 | A 2 | ISL / 25 25 | 36865XTREME | 89277540 |
| 58W/840 | 85 | 4,000 | 5,150 | 66,000 | 79,000 | A 3 | ISL / 25 25 | 58840XTREME | 5886240 |
| 58W/865 | 85 | 6,500 | 5,000 | 66,000 | 79,000 | A 3 | ISL / 25 25 | 58865XTREME | 89279940 |

MASTER TL-D Xtreme Polar



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

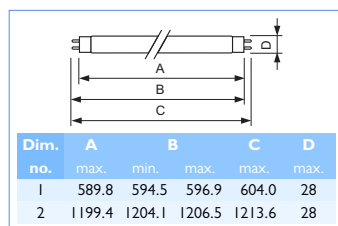
- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.



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 871 1500... | |
|-------------------------|------------------------------|----------------------------|------------------------------------|---|---|---|-------------|---|----|---------------------|-----------------------------------|-----|
| | (R _a) | (K) | (lm) | (h) | (h) | | | | | | | |
| 36W/840 | 85 | 4,000 | 3,250 | 66,000 | 79,000 | A | 1 | ISL / 10 | 10 | 36840XTRMEPOLAR | 89311625 | yes |
| 58W/840 | 85 | 4,000 | 4,750 | 66,000 | 79,000 | A | 2 | ISL / 10 | 10 | 58840XTRMEPOLAR | 89323925 | yes |

MASTER TL-D Xtreme Secura



Product Description

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

Product 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

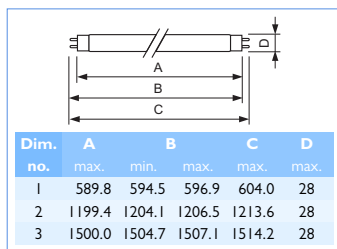
- To achieve published lifetimes for 100% operation, do not dim below 30%
- When used on electromagnetic gear, it is strongly recommended to apply only Philips S10 or S10E starters (for 18 W types S2 or S2E) to achieve the published lifetimes, and to install new starters when relamping.

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 871 1500... | |
|-------------------------|------------------------------|----------------------------|------------------------------------|---|---|---|-------------|---|----|---------------------|-----------------------------------|-----|
| | (R _a) | (K) | (lm) | (h) | (h) | | | | | | | |
| 18W/840 | 85 | 4,000 | 1,300 | 66,000 | 79,000 | A | 1 | ISL / 25 | 25 | 18840XTREMESEC | 88971340 | yes |
| 36W/840 | 85 | 4,000 | 3,250 | 66,000 | 79,000 | A | 2 | ISL / 25 | 25 | 36840XTREMESEC | 88979940 | yes |



MASTER TL-D 90 De Luxe



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 I2464-1), without investing in new luminaires
- Attractive packaging configuration

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

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 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) | | | | | |
| 18W/930 | 91 | 3,000 | 1,200 | 17,000 | 20,000 | B | 1 | 18930DLP | 88837225 | yes |
| 18W/940 | 91 | 4,000 | 1,200 | 17,000 | 20,000 | B | 1 | 18940DLP | 88839625 | yes |
| 18W/950 | 92 | 5,300 | 1,150 | 17,000 | 20,000 | B | 1 | 18950DLP | 88843325 | yes |
| 18W/965 | 93 | 6,500 | 1,150 | 17,000 | 20,000 | B | 1 | 18965DLP | 88846425 | yes |
| 36W/930 | 91 | 3,000 | 2,800 | 17,000 | 20,000 | A | 2 | 36930DLP | 88856325 | yes |
| 36W/940 | 91 | 4,000 | 2,800 | 17,000 | 20,000 | A | 2 | 36940DLP | 88858725 | yes |
| 36W/950 | 92 | 5,300 | 2,800 | 17,000 | 20,000 | A | 2 | 36950DLP | 88860025 | yes |
| 36W/965 | 93 | 6,500 | 2,800 | 17,000 | 20,000 | A | 2 | 36965DLP | 88862425 | yes |
| 58W/940 | 91 | 4,000 | 4,600 | 17,000 | 20,000 | A | 3 | 58940DLP | 88869325 | yes |
| 58W/950 | 92 | 5,300 | 4,550 | 17,000 | 20,000 | A | 3 | 58950DLP | 88871625 | yes |
| 58W/965 | 93 | 6,500 | 4,550 | 17,000 | 20,000 | A | 3 | 58965DLP | 88873025 | 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

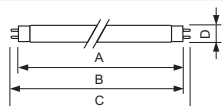
- High-quality fluorescent coating
- Available in two colour designations

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. | A min. | B max. | C max. | D max. |
|----------|--------|--------|--------|--------|--------|
| 1 | 589.8 | 594.5 | 596.9 | 604.0 | 28 |
| 2 | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 28 |
| 3 | 1500.0 | 1504.7 | 1507.1 | 1514.2 | 28 |

MASTER TL-D 90 Graphica G13

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

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

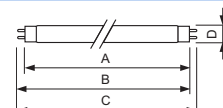
- Straight outer envelope

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. | A min. | B max. | C max. | D max. |
|----------|--------|--------|--------|--------|--------|
| 1 | 589.8 | 594.5 | 596.9 | 604.0 | 28 |
| 2 | 1199.4 | 1204.1 | 1206.5 | 1213.6 | 28 |

TL-D G13

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

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

MASTER TL Mini Super 80



Product Description

- Low-pressure mercury discharge lamps with a tubular 16 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

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

Environment

- Best environmental choice because of highest energy efficiency available for fluorescent lighting. Lowest CO₂ emission compared to any other comparable lightsource. 100% lead free
- This product range is RoHS compliant per I-I-2006
- This product range is covered by WEEE

Application

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

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

MASTER TL Mini Super 80 G5

| Wattage/ Colour Code | Colour Rendering Index (R _a) | Colour Temperature (K) | Lamp Luminous Flux EM (lm) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Energy Class | Dim. no. | Packing type/ Packing configuration | Packing | National Order Code | Ordering number 8711500... | RoHS |
|----------------------|--|------------------------|----------------------------|------------------------------------|------------------------------------|--------------|----------|-------------------------------------|---------|---------------------|----------------------------|------|
| 8W/840 | 85 | 4,000 | 470 | 5,000 | 10,000 | A | 1 | 1FM / 10X25CC | 250 | 884 | 71642227 | yes |
| 13W/840 | 85 | 4,000 | 1,000 | 4,000 | 8,000 | A | 2 | 1FM / 10X25CC | 250 | 1384 | 71685927 | yes |

TL Mini Standard Colours



Product Description

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

Product Benefits

- Creates atmospheres from warm white to cool daylight

Product Features

- 16 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. | B max. | C max. | D max. |
|----------|--------|--------|--------|--------|--------|
| 1 | 212.1 | 216.8 | 219.2 | 226.3 | 16 |
| 2 | 288.3 | 293.0 | 295.4 | 302.5 | 16 |
| 3 | 516.9 | 521.6 | 524.0 | 531.1 | 16 |

TL Mini G5

| Wattage/ Colour Code | Colour Rendering Index (R _a) | Colour Temperature (K) | Lamp Luminous Flux EM (lm) | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Energy Class | Dim. no. | Packing type/ Packing configuration | Packing | National Order Code | Ordering number 8711500... | RoHS |
|----------------------|--|------------------------|----------------------------|------------------------------------|------------------------------------|--------------|----------|-------------------------------------|---------|---------------------|----------------------------|------|
| 6W/33-640 | 60 | 4,100 | 260 | 5,000 | 10,000 | B | 1 | 1FM / 10X25CC | 250 | 633 | 71583827 | yes |
| 8W/33-640 | 60 | 4,100 | 410 | 5,000 | 10,000 | A | 2 | 1FM / 10X25CC | 250 | 833 | 70473327 | yes |
| 13W/33-640 | 60 | 4,100 | 930 | 4,000 | 8,000 | A | 3 | 1FM / 10X25CC | 250 | 1333 | 70475727 | 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.

Product Benefits

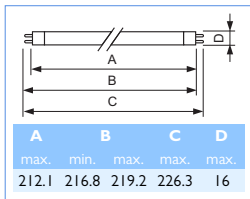
- Quick detection of UV-reflecting materials
- Creates special lighting atmospheres and effects

Product Features



- Straight outer envelope

Application

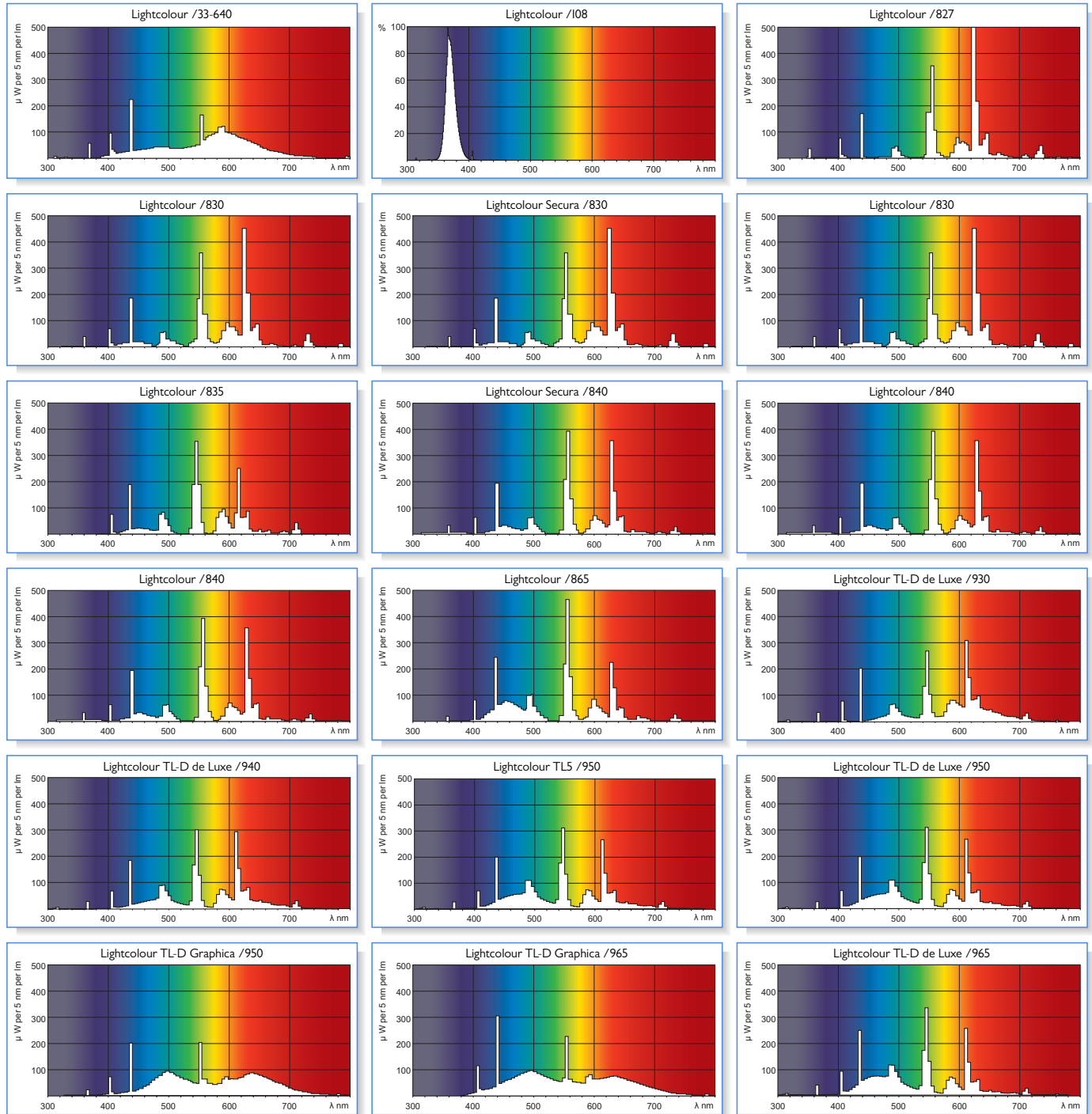
- Detection and analysis in the textile and chemical industries
- Banking and forensic science
- Special effects in night clubs, discos and theatres, and sign lighting



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... 95098727 | yes |

Spectral power distribution





Energy Saver Stick shape ↗



Energy Saver Bulb shape ↗



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

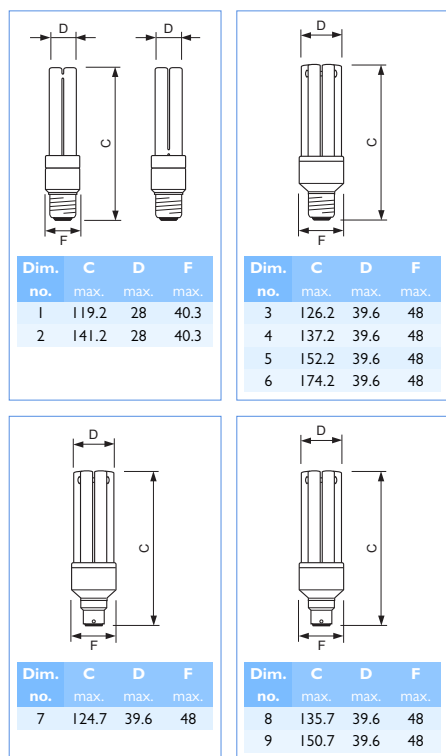
- Lightweight, superior long-life alternative to incandescent lamps
- The perfect choice for end users that demand the best performance and reliability
- Average lifetime 15 times longer than an incandescent lamp
- European energy efficiency labelling class A for the complete range
- Very good lumen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



Warm white

| Type | Wattage/ Colour Code | Voltage (V) | Cap-Base | Colour Temperature (K) | Rated Luminous Flux (lm) | Rated Lifetime (h) | Energy Label | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... | Recycling |
|--------------|----------------------|-------------|----------|------------------------|--------------------------|--------------------|--------------|----------|-------------------------------------|---------------------|----------------------------|-----------|
| 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

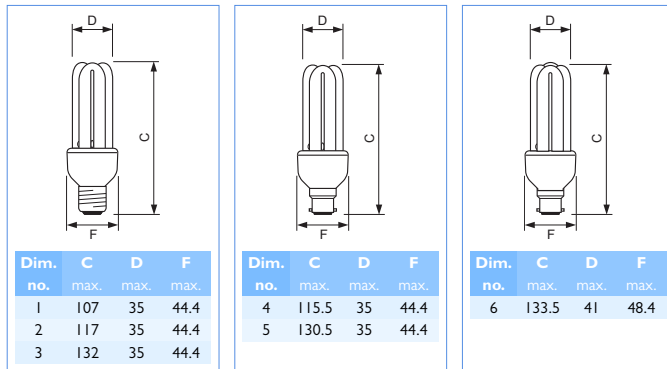
- Long-Life and Energy saving alternative to Incandescent lamps
- Fast run-up
- Recommended ambient temperature range to ensure almost constant light output (>90%): between 0 and +50 °C

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

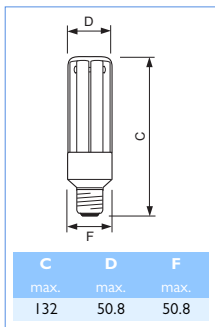
- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact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



GENIE 220-240V Warm white

| Wattage/ Colour Code | Cap-Base | Colour Temperature (K) | Rated Luminous Flux (lm) | Rated Lifetime (h) | Energy Class | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number | |
|----------------------|----------|------------------------|--------------------------|--------------------|--------------|----------|-------------------------------------|---|---------------------|-----------------|-----|
| 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 $-20 \div +40 \text{ }^\circ\text{C}$), 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

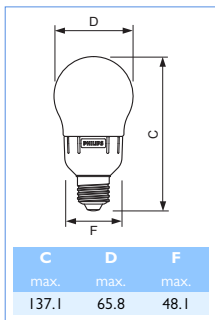
- Breaking a lamp is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove the parts, preferably with gloves. Put them in a closed plastic bag and take it to your local waste facilities for recycling. Do not use a vacuum cleaner.
- Compact 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 | | |
|---------------------|--------------------|---------------------|----------------|-------------------------------------|---------|---------------------|-----------------|----------|-----|
| | (K) | (lm) | (h) | | | | 8711500... | | |
| 15W/827 | 2,700 | 890 | 15,000 | A | 1CH / 6 | 6 | MPLE15ESPOL | 66045910 | 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 cosy 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 configuration | National Order Code | Ordering number 871 1500... | |
|----------------|-------------------------|-------------------------|------------------------|-------------------|--|------------------------|-----------------------------------|---------------------|
| | | (K) | (lm) | (h) | | | | |
| MASTER Softone | 16W/827 | 2,700 | 860 | 12,000 | A IPF / 6 | 6 | 16ESAMBMS | 46810900 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:

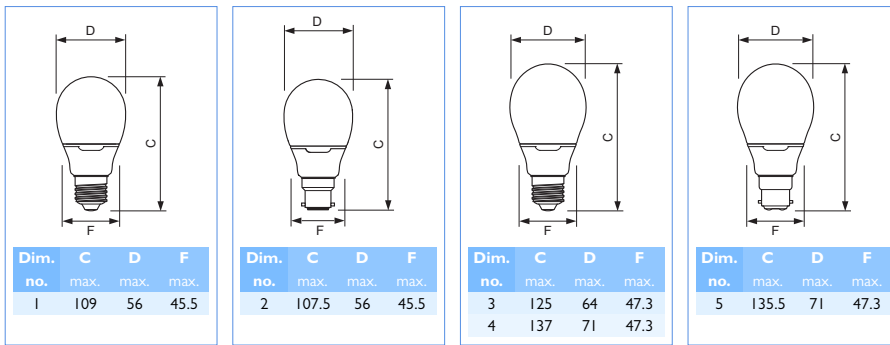
- Ideal for use in most consumer and semi-professional applications where you want to create an intimate and cosy atmosphere

- 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.



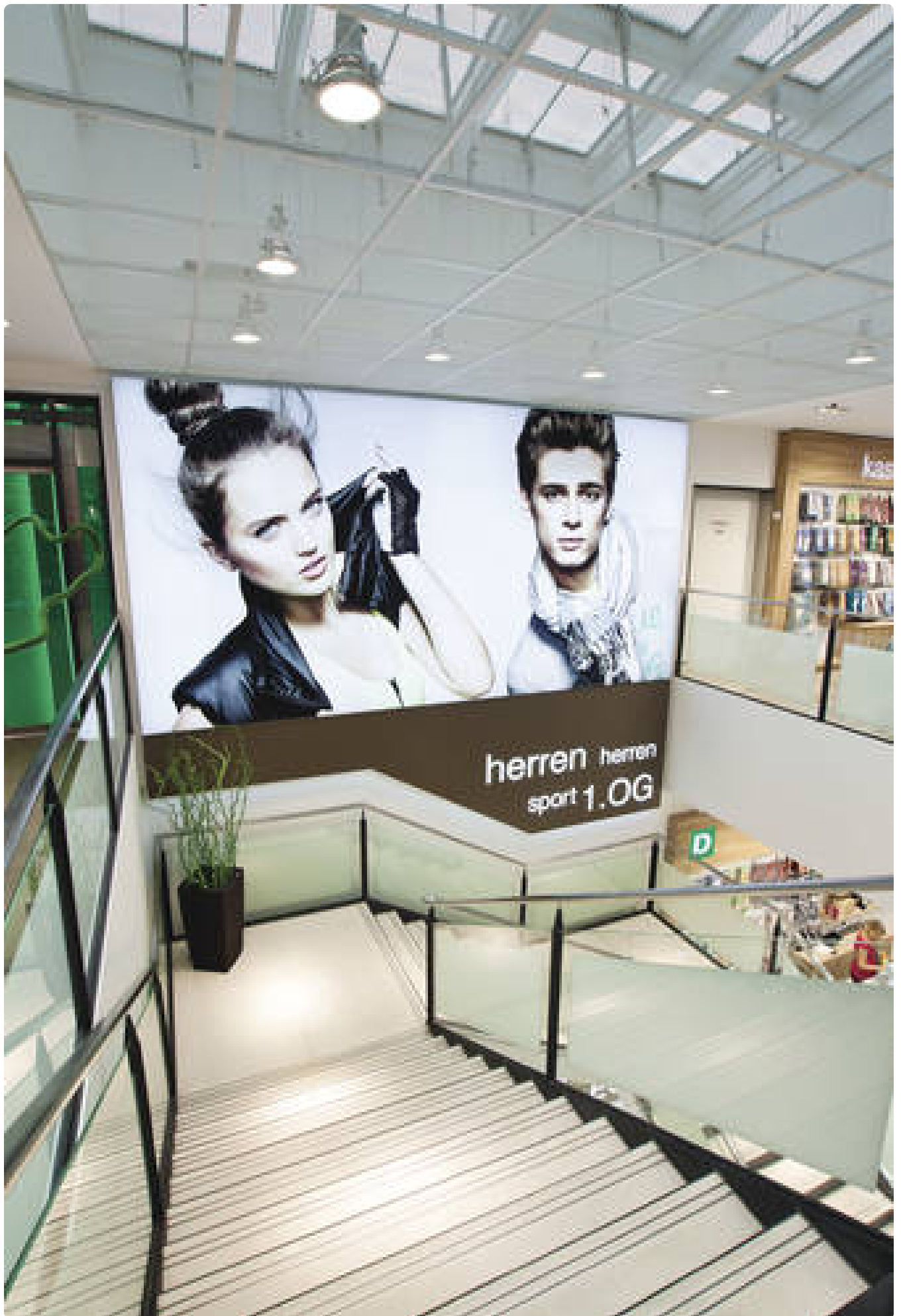


Softone 220-240V Warm white

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



Compact Fluorescent Non Integrated



PL-R



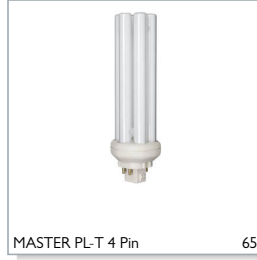
PL-S ⇄



PL-C ⇄



PL-T ⇄



PL-L ⇄



PL-Q ⇄



MASTER PL-R Eco 4 Pin



The ultimate Saver!

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

- 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

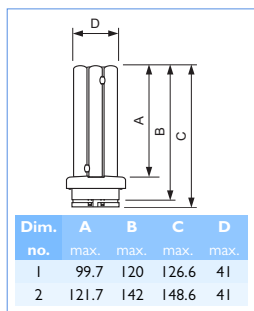
- Most sustainable compact fluorescent solution for comparable lighting solutions
- Up to 50% reduction of CO₂ emissions in application and lower light output depreciation
- Longer service life and lowest mercury content leads to less environmental waste
- Compliant with all RoHS and WEEE requirements: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

Application

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

Warnings and Safety

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



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

MASTER PL-R Eco GRI4q-I

| Wattage/ Colour Code | Colour Rendering Index (Ra) | Dimmable | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 8711500... | |
|----------------------|-----------------------------|----------|------------------------------------|------------------------------------|---|----------|-------------------------------------|----|---------------------|----------------------------|-----|
| 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

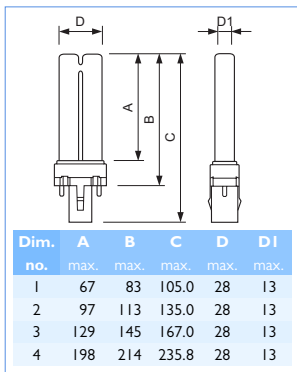
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of hazardous flame retardants

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



MASTER PL-S /2P G23

| Wattage/ Colour Code | Colour Rendering Index (R _a) | 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 |



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

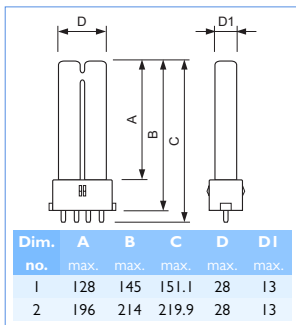
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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 _a) | 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... | |
|-------------------------|---|---|---------------|--|--|---|-------------|---|----|------------------------|----------------------------------|-----|
| 9W/840 | 82 | 583 | yes | 8,000 | 13,000 | A | 1 | ICT / 5X10CC | 50 | 9PLS8404PINB | 26096370 | yes |
| 11W/827 | 82 | 880 | yes | 8,000 | 13,000 | A | 2 | ICT / 5X10CC | 50 | 11PLS8274PINB | 26114470 | yes |
| 11W/840 | 82 | 900 | yes | 8,000 | 13,000 | A | 2 | ICT / 5X10CC | 50 | 11PLS8404PINB | 26122970 | yes |



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

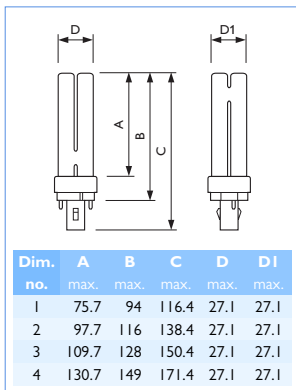
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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

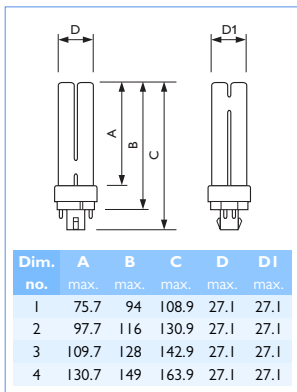
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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 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... | |
|----------------------|----------|-----------------------------|-----------------------------------|-----------|------------------------------------|------------------------------------|---|----------|-------------------------------------|----|---------------------|----------------------------|-----|
| 10W/840 | G24q-1 | 82 | 600 | yes | 8,000 | 13,000 | A | 1 | 1CT / 5X10CC | 50 | 10PLC8404PIN | 62330070 | yes |
| 13W/827 | G24q-1 | 83 | 925 | yes | 8,000 | 13,000 | A | 2 | 1CT / 5X10CC | 50 | 13PLC8274PIN | 62326370 | yes |
| 13W/830 | G24q-1 | 83 | 900 | yes | 8,000 | 13,000 | A | 2 | 1CT / 5X10CC | 50 | 13PLC8304PIN | 62331770 | yes |
| 13W/840 | G24q-1 | 82 | 900 | yes | 8,000 | 13,000 | A | 2 | 1CT / 5X10CC | 50 | 13PLC8404PIN | 62332470 | yes |
| 18W/827 | G24q-2 | 83 | 1,200 | yes | 8,000 | 13,000 | A | 3 | 1CT / 5X10CC | 50 | 18PLC8274PIN | 62327070 | yes |
| 18W/830 | G24q-2 | 83 | 1,200 | yes | 8,000 | 13,000 | A | 3 | 1CT / 5X10CC | 50 | 18PLC8304PIN | 62333170 | yes |
| 18W/840 | G24q-2 | 82 | 1,200 | yes | 8,000 | 13,000 | A | 3 | 1CT / 5X10CC | 50 | 18PLC8404PIN | 62334870 | yes |
| 26W/827 | G24q-3 | 83 | 1,760 | yes | 8,000 | 13,000 | A | 4 | 1CT / 5X10CC | 50 | 26PLC8274PIN | 62328770 | yes |
| 26W/830 | G24q-3 | 83 | 1,760 | yes | 8,000 | 13,000 | A | 4 | 1CT / 5X10CC | 50 | 26PLC8304PIN | 62335570 | yes |
| 26W/835 | G24q-3 | 82 | 1,800 | yes | 8,000 | 13,000 | B | 4 | 1CT / 5X10CC | 50 | 26PLC8354PIN | 86653070 | yes |
| 26W/840 | G24q-3 | 82 | 1,760 | yes | 8,000 | 13,000 | A | 4 | 1CT / 5X10CC | 50 | 26PLC8404PIN | 62336270 | yes |



MASTER PL-C Xtra 2 Pin



Product Description

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

Product 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

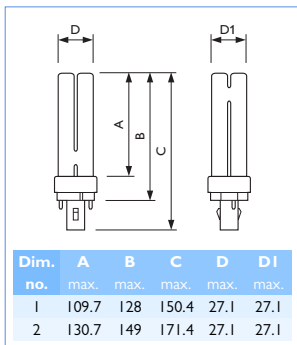
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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



MASTER PL-C Xtra /2P

| Wattage/ Colour Code | Cap-Base | Colour Rendering Index (Ra) | Luminous Flux EM 25°C, Rated (lm) | Dim-mable | Life to 10% failures EM (h) | Life to 50% failures EM (h) | Energy Class | 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 | 89895170 | yes |
| 18W/840 | G24d-2 | 82 | 1,200 | no | 12,000 | 16,000 | B | 1 | ICT / 5X10CC | 50 | 18PLC8402PXTRA | 95030770 | yes |
| 26W/840 | G24d-3 | 82 | 1,800 | no | 12,000 | 16,000 | B | 2 | ICT / 5X10CC | 50 | 26PLC8402PXTRA | 89886970 | 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

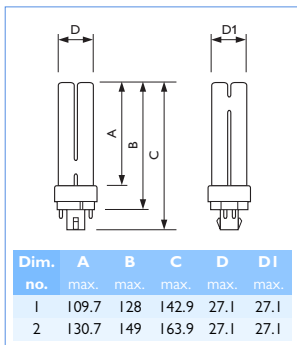
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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 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... | |
|----------------------|----------|-----------------------------|-----------------------------------|-----------|------------------------------------|------------------------------------|---|----------|-------------------------------------|----|---------------------|----------------------------|-----|
| 18W/840 | G24q-2 | 82 | 1,200 | yes | 20,000 | 33,000 | A | 1 | ICT / 5X10CC | 50 | 18PLC8404PXTRA | 95036970 | yes |
| 26W/830 | G24q-3 | 82 | 1,800 | yes | 20,000 | 33,000 | A | 2 | ICT / 5X10CC | 50 | 26PLC8304PXTRA | 89889070 | yes |
| 26W/840 | G24q-3 | 82 | 1,800 | yes | 20,000 | 33,000 | A | 2 | ICT / 5X10CC | 50 | 26PLC8404PXTRA | 89892070 | 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

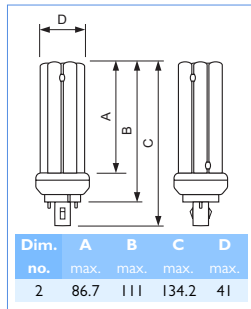
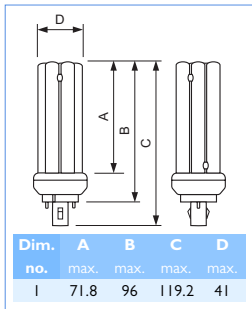
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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



MASTER PL-T 4 Pin



Product Description

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

Product 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

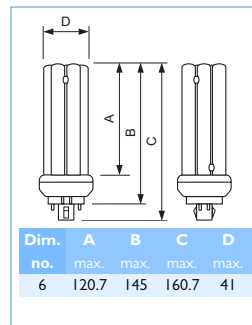
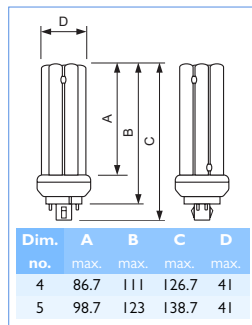
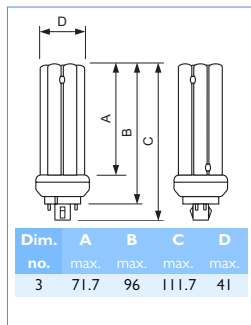
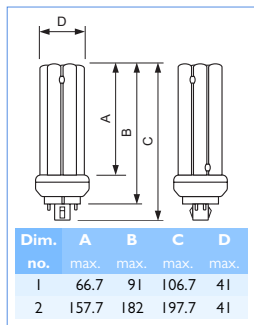
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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

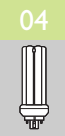
Warnings and Safety

- 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 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... | |
|----------------------|----------|-----------------------------|-----------------------------------|-----------|------------------------------------|------------------------------------|---|----------|-------------------------------------|---------------------|----------------------------|-----|
| 13W/840 | GX24q-1 | 82 | 850 | yes | 8,000 | 13,000 | A | 1 | ICT / 5X10CC 50 | 13PLT8404PINCS | 61047870 | yes |
| 18W/830 | GX24q-2 | 82 | 1,200 | yes | 8,000 | 13,000 | A | 3 | ICT / 5X10CC 50 | 18PLT8304PINCS | 61076870 | yes |
| 18W/840 | GX24q-2 | 82 | 1,200 | yes | 8,000 | 13,000 | A | 3 | ICT / 5X10CC 50 | 18PLT8404PINCS | 61099770 | yes |
| 26W/827 | GX24q-3 | 82 | 1,725 | yes | 8,000 | 13,000 | A | 4 | ICT / 5X10CC 50 | 26PLT8274PINCS | 55993770 | yes |
| 26W/830 | GX24q-3 | 83 | 1,725 | yes | 8,000 | 13,000 | A | 4 | ICT / 5X10CC 50 | 26PLT8304PINCS | 61120870 | yes |
| 26W/840 | GX24q-3 | 82 | 1,725 | yes | 8,000 | 13,000 | A | 4 | ICT / 5X10CC 50 | 26PLT8404PINCS | 61125370 | yes |
| 32W/827 | GX24q-3 | 82 | 2,400 | yes | 8,000 | 13,000 | A | 5 | ICT / 5X10CC 50 | 32PLT8274PINCS | 55996870 | yes |
| 32W/830 | GX24q-3 | 82 | 2,400 | yes | 8,000 | 13,000 | A | 5 | ICT / 5X10CC 50 | 32PLT8304PINCS | 61128470 | yes |
| 32W/840 | GX24q-3 | 82 | 2,400 | yes | 8,000 | 13,000 | A | 5 | ICT / 5X10CC 50 | 32PLT8404PINCS | 61131470 | yes |
| 42W/830 | GX24q-4 | 82 | 3,050 | yes | 8,000 | 13,000 | A | 6 | ICT / 5X10CC 50 | 42PLT8304PINCS | 61134570 | yes |
| 42W/840 | GX24q-4 | 82 | 3,050 | yes | 8,000 | 13,000 | A | 6 | ICT / 5X10CC 50 | 42PLT8404PINCS | 61137670 | yes |
| 57W/830 | GX24q-5 | 82 | 4,200 | yes | 8,000 | 13,000 | A | 2 | ICT / 5X10CC 50 | 57PLT8304PINCS | 61140670 | yes |
| 57W/840 | GX24q-5 | 82 | 4,200 | yes | 8,000 | 13,000 | A | 2 | ICT / 5X10CC 50 | 57PLT8404PINCS | 61145170 | yes |



MASTER PL-T TOP 4 Pin



Product Description

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

Product 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

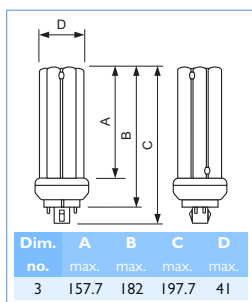
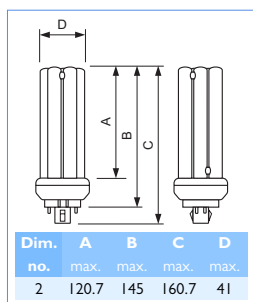
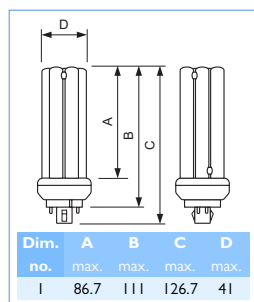
- Good environmental choice because of high energy efficiency, long life and low light output depreciation, lowest mercury content
- Compliant with all RoHS and WEEE requirements: the lamps have a very low content of mercury, are lead free and make no use of radioactive materials and hazardous flame 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 Rendering Index (Ra) | Luminous Flux EL 25°C, Rated (lm) | Dimmable | Life to 10% fail Preheat EL,3h (h) | Life to 50% fail Preheat EL,3h (h) | Energy Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... | RoHS |
|----------------------|----------|-----------------------------|-----------------------------------|----------|------------------------------------|------------------------------------|--------------|----------|-------------------------------------|---------------------|----------------------------|------|
| 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

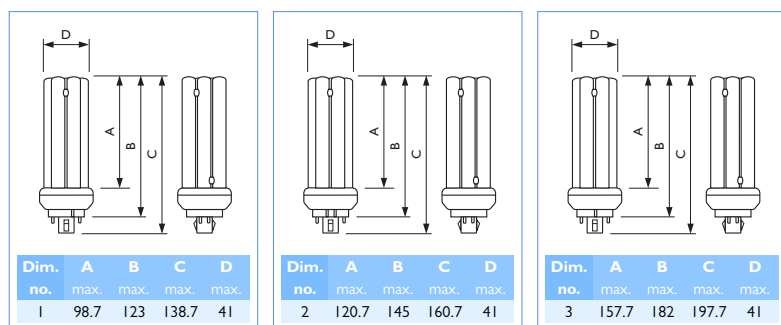
- Compliant with all RoHS and WEEE requirements: lamps contain very low level of mercury, are lead free and make no use of radioactive materials and hazardous flame retardants

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 | 89740470 | yes |
| 32W/840 | GX24q-3 | 82 | 2,400 | yes | 20,000 | 33,000 | A 1 | ICT / 5X10CC 50 | 32PLT8404PXTRA | 89743570 | yes |
| 42W/830 | GX24q-4 | 82 | 3,050 | yes | 20,000 | 33,000 | A 2 | ICT / 5X10CC 50 | 42PLT8304PXTRA | 89746670 | yes |
| 42W/840 | GX24q-4 | 82 | 3,050 | yes | 20,000 | 33,000 | A 2 | ICT / 5X10CC 50 | 42PLT8404PXTRA | 89749770 | yes |
| 57W/840 | GX24q-5 | 82 | 4,200 | yes | 20,000 | 33,000 | A 3 | ICT / 5X10CC 50 | 57PLT8404PXTRA | 89755870 | 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

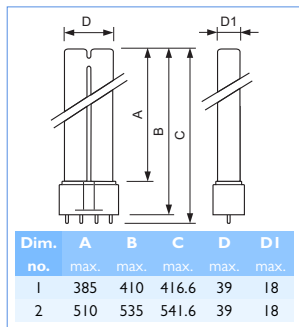
Warnings and Safety

- 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

MASTER PL-L /4P 2GI I

| Wattage/ Colour Code | Colour Rendering Index (R _a) | Luminous Flux EL 25°C, Rated (lm) | Dimma- ble | 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... | |
|-------------------------|--|--|---------------|---|---|----------|---|------------------------|----------------------------------|-----|
| 18W/830 | 82 | 1,200 | yes | 14,000 | 20,000 | A | 1 | 18PLL830 | 70668340 | yes |
| 18W/835 | 82 | 1,200 | yes | 14,000 | 20,000 | A | 1 | 18PLL835 | 64328540 | yes |
| 18W/840 | 82 | 1,200 | yes | 14,000 | 20,000 | A | 1 | 18PLL840 | 70669040 | yes |
| 24W/830 | 82 | 1,800 | yes | 14,000 | 20,000 | A | 2 | 24PLL830 | 70671340 | yes |
| 24W/840 | 82 | 1,800 | yes | 14,000 | 20,000 | A | 2 | 24PLL840 | 70672040 | yes |
| 36W/830 | 82 | 2,900 | yes | 14,000 | 20,000 | A | 3 | 36PLL830 | 70674440 | yes |
| 36W/840 | 82 | 2,900 | yes | 14,000 | 20,000 | A | 3 | 36PLL840 | 70675140 | yes |
| 36W/865 | 80 | 2,880 | yes | 14,000 | 20,000 | A | 3 | 36PLL865 | 63520440 | yes |
| 40W/830 | 82 | 3,500 | yes | 14,000 | 20,000 | A+ | 4 | 40PLL830 | 61094240 | yes |
| 40W/835 | 82 | 3,500 | yes | 14,000 | 20,000 | A+ | 4 | 40PLL835 | 63865640 | yes |
| 40W/840 | 82 | 3,500 | yes | 14,000 | 20,000 | A+ | 4 | 40PLL840 | 61097340 | yes |
| 55W/830 | 82 | 4,800 | yes | 14,000 | 20,000 | A | 4 | 55PLL830 | 61541140 | yes |
| 55W/835 | 82 | 4,800 | yes | 14,000 | 20,000 | A | 4 | 55PLL835 | 63665240 | yes |
| 55W/840 | 82 | 4,800 | yes | 14,000 | 20,000 | A | 4 | 55PLL840 | 61542840 | yes |
| 55W/865 | 80 | 4,800 | yes | 14,000 | 20,000 | A | 4 | 55PLL865 | 26170040 | yes |
| 80W/830 | 82 | 6,000 | yes | 14,000 | 20,000 | A | 5 | 80PLL830 | 86708740 | yes |
| 80W/840 | 82 | 6,000 | yes | 14,000 | 20,000 | A | 5 | 80PLL840 | 86712440 | 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

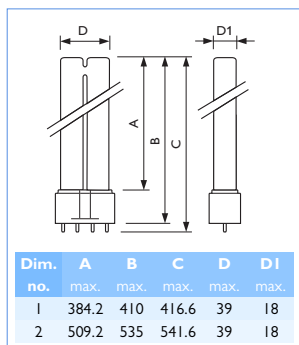
- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



MASTER PL-L Polar /4P 2G11

| Wattage/ Colour Code | Colour Rendering Index (R _a) | Luminous Flux EL 25°C, Rated (lm) | Dimma- ble | 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... | |
|-------------------------|---|--|---------------|---|---|---|-------------|---|----|------------------------|----------------------------------|-----|
| 36W/830 | 82 | 2,900 | yes | 14,000 | 20,000 | A | 1 | ICT / 25 | 25 | 36PLL830POLAR | 26158840 | yes |
| 36W/840 | 82 | 2,900 | yes | 14,000 | 20,000 | A | 1 | ICT / 25 | 25 | 36PLL840POLAR | 26160140 | yes |
| 55W/840 | 82 | 4,800 | yes | 14,000 | 20,000 | A | 2 | ICT / 25 | 25 | 55PLL840POLAR | 26164940 | 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

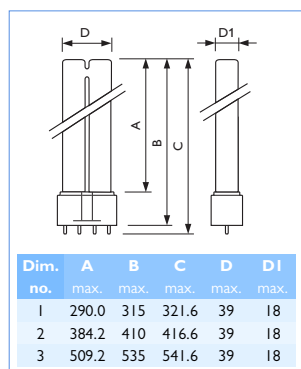
- Lamp light technical and electrical characteristics are influenced by operating conditions, i. e. lamp ambient temperature and operating position as well as applied control gear
- Shorter lamp life when often switching and not well pre-heated electrodes



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 | 89758940 | yes |
| 36W/840 | 82 | 2,900 | yes | 25,000 | 36,000 | A | 1 | ICT / 25 | 25 | 36PLL840XTRA | 89760240 | yes |
| 55W/830 | 82 | 4,800 | yes | 25,000 | 36,000 | A | 2 | ICT / 25 | 25 | 55PLL830XTRA | 89762640 | yes |
| 55W/840 | 82 | 4,800 | yes | 25,000 | 36,000 | A | 2 | ICT / 25 | 25 | 55PLL840XTRA | 89764040 | yes |

MASTER PL-L Xtra Polar 4 Pin



Optimized for lower temperatures and extra long life!

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

Product 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 _a) | (lm) | | (h) | (h) | | | | | | | |
| 24W/830 | 82 | 1,800 | yes | 25,000 | 36,000 | A | 1 | ICT / 25 | 25 | 24PLL830XTRAPOL | 26772640 | yes |
| 36W/830 | 82 | 2,900 | yes | 25,000 | 36,000 | A | 2 | ICT / 25 | 25 | 36PLL830XTRAPOL | 26776440 | yes |
| 55W/830 | 82 | 4,800 | yes | 25,000 | 36,000 | A | 3 | ICT / 25 | 25 | 55PLL830XTRAPOL | 26784940 | 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

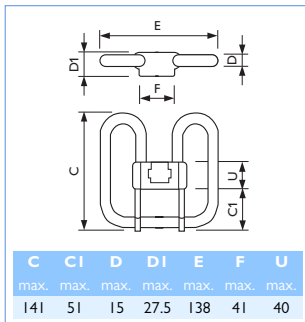
- Retrofit in already installed 2D luminaires
- Assembled with the same high-quality components as all other Philips CFL-NI lamps

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

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

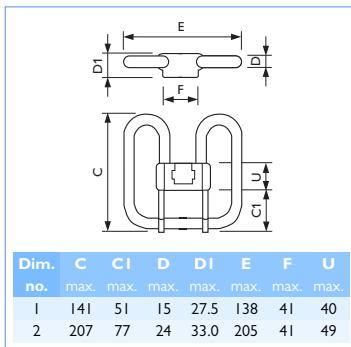
- Retrofit in already installed 2D luminaires
- Assembled with the same high-quality components as all other Philips CFL-NI lamps
- Dimming is possible

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

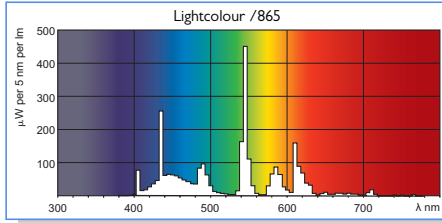
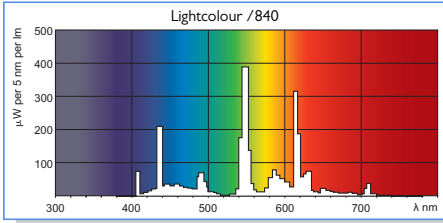
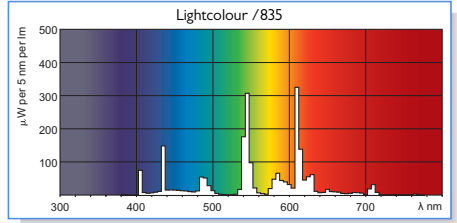
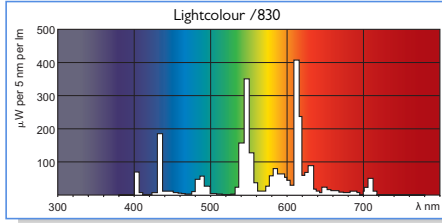
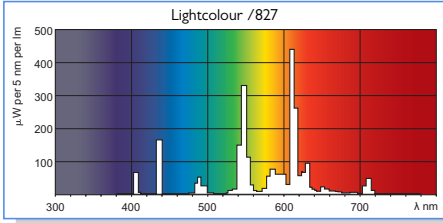


PL-Q /4P GR10q

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



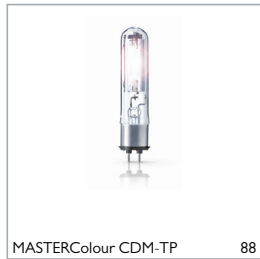
Spectral power distribution



Compact High Intensity Discharge



MASTERColour CDM ⇄



MASTER SDW White SON ⇄



MHN Low Wattage Metal Halide



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

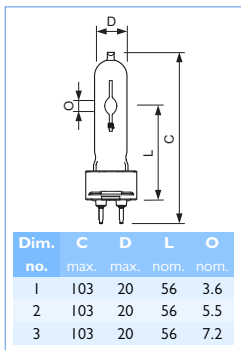
- RoHS-compliant
- Covered by WEEE

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 | 65912900 | yes |
| 35W/930 | 3,000 | 4,300 | any | A+ | 2 | ICT / 12 12 | 35CDMTEVO930 | 65121500 | yes |
| 50W/930 | 3,000 | 5,700 | vbu/vbd60 | A+ | 3 | ICT / 12 12 | 50CDMTEVO930 | 70122400 | 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 Temperature (K) | Lamp Luminous Flux EL (lm) | Life to 10% failures EL (h) | Life to 50% failures EL (h) | Burning Position | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | RoHS |
|----------------------|------------------------|----------------------------|-----------------------------|-----------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------|------|
| 35W/930 | 3,000 | 4,000 | 10,000 | 15,000 | any | A+ | 1 | ICT / 12 | 35CDMTELITE930 | 872790091137400 | yes |
| 35W/942 | 4,200 | 3,800 | 10,000 | 15,000 | any | A+ | 1 | ICT / 12 | 35CDMTELITE942 | 871829116364000 | yes |
| 50W/930 | 3,000 | 5,400 | 10,000 | 15,000 | any | A+ | 2 | ICT / 12 | 50CDMTELITE930 | 872790093060300 | yes |
| 50W/942 | 4,200 | 5,000 | 10,000 | 15,000 | any | A+ | 2 | ICT / 12 | 50CDMTELITE942 | 871829120159500 | yes |
| 70W/930 | 3,000 | 7,800 | 10,000 | 15,000 | any | A+ | 3 | ICT / 12 | 70CDMTELITE930 | 872790091141100 | yes |
| 70W/942 | 4,200 | 7,500 | 10,000 | 15,000 | any | A+ | 3 | ICT / 12 | 70CDMTELITE942 | 871829116362600 | yes |
| 100W/930 | 3,000 | 11,000 | 10,000 | 15,000 | any | A+ | 4 | ICT / 12 | 100CDMTELITE930 | 872790087169200 | yes |
| 100W/942 | 4,200 | 10,500 | 10,000 | 15,000 | any | A+ | 4 | ICT / 12 | 100CDMTELITE942 | 871829123178300 | yes |
| 150W/930 | 3,000 | 15,000 | 10,000 | 12,000 | p10 | A+ | 5 | ICT / 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 luminaires 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 |

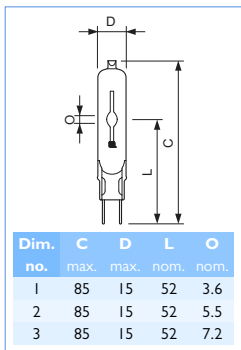
| Dim. no. | C max. | D max. | L nom. | O nom. |
|----------|--------|--------|--------|--------|
| 7 | 135 | 25 | 72.5 | 12.3 |

MASTERColour CDM-T G12

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

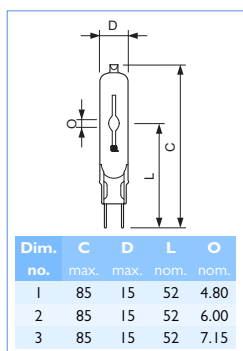
- Use only in a totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures
- Use only with electronic control gear
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- CDM Evolution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

MASTERColour CDM-TC Evolution G8.5

| Wattage/ Colour Code | Colour Temperature (K) | Lamp Luminous Flux EL (lm) | Burning Position | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 8718291... | |
|-------------------------|---------------------------|-------------------------------------|---------------------|----|----------|---|----|---------------------|----------------------------------|-----|
| 20W/930 | 3,000 | 2,050 | any | A+ | 1 | ICT / 12 | 12 | 20CDMTCEVO930 | 65920400 | yes |
| 35W/930 | 3,000 | 4,300 | any | A+ | 2 | ICT / 12 | 12 | 35CDMTCEVO930 | 65125300 | yes |
| 50W/930 | 3,000 | 5,700 | vbu/vbd60 | A+ | 3 | ICT / 12 | 12 | 50CDMTCEVO930 | 70126200 | 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 Temperature (K) | Lamp Luminous Flux EL (lm) | Life to 10% failures EL (h) | Life to 50% failures EL (h) | Burning Position | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | RoHS |
|----------------------|------------------------|----------------------------|-----------------------------|-----------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------|------|
| 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

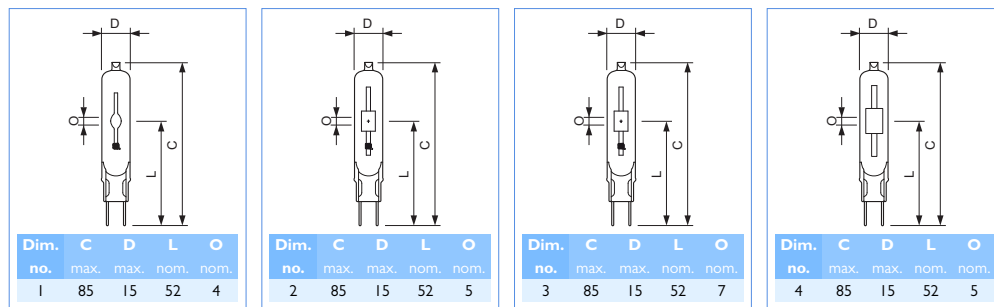
Application

- 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.





MASTERColour CDM-TC G8.5

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

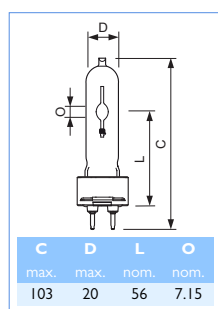
- Highest efficacy in fresh food lighting
- Long life with stable colour
- Standard CDM shapes and sizes
- Can be operated on standard CDM gear

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)



MASTERColour CDM-T Fresh G12

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

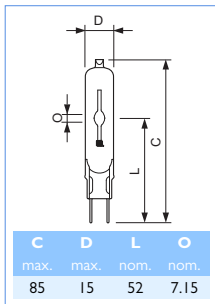
- Highest efficacy in fresh food lighting
- Long life with stable colour
- Standard CDM shapes and sizes
- Can be operated on standard CDM gear

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)

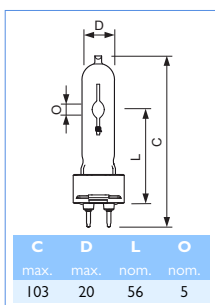
- Excellent colour rendering (CRI > 90)
- Long life (15,000 hours)

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 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) | | | | | | | yes |
| 70W/925 | 2,500 | 6,500 | 8,000 | 15,000 | any | A+ | ICT / 12 | 12 | CDMTW70W925G12 | 20305600 | yes |

MASTERColour CDM-TC Warm



Warm sparkle, unrivalled efficiency

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

Product 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)

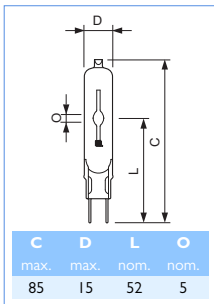
- Excellent colour rendering (CRI > 90)
- Long life (15,000 hours)

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 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) | | | | | | | yes |
| 70W/925 | 2,600 | 6,500 | 8,000 | 15,000 | any | A+ | ICT / 12 | 12 | CDMTCW70925G8.5 | 20307000 | yes |

MASTERColour CDM-Tm Evolution Mini



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

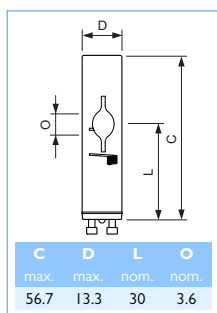
- RoHS-compliant
- Covered by WEEE

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



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

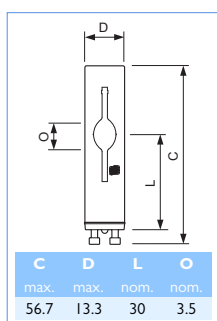
- This product is RoHS compliant
- This product is covered by WEEE

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 Temperature | 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 | 89083900 | yes |

MASTERColour CDM-Tm Elite Mini



Perfect sparkle, mini design

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

Product 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

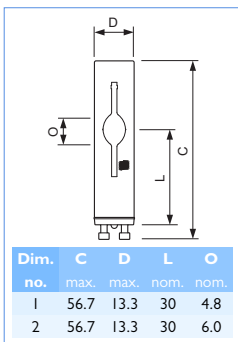
- This product is RoHS-compliant
- This product is covered by WEEE

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)

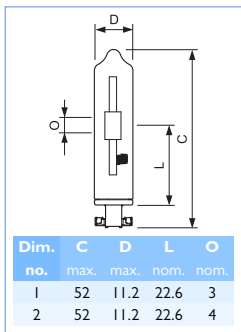


MASTERColour CDM-Tm Elite Mini GU6.5

| Wattage/ Colour Code | Colour Temperature | 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 | 15382500 | yes |
| 50W/930 | 3,000 | 5,200 | 10,000 | 15,000 | any | A+ | 2 | ICT / 12 | 12 | 50CDMTMELITE930 | 15386300 | yes |



MASTERColour CDM-Tm Mini



Product Description

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

Product 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 | 207517 / 5 | yes |
| 35W/930 | 3,000 | 3,000 | 10,000 | 12,000 | any | A+ | 2 | ICT / 12 | 12 | 35CDMTM930 | 211491 / 5 | yes |

MASTERColour CDM-TP



Product Description

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

Product 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

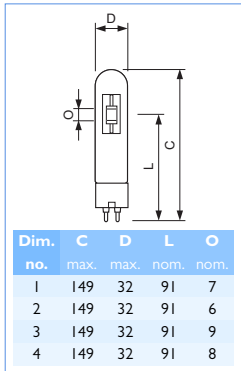
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

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)



MASTERColour CDM-TP

| Wattage/ Colour Code | Cap-Base | Colour Temperature (K) | Lamp Luminous Flux EM (lm) | Life to 5% failures (h) | Life to 50% failures (h) | Burning Position | | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 871 1500... | |
|----------------------|----------|------------------------|----------------------------|-------------------------|--------------------------|------------------|----|----------|-------------------------------------|----|---------------------|-----------------------------|-----|
| 70W/830 | PG12-2 | 3,000 | 6,000 | 9,000 | 16,000 | any | A+ | 1 | ICT / 12 | 12 | 70CDMTP830 | 201270 15 | yes |
| 70W/842 | PG12-2 | 4,200 | 5,600 | 9,000 | 16,000 | any | A+ | 2 | ICT / 12 | 12 | 70CDMTP942 | 201133 15 | yes |
| 150W/830 | PGX12-2 | 3,000 | 12,800 | 9,000 | 16,000 | any | A+ | 3 | ICT / 12 | 12 | 150CDMTP830 | 201256 15 | yes |
| 150W/942 | PGX12-2 | 4,200 | 12,000 | 9,000 | 16,000 | any | A+ | 4 | ICT / 12 | 12 | 150CDMTP942 | 201119 15 | yes |



MASTERColour CDM-TD



| | | | | |
|----------|--------|------|------|------|
| | | C | D | O |
| Dim. no. | | max. | max. | 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)
- 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 Temperature (K) | Lamp Luminous Flux EM (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... | RoHS |
|-------------------------|---------------------------|----------------------------------|-----------------------------|-----------------------------|------------------|--------------|----------|--|---------------------|-------------------------------|------|
| 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 Temperature | 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 | 16296400 | yes |
| 35W/930 | 25 | 3,000 | 8,500 | 10,000 | 15,000 | any | A | ICT / 12 | 12 | 35CDMRMELI93025 | 16300800 | yes |
| 35W/930 | 40 | 3,000 | 4,400 | 10,000 | 15,000 | any | A | ICT / 12 | 12 | 35CDMRMELI93040 | 16306000 | yes |
| 50W/930 | 25 | 3,000 | 11,500 | 7,500 | 12,000 | any | A | ICT / 12 | 12 | 50CDMRMELI93025 | 12090200 | yes |
| 50W/930 | 40 | 3,000 | 7,000 | 7,500 | 12,000 | any | A | ICT / 12 | 12 | 50CDMRMELI93040 | 12094000 | yes |
| 50W/930 | 60 | 3,000 | 3,000 | 7,500 | 12,000 | any | A | ICT / 12 | 12 | 50CDMRMELI93060 | 12086500 | yes |

MASTERColour CDM-R Elite



Perfect sparkle, simple use

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

Product 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

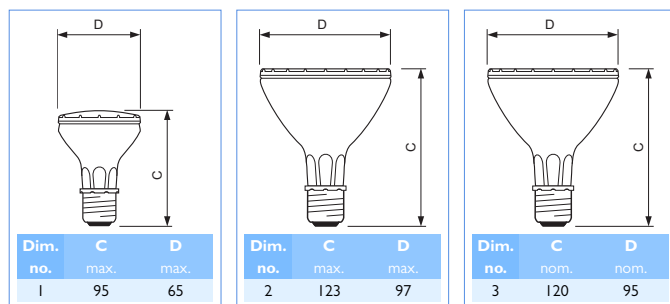
- Excellent environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

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)

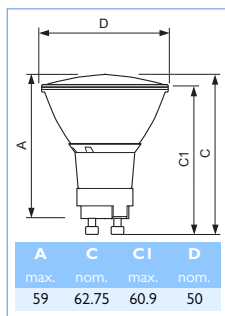


MASTERColour CDM-R Elite ES

| 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 | A | 1 | 12 | 35CDM930PAR2010 | 8718291 65155000 | yes |
| 35W/930 | 10 Spot | 3,000 | 56,000 | | | | 10,000 | A | 2 | 6 | 35CDM930PAR3010 | 8718291 24192800 | yes |
| 35W/930 | 30 Flood | 3,000 | 7,800 | 7,000 | | 12,000 | | A | 3 | 6 | 35CDMR930P3030 | 8727900 86544800 | yes |
| 35W/930 | 30 Flood | 3,000 | 8,200 | | | 10,000 | | A | 2 | 6 | 35CDM930PAR3030 | 8718291 24194200 | yes |
| 35W/930 | 30 Flood | 3,000 | 6,500 | | | 10,000 | | A | 1 | 12 | 35CDM930PAR2030 | 8718291 65157400 | yes |
| 50W/930 | 10 Spot | 3,000 | 60,700 | | | 10,000 | | A | 2 | 6 | 50CDM930PAR3010 | 8718291 24196600 | yes |
| 50W/930 | 30 Flood | 3,000 | 11,000 | | | 10,000 | | A | 2 | 6 | 50CDM930PAR3030 | 8718291 24198000 | yes |
| 50W/930 | 40 Flood | 3,000 | 7,200 | | | 10,000 | | A | 2 | 6 | 50CDM930PAR3040 | 8718291 24200000 | yes |
| 70W/930 | 10 Spot | 3,000 | 70,000 | 7,000 | | 11,000 | | A | 3 | 6 | 70CDMR930P3010 | 8727900 86530100 | yes |
| 70W/930 | 10 Spot | 3,000 | 74,500 | | | 10,000 | | A | 2 | 6 | 70CDM930PAR3010 | 8718291 24186700 | yes |
| 70W/930 | 30 Flood | 3,000 | 15,000 | | | 10,000 | | A | 2 | 6 | 70CDM930PAR3030 | 8718291 24188100 | yes |
| 70W/930 | 40 Flood | 3,000 | 10,000 | 7,000 | | 11,000 | | A | 3 | 6 | 70CDMR930P3040 | 8727900 86534900 | yes |
| 70W/930 | 40 Flood | 3,000 | 10,300 | | | 10,000 | | A | 2 | 6 | 70CDM930PAR3040 | 8718291 24190400 | 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

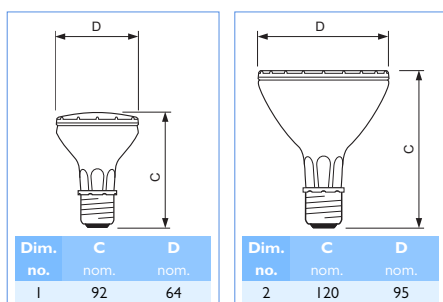
Warnings and Safety

- 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 Temperature | Luminous Intensity | Life to 10% failures | Life to 50% failures | Burning Position | Packing type/ Packing configuration | 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

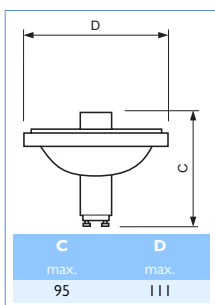
Warnings and Safety

- 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 | 19808215 | yes |
| 35W/942 | PAR20 | 10 | Spot | 4,200 | 21,500 | 5,000 | 9,000 | A | 1 | ICT / 12 | 12 | 35CDMR942P2010D | 20785215 | yes |
| 35W/830 | PAR20 | 30 | Flood | 3,000 | 5,300 | 5,000 | 9,000 | A | 1 | ICT / 12 | 12 | 35CDMR830FLP20 | 19810515 | yes |
| 35W/942 | PAR20 | 30 | Flood | 4,200 | 5,000 | 5,000 | 9,000 | A | 1 | ICT / 12 | 12 | 35CDMR942P2030D | 20787615 | yes |
| 35W/830 | PAR30L | 10 | Spot | 3,000 | 44,000 | 5,000 | 11,000 | A | 2 | ICT / 6 | 6 | 35CDMR830SP | 19701610 | yes |
| 70W/830 | PAR30L | 10 | Spot | 3,000 | 68,000 | 5,500 | 12,000 | A | 2 | ICT / 6 | 6 | 70CDMR830SP30 | 19705410 | yes |
| 70W/942 | PAR30L | 10 | Spot | 4,200 | 60,000 | 5,000 | 12,000 | A | 2 | ICT / 6 | 6 | 70CDMR942P3010 | 20725810 | yes |
| 35W/830 | PAR30L | 30 | Flood | 3,000 | 7,400 | 5,000 | 11,000 | A | 2 | ICT / 6 | 6 | 35CDMR830FL | 19703010 | yes |
| 70W/942 | PAR30L | 30 | Flood | 4,200 | 13,000 | 5,000 | 12,000 | A | 2 | ICT / 6 | 6 | 70CDMR942P3030 | 20729610 | yes |
| 70W/830 | PAR30L | 40 | Flood | 3,000 | 9,500 | 5,500 | 12,000 | A | 2 | ICT / 6 | 6 | 70CDMR830FLP30 | 19707810 | yes |
| 70W/942 | PAR30L | 40 | Flood | 4,200 | 9,000 | 5,000 | 12,000 | A | 2 | ICT / 6 | 6 | 70CDMR942P3040 | 20727210 | yes |

MASTERColour CDM-R111 Elite



Perfect sparkle, trendy design

MASTERColour CDM-R111 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

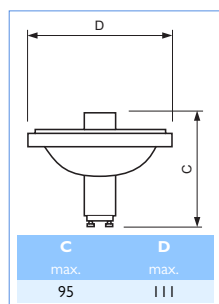
- Control gear must include end-of-life protection (IEC 61167, IEC 62035)
- Use only with electronic control gear. 35 W/930 lamps may also use electromagnetic gear.
- A lamp breaking is extremely unlikely to have any impact on your health. If a lamp breaks, ventilate the room for 30 minutes and remove 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.



MASTERColour CDM-R111 Elite GX8.5

| Wattage/ Colour Code | Beam Description | Colour Temper- ature | 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 | 68918800 |
| 35W/930 | 24 | Narrow Flood | 3,000 | 8,500 | 9,500 | 12,000 | any | A | ICT / 6 | 6 | 35CDMER11193024 | 68944700 |
| 35W/930 | 40 | Flood | 3,000 | 4,500 | 9,500 | 12,000 | any | A | ICT / 6 | 6 | 35CDMER11193040 | 68952200 |
| 50W/930 | 10 | Spot | 3,000 | 46,500 | 9,500 | 12,000 | any | B | ICT / 6 | 6 | 50CDMER11193010 | 14561500 |
| 50W/930 | 24 | Narrow Flood | 3,000 | 11,000 | 9,500 | 12,000 | any | A | ICT / 6 | 6 | 50CDMER11193024 | 14565300 |
| 50W/930 | 40 | Flood | 3,000 | 6,000 | 9,500 | 12,000 | any | A | ICT / 6 | 6 | 50CDMER11193040 | 14569100 |
| 70W/930 | 10 | Spot | 3,000 | 61,000 | 9,500 | 12,000 | any | B | ICT / 6 | 6 | 70CDMER11193010 | 68962100 |
| 70W/930 | 24 | Narrow Flood | 3,000 | 16,000 | 9,500 | 12,000 | any | A | ICT / 6 | 6 | 70CDMER11193024 | 68970600 |
| 70W/930 | 40 | Flood | 3,000 | 8,500 | 9,500 | 12,000 | any | A | ICT / 6 | 6 | 70CDMER11193040 | 68978200 |

MASTERColour CDM-R111



Product Description

- The MASTER Colour CDM-R111 combines the trendy look of the 111 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.

MASTERColour CDM-R111 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 | 209474 /10 | yes |
| 20W/830 | 24 Narrow Flood | 3,000 | 5,500 | 7,000 | 9,000 | any | B ICT / 6 6 | 20CDMR11183024 | 209511 /10 | yes |
| 35W/830 | 10 Spot | 3,000 | 28,000 | 7,000 | 12,000 | any | B ICT / 6 6 | 35CDMR11183010 | 204486 /10 | yes |
| 35W/830 | 24 Narrow Flood | 3,000 | 8,000 | 7,000 | 12,000 | any | B ICT / 6 6 | 35CDMR11183024 | 204509 /10 | yes |
| 35W/830 | 40 Flood | 3,000 | 4,000 | 7,000 | 12,000 | any | B ICT / 6 6 | 35CDMR11183040 | 204523 /10 | yes |
| 35W/942 | 10 Spot | 4,200 | 28,000 | 6,500 | 9,000 | any | B ICT / 6 6 | 35CDMR11194210 | 213853 /10 | yes |
| 35W/942 | 24 Narrow Flood | 4,200 | 8,000 | 6,500 | 9,000 | any | B ICT / 6 6 | 35CDMR11194224 | 213877 /10 | yes |
| 35W/942 | 40 Flood | 4,200 | 4,000 | 6,500 | 9,000 | any | B ICT / 6 6 | 35CDMR11194240 | 213891 /10 | yes |
| 70W/830 | 10 Spot | 3,000 | 50,000 | 5,000 | 12,000 | any | B ICT / 6 6 | 70CDMR11183010 | 207197 /10 | yes |
| 70W/830 | 24 Narrow Flood | 3,000 | 15,000 | 5,000 | 12,000 | any | B ICT / 6 6 | 70CDMR11183024 | 207210 /10 | yes |
| 70W/830 | 40 Flood | 3,000 | 8,000 | 5,000 | 12,000 | any | B ICT / 6 6 | 70CDMR11183040 | 207234 /10 | yes |
| 70W/942 | 24 Narrow Flood | 4,200 | 15,000 | 8,500 | 11,000 | any | B ICT / 6 6 | 70CDMR11194224 | 213938 /10 | yes |
| 70W/942 | 40 Flood | 4,200 | 8,000 | 8,500 | 11,000 | any | B ICT / 6 6 | 70CDMR11194240 | 213952 /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

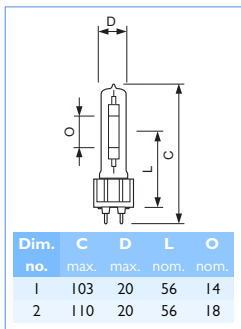
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

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 8711500... |  | |
|-------------------------|----------------------------|-----------------------------|------------------------|-------------------------|---------------------|---|----------|---|---|------------------------|----------------------------------|---|-----|
| | (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

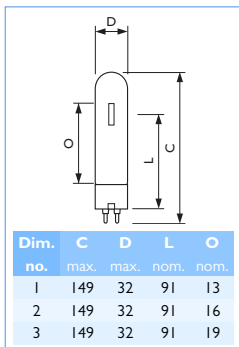
- Good environmental choice because of high energy efficiency and long reliable life
- This product is RoHS compliant
- This product is covered by WEEE

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



MASTER SDW-T PG12-I

| Wattage/ Colour Code | Colour Temperature (K) | Lamp Lumi- nous Flux EM (lm) | Life to 5% failures (h) | Life to 50% failures (h) | Burning Position | | Dim. no. | Packing type/ Packing configu- ration | | National Order Code | Ordering number 8711500... | |
|-------------------------|------------------------------|--|-------------------------------|--------------------------------|---------------------|---|----------|---|----|------------------------|----------------------------------|-----|
| 35W/825 | 2,500 | 1,300 | 8,000 | 15,000 | any | B | 1 | ISL / 12 | 12 | 35SDWT | 734020 /5 | yes |
| 50W/825 | 2,500 | 2,300 | 8,000 | 15,000 | any | B | 2 | ISL / 12 | 12 | <i>not UK product</i> | 734037 76 | |
| 50W/825 | 2,500 | 2,300 | 8,000 | 15,000 | any | B | 2 | ISL / 12 | 12 | 50SDWT | 734037 /5 | yes |
| 100W/825 | 2,500 | 5,000 | 5,000 | 15,000 | any | B | 3 | ISL / 12 | 12 | <i>not UK product</i> | 734044 76 | |
| 100W/825 | 2,500 | 5,000 | 5,000 | 15,000 | any | B | 3 | ISL / 12 | 12 | 100SDWT | 734044 /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

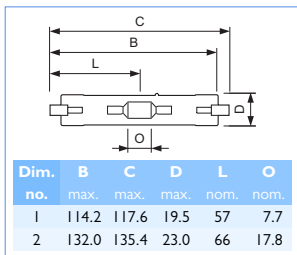
- Quartz discharge tube containing high-pressure mercury and a mixture of dysprosium, holmium and thulium halides (MHN-TD) or tin iodide (MHW-TD), with sodium and thallium added for colour correction and arc stabilisation
- Double-ended lamps housed in a tubular clear UV-Block quartz evacuated outer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

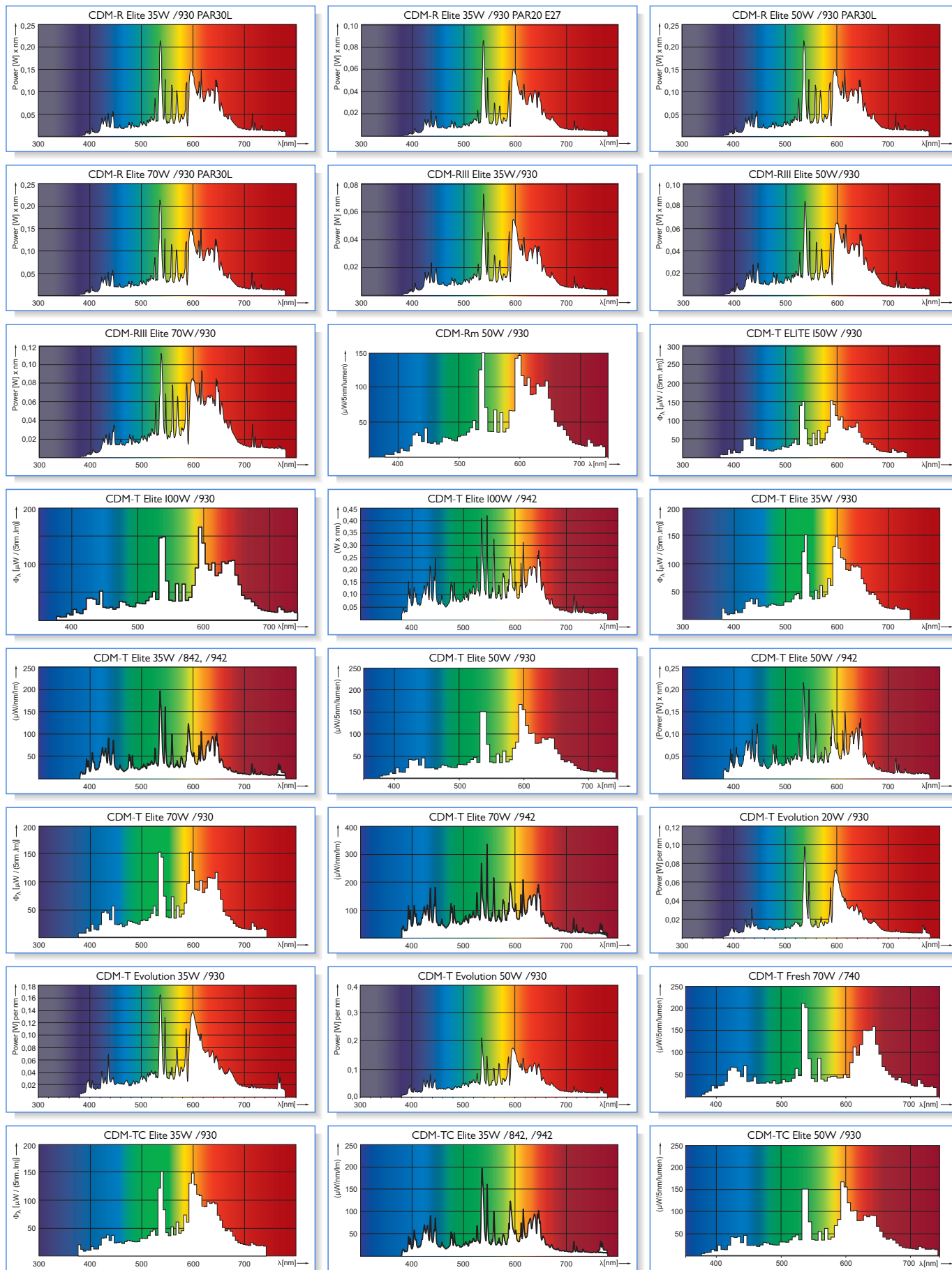


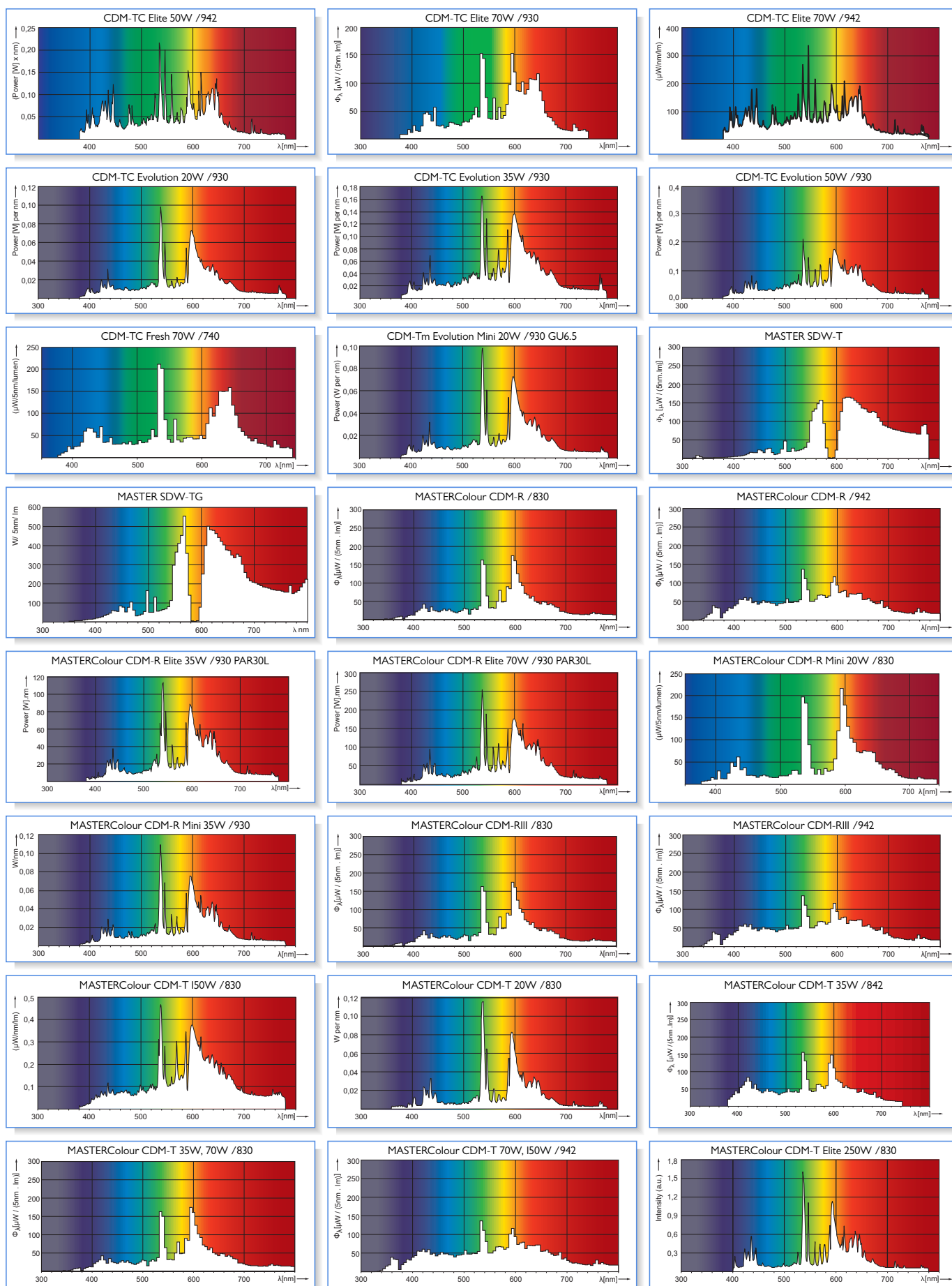
MHN-TD RX7s

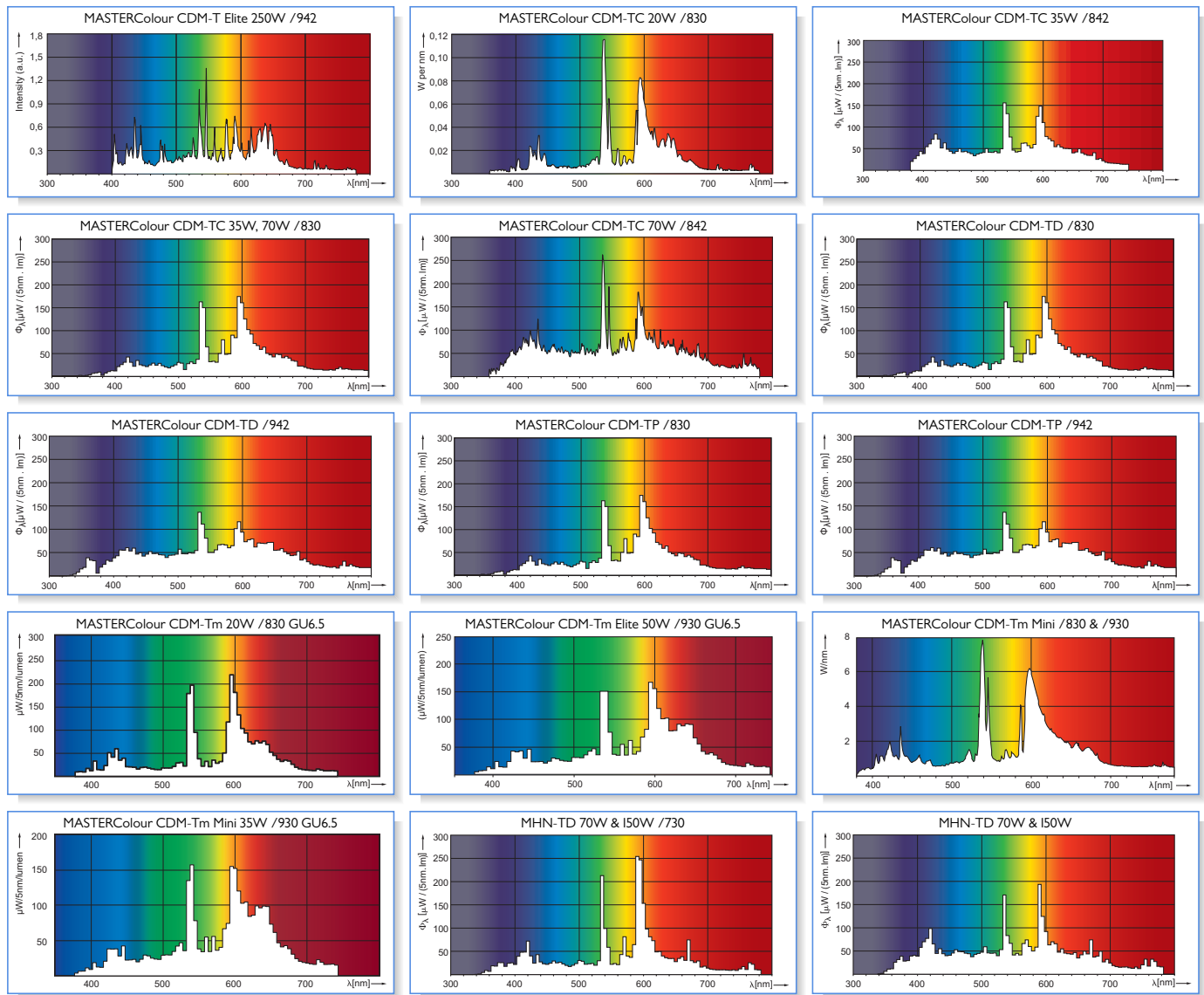
| Wattage/ Colour Code | Colour Temperature (K) | Lamp Luminous Flux EM (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number | |
|----------------------|------------------------|----------------------------|--------------------------|--------------------------|------------------|-------------------------|----------|-------------------------------------|----|---------------------|-----------------|-----|
| 70W/730 | 3,000 | 6,000 | 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 |



Spectral power distribution







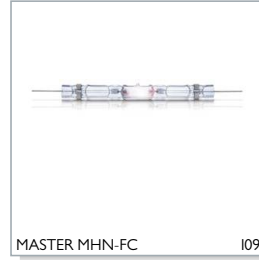
High Intensity Discharge Lamps



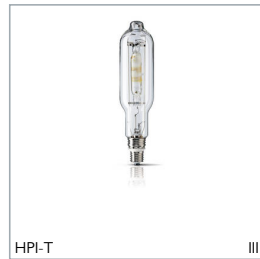
Outdoor Ceramic White Light ↗



Quartz Metal Halide ↗



SON High Pressure Sodium ↗



HID Horticulture

SOX Low Pressure Sodium ↗



MASTER CosmoWhite CPO-TW & 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

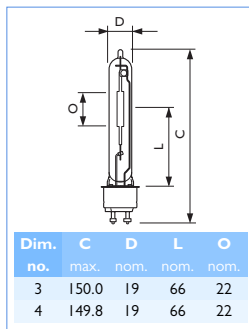
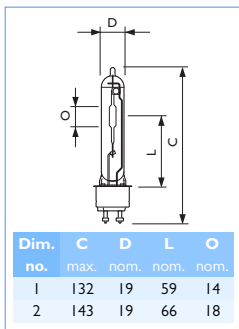
- Philips Green Flagship product with high efficacy minimizes environmental impact and CO₂ emission:
 - Good environmental choice due to highest energy efficiency in combination with compact white light
 - Compact size for low material and packaging use
 - RoHS compliant (lead-free), very low mercury content (max. 2.5 mg), covered by WEEE

Application

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

Warnings and Safety

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



PGZ12 Clear

| Type | Wattage/ Colour Code | Lum. Flux EL25°C, Rat. horiz. (lm) | Life to 10% failures, horiz. (h) | Burning Position | Energy Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | RoHS |
|-------------------------------|----------------------|------------------------------------|----------------------------------|------------------|--------------|----------|-------------------------------------|---------------------|------------------|------|
| MASTER CosmoWhite CPO-TW Xtra | 45W/628 | 4,950 | 24,000 | any | A+ | 1 | ICT / 12 | 45CPOTW728 | 8718291 15001500 | yes |
| MASTER CosmoWhite CPO-TW Xtra | 60W/728 | 7,200 | 24,000 | any | A+ | 1 | ICT / 12 | 60CPOTW728 | 871150020851415 | yes |
| MASTER CosmoWhite CPO-TW Xtra | 90W/728 | 10,800 | 20,000 | any | A+ | 2 | ICT / 12 | 90CPOTW728 | 871150021121715 | yes |
| MASTER CosmoWhite CPO-TW | 90W/840 | 10,560 | 12,000 | any | A+ | 2 | ICT / 12 | 90CPOTW840 | 8718291 13789400 | yes |
| MASTER CosmoWhite CPO-TW | 140W/728 | 16,500 | 16,000 | any | A+ | 3 | ICT / 12 | 140CPOTW728 | 871150020853815 | yes |
| MASTER CosmoWhite CPO-TW | 140W/840 | 16,100 | 12,000 | any | A+ | 4 | ICT / 12 | 140CPOTW840 | 8718291 13791700 | yes |



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 CO₂ emissions:

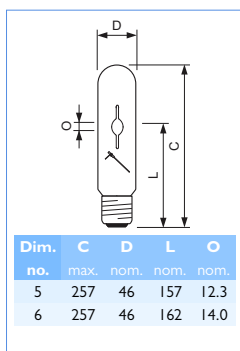
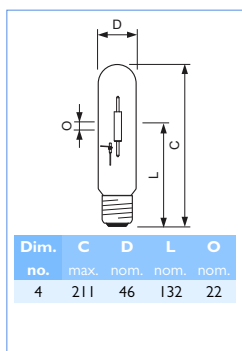
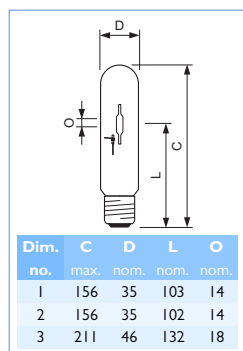
- Good environmental choice due to high energy efficiency in combination with easy-to-install white light
- RoHS-compliant (lead-free), very low mercury content (max. 2.5 mg), covered by WEEE

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)



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 | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... |
|---------------------|----------|------------------------------------|----------------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|----------------------------|
| 45W/628 | ES | 4,650 | 24,000 | p20 | A+ | 1 | ISL / 12 | 45CPOTT628 | 69171600 |
| 60W/628 | ES | 7,090 | 24,000 | p20 | A+ | 2 | ISL / 12 | 60CPOTT628 | 69034400 |
| 90W/628 | GES | 10,140 | 20,000 | p20 | A+ | 3 | ISL / 12 | 90CPOTT628 | 68115100 |
| 140W/628 | GES | 16,000 | 16,000 | p20 | A+ | 4 | ISL / 12 | 140CPOTT628 | 69032000 |
| 210W/942 | GES | 22,000 | 15,800 | any | A+ | 5 | ISL / 12 | 210CPOTT942 | 69105100 |
| 315W/942 | GES | 34,750 | 15,900 | any | A+ | 6 | ISL / 12 | 315CPOTT942 | 69107500 |



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/CO₂ 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

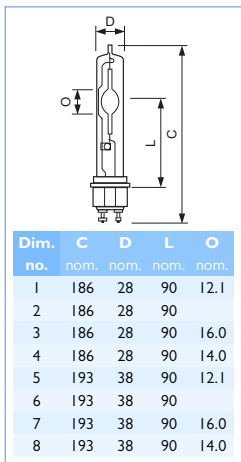
- This product is a Philips Green Flagship
- This product is RoHS compliant
- This product is covered by WEEE

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)



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 Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | RoHS |
|-----------------------------|----------|-----------------------|-------------------------|-------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------|------|
| | | (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 | |



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

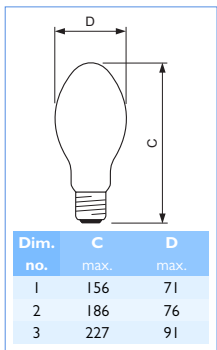
| Dim. no. | C max. | D max. | L nom. | O nom. |
|----------|--------|--------|--------|--------|
| 3 | 211 | 47 | 132 | 8.5 |
| 4 | 211 | 47 | 132 | 10.0 |
| 5 | 257 | 47 | 157 | 12.1 |

MASTER CityWhite CDO-TT Plus Clear

| Wattage/ Colour Code | Cap-Base | Luminous Flux EM 25°C, Rated (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8718291... | Recycling |
|----------------------|----------|-----------------------------------|--------------------------|--------------------------|------------------|--------------|----------|-------------------------------------|---------------------|----------------------------|-----------|
| 50W/828 | ES | 5,500 | 12,000 | 20,000 | any | A+ | 1 | ISL / 12 | 50CDOTTPLUS828 | 18561100 | yes |
| 70W/828 | ES | 7,500 | 12,000 | 27,000 | any | A+ | 2 | ISL / 12 | 70CDOTTPLUS828 | 12030800 | yes |
| 100W/828 | GES | 10,700 | 18,000 | 27,000 | any | A+ | 3 | ISL / 12 | 100CDOTTPLUS828 | 12032200 | yes |
| 150W/828 | GES | 16,500 | 18,000 | 27,000 | any | A+ | 4 | ISL / 12 | 150CDOTTPLUS828 | 12034600 | yes |
| 250W/830 | GES | 28,300 | 16,000 | 23,000 | any | A+ | 5 | ISL / 12 | 250CDOTTPLUS830 | 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 |



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 nom. | C max. | D max. | O nom. | X 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 max. | D max. | O nom. |
|----------|--------|--------|--------|
| 4 | 364 | 41 | 25 |

MASTER MHN-SA Clear

| Wattage/ Colour Code | Cap-Base | Voltage (V) | Lamp Luminous Flux EM (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | RoHS |
|----------------------|----------|-------------|----------------------------|--------------------------|--------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------|------|
| 1800W/956 | X830R | 230 | 155,000 | 2,300 | 5,000 | p15 | A+ | 1 | NO / I | 1800MHNSA956R | 871150020106500 | yes |
| 1800W/956 | (P)SFC | 230 | 155,000 | 2,000 | 6,100 | p15 | A+ | 4 | NO / I | 1800MHNSA956 | 871150020075400 | yes |
| 1800W/956 | (P)SFC | 400 | 160,000 | 2,400 | 6,100 | p15 | A+ | 4 | NO / I | 4151800MHNSA956 | 871150020076100 | yes |
| 2000W/956 | X830R | 400 | 226,000 | 2,300 | 5,000 | p15 | A+ | 2 | UNP / I | 2000MHNSA956HO | 871829124183600 | yes |
| 2000W/956 | X830R | 400 | 200,000 | 1,400 | 3,700 | p15 | A+ | 3 | NO / 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 nom. | D max. | O nom. | X nom. |
|----------|--------|--------|--------|--------|
| 1 | 294 | 40 | 40.5 | 35 |
| 2 | 364 | 40 | 108.0 | 58 |



MASTER MHN-LA Clear

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

MASTER MHN-SE



Product Description

- Very compact quartz metal halide lamps with single-pin 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-pin 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

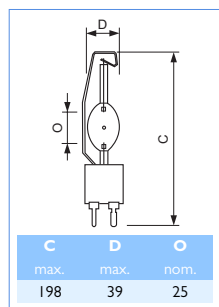
- This product is RoHS compliant
- This product is covered by WEEE

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 (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Label | Packing type/ Packing configu- ration | National Order Code | Ordering number 8727900... | RoHS |
|-------------------------|----------|-------------------------------------|--------------------------------|--------------------------------|---------------------|-----------------|---|------------------------|----------------------------------|------|
| 2000W/956 | GX22 | 220,000 | 1,650 | 3,000 | any | A+ | NO / I | 2000MHNSE956HO | 92877800 | 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

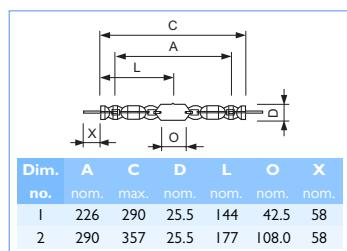
- This product is RoHS compliant
- This product is covered by WEEE

Application

- Recreational sports and area floodlighting

Warnings and Safety

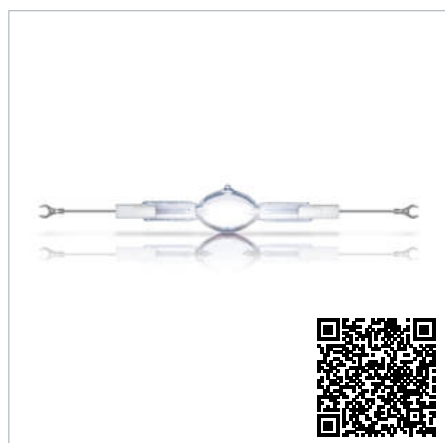
- Use only in totally enclosed luminaire, even during testing (IEC 61167, IEC 62035, IEC 60598)
- The luminaire must be able to contain hot lamp parts if the lamp ruptures



MASTER MHN-FC Double Ended Clear

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

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

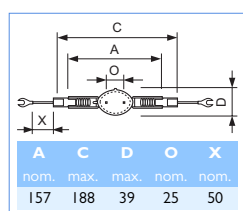
- Single pinch concept with long lifetime
- Natural white colour appearance, good colour rendering and stability
- Daylight colour temperature eases transition from daylight to artificial lighting

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... |  |
|---------------------|----------------------------|--------------------------|--------------------------|------------------|--|---------------------|----------------------------|---|
|---------------------|----------------------------|--------------------------|--------------------------|------------------|--|---------------------|----------------------------|---|

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 | 92860000 | 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

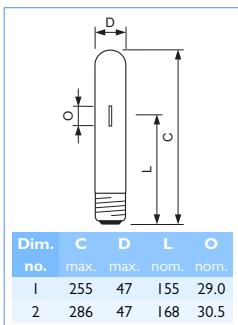
- Good environmental choice because of long service life
- This product is RoHS compliant
- This product is covered by WEEE

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

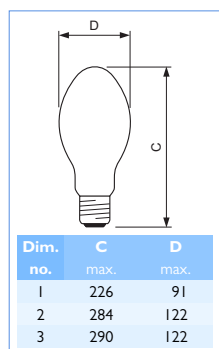


MASTER HPI-T Plus GES Clear

| Wattage/Colour Code | Lamp Luminous Flux EM (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position |  Dim. no. | Packing type/ Packing configuration  | National Order Code | Ordering number 8711500... |  |
|---------------------|----------------------------|--------------------------|--------------------------|------------------|--|---|---------------------|----------------------------|---|
| 250W/645 | 20,500 | 7,500 | 20,000 | p20 | A+ 1 | ISL / 12 12 | 250HPITPLUS | 17989015 | yes |
| 400W/645 | 32,000 | 7,500 | 20,000 | p20 | A+ 2 | ISL / 12 12 | 400HPITPLUS | 17990615 | 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 ¹ | 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... | |
|-------------------------|------------------------------------|--|-----------------------------------|-----------------------------------|---------------------|----|-------------|---|----|------------------------|----------------------------------|-----|
| 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 | 400HPIPLUSBUSB | 21145310 | yes |

¹ '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

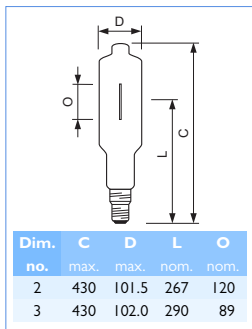
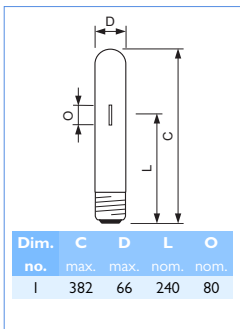
Application

- 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





HPI-T GES Clear

| Wattage/ Colour Code | Voltage (V) | Lamp Luminous Flux EM (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position |  Dim. no. | Packing type/ Packing configu- ration |  National Order Code | Ordering number 8711500... |  |
|-------------------------|----------------|-------------------------------------|--------------------------------|--------------------------------|---------------------|--|--|--|----------------------------------|---|
| 1000W/543 | 220 | 85,000 | 5,500 | 12,000 | p | A+ 1 | ISL / 4 4 | 1000HPIT | 18373645 | yes |
| 2000W/542 | 380 | 210,000 | 5,500 | 12,000 | p20 | A+ 2 | CRP / 4 4 | 4152000HPITN | 20235245 | yes |
| 2000W/646 | 220 | 189,000 | 5,500 | 12,000 | p75 | A+ 3 | ISL / 4 4 | 2000HPIT | 18376745 | 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

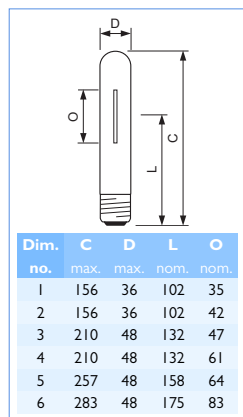
- Good environmental choice because of high energy efficiency and longest reliable life
- Products are RoHS compliant
- Products are covered by WEEE

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)



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

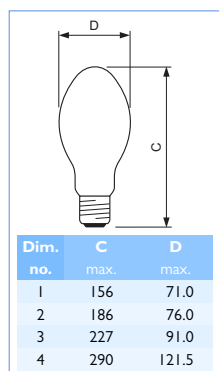
- Good environmental choice because of high energy efficiency and longest reliable life
- Products are RoHS compliant
- Products are covered by WEEE

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)

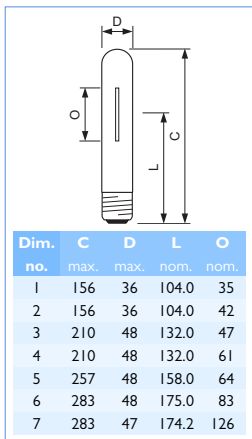


MASTER SON APIA Plus Xtra External Ignitor Coated

| 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 | 92813600 | yes |
| 70 | ES | 6,210 | 28,000 | 40,000 | any | A+ | 1 | ISL / 24 | 24 | 70SONPLUSXTRA | 92817400 | yes |
| 100 | GES | 10,000 | 28,000 | 40,000 | any | A+ | 2 | ISL / 12 | 12 | 100SONPLUSXTRA | 92743600 | yes |
| 150 | GES | 17,500 | 32,000 | 45,000 | any | A+ | 3 | ISL / 12 | 12 | 150SONPLUSXTRA | 92745000 | yes |
| 250 | GES | 31,300 | 32,000 | 45,000 | any | A+ | 3 | ISL / 12 | 12 | 250SONPLUSXTRA | 92773300 | yes |
| 400 | GES | 55,400 | 32,000 | 45,000 | any | A++ | 4 | ISL / 12 | 12 | 400SONPLUSXTRA | 92767200 | yes |



MASTER SON-T PIA Plus



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

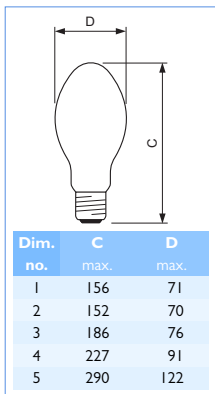
- Control gear must include end-of-life protection (IEC 60662, IEC 62035)

MASTER SON-T PIA Plus External Ignitor 230V Clear

| Wattage/ Colour Code | Cap- Base | Luminous Flux EM 25°C, Rated (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 871 1500... | |
|-------------------------|--------------|--|--------------------------------|--------------------------------|---------------------|-----|-------------|---|----|------------------------|-----------------------------------|-----|
| 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 76 | |
| 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 76 | |
| 600W/220 | GES | 90,000 | 15,000 | 30,000 | any | A++ | 7 | ISL / 12 | 12 | 600SONTPLUS | 197429 / 5 | yes |



MASTER SON PIA Plus



Product Description

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

Product 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 (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | |
|----------------------|--------------------|----------|-----------------------------------|--------------------------|--------------------------|------------------|----------|-------------------------------------|---------------------|-----------------|-----|
| 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

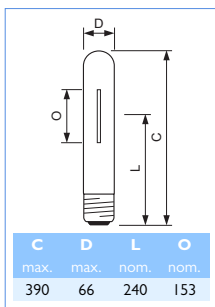
- This product is RoHS compliant
- This product is covered by WEEE

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 871 1500... | |
|-------------------------|-----------------------------|------------------------------------|-------------------------|-------------------------|---------------------|-----|---|---|------------------------|-----------------------------------|-----|
| | (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

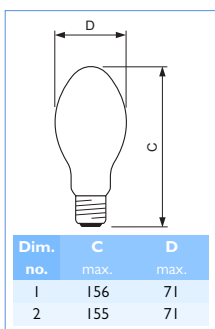
- This product is RoHS compliant
- This product is covered by WEEE

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)



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 871 1500... | |
|-------------------------|-----------------------|----------------------------------|------------------------------------|-------------------------|-------------------------|---------------------|----|-------------|---|----|------------------------|-----------------------------------|-----|
| | | (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

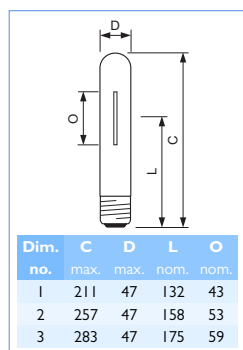
- This product is RoHS compliant
- This product is covered by WEEE

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 | Energy Label | Dim. no. | Packing type/ Packing configu- ration | National Order Code | Ordering number 8711500... | Recycling Symbol |
|-------------------------|--|--------------------------------|--------------------------------|---------------------|-----------------|----------|---|------------------------|----------------------------------|---------------------|
| 150W/621 | 13,000 | 12,000 | 24,000 | any | A+ | 1 | ISL / 12 12 | 150SONTCOM | 192288 /5 | yes |
| 250W/621 | 23,000 | 12,000 | 24,000 | any | A+ | 2 | ISL / 12 12 | 250SONTCOM | 179852 /5 | yes |
| 400W/621 | 38,000 | 12,000 | 24,000 | any | A+ | 3 | ISL / 12 12 | 400SONTCOM | 179869 /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

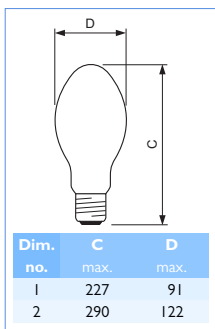
Application

- 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 (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... | RoHS |
|----------------------|-----------------------------------|--------------------------|--------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|----------------------------|------|
| 150W/621 | 12,500 | 12,000 | 24,000 | any | A+ | 1 | ISL / 12 12 | 150SONCOM | 18216615 | yes |
| 250W/621 | 22,000 | 12,000 | 24,000 | any | A+ | 1 | ISL / 12 12 | 250SONCOM | 18219715 | yes |
| 400W/621 | 37,000 | 12,000 | 24,000 | any | A+ | 2 | ISL / 12 12 | 400SONCOM | 18222715 | 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

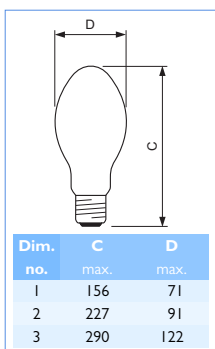
- This product is RoHS compliant
- This product is covered by WEEE

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



SON H 220V Coated

| Wattage/ Colour Code | Cap-Base | Luminous Flux EM 25°C, Rated (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Efficiency Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number | RoHS |
|----------------------|----------|-----------------------------------|--------------------------|--------------------------|------------------|-------------------------|----------|-------------------------------------|---------------------|-------------------------|------|
| 110 | ES | 9,600 | | 28,000 | any | A+ | 1 | ICT / 24 24 | 110SONH | 87182911 1857200 | yes |
| 220W/220 | GES | 19,000 | 12,000 | 26,000 | any | A+ | 2 | ISL / 12 12 | 220SONH | 8711500 18207415 | yes |
| 350W/220 | GES | 34,000 | 12,000 | 26,000 | any | A+ | 3 | ISL / 12 12 | 350SONH | 8711500 18213515 | 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

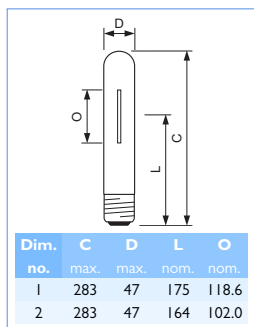
- "GreenPower" concept with optimized micromol output (growth light)
- "Plus" concept with high efficacy translated into high light output
- "Agro" concept with optimized light spectrum

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 | Voltage (V) | Luminous Flux EM 25°C, Rated (lm) | Life to 10% failures (h) | Life to 50% failures (h) | Burning Position | Energy Efficiency Class | Dim. no. | Box | National Order Code | Ordering number 8711500... | RoHS |
|------------------------|----------------------|--------------------|-------------|-----------------------------------|--------------------------|--------------------------|------------------|-------------------------|----------|-----|---------------------|----------------------------|------|
| MASTER GreenPower CG T | 400W/220 | External Ignitor | 230 | 58,500 | 21,000 | 30,000 | any | A+ | 1 | 12 | 400SONTGP | 201966 /5 | yes |
| MASTER GreenPower | 600W/220 | System 400V | 400 | 87,550 | 14,000 | 20,000 | any | A++ | 2 | 12 | 415600SONTGP | 203076 /5 | yes |



MASTER SOX PSG



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

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

MASTER SOX PSG BY22d Clear

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



MASTER SOX-E



| Dim. no. | C max. | D max. |
|----------|--------|--------|
| 1 | 216 | 52 |
| 2 | 311 | 52 |
| 3 | 425 | 52 |
| 4 | 528 | 66 |
| 5 | 775 | 66 |
| 6 | 1120 | 66 |

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

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

SOX



Product Description

- Low Pressure Sodium lamp

Product Benefits

- High luminous efficacy leads to low energy consumption

Product Features

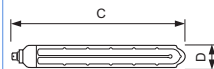
- Uniform sodium distribution in the discharge tube by means of dimples for a more stable discharge, higher efficacy and better lumen maintenance and lamp life
- Monochromatic yellow colour with non-existent colour rendering

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



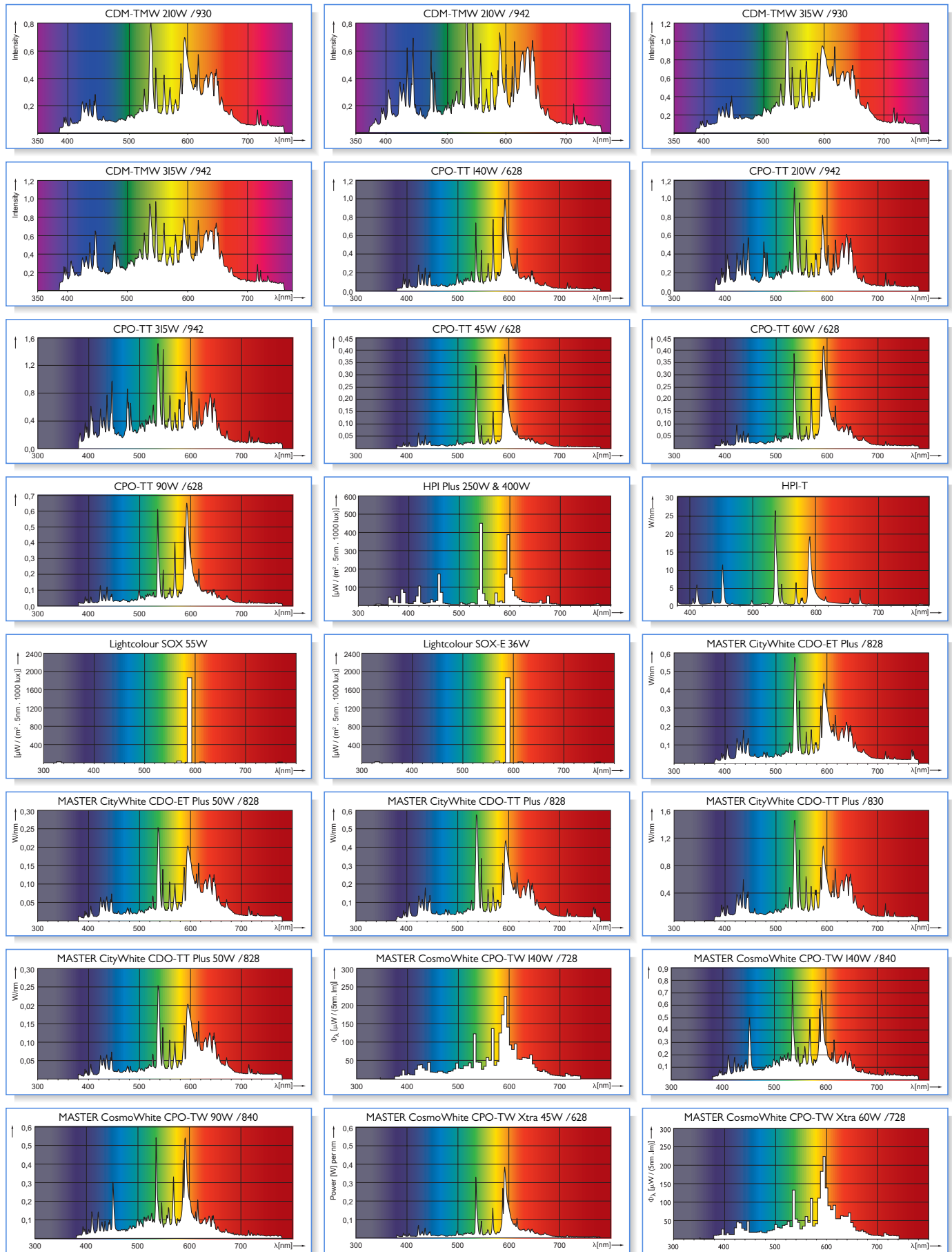
| Dim. no. | C max. | D max. |
|----------|--------|--------|
| 1 | 311 | 52 |
| 2 | 425 | 52 |
| 3 | 528 | 66 |
| 4 | 775 | 66 |
| 5 | 1120 | 66 |

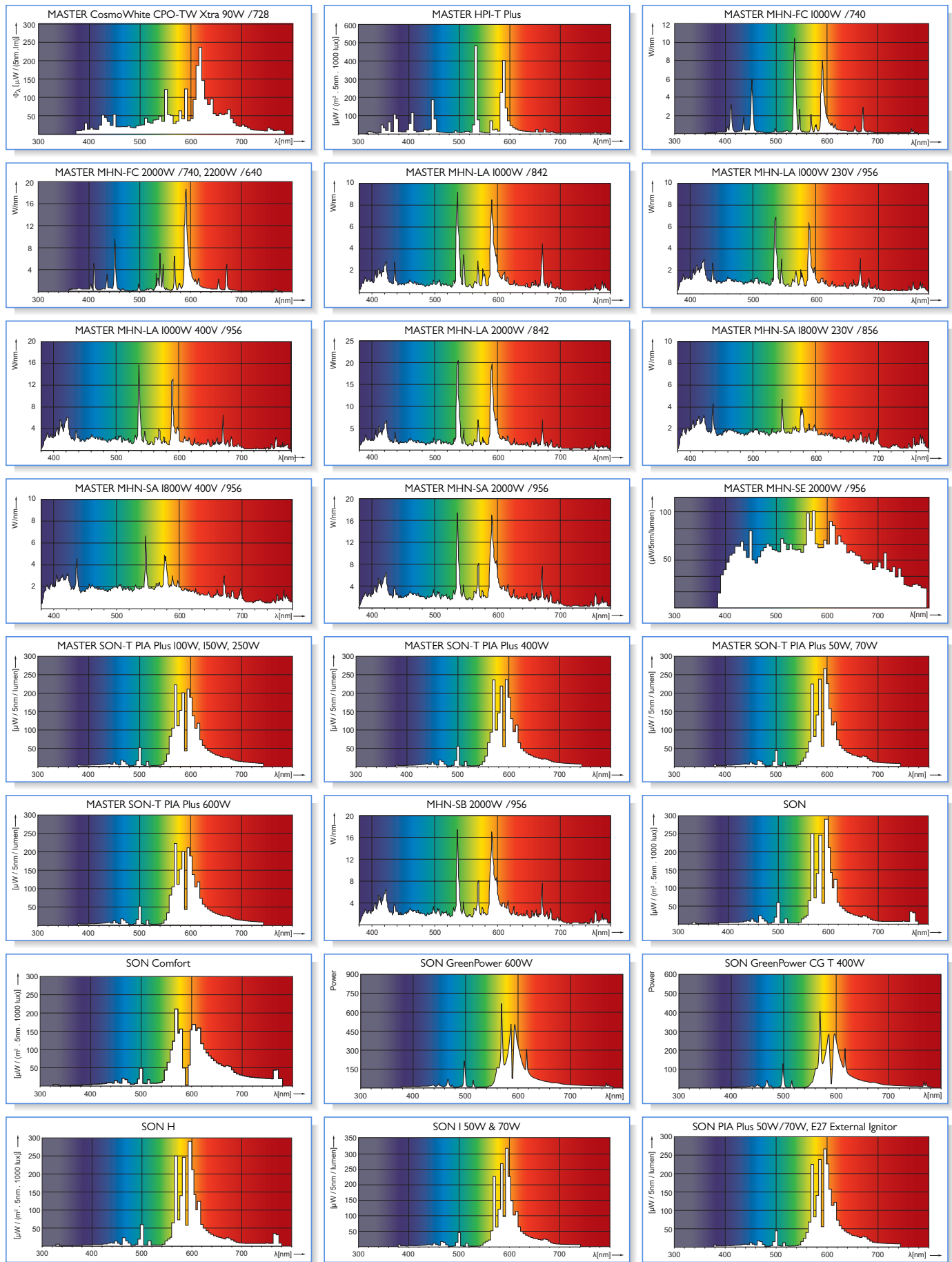
SOX BY22d

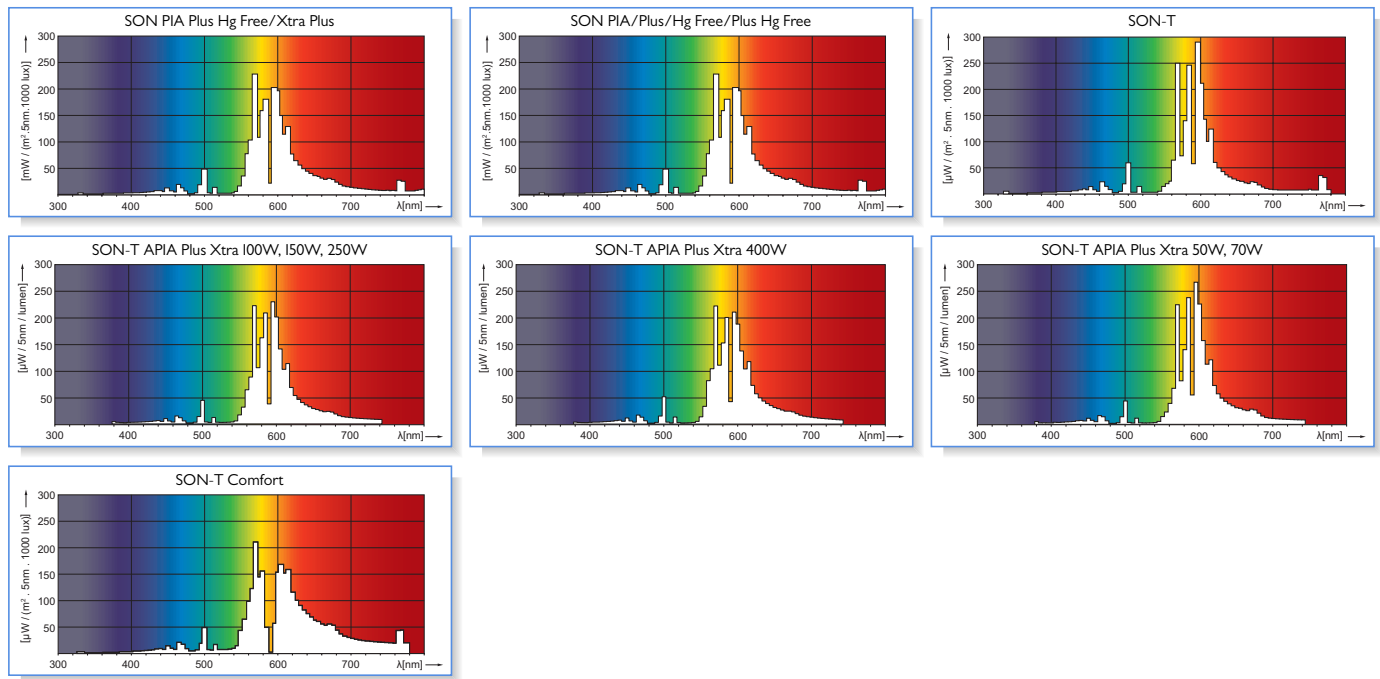
| Wattage (W) | Lamp Luminous Flux EM (lm) | Life to 50% failures (h) | Burning Position |  | Dim. no. | Packing type/ Packing configuration  | National Order Code | Ordering number 8711500... |  |
|----------------|-------------------------------|-----------------------------|------------------|---|----------|--|---------------------|-------------------------------|---|
| 35 | 4,550 | 18,000 | h110 | A+ | 1 | ISL / 12 12 | 35SOX | 735003 /5 | yes |
| 35 | 4,550 | 18,000 | h110 | A+ | 1 | ISL / 12 12 | 35SOXPLUS | 194695 /5 | yes |
| 55 | 7,800 | 18,000 | h110 | A++ | 2 | ISL / 12 12 | 55SOX | 600318 /5 | yes |
| 55 | 7,800 | 18,000 | h110 | A++ | 2 | ISL / 12 12 | 55SOXPLUS | 194718 /5 | yes |
| 90 | 13,600 | 18,000 | p20 | A++ | 3 | ISL / 12 12 | 90SOX | 735027 /5 | yes |
| 90 | 13,600 | 18,000 | p20 | A++ | 3 | ISL / 12 12 | 90SOXPLUS | 194732 /5 | yes |
| 135 | 22,600 | 18,000 | p20 | A++ | 4 | ISL / 12 12 | 135SOX | 735041 /5 | yes |
| 135 | 22,600 | 18,000 | p20 | A++ | 4 | ISL / 12 12 | 135SOXPLUS | 194756 /5 | yes |
| 180 | 32,000 | 18,000 | p20 | A++ | 5 | ISL / 6 6 | 180SOX | 735164 /0 | yes |



Spectral power distribution





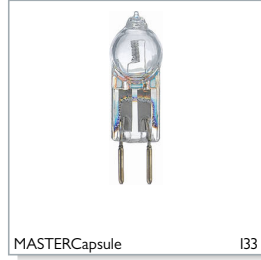




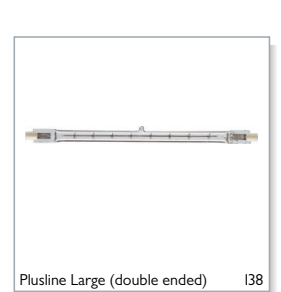
LV Halogen with Reflector ⇨



LV Halogen without Reflector ⇨

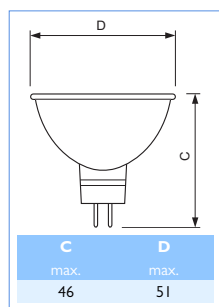


MV Halogen with Reflector



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

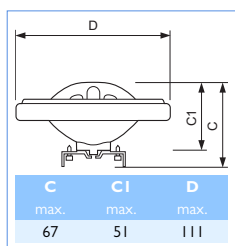
- Accent and general lighting applications in homes, shops, hotels and restaurants, where energy efficiency and low maintenance are important and especially in art galleries, museums and exhibitions

MASTERLine ES GU5.3 12V

| Lamp Wattage (W) |  Beam angle (°) | Luminous Intensity (cd [max.]) | Rated Lifetime (h) |  Energy efficiency class | Packing type/Packing configuration |  Quantity | National Order Code | Ordering number 8711500... |
|---------------------|---|-----------------------------------|-----------------------|---|------------------------------------|--|---------------------|-------------------------------|
| 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 |



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

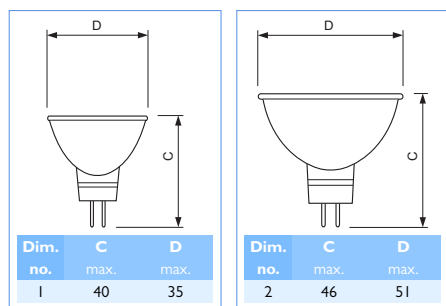
Product Features

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

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 breath (convection due to warming up and cooling down of upper ceiling)

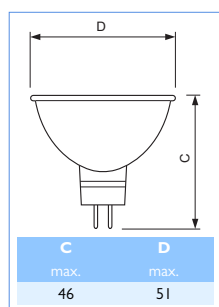
Product Features

- 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. glas 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 (W) | Beam angle (°) | Luminous Intensity (cd [max.]) | Rated Lifetime (h) | Energy label | Packing type/Packing configuration | National Order Code | Ordering number 8711500... | |
|------|------------------|----------------|--------------------------------|--------------------|--------------|------------------------------------|---------------------|----------------------------|-----------------|
| MR16 | 20 | 36 | 700 | 4,000 | B | ICT / 10X5F | 50 | 14715 | 43072460 |
| MR16 | 35 | 36 | 1,500 | 4,000 | B | ICT / 10X5F | 50 | 14716 | 43075560 |
| MR16 | 50 | 36 | 2,100 | 4,000 | B | ICT / 10X5F | 50 | 14717 | 43079360 |



Accentline



Product Description

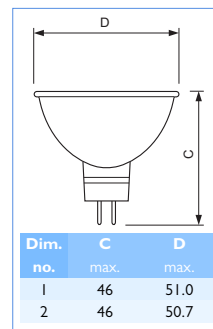
- Low-voltage halogen burner optically positioned in a glass reflector with and without front glass

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 | | 41199000 |
| 20 | 36 | 500 | 3,000 | B | 2 | ICT / 10X5F | 50 | 6644ECON | 41199060 |
| 35 | 36 | 800 | 2,000 | B | 1 | ICT / 10X5F | 50 | | 41202700 |
| 35 | 36 | 1,000 | 3,000 | B | 2 | ICT / 10X5F | 50 | 6647ECON | 41202760 |
| 50 | 36 | 1,200 | 2,000 | B | 1 | ICT / 10X5F | 50 | | 41205800 |
| 50 | 60 | 400 | 2,000 | B | 1 | ICT / 10X5F | 50 | | 42608600 |
| 50 | 36 | 1,500 | 3,000 | B | 2 | ICT / 10X5F | 50 | 6650ECON | 41205860 |
| 50 | 60 | 675 | 3,000 | B | 2 | ICT / 10X5F | 50 | 6651ECON | 42608660 |

Aluline III



Product Description

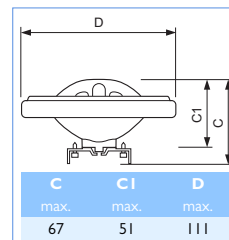
- Low-voltage halogen reflector lamp with high-purity aluminium reflector of III mm

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 imating 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 | 50ALUI1124D | 42655033 |

Aluline 37/56



Product Description

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

Product Benefits

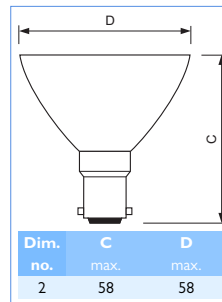
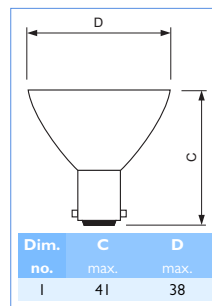
- Excellent accent lighting effects due to reduced spill light (clear versions only)

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



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

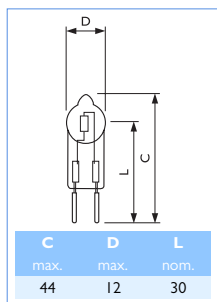
- Small size
- Average lifetime up to 4x longer than standard capsule
- Low-voltage halogen light quality: sparkling, crisp light
- Dimmable
- No mercury content
- High-performance coating for high efficiency
- Complete range equipped with Philips EcoBoost technology

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

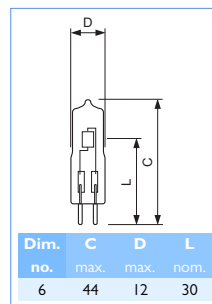
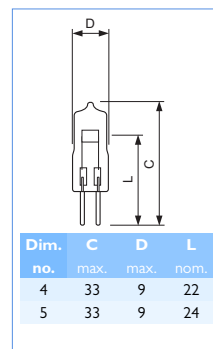
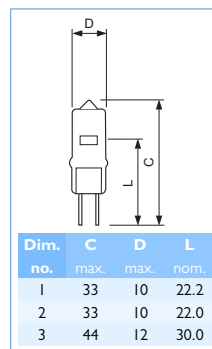
- Low-pressure technology allows use in luminaires without front glass

Product Features



- Sturdy, low-pressure lamps with UV-Block glass (IEC 357)
- Gas-filled (≤ 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 (W) | Cap-Base | Voltage (V) | Lamp Luminous Flux (lm) | Rated Lifetime (h) |  | Dim. no. | Packing type/ Packing configuration |  | National Order Code | Ordering number 8711500... |
|---------------------|----------|----------------|----------------------------|-----------------------|---|----------|--|---|---------------------|-------------------------------|
| 10 | G4 | 12 | 100 | 2,000 | C | 1 | ICT / 10X10F | 100 | 14565 | 41298050 |
| 10 | G4 | 12 | 140 | 4,000 | C | 4 | ICT / 10X10F | 100 | 13284Q | 40970650 |
| 20 | G4 | 12 | 255 | 2,000 | C | 2 | ICT / 10X10F | 100 | 14566 | 41299750 |
| 20 | G4 | 12 | 310 | 4,000 | C | 4 | ICT / 10X10F | 100 | 13078 | 40210350 |
| 20 | G4 | 24 | 300 | 4,000 | C | 5 | ICT / 10X10F | 100 | 13091 | 40962150 |
| 20 | GY6.35 | 12 | 300 | 4,000 | C | 6 | ICT / 10X10F | 100 | 13104 | 40219650 |
| 35 | GY6.35 | 12 | 600 | 4,000 | C | 6 | ICT / 10X10F | 100 | 13103 | 40218950 |
| 50 | GY6.35 | 12 | 850 | 2,000 | C | 3 | ICT / 10X10F | 100 | 14567 | 41295950 |
| 50 | GY6.35 | 12 | 880 | 4,000 | C | 6 | ICT / 10X10F | 100 | 13102 | 40217250 |
| 75 | GY6.35 | 12 | 1,400 | 4,000 | C | 6 | ICT / 10X10F | 100 | 13101 | 40216550 |
| 100 | GY6.35 | 12 | 1,850 | 4,000 | D | 6 | ICT / 10X10F | 100 | 13100 | 40215850 |



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

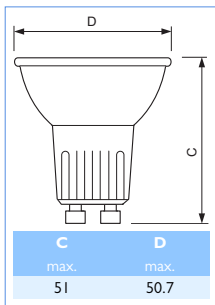
Product Features

- 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 MR16 look
- High and stable light output throughout lifetime
- GU10 bases ensure good retention in the luminaire and easy, 'twist and take out' insertion and replacement
- Built-in double fuses for additional safety at end-of-life

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 | 65280565 |
| 50 | 20 | 1,000 | 2,000 | D | ICT / 10X5F | 50 | 18073 | 42850960 |
| 50 | 40 | 600 | 2,000 | D | ICT / 10X5F | 50 | 14605MP | 41261460 |



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

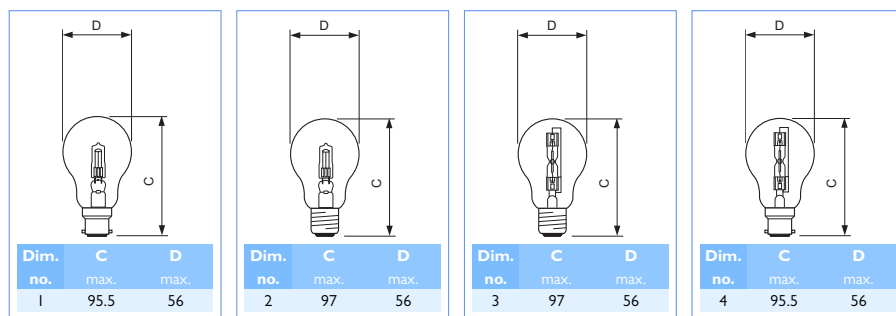
- Superior quality of light with excellent colour rendering ($R_a = 100$)
- Mains-voltage lamp, no transformer needed
- Universal burning position
- Instant start

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



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

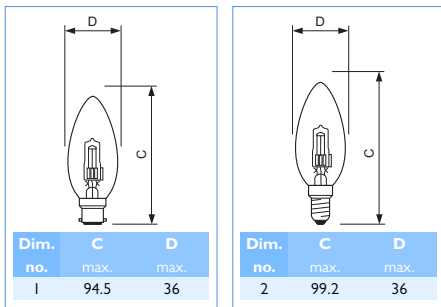
Environment

- 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 (W) | Cap-Base | Lamp Luminous Flux (lm) | Rated Lifetime (h) | Energy Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8727900... |
|------|------------------|----------|-------------------------|--------------------|--------------|----------|-------------------------------------|---------------------|----------------------------|
| B35 | 18 | BC | 204 | 2,000 | D | 1 | ICT / 15 15 | 18WB22ECOCLAS30 | 86264500 |
| B35 | 18 | SES | 204 | 2,000 | D | 2 | ICT / 15 15 | 18WSESECOCLAS30 | 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 | 28SESECO30CL | 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

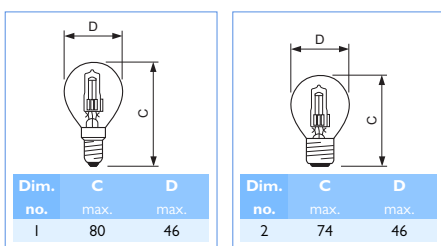
- Creates an attractive ambiance
- Dimmable

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 (W) | Cap-Base | Lamp Luminous Flux (lm) | Rated Lifetime (h) | Energy Class | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8727900... |
|------|------------------|----------|-------------------------|--------------------|--------------|----------|-------------------------------------|---------------------|----------------------------|
| 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

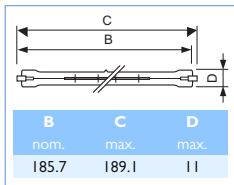
Product Features

- 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

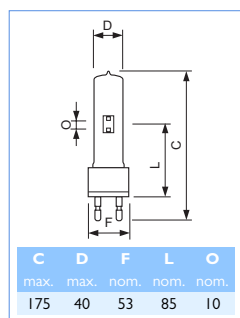
- Run-up time 2 minutes
- Restrike time 5-10 minutes, depending on cooling conditions

Application

- Studios and discos

System

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



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

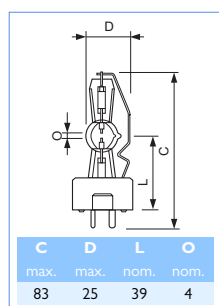
- Run-up time max. 2 minutes
- Restrike time 5-10 minutes, depending on cooling conditions
- Non-dimmable

Application

- Entertainment

System

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



| 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 | 22802800 |

MSR Gold™ SA Double Ended



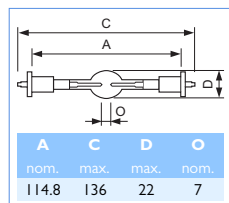
MSR Gold™ SA Double Ended – for extended performance

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 | 22121000 |

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

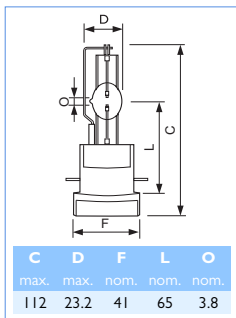
- High beam intensity
- Easy handling, smaller and lighter fixtures possible
- Boostable light levels
- Enables use at higher temperatures in any burning position. Longer lifetime, fewer early failures, consistent performance over time
- Reduces early lamp or lamp holder failures. Excellent current transfer
- 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) | | 4 | 8718291... |
| MSR Gold™ GOLD | 700 | PGJX50 | 6,000 | 50,000 | 10.2 | any | ICT / 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

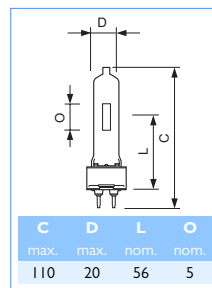
- Optimal light collection
- Low cost of ownership
- Brightness on stage

Product Features

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

Application

- Studio and disco lighting



| Type | Rated Lamp Wattage (W) | Cap-Base | Colour Temperature (K) | Lamp Luminous Flux EM (lm) | Lamp Current (A) | Burning Position | Packing type/ Packing configuration | Ordering number 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.

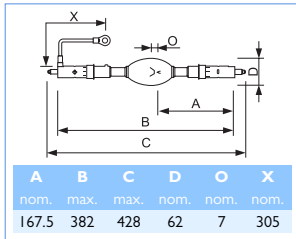
Product Benefits

- 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 | 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

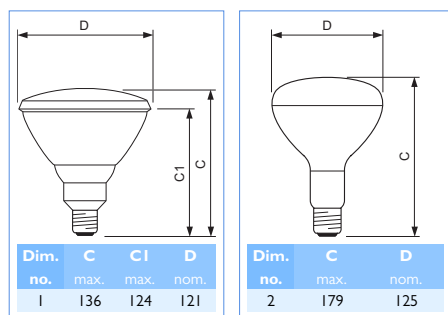
- 30% extra energy saving with PAR thanks to its unique reflector system
- Simple and safe heat source with no risk of broken glass
- 90% of energy is transmitted as infrared heat.

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

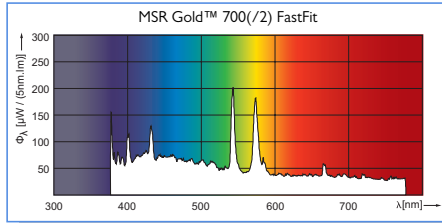
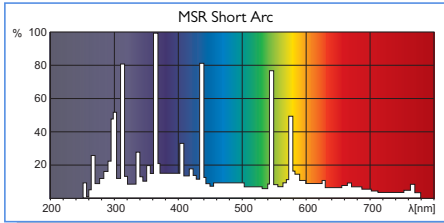
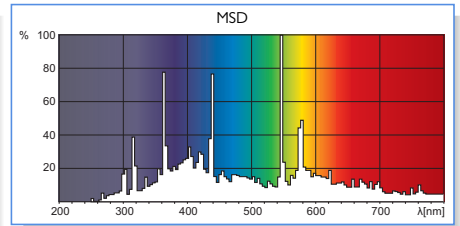
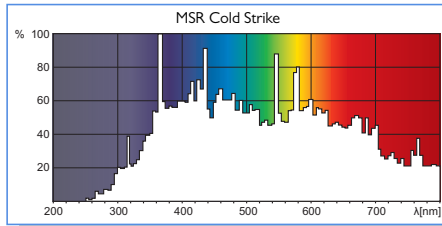
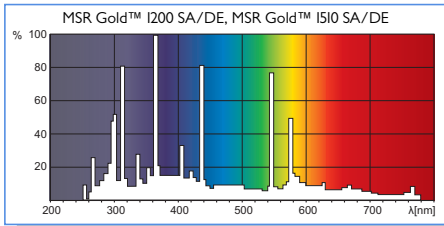
- Agricultural: breeding and rearing of pigs, poultry, calves, foals, dogs etc. as well as in veterinary clinics, zoos, pet shops.
- General radiant heating, e. g. hot food displays, cooker hoods, bathrooms, space heating etc.
- Industrial heating, e. g. drying, baking, carbonising, melting etc.



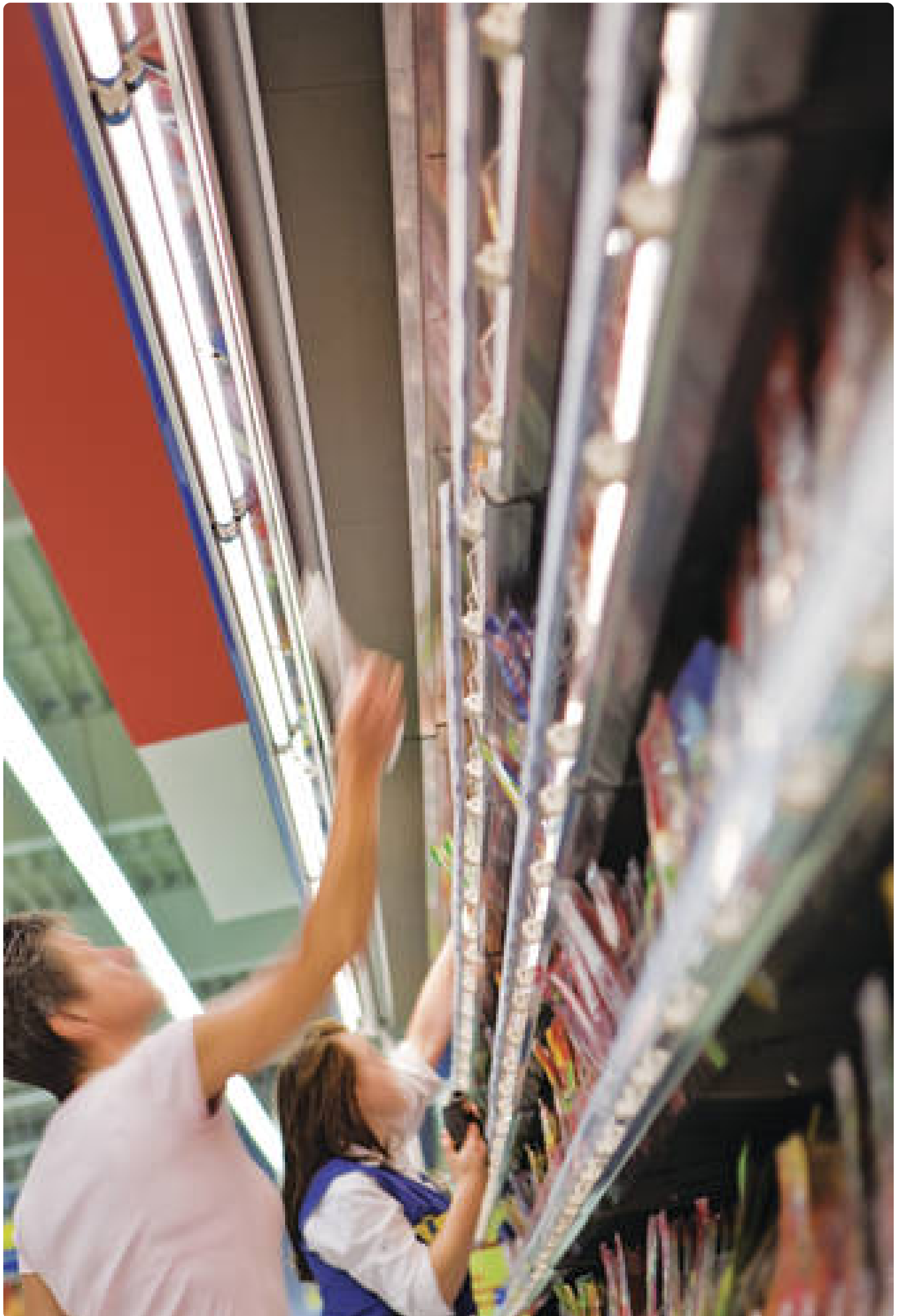
| Type | Lamp Wattage (W) | Cap-Base | Voltage (V) | Bulb Finish | Burning Position | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 871 1500... |
|----------|------------------|----------|-------------|-------------|------------------|----------|--|---------------------|-----------------------------|
| PAR38 IR | 100 | ES | 240 | Clear | any | 1 | ICT / 12 12 | IR100C | 128935 / 5 |
| PAR38 IR | 175 | ES | 240 | Clear | any | 1 | ICT / 12 12 | IR175C | 128959 / 5 |
| R125 IR | 250 | ES | 230-250 | Clear | any | 2 | ICT / 10 10 | IR250CH | 126498 / 25 |
| R125 IR | 300 | ES | 230-250 | Clear | any | 2 | ICT / 10 10 | IR300CH | 126566 / 25 |

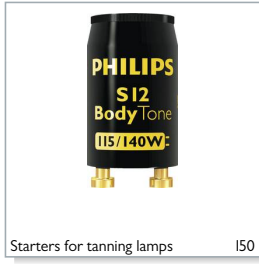


Spectral power distribution

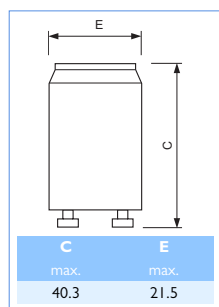


Starters for Fluorescent Lamps





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

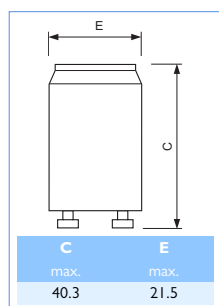
- Ignite fluorescent lamps of all brands with conventional electromagnetic ballast using TL-D (T8), TL (T12), TL mini and PL-L lamps
- S2 Ecoclick starters are suitable for:
 - I10/I30 V, 4-22 W single applications
 - 220/240 V, 4-6-8-15-18-22 W single applications
 - 220/240 V, 4-22 W series applications
- 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 871 1500... |
|------|------------------|--------------------|-------------|------------------------------------|-------|---------------------|-----------------------------|
| S2 | 4-22 | Series | 220-240 | UNP / 1,000 | 1,000 | S21000W | 69750928 |
| S2 | 4-22 | Series | 220-240 | INO / 20X10CT | 200 | S210W | 69750931 |
| S10 | 4-65 | Single | 220-240 | UNP / 1,000 | 1,000 | S101000W | 69769128 |
| S10 | 4-65 | Single | 220-240 | INO / 20X10CT | 200 | S1010W | 69769131 |

Starters for tanning lamps



Philips tanning starters: a complete range of easy-to-install eco-friendly starters for tanning lamps operating on a conventional electromagnetic ballast

Range of premium-quality starters for igniting fluorescent lamps operating on electromagnetic ballasts

Product 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 15-20 W - I10-I30 V~, 15-20 W, Single application
- Bodytone Starter 15-20 W - 220-240 V~, 15-20 W, Single/Series application
- Bodytone Starter 25-100 W - 220-240 V~, 25-100 W, Single application
- Bodytone Starter 120-180 W - 220-240 V~, 120-180 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 | 90379226 |
| S16 | 70-125 | Single | 240 | UNP / 1,000 | 1,000 | S161000WNEW | 90356328 |
| S16 | 70-125 | Single | 240 | UNP / 20X10CT | 200 | S1610WBNEW | 90356331 |





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

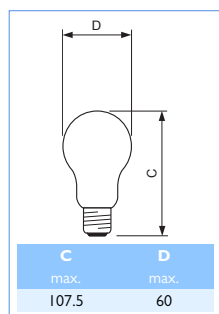
- Provide the perfect light for dramatic accents and display lighting as well as general lighting in a variety of applications
- Gas-filled lamp has a clear glass are ideally suited for remote, isolated areas where energy has to be supplied by private generating plants, batteries or other low-voltage 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 | 10156384 |
| A60 | 60 | 1,000 | D | ICT / 12X10F | 120 | 5060ESCP | 10188484 |

Appliance Oven Tubular



Product Description

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

Product Benefits

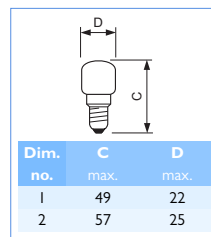
- Reliable operation when used in special lampholders at high oven temperatures (up to 300 °C)

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



Appliance SES Clear 230-240V

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

Appliance Oven P45



Product Description

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

Product Benefits

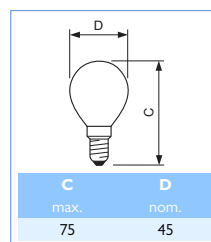
- Reliable operation when used in special lampholders at high oven temperatures (up to 300 °C)

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



Appliance SES Clear 240V

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



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

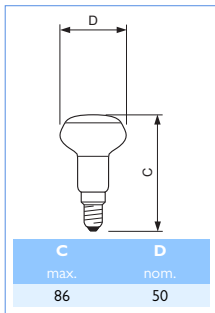
Product Features

- 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) | (°) | (h) | | | 8711500... |
| NR50 | 40 | 30 | 1,000 | ICT / 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

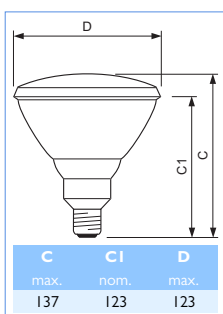
Product Features

- 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 (W) | Beam Description |  Luminous Intensity (°) (cd [max.]) | Nominal Lifetime (h) |  Packing type/ Packing configuration |  | National Order Code | Ordering number 8711500... |
|-------|---------------------|------------------|---|-------------------------|--|---|---------------------|-------------------------------|
| PAR38 | 120 | Spot | 10 23,000 | 2,000 | C ICT / 12 | 12 | 24120ESPAR38 | 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 (W) |  Luminous Intensity (°) (cd [max.]) | Nominal Lifetime (h) |  Packing type/ Packing configuration |  | National Order Code | Ordering number 8711500... |
|---------------------|--|-------------------------|---|---|---------------------|-------------------------------|
| 300 | 40 16,000 | 1,000 | C ICT / 8 | 8 | 12300PAR56FL | 15969442 |





HID Electronic Indoor ↗



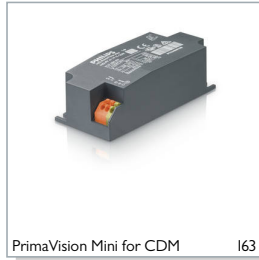
AspiraVision DALI for CDM Elite Light Boost I61



AspiraVision Compact for CDM I61



PrimaVision Compact for CDM I62



PrimaVision Mini for CDM I63



PrimaVision Twin for CDM I64

HID Electronic Outdoor ↗



PrimaVision Power for CDM I64



PrimaVision for SDW-TG I65



PrimaVision Xtreme for CPO I66



DynaVision LumiStep Xtreme for CPO I67



PrimaVision Xtreme for CDO I68



PrimaVision Xtreme for SON I68



PrimaVision for CDM Elite MW I69



EXC for SOX I69



DynaVision Programmable Xtreme for CDO I70



DynaVision Programmable Xtreme for CPO I71

Controllers ↗



DynaVision Programmable Xtreme for SON I71



DynaVision Programmable Xtreme for CDMe I72



HID-PrimaVision CDM I73



Gear for SDW-T lamps I74



HID-DynaVision Control for SON I75

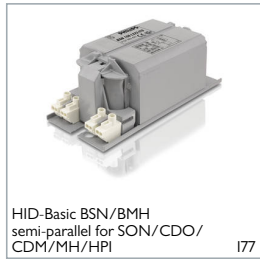
HID Electromagnetic ↗



HID-High Power Basic for SON/MH/HPL I76



HID-Basic BSN/BMH MK4 semi-parallel for SON/CDO/CDM/MH/HPI I76



HID-Basic BSN/BMH semi-parallel for SON/CDO/CDM/MH/HPI I77



HID-Basic BSN/BMH series multi-wattage for SON/CDO/CDM/MH/HPI I78



HID-HeavyDuty BSN semi-parallel for SON/CDO/MH/HPI I79



HID-Basic BHL MK4 for HPL/HPI I80



HID-Basic BHL for HPL/HPI I80



HID-HighPower for SON/MH/HPL/HPI I81



HID-Basic BSX for SOX I81



HID-HeavyDuty BSX for SOX I82

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



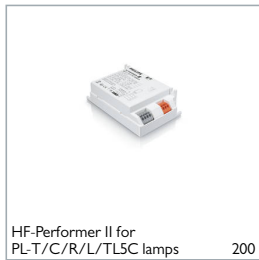
HF-Performer TL5 Circular 197



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

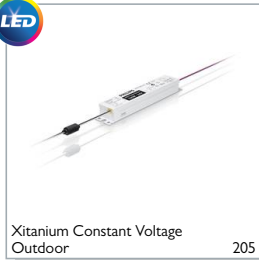


Primaline Halogen Transformers 203



Certaline Halogen Transformers 203

LED Electronic Drivers ↗



Xtanium Constant Voltage Outdoor 205



Xtanium/Fortimo LED Drivers Indoor 206



Xtanium Constant Current Outdoor 206



Xtanium Constant Current Xtreme 207



Xtanium/Fortimo LED Drivers indoor dimmable 208



Xtanium 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

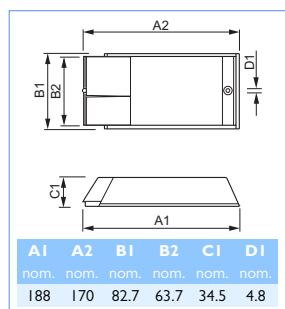
- Dim and boost Elite Light Boost lamps for energy saving and attraction lighting
- SOFTSTART allows installation with fewer circuit breakers
- Loop Through allows faster, cost-efficient installation

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

AspiraVision Compact for CDM



AspiraVision Compact (35, 50 & 70 W) for CDM – The smart electronic gear

AspiraVision is the mark of excellence in HID electronic gear technology – high-end, compact, lightweight and easy to use, with added features for optimal performance of 35, 50 and 70 W CDM lamps.

The recently added switching function provides maximum flexibility for users by integrating three different wattage choices into a single driver.

Product Benefits

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

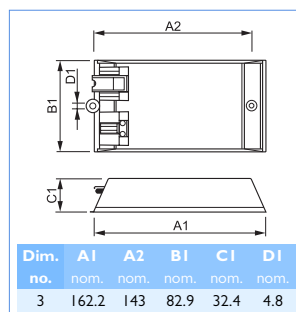
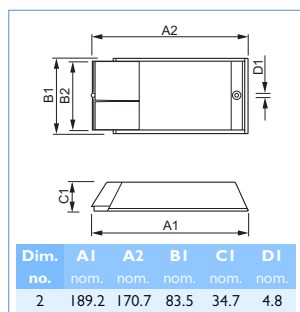
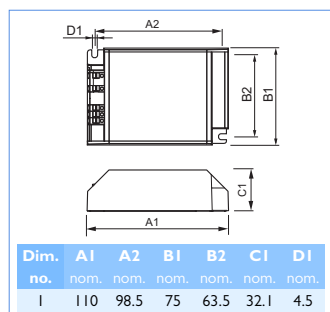
- Driver can be set to 35, 50 or 70 W with the integrated switch, which means there is no need to replace the driver if the installation requires lower or higher-wattage lamps in the future

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 (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 8718291... |
|-----------------------|---------------------|------------------------|---------------------------------------|--------------------------------------|----------|--|---------------------|----------------------------|
| HID-AV C 35-70 /S CDM | 220-240 | 50/60 | 58 | 40,000 | 1 | INO / 12 12 | HIDAVTW3570S | 23310700 |
| HID-AV C 35-70 /I CDM | 220-240 | 50/60 | 58 | 40,000 | 2 | INO / 12 12 | HIDAVTW3570I | 23312100 |
| HID-AV C 35-70 /C CDM | 220-240 | 50/60 | 58 | 40,000 | 3 | INO / 12 12 | HIDAVTW3570C | 23314500 |

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

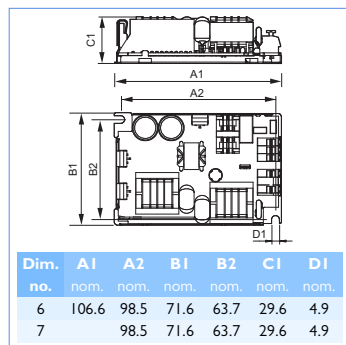
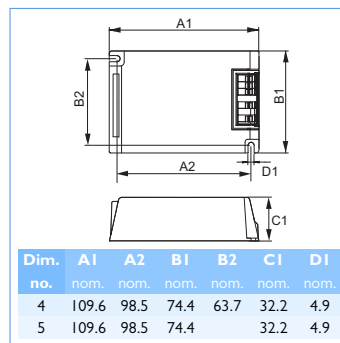
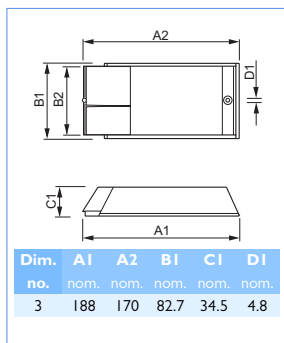
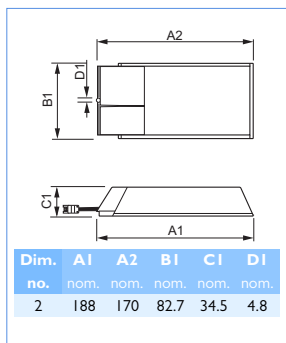
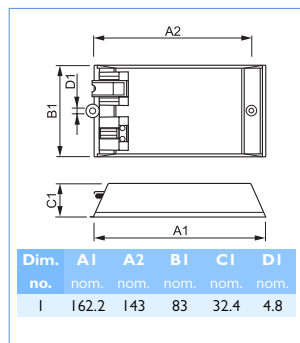
- Optimal lamp performance thanks to minimal lamp power tolerance
- CDM lamp life increased by up to 30%
- Eliminates all visible lamp flicker

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



| 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 |
|--------------------|---------------------|------------------------|---------------------------------------|--------------------------------------|----------|--|---------------------|-------------------------|
| HID-PV C 35 /C CDM | 220-240 | 50/60 | 24 | | 1 | INO / 12 12 | HIDPVC35C | 8718291 22857800 |
| HID-PV C 35 /G CDM | 220-240 | 50/60 | 24 | 40,000 | 2 | INO / 6 6 | PVC35GCDM | 8727900 91642300 |
| HID-PV C 35 /I CDM | 220-240 | 50/60 | 24 | 40,000 | 3 | INO / 12 12 | PVC035ICDM | 8727900 85973700 |
| HID-PV C 35 /S CDM | 220-240 | 50/60 | 24 | 40,000 | 4 | UNP / 12 12 | PVC035SCDM | 8727900 85962100 |
| HID-PV C 35 /P CDM | 220-240 | 50/60 | 24 | 40,000 | 6 | UNP / 12 12 | PVC035PCDM | 8727900 86554700 |
| HID-PV C 50 /C CDM | 220-240 | 50/60 | 24 | | 1 | INO / 12 12 | HIDPVC50C | 8718291 22845500 |
| HID-PV C 50 /S CDM | 220-240 | 50/60 | 24 | 40,000 | 5 | INO / 12 12 | PVC050SCDM | 8727900 93363500 |
| HID-PV C 50 /P CDM | 220-240 | 50/60 | 24 | 40,000 | 7 | INO / 12 12 | PVC050PCDM | 8727900 94338200 |
| HID-PV C 50 /I CDM | 220-240 | 50/60 | 24 | 40,000 | 3 | INO / 12 12 | PVC050ICDM | 8727900 93365900 |
| HID-PV C 70 /G CDM | 220-240 | 50/60 | 20 | 40,000 | 2 | INO / 6 6 | PVC70GCDM | 8727900 91644700 |

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 & 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

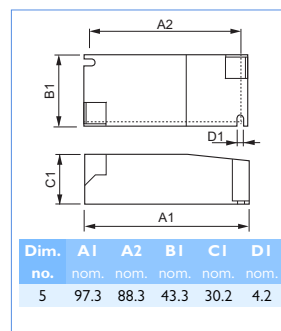
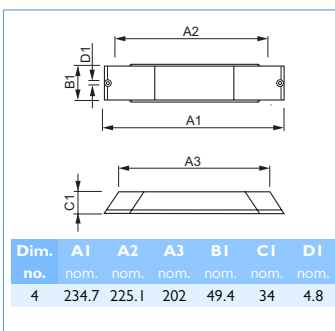
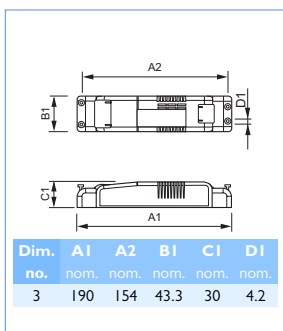
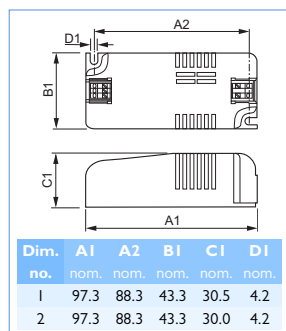
Product Features


- 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 & 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

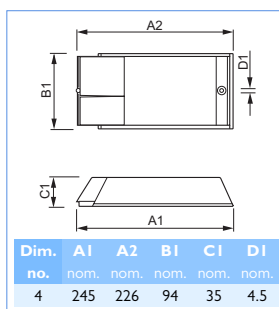
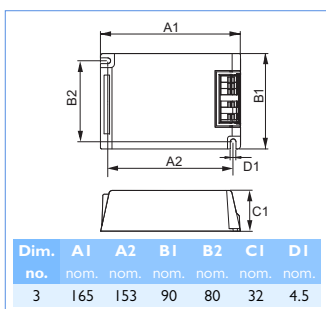
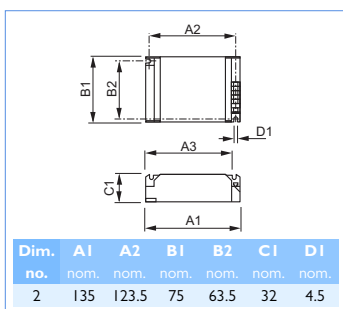
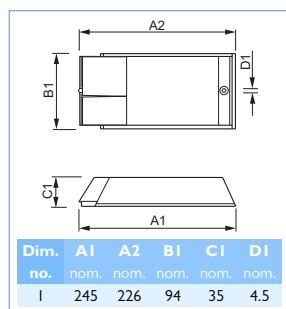
Product features

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

PrimaVision Power for CDM



PrimaVision Power (100 W & 150 W) for CDM - High power packed in a small size

PrimaVision Power gear is designed for optimal performance of 100 and 150 W CDM lamps – ideal where high-intensity light is key.

Product Benefits

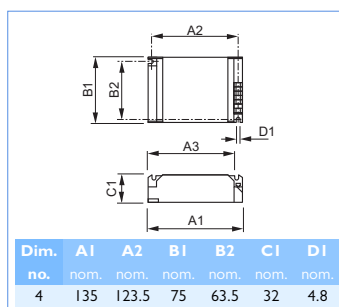
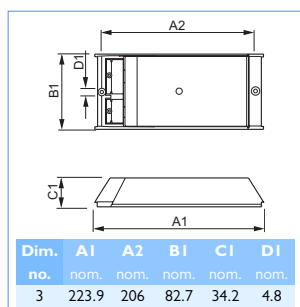
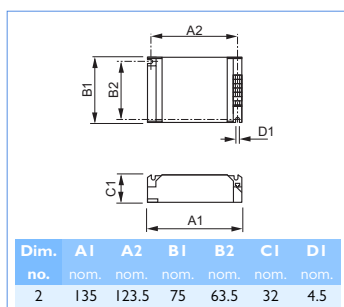
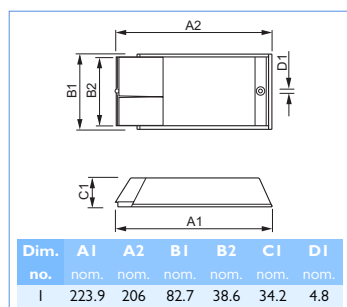
- Optimal lamp performance thanks to minimal lamp power tolerance
- Lamp life increased by up to 30% for CDM lamps
- Eliminates all visible lamp flicker


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 (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 |
|---------------------|---------------------|------------------------|---------------------------------------|--------------------------------------|----------|--|---|---------------------|-----------------|
| 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

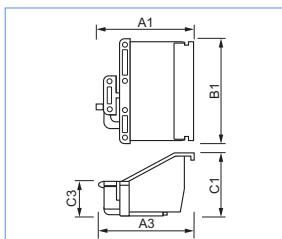
- Optimal lamp performance thanks to minimal lamp power tolerance
- Reduces colour differences between lamps and initial lumen spread
- Performance is independent of mains voltage

Product features

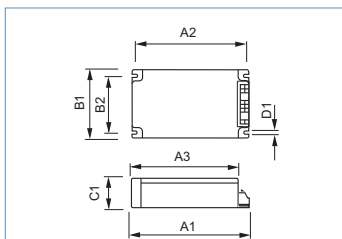
- Available as Standard (/S) version for use in a luminaire, or with separate strain relief for independent use on a (false) ceiling
- Minimal lamp power spread
- Lamp end-of-life detection
- High Tambient and Tcase temperatures
- Long lifetime of 40,000 hours

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



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



| Dim. no. | A1 nom. | A2 nom. | B1 nom. | B2 nom. | C1 nom. | D1 nom. |
|----------|---------|---------|---------|---------|---------|---------|
| 2 | 150 | 133.6 | 90 | 70 | 37 | 4.5 |

| Type | Line Voltage (V) | Line Frequency (Hz) | Max ballast on MCB(16A type B) (x) | Dim. no. | Packing type/ Packing configuration |  | National Order Code | Ordering number |
|--------------------------|---------------------|------------------------|---------------------------------------|----------|--|---|---------------------|-----------------|
| 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

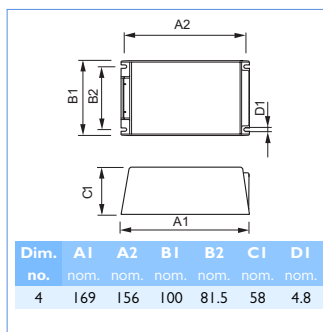
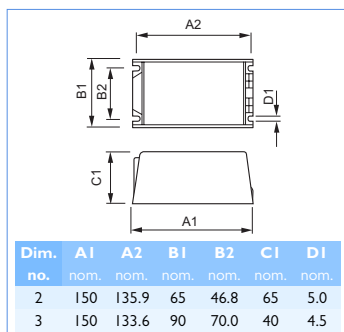
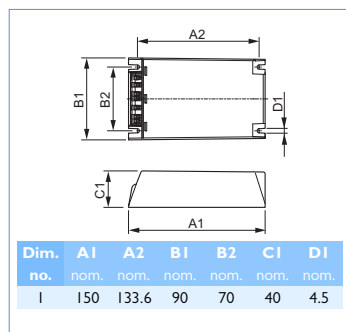
- Xtreme long lifetime of 80,000 hours, with minimum 90% survival at Tc = 80 °C)
- Xtreme lightning protection 10 kV/5 kA
- Xtreme protection against humidity and vibration
- Better lighting efficiency than magnetic ballasts
- Accurate lamp power stabilisation of 95-97% over wide mains-voltage range 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 (V) | Line Frequency (Hz) | Lifetime 90% surv. @Tcaselife (h) | Dim. no. | Packing type/Packing configuration | National Order Code | Ordering number |
|-------------------------------------|------------------|---------------------|-----------------------------------|----------|------------------------------------|-----------------------------|-------------------------|
| HID-PV Xt 45 CPO | 208-277 | 50/60 | 80,000 | 1 | INO / 12 12 | PVXT45CPOQ | 8718291 66896100 |
| HID-PV sXt 45 CPO | 208-277 | 50/60 | 80,000 | 2 | INO / 12 12 | PVSTXT45CPO | 8727900 91585300 |
| HID-PV Xt 60 CPO | 208-277 | 50/60 | 80,000 | 1 | INO / 12 12 | PVXT60CPOQ | 8718291 24143000 |
| HID-PV Xt 90 CPO | 208-277 | 50/60 | 80,000 | 3 | INO / 12 12 | PVXT90CPOQ | 8718291 24145400 |
| HID-PV Xt 140 CPO | 208-277 | 50/60 | 80,000 | 3 | INO / 12 12 | PVXT140CPOQ | 8718291 24147800 |
| HID-PV Xt 210 CDM _e /CPO | 208-277 | 50/60 | 80,000 | 4 | INO / 6 6 | PVXT210CDM _e CPO | 8718291 21993400 |

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

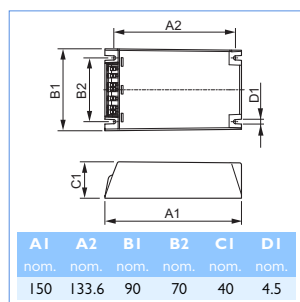
- RoHS-compliant
- Limited carbon footprint helps you to play your role in conserving our planet


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 | 66906700 |
| HID-DV LS-8 Xt 45 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT845CPOQ | 66898500 |
| HID-DV LS-6 Xt 60 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT660CPOQ | 66908100 |
| HID-DV LS-8 Xt 60 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT860CPOQ | 66900500 |
| HID-DV LS-8 Xt 90 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT890CPOQ | 66902900 |
| HID-DV LS-6 Xt 90 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT690CPOQ | 66910400 |
| HID-DV LS-8 Xt 140 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT8140CPOQ | 66904300 |
| HID-DV LS-6 Xt 140 CPO | 208-277 | 50/60 | 80,000 | INO / 12 | 12 | DVLSXT6140CPOQ | 66912800 |



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)

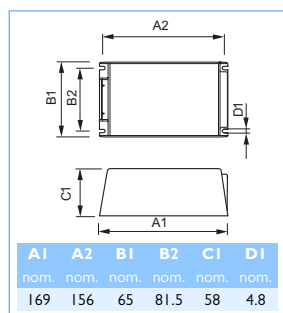
- Minimizes maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

Product Features

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

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 | 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

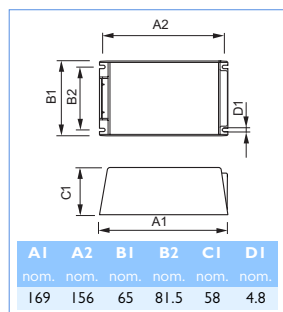
- Up to 15% energy saving due to the high driver efficiency (92%) and better wattage control at overvoltage (when compared to magnetic ballasts)
- Minimizes maintenance cost due to the Xtreme lifetime of 80,000 hours and the integrated Lighting (lighting?) Protection
- Better light quality as the PrimaVision 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 |
|-------------------|--------------|----------------|-------------------------------|--|---|---------------------|-----------------|
| | (V) | (Hz) | (h) | | | | 8718291... |
| HID-PV Xt 250 SON | 208-277 | 50/60 | 80,000 | INO / 6 | 6 | PVXT250SON | 22271200 |

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 Tc = 80 °C)
- Optional 5 kA / 10 kV lightning strike protection
- 95-97% accuracy on power stabilization if mains voltage remains between 180 and 300 V

Environment

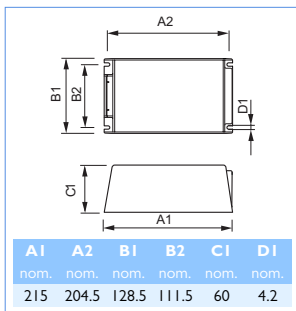
- RoHS compliant
- Limited carbon footprint helps you to play your role in conserving our planet


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 |
|-------------------|--------------|----------------|-------------------------------|--|---|---------------------|-----------------|
| | (V) | (Hz) | (h) | | | | 8727900... |
| HID-PV 315 /S CDM | 220-240 | 50/60 | 50,000 | UNP / 4 | 4 | HIDPV315SCDMMW | 84311800 |

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

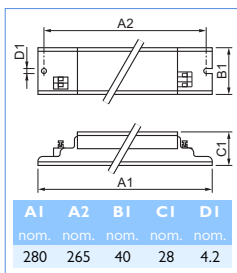
- Constant light output at mains voltages between approximately 200 and 255 V
- One compact component
- Slim cross-section and low weight
- Single-insert contacts

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

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

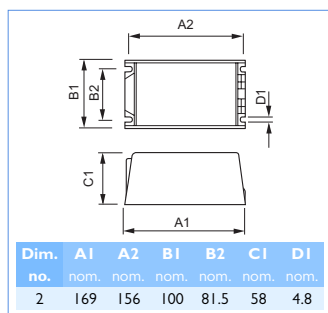
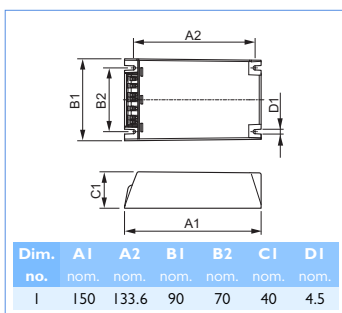
- Enables 2-way communication with the lighting network (via DALI)
- Up to 40% energy saving due to the integrated dimming options and very high driver efficiency
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

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

DynaVision Programmable Xtreme for CPO



Xtreme drivers for maximum energy savings

Highly reliable and flexible electronic drivers for CPO lamps; designed to save on energy costs via integrated controls and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection. The DynaVision Programmable product family is the perfect basis for any sort of lighting management solution.

Product Benefits

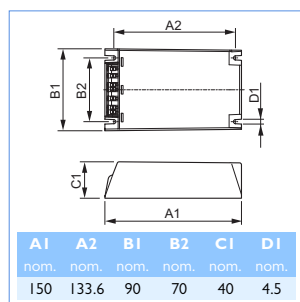
- Enables 2-way communication with the lighting network (via DALI)
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and the integrated lightning protection
- Together with the CPO lamp the driver creates the most efficient white-light system in the industry in its power range


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

DynaVision Programmable Xtreme for SON



Xtreme drivers for maximum energy savings

Highly reliable and flexible electronic drivers for SON lamps; designed to save energy via integrated controls, and to reduce maintenance costs thanks to 80,000-hour lifetime and integrated lightning protection. The DynaVision Programmable product family is the perfect basis for any sort of lighting management solution.

Product Benefits

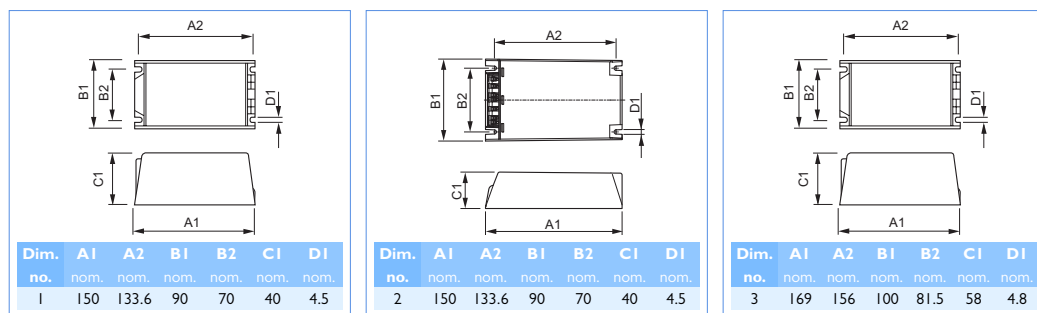
- Enables 2-way communication with the lighting network (via DALI)
- Up to 40% energy saving due to the integrated dimming options and very high driver efficiency
- Minimises maintenance cost due to the Xtreme lifetime of 80,000 hours and integrated lightning protection

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



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

DynaVision Programmable Xtreme for CDMe



Xtreme drivers for maximum energy savings

Highly reliable and flexible electronic drivers for MASTERCLOUR 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.)

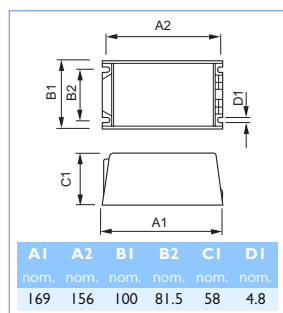
- Same energy consumption and smooth driving of the lamp regardless of fluctuations in the mains voltage

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 Tc = 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



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

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

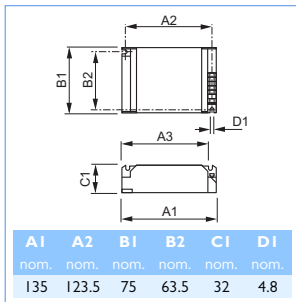
- Minimal lamp power tolerance results in optimal lamp performance
- Eliminates all visible lamp flicker
- Reduces color differences between lamps and reduces initial lumen spread
- Performance is independent of mains voltage
- Trouble-free installation and cabling with push-in contacts


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 |
|---------------------|----------------|----------------|------------------------------------|--|---------------------|-------------------------------|
| HID-PV C 150 /S CDM | (V) 220-240 | (Hz) 50/60 | UNP / 12 | 12 | HIDPVC150S | 8711500... 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

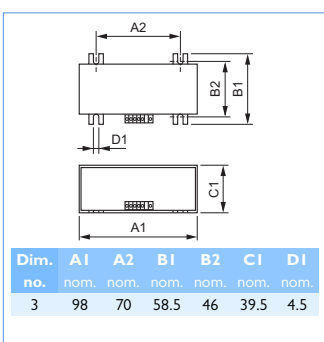
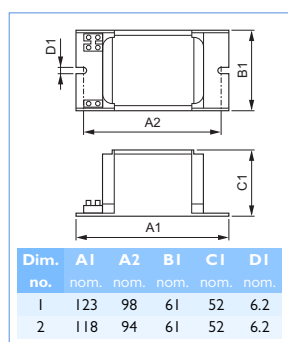
- Ballasts and electronic control units equipped with screw terminal blocks; other contact possibilities for
- Earthing-while-mounting facility (HID 'BASIC' ballasts), separate earth terminal (HID 'Heavy Duty')

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 & 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)



| 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

1-10V



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
- 1-10 V input for dim-control signal
- No cable-length restrictions

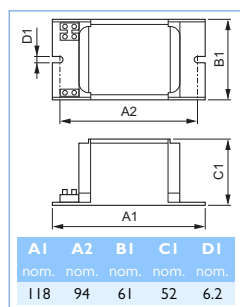
- Power control at all dimming levels
- Aluminium house, M8 stud for mounting, screw connectors for wiring


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)



| Type | Line Voltage | Line Frequency | Packing type/ Packing configuration |  | National Order Code | Ordering number 8727900... |
|--------------------|----------------|----------------|--|--|---------------------|-------------------------------|
| BSH 2540 K3067 SON | (V) 220-240 | (Hz) 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

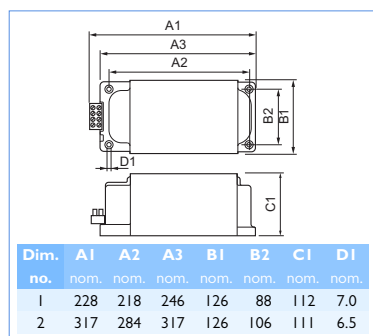
- Equipped as standard with screw terminal blocks
- Separate earth terminal
- Ballasts for alternative mains voltages/ frequencies available on request

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



| 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

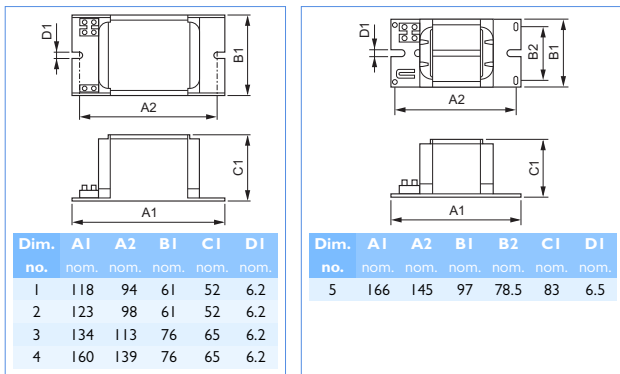
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Ballasts for alternative mains voltages/ frequencies available upon request

Application

- Outdoor lighting
- Horticulture

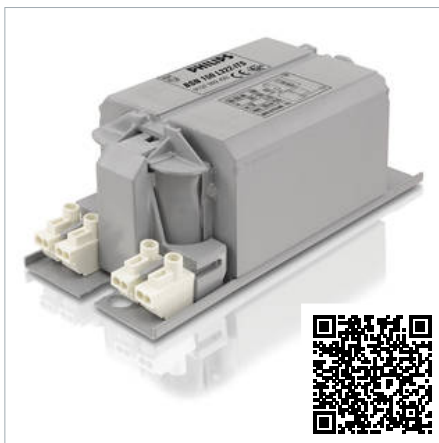
System

- 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



| 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

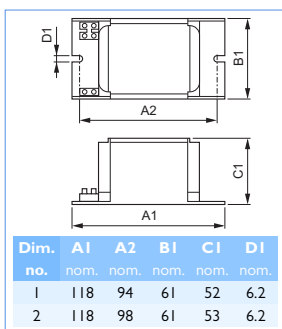
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Applications

- Outdoor lighting
- Horticulture

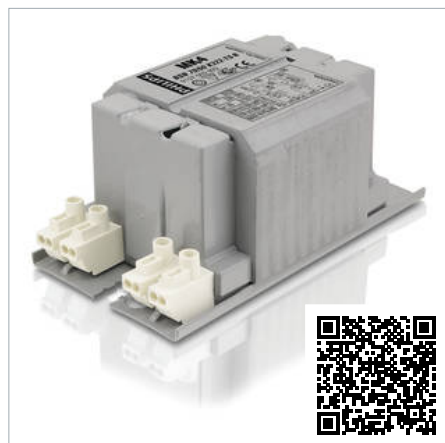
System

- 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



| 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

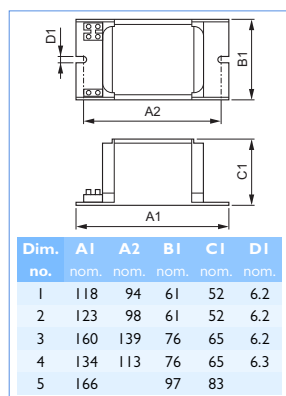
- Multi-wattage ballasts can be used only in series circuits
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

Applications

- Outdoor lighting

System

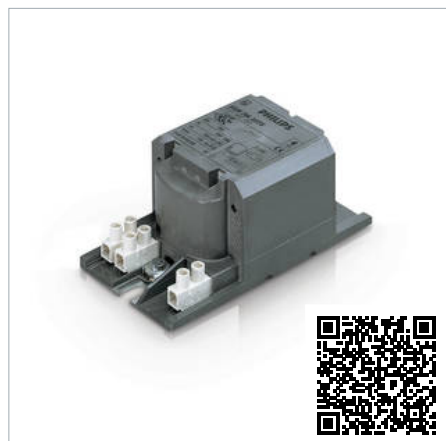
- Electromagnetic system requires ballast, ignitor and capacitor
- Series circuit: all ballasts are designed to work with series ignitors – SUD... (Philips) or any other series ignitors



| Type | Line Voltage (V) | Line Frequency (Hz) | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 8727900... |
|---------------------|------------------|---------------------|----------|--|---|---------------------|----------------------------|
| BSN 70/50 K407-TS | 230/240 | 50 | 1 | INO / 6 | 6 | BSN5070K407TS | 94047300 |
| BSN 100/70 K407-TS | 230/240 | 50 | 2 | INO / 6 | 6 | BSN70100K407TS | 94053400 |
| BSN 150/250 K407-TS | 230/240 | 50 | 3 | INO / 2 | 6 | BSN150250K407TS | 94092300 |
| BSN 150/100 K407-TS | 230/240 | 50 | 4 | INO / 6 | 6 | BSN100150K407TS | 94068800 |
| BSN 400/250 K407-TS | 230/240 | 50 | 5 | INO / 2 | 2 | BSN250400K407TS | 94086200 |



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



Long-lasting, reliable solution

Encapsulated electromagnetic copper/iron ballasts for use with an external semi-parallel ignitor for CDM, CDO, MH, HPI (Plus) and SON lamps

Product 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

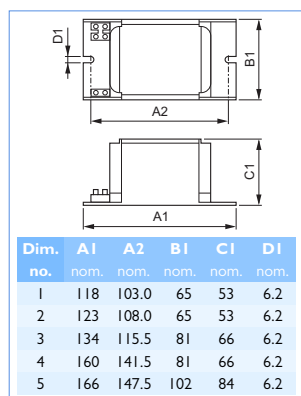
- Ballasts for alternative mains voltages/ frequencies available upon request
- Separate earth terminal (HID 'Heavy Duty')


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



| Type | Line Voltage (V) | Line Frequency (Hz) | Dim. no. | Packing type/ Packing configuration |  | National Order Code | Ordering number 8711500... |
|----------------|------------------|---------------------|----------|-------------------------------------|---|---------------------|----------------------------|
| 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

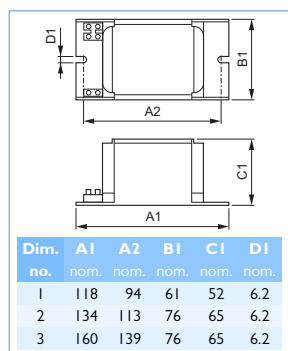
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request

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.



| Type | Line Voltage (V) | Line Frequency (Hz) | Dim. no. | Packing type/ Packing configuration | | National Order Code | Ordering number 8727900... |
|-----------------|------------------|---------------------|----------|--|---|---------------------|----------------------------|
| BHL 80/125 K407 | 230/240 | 50 | 1 | INO / 6 | 6 | BHL80125K407 | 94013800 |
| BHL 250 K307 | 230/240 | 50 | 2 | UNP / 6 | 6 | BHL250K307 | 88701300 |
| BHL 400 K307 | 230/240 | 50 | 3 | UNP / 6 | 6 | BHL400K307 | 88703700 |

HID-Basic BHL for HPL/HPI



Long-lasting, reliable solution

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

Product 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

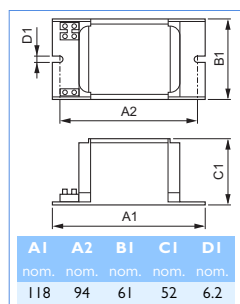
- Earthing-while-mounting facility
- Ballasts for alternative mains voltages/frequencies available upon request


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



| 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

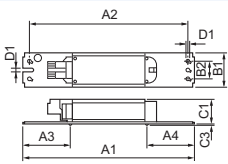
- Minimal watt losses thanks to orthocyclic winding process
- Ballasts for alternative mains voltages/ frequencies available upon request

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 nom. | A2 nom. | A3 nom. | A4 nom. | B1 nom. | B2 nom. | C1 nom. | C3 nom. | D1 nom. |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 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

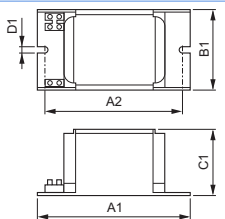
- Equipped with screw terminal blocks as standard; insert contacts available upon request
- Ballasts for alternative mains voltages/frequencies available upon request
- Separate earth terminal (HID 'Heavy Duty')

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 nom. | A2 nom. | B1 nom. | C1 nom. | D1 nom. |
|---------|---------|---------|---------|---------|
| 118 | 103 | 65 | 53 | 6.2 |

| Type | Line Voltage (V) | Line Frequency (Hz) | Packing type/ Packing configuration |  | National Order Code | Ordering number |
|------------|------------------|---------------------|--|--|---------------------|------------------------|
| BSX 90 L32 | 240 | 50 | INO / 6 | 6 | BSX90L32 | 8711500... 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 IP21 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

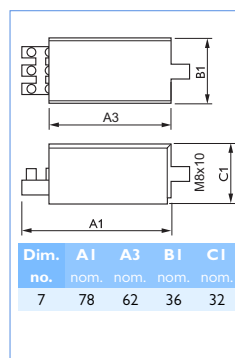
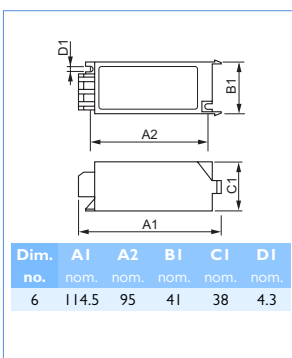
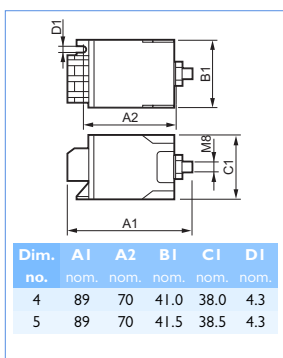
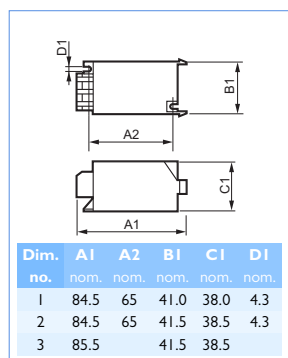
- Series ignitor will only work in series circuits

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 48 | SI51 | 91553530 |
| SI 51-S | 1,000 HPI | 220-240 | 50/60 | 4 | UNP / 20 20 | SI51S | 74749530 |
| SI 52 | 250/400 HPI | 220-240 | 50/60 | 1 | UNP / 48 48 | SI52 | 91554230 |
| SI 54 | 2,000 HPI | 380-415 | 50/60 | 6 | INO / 20 20 | SI54 | 91548130 |
| SN 57 | 50/70 SON | 220-240 | 50/60 | 1 | UNP / 48 48 | SN57 | 91555930 |
| SN 57-S | 50/70 SON | 220-240 | 50/60 | 4 | UNP / 20 20 | SN57S | 06052530 |
| SN 58 | 35-400 SON/CDM/MH/HPI | 220-240 | 50/60 | 1 | UNP / 48 48 | SN58 | 91556630 |
| SN 58-S | 50/70 SON-T | 220-240 | 50/60 | 4 | UNP / 20 20 | SN58S | 74175230 |
| SN 59 | 1000/1,800 SON/MHN | 220-240 | 50/60 | 6 | UNP / 20 20 | SN59 | 91557330 |
| SN 61 | 1000/1,800 SON/MH | 220-240 | 50/60 | 6 | UNP / 20 20 | SN61 | 91639630 |
| SND 57 | 50/70 SON | 220-240 | 50/60 | 2 | UNP / 48 48 | SND57 | 93066830 |
| SND 58 | 35-600 SON/CDM/MH/HPI/HPA | 220-240 | 50/60 | 2 | UNP / 48 48 | SND58 | 93068230 |
| SND 58-S | 35-600 SON/CDM/MH/HPI/HPA | 220-240 | 50/60 | 5 | UNP / 20 20 | SND58S | 93070530 |
| SUD 10-S | 50/70 SON/CDO | 220-240 | 50/60 | 7 | UNP / 30 30 | SUD10S | 93144330 |
| SX 26 | 26/35 SOX/SOX-E | 220-240 | 50/60 | 6 | UNP / 20 20 | SX26 | 91590030 |
| SX 70 | 90 SOX/SOX-E | 220-240 | 50/60 | 6 | UNP / 20 20 | SX70 | 91549830 |
| SX 72 | 35/55 SOX/SOX-E | 220-240 | 50/60 | 6 | UNP / 20 20 | SX72 | 91561030 |
| SX 73 | 180 SOX | 220-240 | 50/60 | 3 | UNP / 48 48 | SX73 | 92005830 |
| SX 74 | 91/135 SOX/SOX-E | 220-240 | 50/60 | 6 | UNP / 20 20 | SX74 | 91569630 |
| SX 76 | 66/90 SOX | 220-240 | 50/60 | 6 | UNP / 20 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

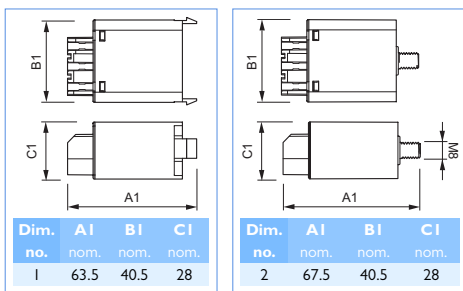
- Lightweight and compact products
- Current flows through ignitor only at lamp start-up

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



| 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 | 89568100 |
| SK 578-S | 35-600 SON/CDM/MH/HPI/HPA/CDO | 220-240 | 50/60 | 2 | UNP / 20 20 | SK578S | 89570400 |
| SKD 578 | 35-600 SON/CDM/MH/HPI/HPA/CDO | 220-240 | 50/60 | 1 | INO / 48 48 | SKD578 | 89567400 |
| SKD 578-S | 35-600 SON/CDM/MH/HPI/HPA/CDO | 220-240 | 50/60 | 2 | UNP / 20 20 | SKD 578S | 89569800 |



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

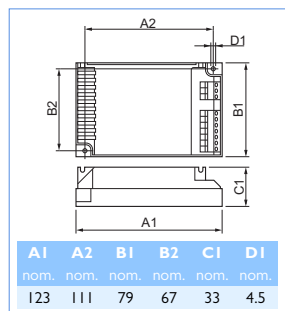
- Programmed start: flicker-free ignition in 0.5 seconds and striation-free operation, no stroboscopic effects. Preheating the lamp electrodes enables the lamps to be switched on and off without reducing life
- Smart power ensures constant light, independent of mains fluctuations, and dimming from 3 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



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

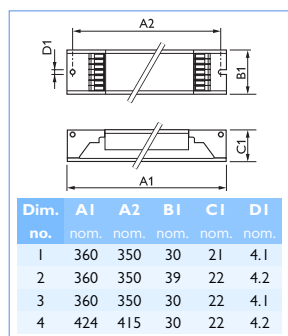
- The HF-R intelligent will recognise which lamp is connected and will drive it accordingly
- Extremely low energy consumption in stand-by (0.25 W)
- Optimised for MASTER TL5 Eco lamps
- RoHS and ISO 14000-compliant
- EEL = AI BAT (Best available technology)

Application

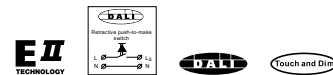
- Indoor, general and task lighting applications in combination with lighting control systems (personal control, daylight linking and/or movement detection)

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 (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 |
|--------------------------------|------------------|---------------------|-------------------------------------|-----------------------------------|-------------------------|----------|-------------------------------------|---------------------|-------------------------|
| HF-Ri TD 1x 14/21/24/39 TL5 E+ | 195-240 | 50/60 | 30 | 50,000 | AI BAT | 1 | INO / 12 12 | | 8718291 69689600 |
| HF-Ri TD 2x 14/21/24/39 TL5 E+ | 195-240 | 50/60 | 16 | 50,000 | AI BAT | 1 | INO / 12 12 | | 8718291 69691900 |
| HF-Ri TD 4x 14/24 TL5 E+ | 195-240 | 50/60 | 16 | 50,000 | AI BAT | 2 | INO / 10 10 | | 8718291 15678900 |
| 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 66205100 |
| 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 66209900 |
| HF-Ri TD 1x 35/49/80 TL5 E+ | 195-240 | 50/60 | 18 | 50,000 | AI BAT | 3 | INO / 12 12 | HFRITD13580T5PL | 8718291 66207500 |
| HF-Ri TD 2x 80 TL5/PL-L E+ | 220-240 | 50/60 | 9 | 50,000 | AI | 4 | INO / 12 12 | HFRITD280TL5/PLL | 87115009 1067730 |



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

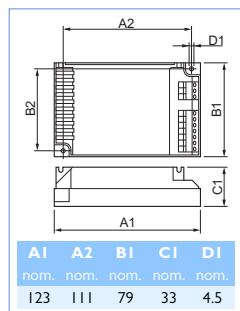
- Low stand-by losses, together with controlled dimming
- HF operation improves light quality, lamp lifetime
- Combined with controls, additional energy savings can be achieved
- Compliant with European and Asian norms and suitable for emergency lighting systems

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 (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-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 | HFRTD118PLTCEI | 91344930 |
| HF-R TD 2x 18 PL-T/C EII | 220-240 | 50/60 | 28 | 50,000 | A1 | INO / 12 12 | HFRTD218PLTCEI | 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

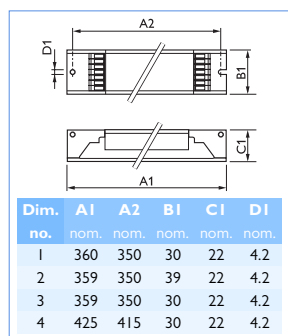
Product Features

- 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



| 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 871 1500... |
|-------------------------|------------------|---------------------|------------------------------------|-----------------------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------------------|
| 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-10 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-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

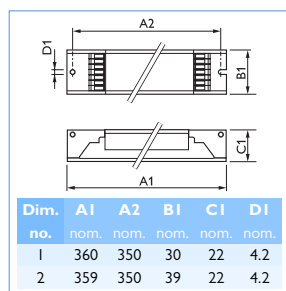
Product Features

- 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



| 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-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

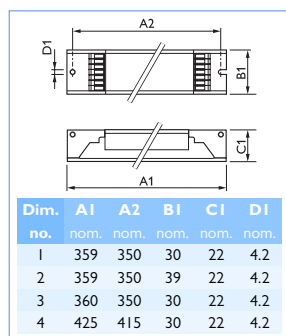
Product Features

- 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



| 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 871 1500... |
|-------------------------|------------------|---------------------|-------------------------------------|-----------------------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------------------|
| 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 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

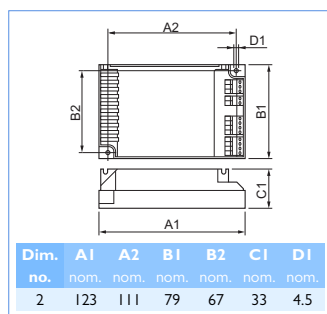
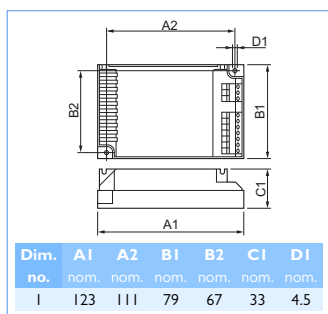
Product Features

- 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 (energy saving)
- I-10 V installations with remote control systems (comfort)
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-22
- Installations with daylight-linked and remote control systems
- Installations with infrared remote control systems
- Conference rooms
- Cinemas
- Department stores, shops, supermarkets
- Office buildings: insurance companies, banks, government ministries
- Hospitals
- Hotels



| 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-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

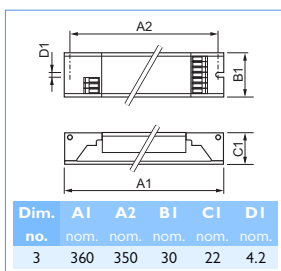
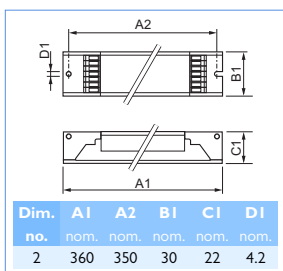
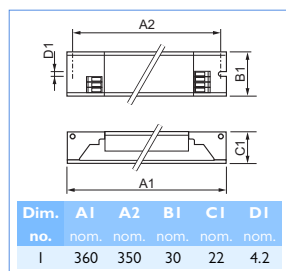
- HF-Pi offers the flexibility of a simplified product portfolio. TL5 HO/HE lamps can be exchanged, reducing the cost of logistics throughout the value chain.
- Suitable for luminaires in protection class I and, after testing, class II
- The universal connector Wago 25I offers the flexibility for horizontal-manual 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



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



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.

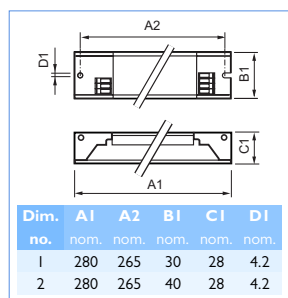
Applications

- 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

| 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 |

| 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 |
|-------------------------------|------------------|---------------------|------------------------------------|-----------------------------------|-------------------------|----------|-------------------------------------|---------------------|-----------------|
| HF-P 1x 14-35 TL5 HE III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 1 | INO / 12 | HFP11435T5HEIII | 872790090504500 |
| HF-P 2x 14-35 TL5 HE III | 220-240 | 50/60 | 28 | 53,000 | A2 BAT | 1 | INO / 12 | HFP21435T5HEIII | 872790090503800 |
| HF-P 3/4x 14 TL5 III | 220-240 | 50/60 | 28 | 100,000 | A2 BAT | 2 | INO / 10 | HFP3414TL5EIII | 871829172125300 |
| HF-P 1x 24/39 TL5 HO III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 3 | INO / 12 | HFP124TL5HOLLL | 872790095224700 |
| HF-P 2x 24/39 TL5 HO III | 220-240 | 50/60 | 20 | 50,000 | A2 BAT | 3 | INO / 12 | HFP224-39TLEIIL | 872790095226100 |
| HF-P 1x 49 TL5 HO III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 1 | INO / 12 | HFP149TL5HOIII | 872790086319200 |
| HF-P 2x 49 TL5 HO III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 1 | INO / 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 | HFP154TL5HOIII | 872790086348200 |
| HF-P 2x 54/55 TL5 HO/PL-L III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 1 | UNP / 12 | HFP254TL5HOIII | 872790086351200 |
| HF-P 1x 80 TL5/PL-L III | 220-240 | 50/60 | 15 | 50,000 | A2 BAT | 3 | INO / 12 | HFP180TLPLLEIIL | 872790095228500 |
| HF-P 2x 80 TL5/PL-L III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 4 | INO / 12 | HFP280T5PLLEIII | 872790095230800 |

HF-Performer III for TL-D lamps



An energy-efficient solution

HF-Performer III TLD is a sustainable, slim and high-frequency electronic ballast for TL-D fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy-efficient (CELMA EEI A2).

Product 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 (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 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-PII 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

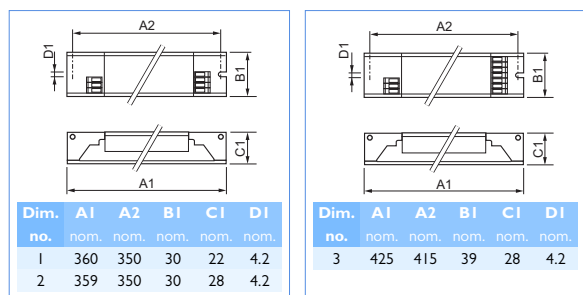
Features

- 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



| 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

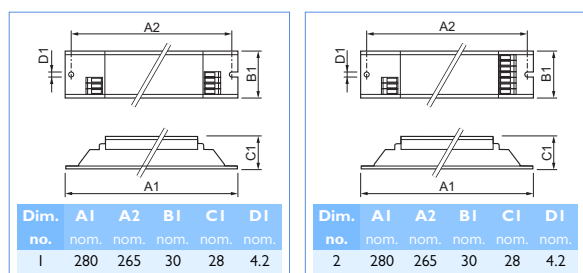
Features

- 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

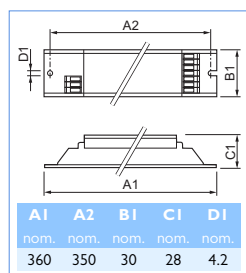
Applications:

- 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



| 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 Tcase = 85 °C; also extreme reliability and reduced failure rate of 0.1%/1,000 hours
- HF-P Xtreme gear is optimized for the unique dosing of the emitter, resulting in an optimized lamp life

Product Features

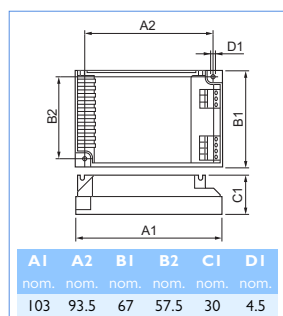
- Protects against transient voltage peaks of up to 4 kV and excessive mains voltage and incorrect connections of up to 400 V
- Programmed, flicker-free, pre-heated start (< 2.0 s) which allows the lamp to be switched on and off without reducing useful lamp life
- Active power factor correction to ensure constant light, irrespective of mains-voltage fluctuations
- Suitable for emergency lighting luminaires in accordance with IEC/EN 60598-22

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 | HFPT258TLDEII | 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

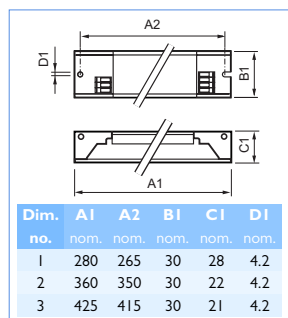
- Protected against excessive mains voltages
- Automatic stop circuit (safety stop) is activated within 5 seconds in case of lamp failure; ballast resets automatically after lamp replacement

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 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 | 92776730 |
| HF-P 1x 60 TL5C | 220-240 | 50/60 | 28 | 50,000 | A2 | UNP / 36 | 36 | HFP160TL5C | 92778130 |

HF-Performer III for PL-L lamps



An energy-efficient solution

HF-Performer III PL-T/C is a sustainable, slim and high-frequency electronic ballast for PL-L fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy efficient (CELMA EEI A2 BAT).


Product 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 | 95191200 |
| HF-P 2x 36 PL-L III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 1 | INO / 12 | 12 | HFP236PLLEIII | 95193600 |
| HF-P 1x 40 PL-L III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 1 | INO / 12 | 12 | HFP140PLLEIII | 95195000 |
| HF-P 2x 40 PL-L III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 1 | INO / 12 | 12 | HFP240PLLEIIL | 95197400 |
| HF-P 1x 54/55 TL5 HO/PL-L III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 2 | UNP / 12 | 12 | HFP154TL5HOIII | 86348200 |
| HF-P 2x 54/55 TL5 HO/PL-L III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 2 | UNP / 12 | 12 | HFP254TL5HOIII | 86351200 |
| HF-P 1x 55 PL-L III | 220-240 | 50/60 | 28 | 50,000 | A2 BAT | 1 | INO / 12 | 12 | HFP155PLLEIIL | 95199800 |
| HF-P 2x 55 PL-L III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 1 | INO / 12 | 12 | HFP255PLLEIIL | 95201800 |
| HF-P 2x 80 TL5/PL-L III | 220-240 | 50/60 | 12 | 50,000 | A2 BAT | 3 | INO / 12 | 12 | HFP280T5PLLEIII | 95230800 |



HF-Performer III for PL-T/C lamps



An energy-efficient solution

HF-Performer III PL-T/C is a sustainable, slim and high-frequency electronic ballast for PL-T and PL-C fluorescent lamps. It is ideal for applications where high energy efficiency is required. The HF-Performer III range has a robust design, meets all relevant international safety and performance standards and is energy efficient (CELMA EEI A2).

Product 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

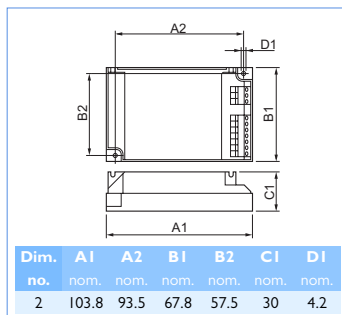
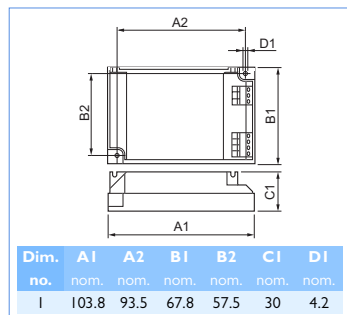
Product Features

- 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



| 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 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

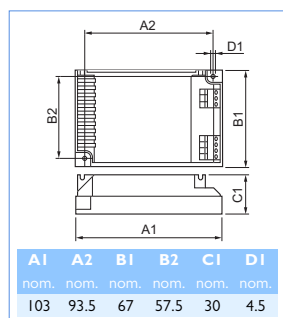
- Robust design that meets all relevant international safety and performance standards and ensures good energy efficiency
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping
- Suitable for DC emergency operation, 186 to 275 V (at -10 °C) and in line 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 (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 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 | HFP22242PLT/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

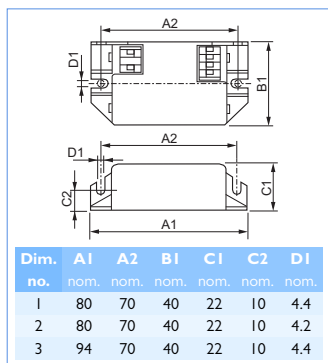
- Can be operated with movement-detection control systems.
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.
- Suitable for use in class I or class II luminaires

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



| 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 RED 1x 9 SH TL/PL-S | 230-240 | 50/60 | 159 | 40,000 | 1 | INO / 50 | HFMRED109SH | 93142930 |
| HF-M RED 1x 14 SH TL/TL5/PL-C/S | 230-240 | 50/60 | 101 | 45,000 | 2 | INO / 50 | HFMRED114SH | 93140530 |
| HF-M RED 1x 18 SH PL-C/PL-T | 230-240 | 50/60 | 73 | 40,000 | 1 | UNP / 50 | HFMRED118SH | 92802330 |
| HF-M RED 1x 24 SH TL/TL5/PL-L | 230-240 | 50/60 | 48 | 50,000 | 3 | UNP / 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

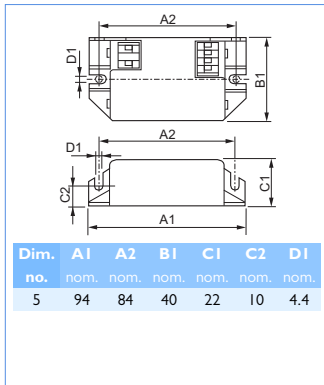
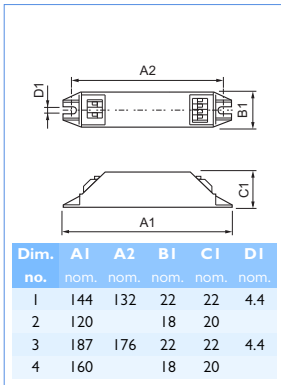
Product Features


- 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



| 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 | 53678530 |
| HF-M BLUE 1x 9 LH TL/PL-S | 230-240 | 50/60 | 159 | | 1 | UNP / 50 | 50 | HFMBLUE109LH | 53680830 |
| HF-M BLUE 1x 9 LP TL/PL-S | 230-240 | 50/60 | 159 | | 2 | UNP / 432 | 432 | HFMI09LP | 53692130 |
| HF-M BLUE 1x 14 LH TL/PL-S/PL-C | 230-240 | 50/60 | 101 | | 1 | INO / 50 | 50 | HFMBLUE114LH | 53682230 |
| HF-M BLUE 1x 14 LP TL/PL-S/PL-C | 230-240 | 50/60 | 101 | | 2 | UNP / 432 | 432 | HFMI14LP | 53694530 |
| HF-M BLUE 1x 21 LH TL5 | 230-240 | 50/60 | 59 | | 3 | UNP / 50 | 50 | HFMBLUE121LH | 53646430 |
| HF-M BLUE 1x 21 LP TL5 | 230-240 | 50/60 | 59 | | 4 | UNP / 216 | 216 | HFMI21LP | 53648830 |
| HF-M BLUE 1x 24 SH TL/TL5/PL-L mkl | 230-240 | 50/60 | 60 | 25,000 | 5 | INO / 50 | 50 | HFMBLUE124SH | 53638930 |
| HF-M BLUE 1x 24 LH TL/TL5/PL-L | 230-240 | 50/60 | 60 | | 3 | UNP / 50 | 50 | HFMBLUE124LH | 53640230 |
| HF-M BLUE 1x 28 LH TL5 | 230-240 | 50/60 | | | 3 | UNP / 50 | 50 | HFMBLUE128LH | 93243330 |



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

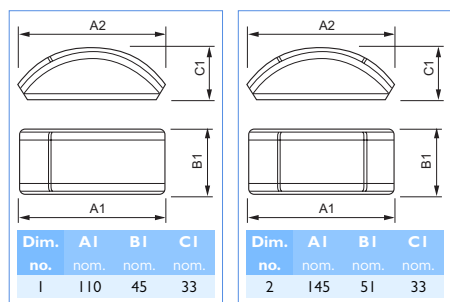
- Three levels of protection: over-voltage, over-temperature and short circuit
- Long lifetime: 50,000 hours
- Dimming possible with Philips-approved Leading and Trailing Edge dimmers
- Possible to connect two lamps for 70 and 105 W, and three lamps for 150 W

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



| 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 | PLINEHAL150 | 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

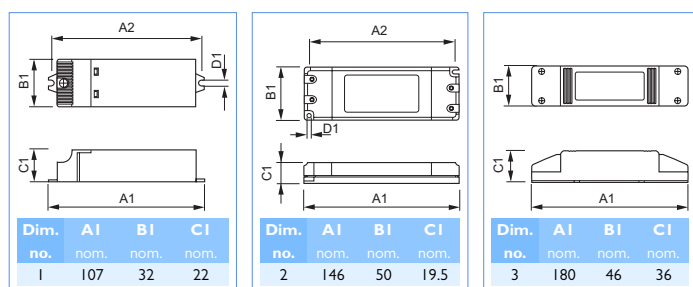
- Long lifetime: 20,000 hours
- Dimming possible with Philips-approved Trailing Edge dimmers
- Possible to connect two lamps for 105 W, and three lamps for 150 W


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



| 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 | 91378430 |
| Certaline 105W | 230-240 | 50/60 | 35-105 | 20,000 | 2 | ICT / 100 100 | CERTALINE105W | 91380730 |
| Certaline 150W | 230-240 | 50/60 | 50-150 | 20,000 | 3 | ICT / 50 50 | CERTALINE150W | 91385230 |



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

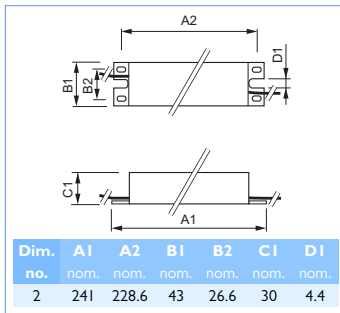
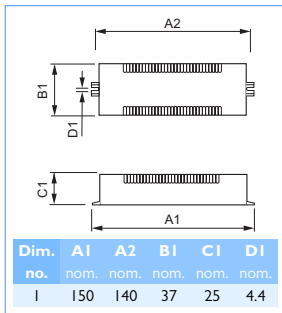
- SELV operating voltages ensure safety even if wiring or LED boards become damaged
- Easy installation with simple parallel wiring
- Excellent reliability


Product Features

- Stable output voltage
- Robust protection against moisture
- Minimum 50,000 h lifetime

Application

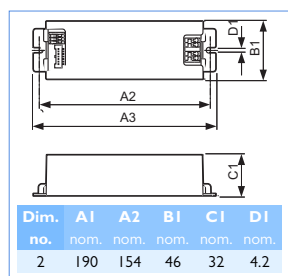
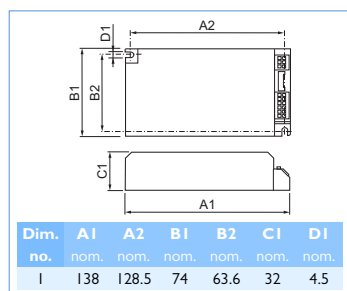
- Refrigerated display lighting
- Signage applications - channel letter and contour lighting
- Architectural and decorative lighting



| 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-102
- 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 | DLM1100-3000FO | 872790092085700 |
| Xitanium 25W LH 0.3-1A 36V I 230V | 220-240 | 50/60 | 2 | INO / 10 | | 871829166808400 |

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

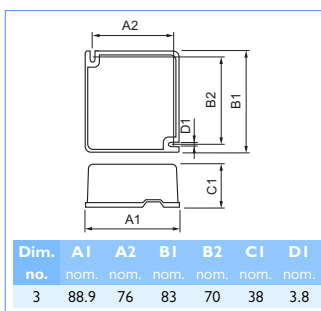
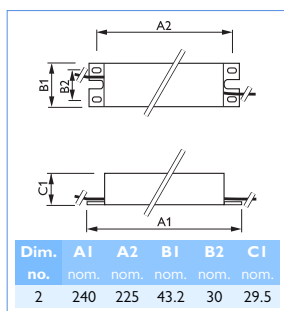
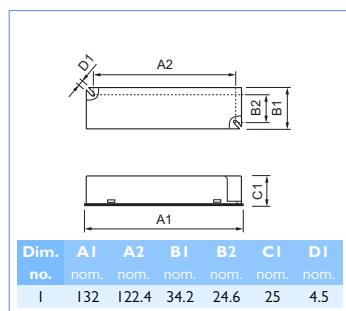
- Excellent reliability
- Wide range of form-factors and wattages to match all application needs

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



| Type | Input Voltage Range (AC) (V) | Input Frequency (Hz) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8711500... |
|---------------------------------------|------------------------------|----------------------|----------|--|---------------------|----------------------------|
| LED Driver Outdoor 12W/0.35A-33V 230V | | 50 | 1 | INO / 10 | XTMSELV0.35A12W | 93045330 |
| LED Driver Outdoor 67W/2.80A-24V 230V | | 50 | 2 | INO / 20 | XTMSELV2.80A67W | 93120730 |
| LED Driver Outdoor 40W/1.75A-24V 230V | 207-264 | 50 | 3 | INO / 12 | XTMSELV1.75A40W | 91273230 |

Xitanium Constant Current Xtreme



Breakthrough in performance, flexibility and reliability

Xitanium Xtreme LED drivers provide constant current output, optimal for a single string of LEDs. With exceptional operating efficiency, our drivers significantly reduce energy costs. The Xitanium Xtreme portfolio offers both central and standalone dimming protocols further increasing the energy savings and CO₂ reductions achieved with LED lighting. The fully programmable drivers deliver all dimming options and a range of currents in a single driver. System reliability is maximized with intelligent temperature monitoring of the LED light engine. The full portfolio offers maximum flexibility with customizable operating settings, delivering optimal performance tailored for each design.

Product Benefits

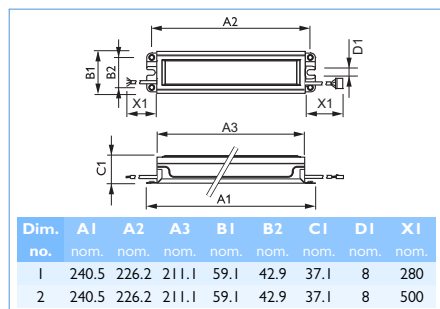
- Design flexibility - one driver can be programmed for many different luminaire designs
- Improved logistics and stock management
- Peace of mind on product performance

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



| Type | Input Voltage Range (AC) (V) | Input Frequency (Hz) | Dim. no. | Packing type/ Packing configuration | National Order Code | Ordering number 8727900... |
|-------------------------------------|------------------------------|----------------------|----------|--|---------------------|----------------------------|
| Xitanium 150W 0.70A 230V sXt | 220-240 | 50/60 | 1 | UNP / 10 | XTM0.70A150W | 80917600 |
| Xitanium 150W 0.35-0.7A GL Prog sXt | 120-277 | 50/60 | 2 | UNP / 10 | XIT150WPROG | 78351300 |

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

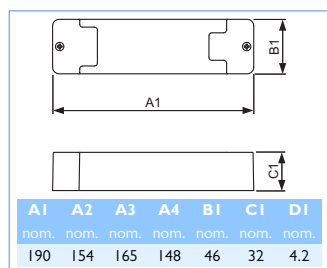
Application


- 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: 65I3U-I02
- Jung–licht management: 225T DE
- Siemens 5TC8 284
- PEHA Tronic-Dimmer 433 HAB
- Wuyun W13-C 162
- Everflourish EFE700D



| Type | Input Voltage Range (AC) | Input Frequency | Packing type/ Packing configuration |  National Order Code | Ordering number |
|-------------------------------------|--------------------------|-----------------|--|---|-------------------------------|
| Xitanium 17W 0.3-0.7A 24V TE/I 230V | (V) 220-240 | (Hz) 50/60 | INO / 10 | 10 XTMI17W24VTEI | 8727900... 90729200 |

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

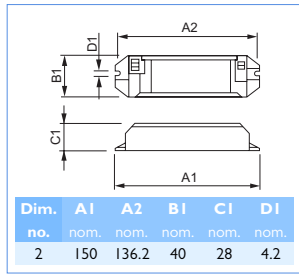
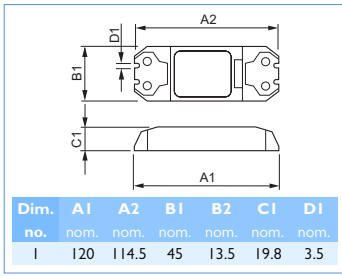
- Excellent dimming performance - no dimming steps visible
- No humming, no flickering
- Independent thanks to its cable strain relief clamp (for 10w only)


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 (Hz) | Dim. no. | Packing type/ Packing configuration |  | National Order Code | Ordering number 8710163... |
|--------------------------------------|----------------------|----------|--|---|---------------------|----------------------------|
| Xtanium LED Driver 10W/0.70A-14V DIM | 50/60 | 1 | UNP / 36 | 36 | XTM-DIMMABLE10W | 06416130 |
| Xtanium LED Driver 30W/0.70A-42V DIM | 50/60 | 2 | UNP / 20 | 20 | XTM-DIMMABLE30W | 06421500 |





Installer Based Smart Sensors ⇨



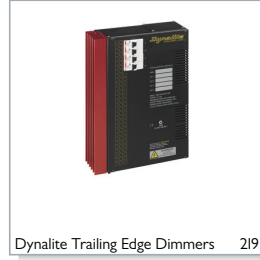
Installer Based Systems



Indoor Accessories



Indoor Lighting Management Systems ⇨



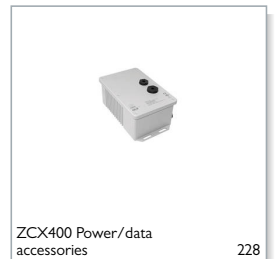
Luminaire Based Systems ⇨



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 m².

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

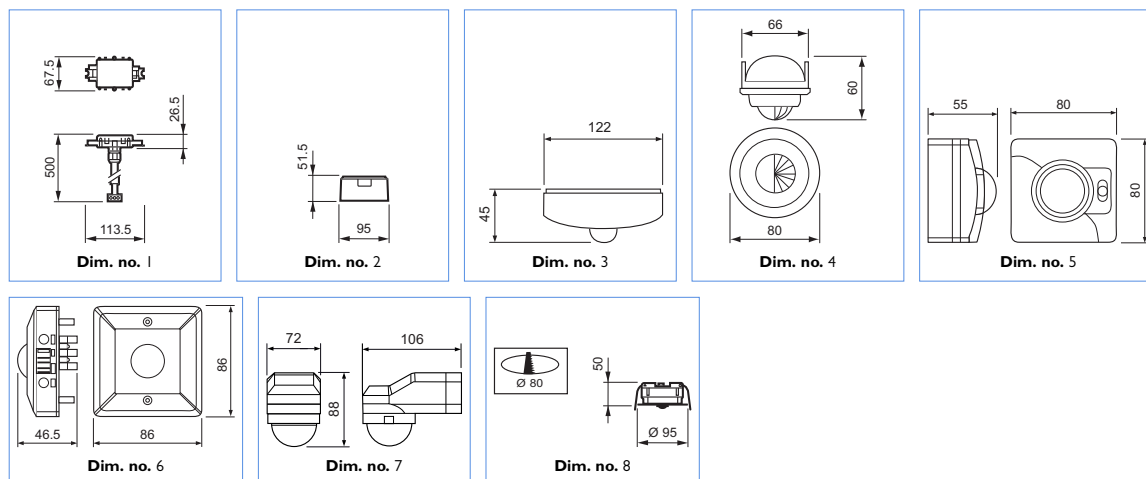
- Energy savings of up to 30% and good pay-back
- Works with almost all lamp- and luminaire types
- Easy to install, enables even faster installation by optional Wieland connectors.


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 731773 99 |
| LRH1070/00 SENSR SURFACE | 2 | ICT / 42 | 42 | 8711559 731438 99 |
| LRM1000 OS mov det | 3 | ICT / 48 | 63 | 8718291 225577 00 |
| LRM1010 OS mov det small | 4 | ICT / 75 | 80 | 8718291 225614 00 |
| LRM1020 OS mov det corridor | 5 | ICT / 75 | 120 | 8718291 225638 00 |
| LRM1030 OS mov det switch 3 wire | 6 | ICT / 75 | 30 | 8718291 225652 00 |
| LRM1040 OS mov det IP55 240dgr | 7 | ICT / 32 | 36 | 8718291 225737 00 |
| LRM1070/00 SENSR MOV DET ST | 8 | ICT / 42 | 42 | 8711559 731384 99 |
| LRM1080/00 SENSR MOV DET ST IR | 8 | ICT / 42 | 42 | 8711559 731407 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) (LRM18118) and push-button interface(s) (LCU2070).

Separate Wieland cables available for easy, fast and trouble-free installation.

Benefits

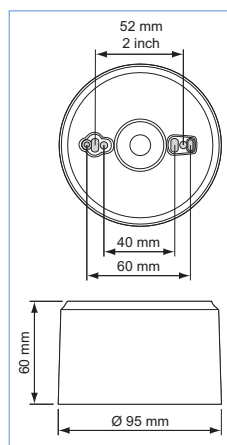
- Energy savings of up to 55% and good TCO
- Adds comfort with local control
- Easy to use (works right out of the box) but also easy to adapt to specific applications or user demands


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 | 871 1559 732480 99 |
| LCC2080/00 CABLE ADV + BMS | IBG / 18 | 18 | 871 1559 732503 99 |
| LCU2070/00 PBU | IBG / 50 | 50 | 8727900 870268 00 |
| LRH2070/00 SURFACE BOX | ICT / 42 | 42 | 871 1559 732527 99 |
| LRM2070 BASIC | ICT / 42 | 42 | 871 1559 732305 99 |
| LRM2080 ADVANCED | ICT / 42 | 42 | 871 1559 732343 99 |

OccuSwitch Wireless



A wide range of wireless sensors with movement detection to control an area of 20-25 m². 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.

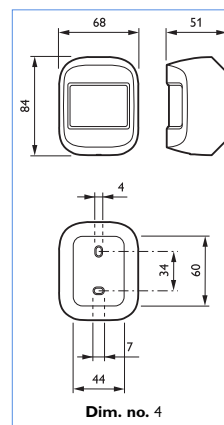
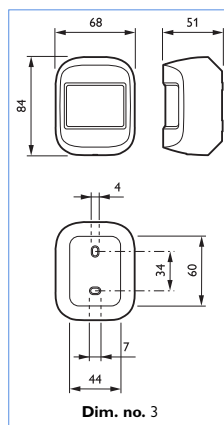
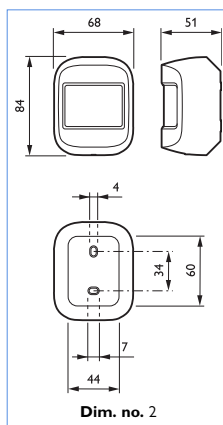
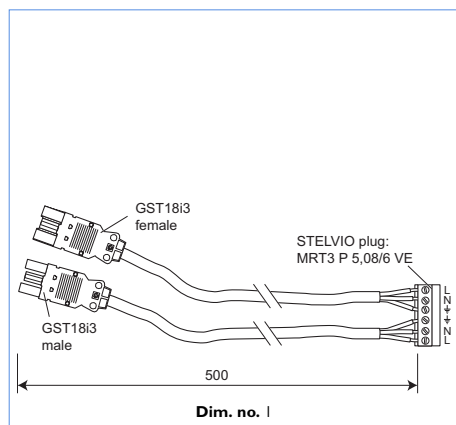
- Offers an easy-to-apply solution, especially for existing non-electronic (EM) lighting systems.
- Wireless sensor can be mounted in various places and offers maximum flexibility. The actuator is designed for any wiring system.


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

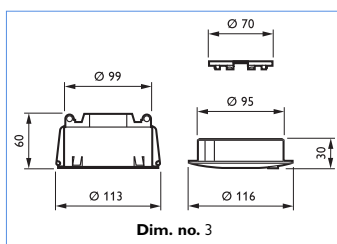
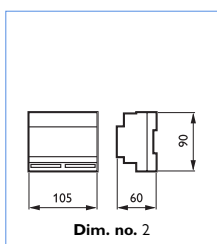
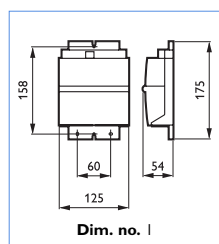
- Highly versatile through the use of separate sensors and a low-voltage sensor bus
- Applicable in many (larger) area's, capable of savings huge amounts of energy, for instance up to 70% in gymnasiums and distribution centers
- Gives a good pay-back and TCO in larger applications


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 | 73195799 |
| LRCI035/10 Contr IXI Prog St Sw & R | 2 | ICT / 12 | 12 | 73196499 |
| LRL8102/00 HighBay Sensr | 3 | UNP / 1 | 1 | 51720900 |

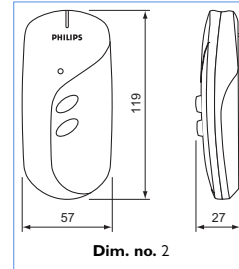
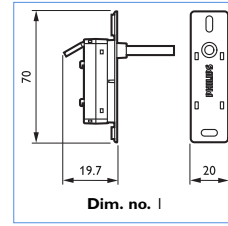
Indoor Accessories




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 8711559... |
|-------------------------------------|----------|------------------------------------|---|----------------------------|
| 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 | | 53518000 |
| PLC-KNX | KNX PLC | | 53520300 |
| PPMI4-DALI | DALI dry contact interface for integration of 3rd party switches in combination with DALI | | 53524100 |
| PLPC905GL-3-HD-KNX | Dim actuator for structured wiring solutions, Wieland 3-pole, heavy duty | | 53526500 |
| PIPE-KNX-4P-2G | Double KNX switch with 4 positions | | 53528900 |
| PIPE-KNX-2P-2G | Double KNX switch with 2 positions | | 53530200 |
| PLPC905GL-4-HD-KNX | Dim actuator for structured wiring solutions, Wieland 4-pole, heavy duty | | 53536400 |
| PIPE-KNX-2P | KNX switch with 2 positions | | 53534000 |
| PLPC905GL-3-KNX | Dim actuator for structured wiring solutions, Wieland 3-pole | | 53372800 |
| PLOS-CM-KNX | KNX Multi sensor | | 53374200 |
| PDBC120-DALI-KNX | DALI MultiMaster actuator | | 53378000 |
| PDRC1216FR-KNX | Relay actuator with 12 channels | | 53512800 |
| PLPC905GL-4-KNX | Dim actuator for structured wiring solutions, Wieland 4-pole | | 53508100 |
| PDRC816FR-KNX | Relay actuator with 8 channels | | 53510400 |
| PDRC416FR-KNX | Relay actuator with 4 channels | | 53514200 |
| PLOS-CM-DALI | DALI multi sensor for DALI multi master actuator | | 53516600 |
| PIPE-KNX-4P | KNX switch with 4 positions | | 53532600 |

Dyalite Leading Edge Dimmers



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

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 | | 50504600 |
| DLE 220-S | | 50506000 |
| DLE 405 | | 50516900 |
| DLE 410 | | 50526800 |
| DDLE 802 | | 50500800 |
| DLE 1203 | | 50536700 |
| DLE 1205 | | 50542800 |


More data see next page

(continued)

| Type |  | Ordering number 8710163... |
|--------------|---|----------------------------|
| DLE 1210 | | 50554100 |
| DLE 1210GL | | 50568800 |
| DLE 1220GL-S | | 50572500 |

Dynalite Trailing Edge Dimmers



| Type |  | Ordering number 8710163... |
|----------|---|----------------------------|
| DTE 310 | | 50584800 |
| DTE 1210 | | 50586200 |

Dynalite Multipurpose Controllers



Dynalite 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 Dynalite 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 | | 8718291 55025900 |
| DDRC GRMSPLUS | | | 8718291 57130800 |
| DDMC 802-GL | | | 8710163 50613500 |
| DDMC 802 | | | 8710163 50594700 |
| DMC 810GL | | | 8710163 50632600 |

Dynalite HF Ballast Controllers



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


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 | | 50636400 |
| DDBC 300-DALI | | 50641800 |
| DDBC 320-DALI | | 50642500 |
| DBC 410 | | 50648700 |
| DBC 905W | | 50674600 |
| DDBC 1200 | | 50644900 |
| DBC 1205 | | 50656200 |
| DBC 1210 | | 50660900 |
| DBC 1220GL | | 50668500 |

Dynalite 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 Dynalite 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 | | 50688300 |
| DDRC 420FR | | 50690600 |
| DDRC 810-GL | | 50692000 |
| DRC 810DT | | 50706400 |
| DRC 1205 | | 50708800 |
| DRC 1210 | | 50714900 |
| DRC 1220GL | | 51060600 |

Dynalite 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 Dynalite 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 Dynalite 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 | | 50790300 |
| DIR TX8 | | | 50772900 |
| DDMIDC 8 | | | 50784200 |
| DDFCUC 024 | | | 50782800 |
| DNG 100BT | | | 50793400 |
| DMNG 100BT | | | 50776700 |
| DMNG 232 | | | 50778100 |
| DDNG 485 | | | 50787300 |
| DDNI 485 | | | 50788000 |
| DNG 485 | | | 50796500 |
| DPMI 940 | | | 50780400 |

Dynalite Network Accessories



Sophisticated yet simple energy-efficient lighting solutions

To bring all the different devices together, Philips Dynalite 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 | | 50808500 |
| DTK 622-USB-J | | 50804700 |
| DDNP 1501 | | 50806100 |

Dynalite Sensors



Sophisticated yet simple energy-efficient lighting solutions

The Philips Dynalite 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 | 50722400 |
| DTS 900 | 50736100 |

Dynalite Time clocks



Sophisticated yet simple energy-efficient lighting solutions

Philips Dynalite 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 | 50740800 |
| DTCE 602 | 50742200 |

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 | 5076200 |

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 67049000 |
| PATPA VVW-X | Button and rim finish white, no button labels | I | 871829 70824700 |
| PATPA WA-X | | I | 871829 70826100 |
| PATPA WC-X | | I | 871829 70828500 |
| PATPA WB-X | | I | 871829 70830800 |
| PATPA BW-X | | I | 871829 70832200 |
| PATPA BA-X | | I | 871829 70834600 |
| PATPA BC-X | | I | 871829 70836000 |
| PATPA BB-X | | I | 871829 70838400 |
| DTP 100 | | I | 8710163 50744600 |
| DUS 804C | | I | 8710163 50729300 |
| DPNE 963-SF | | I | 8710163 50818400 |

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

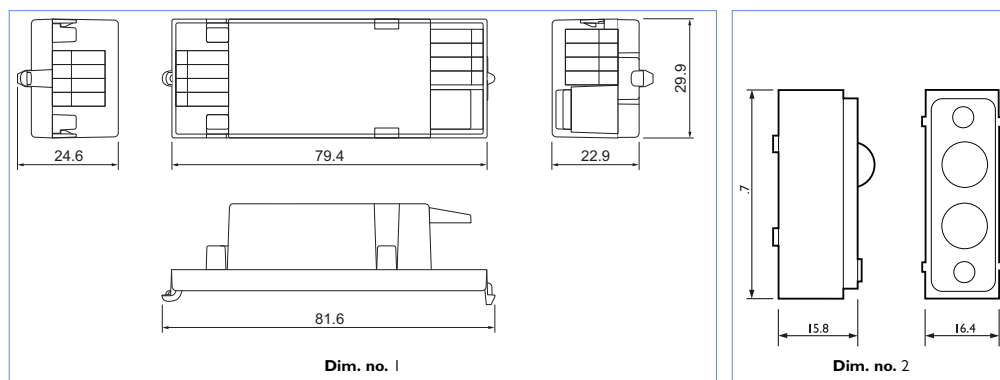
Features

- 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.

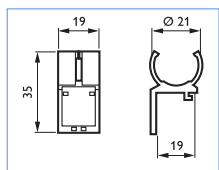
Application

- 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 | 871150091042430 |
| LRI1663/00 ActiLume gen2 Multi-Sensor | 2 | ICT / 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 | 67012630 |
| LRLI220 TL5 | 1.5V | UNP / 100 | 100 | 67010230 |

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

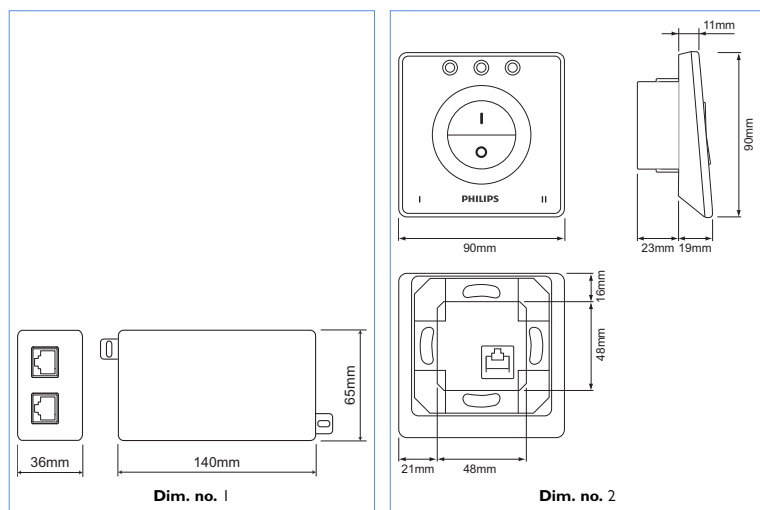
- Allows user to set preferred lighting mood to suit the occasion
- Easy to install and customize – plug and play


Features

- Glowing light ring provides feedback with light
- DMX- Dali and RCS- 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 TOBETOUCHED PSU | I | ICT / I | I | 88683200 |
| UID8540 TOBETOUCHED COLOR DMX | 2 | ICT / 10 | 10 | 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 70058599 |
| SSLCTR IPLAYER3 AUX BOX 100-277V CE CQC | iPlayer 3 auxiliary box | CE | 7 | 8 | 8718291 37704799 |

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 | Dim. no. |  | Ordering number 8727900... |
|----------------------------|---|---------|----------|---|----------------------------|
| SSLCTR LRC9626 VSM PRO DVI | Video system manager Pro, digital video | CE | 1 | | 71559000 |

Tools & Accessories



| Type | Type description | CE mark |  | Ordering number |
|--------------------------------------|---------------------------------------|---------|---|-------------------------|
| SSLCTR LRC9627 ETHERNET KEYPAD (POE) | Ethernet keypad (Power over Ethernet) | CE | 10 | 8717943 70064699 |
| SSLCTR LRC9629 SERIAL KEYPAD | Serial keypad | CE | 10 | 8727900 71405099 |

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 | 1 | 37767299 |

ZCX400 Power/data accessories



| Type | Type description | CE mark | Dim. no. |  | Ordering number |
|--|---|---------|----------|---|-------------------------|
| ZCX400 DATA TERMINATOR | Data terminator | | | 500 | 8727900 71049699 |
| ZCX400 DMX512 ADAPTER CABLE | DMX512 adapter cable | | | 50 | 8727900 71050299 |
| ZCX400 PDS-150E | Power/data supply, 150 W, E version | CE | 1 | 2 | 8727900 71081699 |
| ZCX400 PDS-60 24V | Power/data supply, 60 W 24 V | CE | 2 | 4 | 8727900 71085499 |
| ZCX400 PDS-60 24V DMX/ ETHER | Power/data supply, 60 W 24 V, DMX/Ethernet | CE | 2 | 4 | 8727900 71086199 |
| ZCX400 PDS-60CA 24V | Power/data supply, 60 W 24 V, CA version | | 2 | 4 | 8727900 71084799 |
| ZCX400 PDS-60CA 24V DMX | Power/data supply, 60 W 24 V, CA version, DMX | | 2 | 4 | 8727900 71560699 |
| ZCX400 PDS-60CA 7.5V DMX/ ETHER | Power/data supply, 60 W 7.5 V, CA version, DMX/Ethernet | | 2 | 4 | 8727900 71083099 |
| ZCX400 PDS-60CA EXP CARD | Power/data supply, 60 W expansion card | | 2 | 4 | 8727900 71082399 |
| ZCX400 PDS-70MR 24V DMX | Power/data supply, 70 W 24 V, MR version, DMX | CE | | 4 | 8727900 71088599 |
| ZCX400 SPDS-480CA 24V-480W 8PORTS | 8-port SPDS-480CA, 24 V 480 W | CE | 3 | 1 | 8727900 71099100 |
| ZCX400 SPDS-480CA 7.5V-480W 16PORTS | 16-port SPDS-480CA, 7.5 V 480 W | CE | 3 | 1 | 8727900 71096000 |
| ZCX400 SWITCH UNMANAGED 4 POE PORT Gb (4 | Unmanaged switch 4 POE port, 48 V | | | 6 | 8718291 37658399 |

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

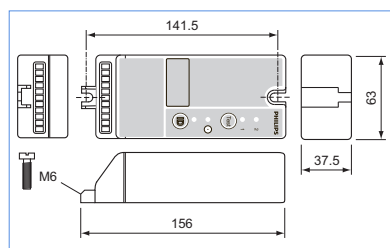
- Allows installation of dynamic LED lighting without replacing existing cabling.
- Ideal for situations where re-wiring is not desirable or feasible.
- Allows flexible standard mains wiring schemes (mains plug & socket-based) to not only power but also control Philips Color Kinetics Powercore fixtures, 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... 60262099 |

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

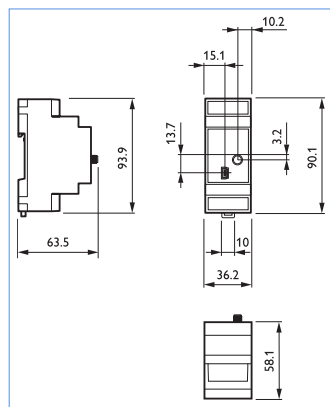
- highways, roads or street lighting in general, including residential areas

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 73281799 |
| LRV7310/00 Outd. Configuration Assistant | ICT / 1 | 1 | 8718291 12626300 |

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

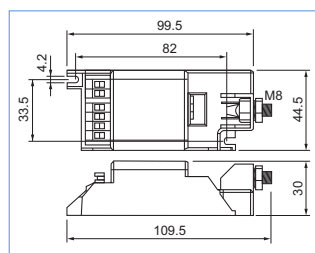
Applications

- 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 | 5474400 |
| LRV7310/00 Outd. Configuration Assistant | ICT / I | I | 12626300 |



Dynadimmer



Dynadimmer - different ways

Luminaire based, stand-alone controller for I-10 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 CO₂ 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

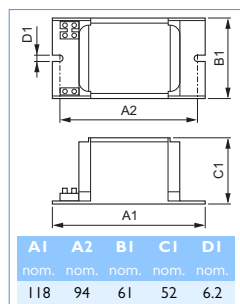
- Each Dynadimmer can control a driver-lamp combination in a stand-alone manner
- Designed for use in road, street, residential and area lighting applications including parking lots, ports, train stations and industrial complexes
- The design of the Dynadimmer is optimized for mounting in a luminaire or gear tray
- The Philips Dynadimmer is designed and released to interact with Philips I-10 V gear and is compatible with dimmable drivers with a standard I-10 V interface

System

- Operates any I-10 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 | 90057600 |
| LLC7220/00 DYNADIMMER SELV | UNP / 48 | 48 | 88138700 |

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 luminaries 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... |
|--------------------|----------------|----------------|--|--|---------------------|----------------------------|
| BSH 2540 K3067 SON | (V) 220-240 | (Hz) 50/60 | INO / 6 | 6 | BSH2540K30 | 94035000 |


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

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

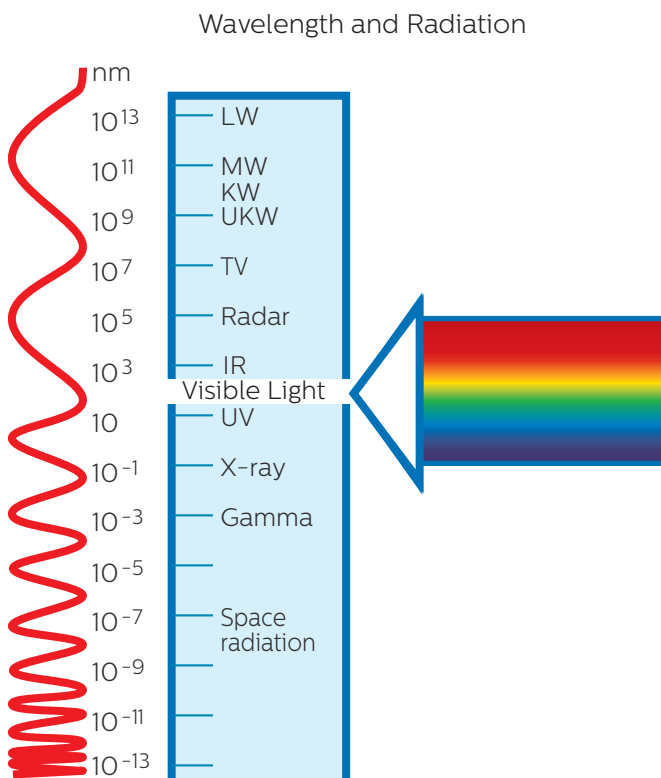
Radiation

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 μ m
 IR-B 1,4 μ m – 3,0 μ m
 IR-C 3,0 μ m – 1,0 mm

Visible radiation:

Light 380 nm – 780 nm

UV-C radiation has a bactericide effect and causes erythem (redness of the skin) and conjunctivitis. Radiation with wavelengths under 200 nm generates ozone from oxygen. UV-B radiation causes erythem and generates vitamin D in the body. UV-A radiation tans the skin without causing a sunburn. It stimulates certain substances to generate fluorescence and is therefore used to analyze cheques and bank notes as well as to create decorative effects in advertising. Infrared radiation (IR) is being absorbed by material and transformed into heat especially in the shortwave range.

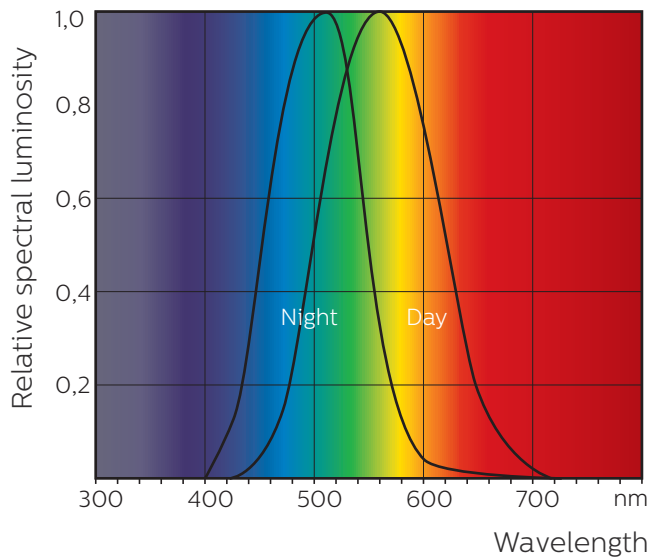
The spectrum of visible radiation (light) can be subdivided into various wavelength ranges, causing certain colour sensations in the human eye:

| | | | |
|--------|-----------------|--------|-----------------|
| violet | 380 nm – 436 nm | yellow | 566 nm – 589 nm |
| blue | 436 nm – 495 nm | orange | 589 nm – 627 nm |
| green | 495 nm – 566 nm | red | 627 nm – 780 nm |

3. Spectral luminosity of the eye

The human eye exhibits various sensitivities to visible radiation depending on its wavelength. Although possessing the same efficiency, a light stimulus of 555 nm e.g. is perceived as much brighter than light stimuli of 400 nm (violet) or 700 nm (red). The CIE has defined the spectral luminosity $V(\lambda)$ for the normal sighted eye in daylight and $V'(\lambda)$ for sight during the night depending on the respective wavelength.

Spectral Luminosity



4. Spectrum

White sunlight is made up of electro-magnetic waves of various lengths. Guiding a narrow beam of sunlight through a glass prism displays a colour spectrum similar to the one we see in a rainbow. During the generation of a rainbow the numerous raindrops in the air act as prisms breaking up the sunlight. Each colour represents a distinctive wavelength. All light waves taken together create the impression of white light

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:

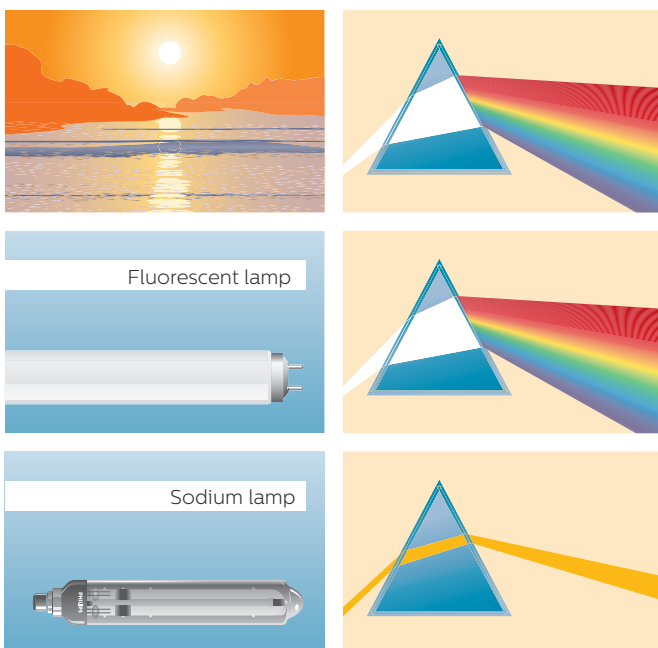
$$FR = 0,02 \times DF \times E \times t$$

FR = Fading risk DF = Damage factor

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

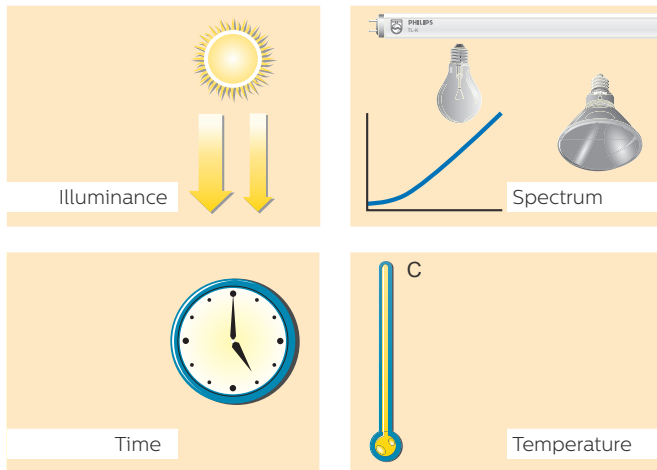
A FR of 100 represents the exposure to light in a shop window during summer with bright sunshine for one hour.

Light Source and Spectrum

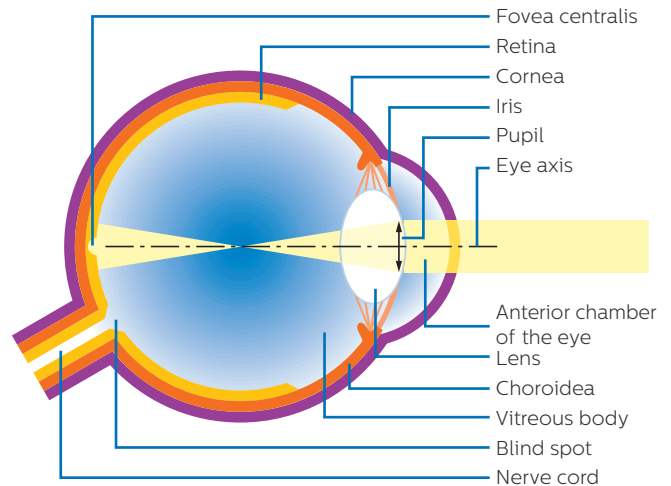


| Type of lighting | Damage factor |
|---|---------------|
| Daylight through 4 mm window glass | 0,43 – 0,68 |
| Incandescent lamps | 0,08 |
| Halogen lamps open | 0,20 |
| Halogen lamps with envelope or UV block | 0,12 |
| SDW-T lamps | 0,10 |
| Metal halide lamps open | 0,50 |
| Metal halide lamps 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



The Eye – A Camera



6. Black body

The black body is an ideal thermal radiator which absorbs all occurring radiation. It neither transmits nor reflects radiation. Its radiation characteristics are known in detail and can be precisely calculated for all wavelengths and temperatures. The major part of the radiation is emitted in the infrared range. The radiance increases considerably with rising temperatures, causing a shift of the maximum to the shorter wavelengths. Efficient light generation with thermal radiators therefore requires the highest possible temperatures, using materials with high fusion temperatures.

7. The eye

The clear transparent cornea accounts for the major part of the eye's refractive power, making it possible to create an image of the perceived object on the retina. The anterior chamber of the eye gives the lens the required room for accommodation. The iris functions as aperture and the pupil restricts the light incidence. The retina contains the receptors for the light stimulus. These are on the one hand 130 million rods enabling vision even in twilight and at night without colour perception though. On the other hand, the 7 million cones of the retina enable vision in daylight and the perception of colours. The lens' radius of curvature is variable and can thus adapt the eye to the respective distance of vision. At the spot where the nerve cord exits the eye the retina contains neither rods nor cones, it is therefore also called blind spot. At the level of the optical axis there is a high concentration of cones. This designates the area of sharp vision, called fovea centralis.

8. Adaptation

The eye's ability to adjust itself to varying luminances by modifying the pupil's aperture is called adaptation, enabling a constant visual power over a wide range of illuminances. The time sequence of the adaptation depends primarily on the luminance at the beginning and end of the adaptation. If the illuminance changes from light to dark (dark adaptation) the duration of the adaptation is very long (over 30 min.). Light adaptation (from dark to light) is much quicker.

9. Contrast and contrast sensitivity

Objects can be distinguished primarily on the basis of the difference in luminance and colour between the object and its immediate surroundings. Subjective contrast is the evaluation of the difference between two directly consecutive impressions. The objective definition of the luminance contrast L_c is expressed in the following equation:

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

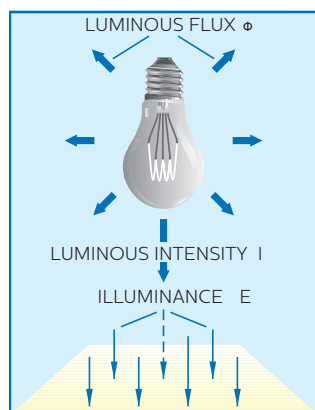
L_1 = Luminance of the background

L_2 = Luminance of the object

The contrast sensitivity expresses the least possible luminance contrast the eye can discern. Contrast sensitivity is influenced by the luminance, the adaptation of the eye and other ambient conditions such as glare from light sources in the visual field.

Units and Formulas

1. Variables and units in lighting technology



| Variable | Symbol | Unit | Definition |
|--------------------|--------|---|---|
| Luminous flux | Φ | Lumen (lm) | The light of a light source |
| Luminous intensity | I | Candela (cd) | Intensity of the light output in a specific direction (luminous flux/solid angle) |
| Illuminance | E | Lux (lx) | Luminous flux incident on a surface area divided by the size of the surface area |
| Luminance | L | cd/m ² cd/cm ² | Luminous intensity of a light emitting surface divided by the size of the perceived surface or: the brightness of a diffuse reflecting surface, determined by multiplying illuminance with reflectance divided by p |

2. Operating ratios in lighting technology

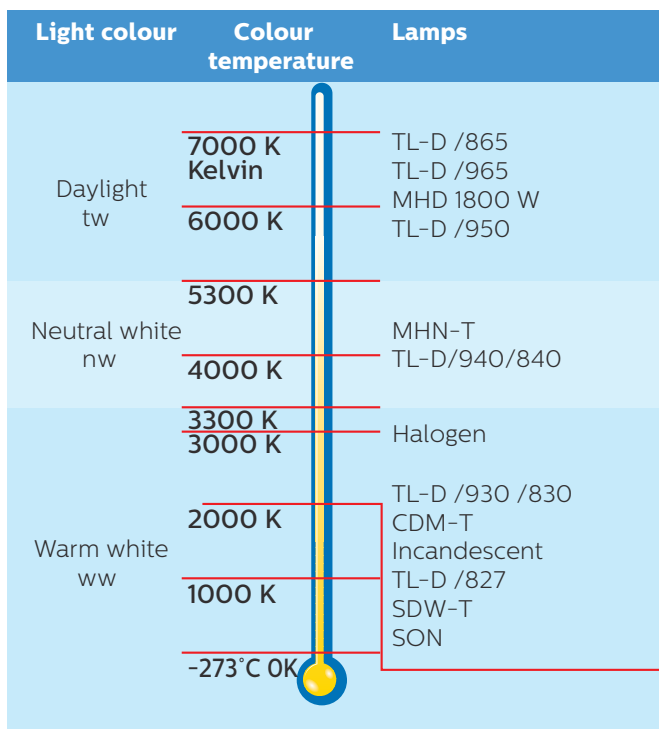
| Variable | Symbol | Ratio | Definition |
|-------------------------------------|-------------|---|---|
| Luminous efficacy of a light source | η | $\eta = \frac{\Phi_{Lp}}{P}$ | Emitted luminous flux divided by the power input of the lamps |
| Light output ratio | η_{LB} | $\eta_{LB} = \frac{\Phi_L(t_L)}{\sum \Phi_{Lp}}$ | Ratio of the total flux of the luminaire, measured under specific practical conditions, to the sum of the individual luminous fluxes of the lamps operating outside the luminaire under specific conditions |
| Utilance | η_R | $\eta_R = \frac{\Phi_N}{\sum \Phi_L}$ | Ratio of a lighting installations' luminous flux on the utilized area to the total flux emitted to the room by the luminaires |
| Utilization factor | η_B | $\eta_B = \frac{\Phi_N}{\sum \Phi_{Lp}}$ $\eta_B = \eta_R \cdot \eta_{LB}$ | Emitted luminous flux on the utilized area divided by the total flux of all the lamps in a lighting installation |

Lighting 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.

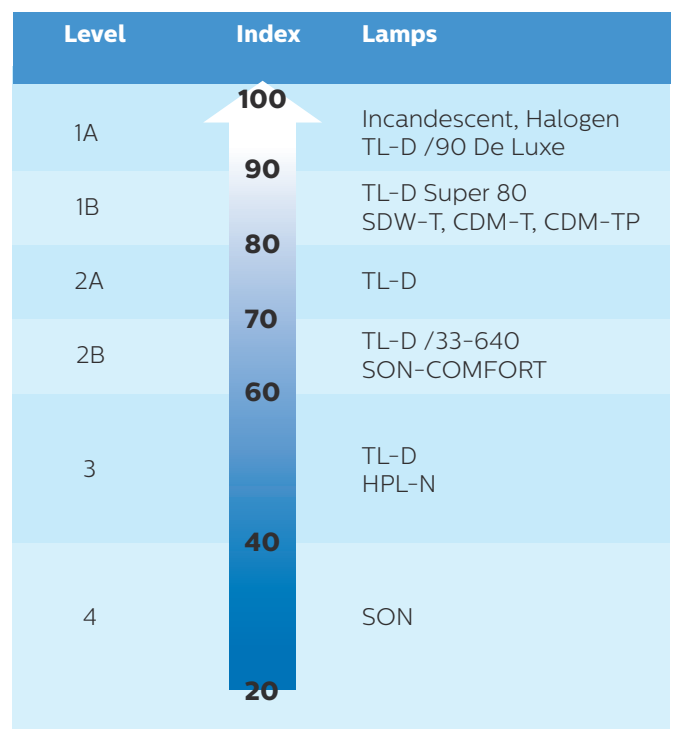
Quality Index — Light Colour



2. Colour rendering

The general colour rendering index Ra, derived from a set of eight test colours taken from everyday life, is used to evaluate the colour rendering characteristics of a lamp. Its theoretical maximum value is 100. The lower the colour rendering index the worse the colour rendering characteristics of the lamp. For practical purposes the colour rendering indices are divided into different levels. DIN EN 12464-1 states six of these levels. Lamps of level 1A are used in applications requiring a colour rendering as close as possible to the natural appearance, e.g. in the printing trade, museums, textile and leather goods shops.

Quality Index — Colour Rendering



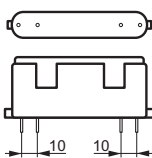
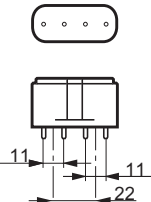
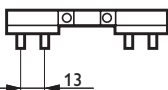
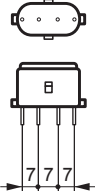
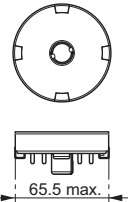
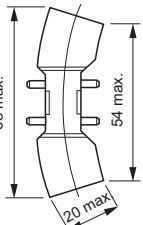

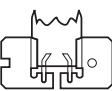
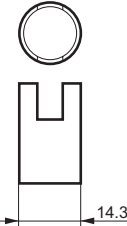
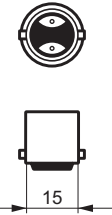

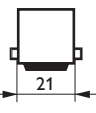

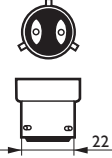
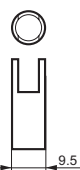

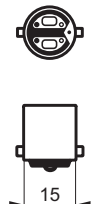
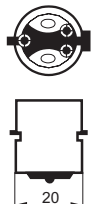
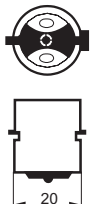


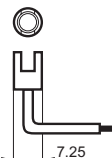
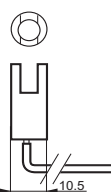
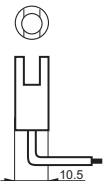
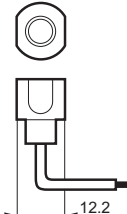
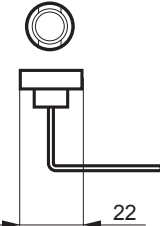
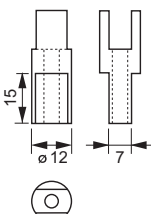
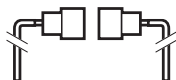


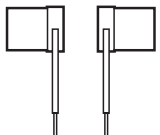
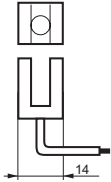
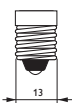

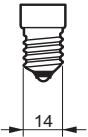


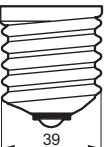

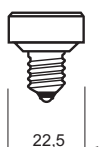
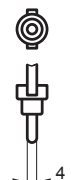

Lamps of level 1B belong to the 3-band fluorescent lamps predominantly installed in administrative buildings, schools, industrial and sports facilities. Lamps of level 2A still have good colour rendering characteristics. Lamps of level 3 are used for applications in heavy industry where colour rendering is not that important. Lamps of colour rendering level 4 are not to be utilized indoors with the exception of high pressure sodium lamps (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.


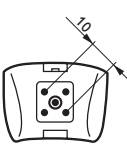
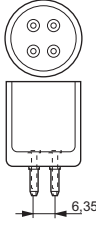
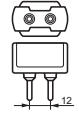
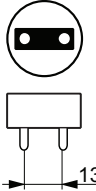
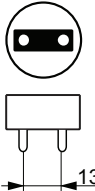
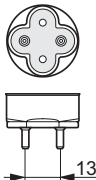

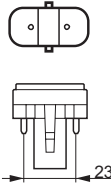
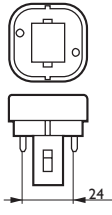
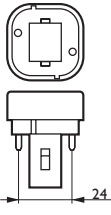
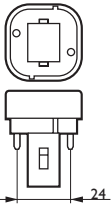
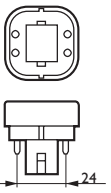
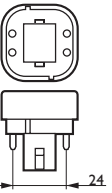
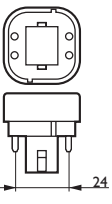
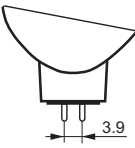

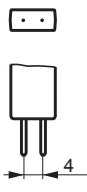
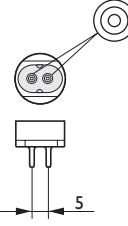
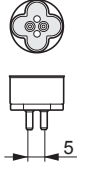

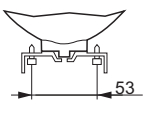

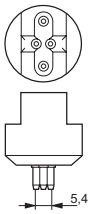
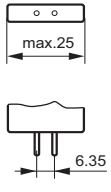

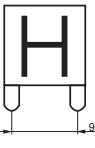
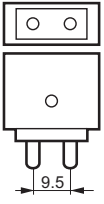
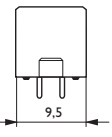
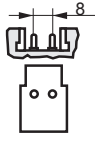
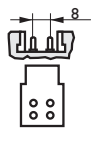
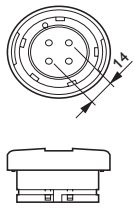

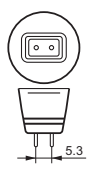
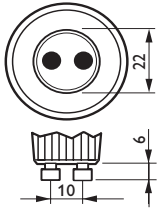
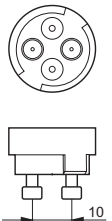


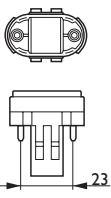
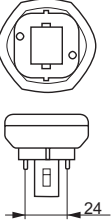
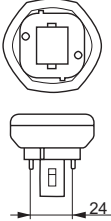
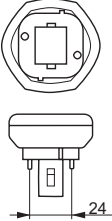
Philips Lighting Warranty Policies

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



Cap-Base Overview

| | | | | | | |
|---|---|---|---|--|---|---|
| 2G10 | 2G11 | 2G13 | 2G7 | 2G8-1 | 2GX13 | 4 Pin Single Ended |
|  |  |  |  |  |  |  |
| A26/14 | B14.5 | B15/B15d | B15s/BA15s | B21s | B22/B22d | B22d-3 |
|  |  |  |  |  |  |  |
| B9.5 | BA9s | BA15d | BA20d | BA20s | BA21d | BY22d |
|  |  |  |  |  |  |  |
| C7s/CX7s | C10.5 Cable | C10.5I/C10.5s | C14x | C22 | Cable | Cap-Cable |
|  |  |  |  |  |  |  |
| Cap-Cable Ring | Ceramic Cap-Cable | Ceramic 15.8X14.7 | CU | E10-13 | E12 | E14 |
|  |  |  |  |  |  |  |
| E26 | E27 | E39 | E40 | EZ10 | FA4 | FA6 |
|  |  |  |  |  |  |  |

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

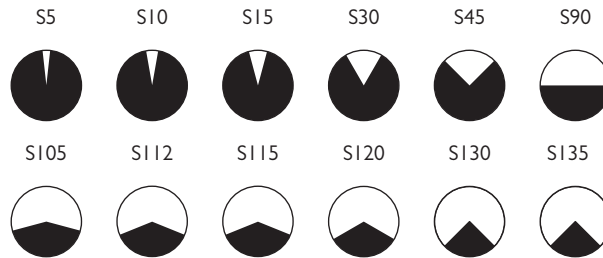
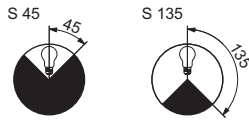
| | | | | | | |
|------------------------|----------------|-----------------|-----------------------|----------------|------------------------|---|
| GX24q-1 | GX24q-2 | GX24q-3 | GX24q-4 | GX24q-5 | GX5 | GX7.9 |
| | | | | | | |
| | | | | | | |
| 24 | 24 | 24 | 24 | 24 | 5 | |
| GX8.5 | GX9.5 | GX95/26 | GY16 | GY22 | GY3.8 | GY5.3 |
| | | | | | | |
| | | | | | | |
| 8.5 | 9.5 | 9.5 | | 22 | 38 | 5.3 |
| GY9.5 | GZ4 | GZ10 | GZ6.35 | GZ9.5 | GZX/GZY/GZZ 9.5 | K12x30s |
| | | | | | | |
| | | | | | | |
| 9.5 | 4 | 22 6 10 | 6.35 | 9.5 | 9.5 | max. 20 30.5±2 29.3±1 25.2±1 2.6±2 max. 14 10 0-10 |
| M4/Multipurpose | P28s | P30s | P32d | P43t.38 | PG12-1/PGX12-1 | PG12-2/PGX12-2 |
| | | | | | | |
| | | | | | | |
| | 28 | 30 | | 43 | 12 | 12 |
| PG22 | PGJ4.1 | PGJ5 | PGJ5.1/PGJX5.0 | PKX22s | (P)SFC | PX22d |
| | | | | | | |
| | | | | | | |
| | | 6 | | | 18 | 22 |
| PX28s | PY20s | RDC/R17d | R18s | R7s | RX7s | S14d |
| | | | | | | |
| | | | | | | |
| 28 | 20 | | 35,4±0,1 | 7 | 7 | 14 |

| | | | | | | |
|------------------------|-------------------|-----------------|------------------|----------------|---------------------|-------------------|
| S14s | S15 | S15d | S15s | S19 | S19s | S25.5x60mm |
| | | | | | | |
| S30x70/SFA7.5-2 | Screw Term | SFA21-12 | SFC18.5-6 | SFC10.4 | SFC10.4-15.8 | SFC15.5-6 |
| | | | | | | |
| SFC11 | Single Pin | SK9 | SK15 | SK32 | SK32 28x42 | Special |
| | | | | | | |
| SV8.5 | T-Click | THS-L | THS-S | U | V/VB | W21x95d |
| | | | | | | |
| X528 | X/X-Clip | Y | Z | | | |
| | | | | | | |

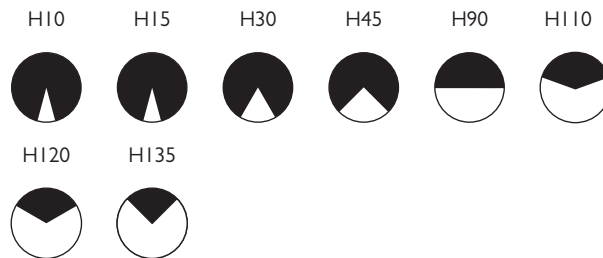
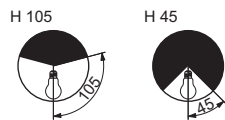
Operating Positions

 permitted  non permitted

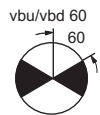
S = vertical (base down)



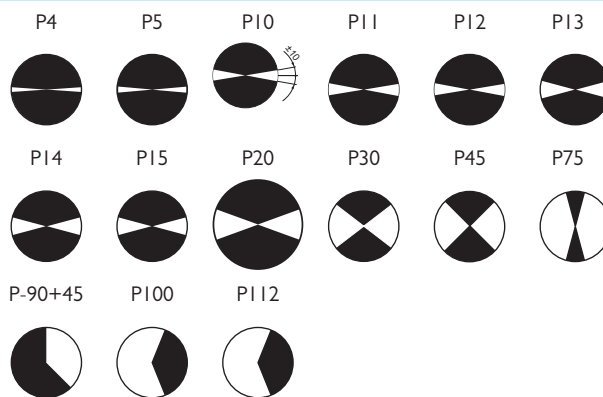
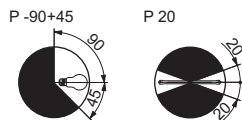
H = vertical (base up)



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



P = horizontal



Universal



ILCOS Overview

| ILCOS | Commercial product name | Page |
|----------------------------|------------------------------------|------|
| 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-11/127/1b-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 |
| FD-36/40/1B-E-G13 | MASTER TL-D Xtreme 36W/840 | 40 |
| FD-36/40/1B-E-G13 | MASTER TL-D Xtreme Polar 36W/840 | 41 |
| FD-36/40/1B-E-G13 | MASTER TL-D Xtreme Secura 36W/840 | 41 |
| FD-36/53/1A-E-G13 | MASTER TL-D 90 De Luxe 36W/950 | 42 |
| FD-36/53/1A-E-G13 | MASTER TL-D 90 Graphica 36W/950 | 43 |
| FD-36/65/1A-E-G13 | MASTER TL-D 90 De Luxe 36W/965 | 42 |
| FD-36/65/1A-E-G13 | MASTER TL-D 90 Graphica 36W/965 | 43 |
| FD-36/65/1B-E-G13 | MASTER TL-D Super 80 36W/865 | 34 |
| FD-36/65/1B-E-G13 | MASTER TL-D Xtreme 36W/865 | 40 |
| FD-38/30/1B-E-G13 | MASTER TL-D Super 80 38W/830 | 34 |
| FD-38/40/1B-E-G13 | MASTER TL-D Super 80 38W/840 | 34 |
| FD-40/41/2B-LC/N-Fa6 | TL-X XL 40W/33-640 | 44 |
| FD-51/30/1B-E-G13-26/1,500 | MASTER TL-D Eco 51W/830 | 32 |
| FD-51/40/1B-E-G13-26/1,200 | MASTER TL-D Eco 51W/840 | 32 |
| FD-58/27/1B-E-G13 | MASTER TL-D Super 80 58W/827 | 34 |
| FD-58/30/1B-E-G13 | MASTER TL-D Super 80 58W/830 | 34 |
| FD-58/30/1B-E-G13 | MASTER TL-D Xtra 58W/830 | 37 |
| FD-58/35/1B-E-G13 | MASTER TL-D Super 80 58W/835 | 34 |
| FD-58/38/1A-E-G13 | MASTER TL-D 90 De Luxe 58W/940 | 42 |
| FD-58/40/1B-E-G13 | MASTER TL-D Secura 58W/840 | 35 |
| FD-58/40/1B-E-G13 | MASTER TL-D Super 80 58W/840 | 34 |
| FD-58/40/1B-E-G13 | MASTER TL-D Xtra 58W/840 | 37 |
| FD-58/40/1B-E-G13 | MASTER TL-D Xtra Secura 58W/840 | 39 |
| FD-58/40/1B-E-G13 | MASTER TL-D Xtreme 58W/840 | 40 |
| FD-58/40/1B-E-G13 | MASTER TL-D Xtreme Polar 58W/840 | 41 |
| FD-58/53/1A-E-G13 | MASTER TL-D 90 De Luxe 58W/950 | 42 |
| FD-58/53/1A-E-G13 | MASTER TL-D 90 Graphica 58W/950 | 43 |
| FD-58/65/1A-E-G13 | MASTER TL-D 90 De Luxe 58W/965 | 42 |
| FD-58/65/1A-E-G13 | MASTER TL-D 90 Graphica 58W/965 | 43 |
| FD-58/65/1B-E-G13 | MASTER TL-D Super 80 58W/865 | 34 |
| FD-58/65/1B-E-G13 | MASTER TL-D Xtreme 58W/865 | 40 |
| FD-6/41/2B-E-G5 | TL Mini 6W/33-640 | 45 |

More data see next column

(continued)

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| FD-65/41/2B-LC/N-Fa6 | TL-X XL 65W/33-640 | 44 |
| FD-70/30/1B-E-G13 | MASTER TL-D Super 80 70W/830 | 34 |
| FD-70/35/1B-E-G13 | MASTER TL-D Super 80 70W/835 | 34 |
| FD-70/40/1B-E-G13 | MASTER TL-D Super 80 70W/840 | 34 |
| FD-70/40/1B-E-G13 | MASTER TL-D Xtra 70W/840 | 37 |
| FD-8/40/1B-E-G5 | MASTER TL Mini Super 80 8W/840 | 45 |
| FD-8/41/2B-E-G5 | TL Mini 8W/33-640 | 45 |
| FDH-13/40/1B-L/P-G5-16/550 | MASTER TL5 HE Eco 13=14W/840 | 24 |
| FDH-14/30/1B-L/P-G5-16/550 | MASTER TL5 HE 14W/830 | 24 |
| FDH-14/35/1B-L/P-G5-16/550 | MASTER TL5 HE 14W/835 | 24 |
| FDH-14/40/1B-L/P-G5-16/550 | MASTER TL5 HE 14W/840 | 24 |
| FDH-14/65/1B-L/P-G5-16/550 | MASTER TL5 HE 14W/865 | 24 |
| FDH-16/30/1B-L/P-G13-26/600 | MASTER TL-D HF Super 80 16W/830 | 36 |
| FDH-16/40/1B-L/P-G13-26/600 | MASTER TL-D HF Super 80 16W/840 | 36 |
| FDH-19/40/1B-L/P-G5-16/850 | MASTER TL5 HE Eco 19=21W/840 | 24 |
| FDH-20/40/1B-L/P-G5-16/550 | MASTER TL5 HO Eco 20=24W/840 | 26 |
| FDH-20/65/1B-L/P-G5-16/550 | MASTER TL5 HO Eco 20=24W/865 | 26 |
| FDH-21/30/1B-L/P-G5-16/850 | MASTER TL5 HE 21W/830 | 24 |
| FDH-21/35/1B-L/P-G5-16/850 | MASTER TL5 HE 21W/835 | 24 |
| FDH-21/40/1B-L/P-G5-16/850 | MASTER TL5 HE 21W/840 | 24 |
| FDH-21/65/1B-L/P-G5-16/850 | MASTER TL5 HE 21W/865 | 24 |
| FDH-24/30/1B-L/P-G5-16/550 | MASTER TL5 HO 24W/830 | 26 |
| FDH-24/40/1B-L/P-G5-16/550 | MASTER TL5 HO 24W/840 | 26 |
| FDH-24/50/1A-L/P-G5-16/550 | MASTER TL5 HO 90 De Luxe 24W/950 | 30 |
| FDH-25/40/1B-L/P-G5-16/1,150 | MASTER TL5 HE Eco 25=28W/840 | 24 |
| FDH-28/30/1B-L/P-G5-16/1,150 | MASTER TL5 HE 28W/830 | 24 |
| FDH-28/35/1B-L/P-G5-16/1,150 | MASTER TL5 HE 28W/835 | 24 |
| FDH-28/40/1B-L/P-G5-16/1,150 | MASTER TL5 HE 28W/840 | 24 |
| FDH-28/40/1B-L/P-G5-16/1,150 | MASTER TL5 HE Secura 28W/840 | 29 |
| FDH-28/65/1B-L/P-G5-16/1,150 | MASTER TL5 HE 28W/865 | 24 |
| FDH-32/40/1B-L/P-G13-26/1,200 | MASTER TL-D HF Super 80 32W/840 | 36 |
| FDH-32/40/1B-L/P-G5-16/1,450 | MASTER TL5 HE Eco 32=35W/840 | 24 |
| FDH-35/30/1B-L/P-G5-16/1,450 | MASTER TL5 HE 35W/830 | 24 |
| FDH-35/35/1B-L/P-G5-16/1,450 | MASTER TL5 HE 35W/835 | 24 |
| FDH-35/40/1B-L/P-G5-16/1,450 | MASTER TL5 HE 35W/840 | 24 |
| FDH-35/65/1B-L/P-G5-16/1,450 | MASTER TL5 HE 35W/865 | 24 |
| FDH-39/30/1B-L/P-G5-16/850 | MASTER TL5 HO 39W/830 | 26 |
| FDH-39/40/1B-L/P-G5-16/850 | MASTER TL5 HO 39W/840 | 26 |
| FDH-44/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO EcoPlus 41=49W/840 | 25 |
| FDH-44/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO EcoPlus 44=54W/840 | 25 |
| FDH-44/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO EcoPlus 66=80W/840 | 25 |
| FDH-45/30/1B-L/P-G5-16/1,450 | MASTER TL5 HO Eco 45=49W/830 | 26 |
| FDH-45/40/1B-L/P-G5-16/1,450 | MASTER TL5 HO Eco 45=49W/840 | 26 |
| FDH-49/30/1B-L/P-G5-16/1,450 | MASTER TL5 HO 49W/830 | 26 |
| FDH-49/30/1B-L/P-G5-16/1,450 | MASTER TL5 HO Xtra 49W/830 | 27 |
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| FDH-49/40/1B-L/P-G5-16/1,450 | MASTER TL5 HO 49W/840 | 26 |
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| FDH-50/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO Eco 50=54W/840 | 26 |
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| FDH-54/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO 54W/840 | 26 |
| FDH-54/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO Secura 54W/840 | 30 |
| FDH-54/40/1B-L/P-G5-16/1,150 | MASTER TL5 HO Xtra 54W/840 | 27 |
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| MD/UB-150/942-H-RX7s-25/135.4 | MASTERCoulour CDM-TD 150W/942 RX7s | 89 |
| MD/UB-70/730-H-RX7s-22/117.6 | MHN-TD 70W/730 RX7s | 96 |
| MD/UB-70/830-H-RX7s-22/117.6 | MASTERCoulour CDM-TD 70W/830 RX7s | 89 |
| MD/UB-70/942-H-RX7s-22/117.6 | MASTERCoulour CDM-TD 70W/942 RX7s | 89 |
| ME 50/28/1B-H-E27 | MASTER CityWhite CDO-ET Plus 50W/828 E27 | 106 |
| ME-250/45/2A-H-E40-/V | MASTER HPI Plus 250W/645 BU E40 | 111 |
| ME-250/67/2A-H-E40-90/225/V | MASTER HPI Plus 250W/667 BU E40 | 111 |
| ME-400/45/2A-H-E40-/V | MASTER HPI Plus 400W/645 BU E40 | 111 |
| ME-400/45/2A-H/I-E40-/V | MASTER HPI Plus 400W/645 BUS E40 | 111 |
| ME-400/67/2A-H-E40-90/225/V | MASTER HPI Plus 400W/667 BU E40 | 111 |
| ME/S-250/45/2A-H-E40-/V | MASTER HPI Plus 250W/645 BU-P E40 | 111 |
| ME/S-400/45/2A-H-E40-/V | MASTER HPI Plus 400W/645 BU-P E40 | 111 |
| ME/S-400/45/2A-H/I-E40-/V | MASTER HPI Plus 400W/645 BUS-P E40 | 111 |
| MEI00/28/1B-H-E40 | MASTER CityWhite CDO-ET Plus 100W/828 E40 | 106 |
| MEI50/28/1B-H-E40 | MASTER CityWhite CDO-ET Plus 150W/828 E40 | 106 |
| ME70/28/1B-H-E27 | MASTER CityWhite CDO-ET Plus 70W/828 E27 | 106 |
| MN-1,000-E-K-/H | MASTER MHN-LA 1000W/842 230V XWH | 108 |
| MN-1,000-E-K-/H | MASTER MHN-LA 1000W/956 230V XWH | 108 |
| MN-1,800-E-PSFc20=6-/H | MASTER MHN-SA 1800W/956 (P)SFC 400V | 107 |
| MN-1,800-H-PSFc20=6-/H | MASTER MHN-SA 1800W/956 (P)SFC 230V | 107 |
| MN-1,800-H-X830R-/H | MASTER MHN-SA 1800W/956 230V XW | 107 |
| MN-2,000-E-K-/H | MASTER MHN-LA 2000W/842 400V XWH | 108 |
| MN-2,000-E-K-/H | MASTER MHN-LA 2000W/956 400V XWH | 108 |
| MN-2,000-E-X830R-/H | MASTER MHN-SA 2000W/956 400V XW | 107 |
| MRS/UB-20/830-H-GX10-51/54.5/10 | MASTERCoulour CDM-Rm Mini 20W/830 GX10 MR16 10D | 91 |
| MRS/UB-20/830-H-GX10-51/54.5/25 | MASTERCoulour CDM-Rm Mini 20W/830 GX10 MR16 25D | 91 |
| MRS/UB-20/830-H-GX10-51/54.5/40 | MASTERCoulour CDM-Rm Mini 20W/830 GX10 MR16 40D | 91 |
| MRS/UB-20/830-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 20W/830 GX8.5 10D | 93 |
| MRS/UB-20/830-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 20W/830 GX8.5 24D | 93 |
| MRS/UB-35/30/1A-H-E27 | MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 30D | 90 |
| MRS/UB-35/830-H-E27-63.5/96/10 | MASTERCoulour CDM-R 35W/830 E27 PAR20 10D | 92 |
| MRS/UB-35/830-H-E27-63.5/96/30 | MASTERCoulour CDM-R 35W/830 E27 PAR20 30D | 92 |
| MRS/UB-35/830-H-E27-95/125/10 | MASTERCoulour CDM-R 35W/830 E27 PAR30L 10D | 92 |
| MRS/UB-35/830-H-E27-95/125/30 | MASTERCoulour CDM-R 35W/830 E27 PAR30L 30D | 92 |
| MRS/UB-35/830-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 35W/830 GX8.5 10D | 93 |
| MRS/UB-35/830-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 35W/830 GX8.5 24D | 93 |
| MRS/UB-35/830-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 35W/830 GX8.5 40D | 93 |
| MRS/UB-35/830-H-E27-95/125/10 | MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 10D | 90 |
| MRS/UB-35/830-H-E27-95/125/30 | MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 30D | 90 |
| MRS/UB-35/930-H-GX10-51/54.5/25 | MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 25D | 90 |
| MRS/UB-35/930-H-GX10-51/54.5/40 | MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 40D | 90 |
| MRS/UB-35/930-H-GX10-51/54.5/60 | MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 60D | 90 |
| MRS/UB-50/930-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 Elite 50W/930 GX8.5 10D | 92 |
| MRS/UB-50/930-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 Elite 50W/930 GX8.5 24D | 92 |
| MRS/UB-50/930-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 Elite 50W/930 GX8.5 40D | 92 |
| MRS/UB-70/30/1A-H-E27 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 10D | 90 |
| MRS/UB-70/30/1A-H-E27 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 40D | 90 |
| MRS/UB-70/830-H-E27-95/125/10 | MASTERCoulour CDM-R 70W/830 E27 PAR30L 10D | 92 |
| MRS/UB-70/830-H-E27-95/125/40 | MASTERCoulour CDM-R 70W/830 E27 PAR30L 40D | 92 |
| MRS/UB-70/830-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 70W/830 GX8.5 10D | 93 |
| MRS/UB-70/830-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 70W/830 GX8.5 24D | 93 |
| MRS/UB-70/830-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 70W/830 GX8.5 40D | 93 |
| MRS/UB-70/930-H-E27-95/125/10 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 10D | 90 |
| MRS/UB-70/930-H-E27-95/125/30 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 30D | 90 |
| MRS/UB-70/930-H-E27-95/125/40 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 40D | 90 |
| MRS/UB-70/930-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 Elite 70W/930 GX8.5 10D | 92 |
| MRS/UB-70/930-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 Elite 70W/930 GX8.5 24D | 92 |
| MRS/UB-70/930-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 Elite 70W/930 GX8.5 40D | 92 |
| MRS/UB-70/942-H-E27-95/125/10 | MASTERCoulour CDM-R 70W/942 E27 PAR30L 10D | 92 |
| MRS/UB-70/942-H-E27-95/125/30 | MASTERCoulour CDM-R 70W/942 E27 PAR30L 30D | 92 |
| MRS/UB-70/942-H-E27-95/125/40 | MASTERCoulour CDM-R 70W/942 E27 PAR30L 40D | 92 |
| MRS/UB-70/942-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 70W/942 GX8.5 24D | 93 |
| MRS/UB-70/942-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 70W/942 GX8.5 40D | 93 |
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| MRS/UB-35/930-H-E27-63.5/96/30 | MASTERCoulour CDM-R Elite 35W/930 E27 PAR20 30D | 90 |
| MRS/UB-35/930-H-E27-95/125/10 | MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 10D | 90 |
| MRS/UB-35/930-H-E27-95/125/30 | MASTERCoulour CDM-R Elite 35W/930 E27 PAR30L 30D | 90 |
| MRS/UB-35/930-H-GX10-51/54.5/10 | MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 10D | 90 |
| MRS/UB-35/930-H-GX10-51/54.5/25 | MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 25D | 90 |
| MRS/UB-35/930-H-GX10-51/54.5/40 | MASTERCoulour CDM-Rm Elite Mini 35W/930 GX10 MR16 40D | 90 |
| MRS/UB-35/930-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 Elite 35W/930 GX8.5 10D | 92 |
| MRS/UB-35/930-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 Elite 35W/930 GX8.5 24D | 92 |
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| MRS/UB-35/942-H-E27-63.5/96/10 | MASTERCoulour CDM-R 35W/942 E27 PAR20 10D | 92 |
| MRS/UB-35/942-H-E27-63.5/96/30 | MASTERCoulour CDM-R 35W/942 E27 PAR20 30D | 92 |
| MRS/UB-35/942-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 35W/942 GX8.5 10D | 93 |
| MRS/UB-35/942-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 35W/942 GX8.5 24D | 93 |
| MRS/UB-35/942-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 35W/942 GX8.5 40D | 93 |
| MRS/UB-50/930-H-E27-95/125/10 | MASTERCoulour CDM-R Elite 50W/930 E27 PAR30L 10D | 90 |
| MRS/UB-50/930-H-E27-95/125/30 | MASTERCoulour CDM-R Elite 50W/930 E27 PAR30L 30D | 90 |
| MRS/UB-50/930-H-E27-95/125/40 | MASTERCoulour CDM-R Elite 50W/930 E27 PAR30L 40D | 90 |
| MRS/UB-50/930-H-GX10-51/54.5/25 | MASTERCoulour CDM-Rm Elite Mini 50W/930 GX10 MR16 25D | 90 |
| MRS/UB-50/930-H-GX10-51/54.5/40 | MASTERCoulour CDM-Rm Elite Mini 50W/930 GX10 MR16 40D | 90 |
| MRS/UB-50/930-H-GX10-51/54.5/60 | MASTERCoulour CDM-Rm Elite Mini 50W/930 GX10 MR16 60D | 90 |
| MRS/UB-50/930-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 Elite 50W/930 GX8.5 10D | 92 |
| MRS/UB-50/930-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 Elite 50W/930 GX8.5 24D | 92 |
| MRS/UB-50/930-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 Elite 50W/930 GX8.5 40D | 92 |
| MRS/UB-70/30/1A-H-E27 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 10D | 90 |
| MRS/UB-70/30/1A-H-E27 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 40D | 90 |
| MRS/UB-70/830-H-E27-95/125/10 | MASTERCoulour CDM-R 70W/830 E27 PAR30L 10D | 92 |
| MRS/UB-70/830-H-E27-95/125/40 | MASTERCoulour CDM-R 70W/830 E27 PAR30L 40D | 92 |
| MRS/UB-70/830-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 70W/830 GX8.5 10D | 93 |
| MRS/UB-70/830-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 70W/830 GX8.5 24D | 93 |
| MRS/UB-70/830-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 70W/830 GX8.5 40D | 93 |
| MRS/UB-70/930-H-E27-95/125/10 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 10D | 90 |
| MRS/UB-70/930-H-E27-95/125/30 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 30D | 90 |
| MRS/UB-70/930-H-E27-95/125/40 | MASTERCoulour CDM-R Elite 70W/930 E27 PAR30L 40D | 90 |
| MRS/UB-70/930-H-GX8.5-111/88/10 | MASTERCoulour CDM-R111 Elite 70W/930 GX8.5 10D | 92 |
| MRS/UB-70/930-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 Elite 70W/930 GX8.5 24D | 92 |
| MRS/UB-70/930-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 Elite 70W/930 GX8.5 40D | 92 |
| MRS/UB-70/942-H-E27-95/125/10 | MASTERCoulour CDM-R 70W/942 E27 PAR30L 10D | 92 |
| MRS/UB-70/942-H-E27-95/125/30 | MASTERCoulour CDM-R 70W/942 E27 PAR30L 30D | 92 |
| MRS/UB-70/942-H-E27-95/125/40 | MASTERCoulour CDM-R 70W/942 E27 PAR30L 40D | 92 |
| MRS/UB-70/942-H-GX8.5-111/88/24 | MASTERCoulour CDM-R111 70W/942 GX8.5 24D | 93 |
| MRS/UB-70/942-H-GX8.5-111/88/40 | MASTERCoulour CDM-R111 70W/942 GX8.5 40D | 93 |
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| MT-2,000/42/2B-H-E40-/H | HPI-T 2000W/542 E40 380V | 112 | |
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| MT-210/30/1A-H-PGZ18 | MASTERColour CDM-TMW Elite 210W/930 | 104 | |
| MT-210/42/1A-H-PGZ18 | MASTERColour CDM-TMW Elite 210W/942 | 104 | |
| MT-250/830-H-E40-48/260 | MASTER CityWhite CDO-TT Plus 250W/830 E40 | 105 | |
| MT-315/30/1A-H-PGZ18 | MASTERColour CDM-TMW Elite 315W/930 | 104 | |
| MT-315/42/1A-H-PGZ18 | MASTERColour CDM-TMW Elite 315W/942 | 104 | |
| MT-45/628-H-PGZ12-20/132 | MASTER CosmoWhite CPO-TW Xtra 45W/628 PGZ12 | 102 | |
| MT-50/828-H-E27-39/156 | MASTER CityWhite CDO-TT Plus 50W/828 E27 | 105 | |
| MT-60/728-H-PGZ12-20/132 | MASTER CosmoWhite CPO-TW Xtra 60W/728 PGZ12 | 102 | |
| MT-70/828-H-E27-39/156 | MASTER CityWhite CDO-TT Plus 70W/828 E27 | 105 | |
| MT-90/728-H-PGZ12-20/143 | MASTER CosmoWhite CPO-TW Xtra 90W/728 PGZ12 | 102 | |
| MT-90/840-H-PGZ12-20/143 | MASTER CosmoWhite CPO-TW 90W/840 PGZ12 | 102 | |
| MT/UB-100/930-H-G12-21/100 | MASTERColour CDM-T Elite 100W/930 G12 | 78 | |
| MT/UB-100/942-H-G12-21/100 | MASTERColour CDM-T Elite 100W/942 G12 | 78 | |
| MT/UB-150/828-H-E40-48/211 | MASTER CityWhite CDO-TT Plus 150W/828 E40 | 105 | |
| MT/UB-150/830-H-G12-21/100 | MASTERColour CDM-T 150W/830 G12 | 79 | |
| MT/UB-150/930-H-G12-21/100 | MASTERColour CDM-T Elite 150W/930 G12 | 78 | |
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| MT/UB-20/830-H-G8.5-17/85 | MASTERColour CDM-TC 20W/830 G8.5 | 82 | |
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| MT/UB-20/830-H-PGJ5-11.2/52 | MASTERColour CDM-Tm Mini 20W/830 PGJ5 | 87 | |
| MT/UB-20/930-H-G12-20/90 | MASTERColour CDM-T Evolution 20W/930 G12 | 77 | |
| MT/UB-20/930-H-G8.5-17/85 | MASTERColour CDM-TC Evolution 20W/930 G8.5 | 80 | |
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| MT/UB-250/942-H-G12-25/135 | MASTERColour CDM-T 250W/942 G12 | 79 | |
| MT/UB-35/830-H-G12-20/90 | MASTERColour CDM-T 35W/830 G12 | 79 | |
| MT/UB-35/830-H-G8.5-17/85 | MASTERColour CDM-TC 35W/830 G8.5 | 82 | |
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| MT/UB-35/930-H-G12-20/90 | MASTERColour CDM-T Evolution 35W/930 G12 | 77 | |
| MT/UB-35/930-H-G8.5-17/85 | MASTERColour CDM-TC Elite 35W/930 G8.5 | 81 | |
| MT/UB-35/930-H-G8.5-17/85 | MASTERColour CDM-TC Evolution 35W/930 G8.5 | 80 | |
| MT/UB-35/930-H-GU6.5-13.3/52 | MASTERColour CDM-Tm Elite Mini 35W/930 GU6.5 | 86 | |
| MT/UB-35/930-H-PGJ5-11.2/52 | MASTERColour CDM-Tm Mini 35W/930 PGJ5 | 87 | |
| MT/UB-35/942-H-G12-20/90 | MASTERColour CDM-T Elite 35W/942 G12 | 78 | |
| MT/UB-35/942-H-G8.5-17/85 | MASTERColour CDM-TC Elite 35W/942 G8.5 | 81 | |
| MT/UB-50/930-H-G12-20/90 | MASTERColour CDM-T Elite 50W/930 G12 | 78 | |
| MT/UB-50/930-H-G8.5-17/85 | MASTERColour CDM-TC Elite 50W/930 G8.5 | 81 | |
| MT/UB-50/930-H-GU6.5-13.3/52 | MASTERColour CDM-Tm Elite Mini 50W/930 GU6.5 | 86 | |
| MT/UB-50/942-H-G12-20/90 | MASTERColour CDM-T Elite 50W/942 G12 | 78 | |
| MT/UB-50/942-H-G8.5-17/85 | MASTERColour CDM-TC Elite 50W/942 G8.5 | 81 | |
| MT/UB-70/740-H-G12-20/90 | MASTERColour CDM-T Fresh 70W/740 G12 | 82 | |
| MT/UB-70/740-H-G8.5-17/85 | MASTERColour CDM-TC Fresh 70W/740 G8.5 | 83 | |
| MT/UB-70/830-H-G12-20/90 | MASTERColour CDM-T 70W/830 G12 | 79 | |
| MT/UB-70/830-H-G8.5-17/85 | MASTERColour CDM-TC 70W/830 G8.5 | 82 | |
| MT/UB-70/842-H-G8.5-17/85 | MASTERColour CDM-TC - 70W/842 G8.5 | 82 | |
| MT/UB-70/925-H-G12-20/90 | MASTERColour CDM-T Warm 70W/925 G12 | 84 | |
| MT/UB-70/925-H-G8.5-17/85 | MASTERColour CDM-TC Warm 70W/925 G8.5 | 84 | |
| MT/UB-70/930-H-G12-20/90 | MASTERColour CDM-T Elite 70W/930 G12 | 78 | |
| MT/UB-70/930-H-G8.5-17/85 | MASTERColour CDM-TC Elite 70W/930 G8.5 | 81 | |
| MT/UB-70/942-H-G12-20/90 | MASTERColour CDM-T 70W/942 G12 | 79 | |
| MT/UB-70/942-H-G12-20/90 | MASTERColour CDM-T Elite 70W/942 G12 | 78 | |
| MT/UB-70/942-H-G8.5-17/85 | MASTERColour CDM-TC Elite 70W/942 G8.5 | 81 | |
| MTS-210/30/1A-H-PGZX18 | MASTERColour CDM-TMW Elite 210W/930 | 104 | |
| MTS-210/42/1A-H-PGZX18 | MASTERColour CDM-TMW Elite 210W/942 CL P | 104 | |
| MTS-315/30/1A-H-PGZX18 | MASTERColour CDM-TMW Elite 315W/930 | 104 | |
| MTS-315/42/1A-H-PGZX18 | MASTERColour CDM-TMW Elite 315W/942 | 104 | |
| MTS/UB-150/830-H-PGX12-2-91/149 | MASTERColour CDM-TP 150W/830 PGX12-2 | 88 | |
| MTS/UB-150/942-H-PGX12-2-32/149 | MASTERColour CDM-TP 150W/942 PGX12-2 | 88 | |
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| SE-100-H/S-E40 | MASTER SON PIA Plus 100W/220 E40 | 116 | |
| SE-150-H/E-E40 | MASTER SON APIA Plus Xtra 150W E40 | 114 | |
| SE-150-H/S-E40 | MASTER SON PIA Plus 150W/220 E40 | 116 | |
| SE-250-H/E-E40 | MASTER SON APIA Plus Xtra 250W E40 | 114 | |
| SE-250-H/S-E40 | MASTER SON PIA Plus 250W/220 E40 | 116 | |
| SE-400-H/E-E40 | MASTER SON APIA Plus Xtra 400W E40 | 114 | |
| SE-400-H/S-E40 | MASTER SON PIA Plus 400W/220 E40 | 116 | |
| SE-50-H/E-E27 | MASTER SON APIA Plus Xtra 50W E27 | 114 | |
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| SEQ-220-H-E40 | SON H 220W/220 E40 | 119 | |
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| ST-250-H/E-E40 | MASTER SON-T APIA Plus Xtra 250W E40 | 113 | |
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| 1000MHNLA956 | MASTER MHN-LA 1000W/956 230V XWH NO I | 108 |
| 1000SONT | SON-T 1000W/220 E40 ISL 4 | 117 |
| 100CDMTELITE930 | MASTERCcolour CDM-T Elite 100W/930 G12 ICT 12 | 78 |
| 100CDMTELITE942 | MASTERCcolour CDM-T Elite 100W/942 G12 ICT 12 | 78 |
| 100CDOETPLUS828 | MASTER CityWhite CDO-ET Plus 100W/828 E40 ISL 12 | 106 |
| 100CDOTTPPLUS828 | MASTER CityWhite CDO-TT Plus 100W/828 E40 ISL 12 | 105 |
| 100SDWT | MASTER SDW-T 100W/825 PG12-1 ISL 12 | 95 |
| 100SDWTTG | MASTER SDW-TG Mini 100W/825 GX12-1 ICT 12 | 94 |
| 100SONPLUS | MASTER SON PIA Plus 100W/220 E40 ISL 12 | 116 |
| 100SONPLUSXTRA | MASTER SON APIA Plus Xtra 100W E40 ISL 12 | 114 |
| 100SONTPLUS | MASTER SON-T PIA Plus 100W/220 E40 ISL 12 | 115 |
| 100SONTPLUSXTRA | MASTER SON-T APIA Plus Xtra 100W E40 ISL 12 | 113 |
| 105BCECO30CLA55 | EcoClassic 105W B22 240V A55 CL ICT 10 | 136 |
| 105ESECO30CLA55 | EcoClassic 105W E27 240V A55 CL ICT 10 | 136 |
| 10PLC8272PIN | MASTER PL-C 10W/827/2P ICT 5X10CC | 60 |
| 10PLC8302PIN | MASTER PL-C 10W/830/2P ICT 5X10CC | 60 |
| 10PLC8402PIN | MASTER PL-C 10W/840/2P ICT 5X10CC | 60 |
| 10PLC8404PIN | MASTER PL-C 10W/840/4P ICT 5X10CC | 61 |
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| 11BCSOFT10Y | Softone 11W WW B22 220-240V IPF 6 | 54 |
| 11ESGENIE10Y | GENIE 11W WW E27 220-240V IPF 6 | 51 |
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| 11ESSOFT10Y | Softone 11W WW E27 220-240V IPF 6 | 54 |
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| 11PLS8274PINB | MASTER PL-S 11W/827/4P ICT 5X10CC | 59 |
| 11PLS8402PINB | MASTER PL-S 11W/840/2P ICT 5X10CC | 58 |
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| 13091 | Capsuleline 20W G4 24V CL 4000h ICT 10X10F | 134 |
| 13100 | Capsuleline 100W GY6.35 12V CL 4000h ICT 10X10F | 134 |
| 13101 | Capsuleline 75W GY6.35 12V CL 4000h ICT 10X10F | 134 |
| 13102 | Capsuleline 50W GY6.35 12V CL 4000h ICT 10X10F | 134 |
| 13103 | Capsuleline 35W GY6.35 12V CL 4000h ICT 10X10F | 134 |
| 13104 | Capsuleline 20W GY6.35 12V CL 4000h ICT 10X10F | 134 |
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| 13840TLSECO | MASTER TL5 HE Eco 13=14W/840 UNP 40 | 24 |
| 13840TLSECOXTRA | MASTER TL5 HE Xtra Eco 13=14W/840 ISL 40 | 23 |
| 13PLC8272PIN | MASTER PL-C 13W/827/2P ICT 5X10CC | 60 |
| 13PLC8274PIN | MASTER PL-C 13W/827/4P ICT 5X10CC | 61 |
| 13PLC8302PIN | MASTER PL-C 13W/830/2P ICT 5X10CC | 60 |
| 13PLC8304PIN | MASTER PL-C 13W/830/4P ICT 5X10CC | 61 |
| 13PLC8402PIN | MASTER PL-C 13W/840/2P ICT 5X10CC | 60 |
| 13PLC8404PIN | MASTER PL-C 13W/840/4P ICT 5X10CC | 61 |
| 13PLT8404PINC5 | MASTER PL-T 13W/840/4P ICT 5X10CC | 65 |
| 140CPOTT628 | MASTER CosmoWhite CPO-TT Xtra 140W/628 E40 ISL 12 | 103 |
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| 140CPOTW840 | MASTER CosmoWhite CPO-TW 140W/840 PGZ12 ICT 12 | 102 |
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| 14565 | Capsuleline 10W G4 12V CL 2000h ICT 10X10F | 134 |
| 14566 | Capsuleline 20W G4 12V CL 2000h ICT 10X10F | 134 |
| 14567 | Capsuleline 50W GY6.35 12V CL 2000h ICT 10X10F | 134 |
| 14578 | MASTERLine ES 20W GU5.3 12V 8D ICT 4X5F | 128 |
| 14579 | MASTERLine ES 20W GU5.3 12V 36D ICT 4X5F | 128 |
| 14580 | MASTERLine ES 30W GU5.3 12V 8D ICT 4X5F | 128 |
| 14581 | MASTERLine ES 30W GU5.3 12V 24D ICT 4X5F | 128 |
| 14582 | MASTERLine ES 30W GU5.3 12V 36D ICT 4X5F | 128 |
| 14583 | MASTERLine ES 30W GU5.3 12V 60D ICT 4X5F | 128 |
| 14584 | MASTERLine ES 35W GU5.3 12V 8D ICT 4X5F | 128 |
| 14585 | MASTERLine ES 35W GU5.3 12V 24D ICT 4X5F | 128 |
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| 14588 | MASTERLine ES 45W GU5.3 12V 8D ICT 4X5F | 128 |
| 14589 | MASTERLine ES 45W GU5.3 12V 24D ICT 4X5F | 128 |
| 14590 | MASTERLine ES 45W GU5.3 12V 36D ICT 4X5F | 128 |
| 14591 | MASTERLine ES 45W GU5.3 12V 60D ICT 4X5F | 128 |
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| 14830 | MASTER TL5 HE 14W/830 ISL 40 | 24 |
| 14835 | MASTER TL5 HE 14W/835 ISL 40 | 24 |
| 14840 | MASTER TL5 HE 14W/840 ISL 40 | 24 |
| 14865 | MASTER TL5 HE 14W/865 ISL 40 | 24 |
| 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 | MASTERCcolour CDM-T 150W/830 G12 ICT 12 | 79 |
| 150CDMT942 | MASTERCcolour CDM-T 150W/942 G12 ICT 12 | 79 |
| 150CDMTD830 | MASTERCcolour CDM-TD 150W/830 RX7s ICT 12 | 89 |
| 150CDMTD942 | MASTERCcolour CDM-TD 150W/942 RX7s ICT 12 | 89 |
| 150CDMTELITE930 | MASTERCcolour CDM-T Elite 150W/930 G12 ICT 12 | 78 |
| 150CDMTP830 | MASTERCcolour CDM-TP 150W/830 PGX12-2 ICT 12 | 88 |
| 150CDMTP942 | MASTERCcolour CDM-TP 150W/942 PGX12-2 ICT 12 | 88 |
| 150CDOETPLUS828 | MASTER CityWhite CDO-ET Plus 150W/828 E40 ISL 12 | 106 |
| 150CDOTTPPLUS828 | MASTER CityWhite CDO-TT Plus 150W/828 E40 ISL 12 | 105 |
| 150MHNTD | MHN-TD 150W/842 RX7s ICT 12 | 96 |
| 150MHWTD | MHN-TD 150W/730 RX7s ICT 12 | 96 |
| 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 |
| 15830 | MASTER TL-D Super 80 15W/830 ISL 25 | 34 |
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| 15BCPLE | MASTER PLE-R 15W/827 B22 220-240V ICT 6 | 50 |
| 15ESPLE | MASTER PLE-R 15W/827 E27 220-240V ICT 6 | 50 |
| 15ESSOFT10Y | Softone 15W WW E27 220-240V IPF 6 | 54 |
| 15SESOZP | Appliance 15W E14 230-240V T22 CL OV ICT 10X10F | 155 |
| 16830 | MASTER TL-D HF Super 80 16W/830 ISL 25 | 36 |
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| 16840TLDECO | MASTER TL-D Eco 16W/840 ISL 25 | 32 |
| 16ESAMBMS | MASTER Softone 16W WW E27 220-240V IPF 6 | 53 |
| 16PLQ8272PIN | PL-Q 16W/827/2P ICT 10 | 72 |
| 16PLQ8302PIN | PL-Q 16W/830/2P ICT 10 | 72 |
| 16PLQ8352PIN | PL-Q 16W/835/2P ICT 10 | 72 |
| 16PLQ8354PIN | PL-Q 16W/835/4P ICT 10 | 73 |
| 17PLR830ECO | MASTER PL-R Eco 17W/830/4P ICT 5X10CC | 57 |
| 17PLR840ECO | MASTER PL-R Eco 17W/840/4P ICT 5X10CC | 57 |
| 1800MHN5A956 | MASTER MHN-SA 1800W/956 (P)SFC 230V NO I | 107 |
| 1800MHN5A956R | MASTER MHN-SA 1800W/956 230V XWH NO I | 107 |
| 18042 | Twistline Alu 2000h 35W GU10 240V 40D ICT 50 | 135 |
| 18073 | Twistline Alu 2000h 50W GU10 240V 20D ICT 10X5F | 135 |
| 180SOX | SOX 180W BY22d T65 ISL 6 | 122 |
| 18160 | MASTERCapsule 20W GY6.35 12V IR ICT 5X10F | 133 |
| 18161 | MASTERCapsule 30W GY6.35 12V IR ICT 5X10F | 133 |
| 18162 | MASTERCapsule 45W GY6.35 12V IR ICT 5X10F | 133 |
| 18163 | MASTERCapsule 60W GY6.35 12V IR ICT 5X10F | 133 |
| 18827 | MASTER TL-D Super 80 18W/827 ISL 25 | 34 |
| 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 |
| 18830TLDPSS | MASTER TL-D Power Saver Set 12=18W/830 UNP 25 | 33 |
| 18830TLDPSSIXI | 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 |
| 18840TLDPSS | MASTER TL-D Power Saver Set 12=18W/840 UNP 25 | 33 |
| 18840TLDPSSIXI | 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 |
| 18865TLDPSS | MASTER TL-D Power Saver Set 12=18W/865 UNP 25 | 33 |
| 18865TLDPSSIXI | MASTER TL-D Power Saver Set 12=18W/865 ISL 25 | 33 |
| 18865XTREME | MASTER TL-D Xtreme 18W/865 ISL 25 | 40 |
| 18930DLP | MASTER TL-D 90 De Luxe 18W/930 SLV 10 | 42 |
| 18940DLP | MASTER TL-D 90 De Luxe 18W/940 SLV 10 | 42 |
| 18950DLP | MASTER TL-D 90 De Luxe 18W/950 SLV 10 | 42 |
| 18950GP | MASTER TL-D 90 Graphica 18W/950 ISL 10 | 43 |
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| 18BCSOFT10Y | Softone 18W VVV B22 220-240V IPF 6 | 54 |
| 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 |
| 18PLT8304PINCS | MASTER PL-T 18W/830/4P ICT 5X10CC | 65 |
| 18PLT8402PINCS | MASTER PL-T 18W/840/2P ICT 5X10CC | 64 |
| 18PLT8404PINCS | MASTER PL-T 18W/840/4P ICT 5X10CC | 65 |
| 18SOXE | MASTER SOX-E 18W BY22d T50 ISL 12 | 122 |
| 18WB22ECCOCLAS30 | EcoClassic 18W B22 240V B35 CL 1CT 15 | 137 |
| 18WSESECOCLAS30 | EcoClassic 18W E14 240V B35 CL 1CT 15 | 137 |
| 19840TLSECO | MASTER TL5 HE Eco 19=21W/840 ISL 20 | 24 |
| 2000HPIT | HPI-T 2000W/646 E40 220V ISL 4 | 112 |
| 2000MHNFC740 | MASTER MHN-FC 2000W/740 400V XW NO I | 109 |
| 2000MHNLA842 | MASTER MHN-LA 2000W/842 400V XWH NO I | 108 |
| 2000MHNLA956 | MASTER MHN-LA 2000W/956 400V XWH NO I | 108 |
| 2000MHNSA956 | MASTER MHN-SA 2000W/956 400V XW NO I | 107 |
| 2000MHNSA956HO | MASTER MHN-SA 2000W/956 400V XW HO UNP I | 107 |
| 2000MHN SBHO956 | 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 |
| 20CDMRI I 183010 | MASTERCouleur CDM-RI I 1 20W/830 GX8.5 10D ICT 6 | 93 |
| 20CDMRI I 183024 | MASTERCouleur CDM-RI I 1 20W/830 GX8.5 24D ICT 6 | 93 |
| 20CDMRM83010 | MASTERCouleur CDM-Rm Mini 20W/830 GX10 MRI6 10D ICT 12 | 91 |
| 20CDMRM83025 | MASTERCouleur CDM-Rm Mini 20W/830 GX10 MRI6 25D ICT 12 | 91 |
| 20CDMRM83040 | MASTERCouleur CDM-Rm Mini 20W/830 GX10 MRI6 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 |
| 24830 | MASTER TL5 HO 24W/830 ISL 40 | 26 |
| 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 |
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| 250HPIPLUSBUP | MASTER HPI Plus 250W/645 BU-P E40 ISL 12 | 111 |
| 250HPIPLUSDBU | MASTER HPI Plus 250W/667 BU E40 ISL 12 | 111 |
| 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 |
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| 250SONTCOM | SON-T Comfort 250W/621 E40 ISL 12 | 118 |
| 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 |
| 26PLT8274PINCS | MASTER PL-T 26W/827/4P ICT 5X10CC | 65 |
| 26PLT8302PINCS | MASTER PL-T 26W/830/2P ICT 5X10CC | 64 |
| 26PLT8304PINCS | MASTER PL-T 26W/830/4P ICT 5X10CC | 65 |
| 26PLT8304PINTOP | MASTER PL-T TOP 26W/830/4P ICT 5X10CC | 66 |
| 26PLT8402PINCS | MASTER PL-T 26W/840/2P ICT 5X10CC | 64 |
| 26PLT8404PINCS | 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 1CT 15 | 137 |
| 28BCCECO30A55 | EcoClassic 28W B22 240V A55 CL 1CT 10 | 136 |
| 28ESECO30A55 | EcoClassic 28W E27 240V A55 CL 1CT 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 1CT 15 | 137 |
| 28SESECO30P45CL | EcoClassic 28W E14 240V P45 CL 1CT 20 | 137 |
| 28WE27ECOC-GOLF | EcoClassic 28W E27 240V P45 CL 1CT 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 |
| 30MLI 1124D | MASTERLine I 11 30W G53 12V 24D ICT 6 | 129 |
| 30MLI 1118D | MASTERLine I 11 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 |
| 32PLT8274PINCS | MASTER PL-T 32W/827/4P ICT 5X10CC | 65 |
| 32PLT8304PINCS | MASTER PL-T 32W/830/4P ICT 5X10CC | 65 |
| 32PLT8304PXTRA | MASTER PL-T Xtra 32W/830/4P ICT 5X10CC | 67 |
| 32PLT8404PINCS | 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 | MASTERColour CDM-R Elite 35W/930 E27 PAR30L 10D ICT 6 | 90 |
| 35CDM930PAR3030 | MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D ICT 6 | 90 |
| 35CDMER11193010 | MASTERColour CDM-R111 Elite 35W/930 GX8.5 10D ICT 6 | 92 |
| 35CDMER11193024 | MASTERColour CDM-R111 Elite 35W/930 GX8.5 24D ICT 6 | 92 |
| 35CDMER11193040 | MASTERColour CDM-R111 Elite 35W/930 GX8.5 40D ICT 6 | 92 |
| 35CDMRI1183010 | MASTERColour CDM-R111 35W/830 GX8.5 10D ICT 6 | 93 |
| 35CDMRI1183024 | MASTERColour CDM-R111 35W/830 GX8.5 24D ICT 6 | 93 |
| 35CDMRI1183040 | MASTERColour CDM-R111 35W/830 GX8.5 40D ICT 6 | 93 |
| 35CDMRI1194210 | MASTERColour CDM-R111 35W/942 GX8.5 10D ICT 6 | 93 |
| 35CDMRI1194224 | MASTERColour CDM-R111 35W/942 GX8.5 24D ICT 6 | 93 |
| 35CDMRI1194240 | MASTERColour CDM-R111 35W/942 GX8.5 40D ICT 6 | 93 |
| 35CDMR830FL | MASTERColour CDM-R 35W/830 E27 PAR30L 30D ICT 6 | 92 |
| 35CDMR830FLP20 | MASTERColour CDM-R 35W/830 E27 PAR20 30D ICT 12 | 92 |
| 35CDMR830SP | MASTERColour CDM-R 35W/830 E27 PAR30L 10D ICT 6 | 92 |
| 35CDMR830SPP20 | MASTERColour CDM-R 35W/830 E27 PAR20 10D ICT 12 | 92 |
| 35CDMR930P3030 | MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D ICT 6 | 90 |
| 35CDMR942P2010D | MASTERColour CDM-R 35W/942 E27 PAR20 10D ICT 12 | 92 |
| 35CDMR942P2030D | MASTERColour CDM-R 35W/942 E27 PAR20 30D ICT 12 | 92 |
| 35CDMRMELI93010 | MASTERColour CDM-Rm Elite Mini 35W/930 GX10 MR16 10D ICT 12 | 90 |
| 35CDMRMELI93025 | MASTERColour CDM-Rm Elite Mini 35W/930 GX10 MR16 25D ICT 12 | 90 |
| 35CDMRMELI93040 | MASTERColour CDM-Rm Elite Mini 35W/930 GX10 MR16 40D ICT 12 | 90 |
| 35CDMT830 | MASTERColour CDM-T 35W/830 G12 ICT 12 | 79 |
| 35CDMT942 | MASTERColour CDM-T 35W/842 G12 ICT 12 | 79 |
| 35CDMTC830 | MASTERColour CDM-TC 35W/830 G8.5 ICT 12 | 82 |
| 35CDMTC942 | MASTERColour CDM-TC 35W/842 G8.5 ICT 12 | 82 |
| 35CDMTCCELITE930 | MASTERColour CDM-TC Elite 35W/930 G8.5 ICT 12 | 81 |
| 35CDMTCCELITE942 | MASTERColour CDM-TC Elite 35W/942 G8.5 ICT 12 | 81 |
| 35CDMTCCEVO930 | MASTERColour CDM-TC Evolution 35W/930 G8.5 ICT 12 | 80 |
| 35CDMTELITE930 | MASTERColour CDM-T Elite 35W/930 G12 ICT 12 | 78 |
| 35CDMTELITE942 | MASTERColour CDM-T Elite 35W/942 G12 ICT 12 | 78 |
| 35CDMTEVO930 | MASTERColour CDM-T Evolution 35W/930 G12 ICT 12 | 77 |
| 35CDMTM930 | MASTERColour CDM-Tm Mini 35W/930 PGJ5 ICT 12 | 87 |
| 35SDWT | MASTER SDW-T 35W/825 PG12-1 ISL 12 | 95 |
| 35SOX | SOX 35W BY22d T50 ISL 12 | 122 |
| 35SOXPLUS | SOX 35W BY22d T50 ISL 12 | 122 |
| 35SOXPSG | MASTER SOX PSG 35W BY22d T50 ISL 12 | 121 |
| 3608 | TL-D 36W BLB ISL 25 | 43 |
| 36827 | MASTER TL-D Super 80 36W/827 ISL 25 | 34 |
| 36830 | MASTER TL-D Super 80 36W/830 ISL 25 | 34 |
| 36830TLDPSS | MASTER TL-D Power Saver Set 23=36W/830 UNP 25 | 33 |
| 36830TLDPSS1X1 | MASTER TL-D Power Saver Set 23=36W/840 ISL 25 | 33 |
| 36830XTRA | MASTER TL-D Xtra 36W/830 ISL 25 | 37 |
| 36830XTRAPOLAR | MASTER TL-D Xtra Polar 36W/830 T12 ISL 10 | 38 |
| 36835 | MASTER TL-D Super 80 36W/835 ISL 25 | 34 |
| 36840 | MASTER TL-D Super 80 36W/840 ISL 25 | 34 |
| 36840R | MASTER TL-D Reflex 36W/840 ISL 25 | 36 |
| 36840TLDPSS | MASTER TL-D Power Saver Set 23=36W/840 UNP 25 | 33 |
| 36840TLDPSS1X1 | MASTER TL-D Power Saver Set 23=36W/840 ISL 25 | 33 |
| 36840XTRA | MASTER TL-D Xtra 36W/840 ISL 25 | 37 |
| 36840XTREME | MASTER TL-D Xtreme 36W/840 ISL 25 | 40 |
| 36840XTREMESEC | MASTER TL-D Xtreme Secura 36W/840 ISL 25 | 41 |
| 36840XTREMEPOLAR | MASTER TL-D Xtreme Polar 36W/840 ISL 10 | 41 |
| 36865 | MASTER TL-D Super 80 36W/865 ISL 25 | 34 |
| 36865TLDPSS | MASTER TL-D Power Saver Set 23=36W/865 UNP 25 | 33 |
| 36865TLDPSS1X1 | MASTER TL-D Power Saver Set 23=36W/865 ISL 25 | 33 |
| 36865XTREME | MASTER TL-D Xtreme 36W/865 ISL 25 | 40 |
| 36930DLP | MASTER TL-D 90 De Luxe 36W/930 SLV 10 | 42 |
| 36940DLP | MASTER TL-D 90 De Luxe 36W/940 SLV 10 | 42 |
| 36950DLP | MASTER TL-D 90 De Luxe 36W/950 SLV 10 | 42 |
| 36950GP | MASTER TL-D 90 Graphica 36W/950 ISL 10 | 43 |
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| 36PLL830 | MASTER PL-L 36W/830/4P ICT 25 | 68 |
| 36PLL830POLAR | MASTER PL-L Polar 36W/830/4P ICT 25 | 69 |
| 36PLL830XTRA | MASTER PL-L Xtra 36W/830/4P ICT 25 | 70 |
| 36PLL830XTRAPOL | MASTER PL-L Xtra Polar 36W/830/4P ICT 25 | 71 |
| 36PLL840 | MASTER PL-L 36W/840/4P ICT 25 | 68 |
| 36PLL840POLAR | MASTER PL-L Polar 36W/840/4P ICT 25 | 69 |
| 36PLL840XTRA | MASTER PL-L Xtra 36W/840/4P ICT 25 | 70 |
| 36PLL865 | MASTER PL-L 36W/865/4P ICT 25 | 68 |
| 36SOXE | MASTER SOX-E 36W BY22d T50 ISL 12 | 122 |
| 38830NG | MASTER TL-D Super 80 38W/830 ISL 25 | 34 |
| 38840NG | MASTER TL-D Super 80 38W/840 ISL 25 | 34 |
| 38PLQ8304PIN | PL-Q 38W/830/4P ICT 10 | 73 |
| 38PLQ8354PIN | PL-Q 38W/835/4P ICT 10 | 73 |
| 38PLQ8404PIN | PL-Q 38W/840/4P ICT 10 | 73 |
| 39830 | MASTER TL5 HO 39W/830 ISL 40 | 26 |
| 39830IP | MASTER TL5 HO 39W/830 UNP 40 | 26 |
| 39840 | MASTER TL5 HO 39W/840 ISL 40 | 26 |
| 400HPIPLUSBU | MASTER HPI Plus 400W/645 BU E40 ISL 6 | 111 |
| 400HPIPLUSBUP | MASTER HPI Plus 400W/645 BU-P E40 ISL 6 | 111 |
| 400HPIPLUSBUS | MASTER HPI Plus 400W/645 BUS E40 ISL 6 | 111 |
| 400HPIPLUSBUP | MASTER HPI Plus 400W/645 BUS-P E40 ISL 6 | 111 |
| 400HPIPLUSDBU | MASTER HPI Plus 400W/667 BU E40 ISL 6 | 111 |
| 400HPITPLUS | MASTER HPI-T Plus 400W/645 E40 ISL 12 | 110 |
| 400SONCOM | SON Comfort 400W/621 E40 ISL 12 | 119 |
| 400SONPLUS | MASTER SON PIA Plus 400W/220 E40 ISL 12 | 116 |
| 400SONPLUSXTRA | MASTER SON APIA Plus Xtra 400W E40 ISL 12 | 114 |
| 400SONTCOM | SON-T Comfort 400W/621 E40 ISL 12 | 118 |
| 400SONTGP | MASTER GreenPower CG T 400W E40 ISL 12 | 120 |
| 400SONTPLUS | MASTER SON-T PIA Plus 400W/220 E40 ISL 12 | 115 |
| 400SONTPLUSXTRA | MASTER SON-T APIA Plus Xtra 400W E40 ISL 12 | 113 |
| 40PLL830 | MASTER PL-L 40W/830/4P ICT 25 | 68 |
| 40PLL835 | MASTER PL-L 40W/835/4P ICT 25 | 68 |
| 40PLL840 | MASTER PL-L 40W/840/4P ICT 25 | 68 |
| 40SESOZ | Appliance 40W E14 240V P45 CL OV ICT 10X10F | 155 |
| 40ESR50SPZP | Reflector 40W E14 240V NR50 30D ICT 30 | 156 |
| 40TLC830 | MASTER TL5 Circular 40W/830 ICT 10 | 31 |
| 40TLC840 | MASTER TL5 Circular 40W/840 ICT 10 | 31 |
| 4151800MHNSA956 | MASTER MHN-SA 1800W/956 (P)SFC 400V NO 1 | 107 |
| 4152000HPITN | HPI-T 2000W/542 E40 380V CRP 4 | 112 |
| 415600SONTGP | MASTER GreenPower 600W 400V E40 ISL 12 | 120 |
| 41840TL5ECO+ | MASTER TL5 HO EcoPlus 41=49W/840 UNP 40 | 25 |
| 608 | TL 6W BLB 1FM 10X25CC | 46 |
| 633 | TL Mini 6W/33-640 1FM 10X25CC | 45 |
| 833 | TL Mini 8W/33-640 1FM 10X25CC | 45 |
| 884 | MASTER TL Mini Super 80 8W/840 1FM 10X25CC | 45 |
| 6433 | Aluline 20W 12V R37 6D CL ICT 10X5F | 132 |
| 6434 | Aluline 20W 12V R37 18D CL ICT 10X5F | 132 |
| 6438 | Aluline 50W 12V R56 10D CL ICT 10X5F | 132 |
| 49830 | MASTER TL5 HO 49W/830 ISL 40 | 26 |
| 49835 | MASTER TL5 HO 49W/835 ISL 40 | 26 |
| 49840 | MASTER TL5 HO 49W/840 ISL 40 | 26 |
| 49865 | MASTER TL5 HO 49W/865 ISL 40 | 26 |
| 50840 | MASTER TL-D HF Super 80 50W/840 ISL 25 | 36 |
| 54830 | MASTER TL5 HO 54W/830 ISL 40 | 26 |
| 54840 | MASTER TL5 HO 54W/840 ISL 40 | 26 |
| 54865 | MASTER TL5 HO 54W/865 ISL 40 | 26 |
| 58827 | MASTER TL-D Super 80 58W/827 ISL 25 | 34 |
| 58830 | MASTER TL-D Super 80 58W/830 ISL 25 | 34 |
| 58835 | MASTER TL-D Super 80 58W/835 ISL 25 | 34 |
| 58840 | MASTER TL-D Super 80 58W/840 ISL 25 | 34 |
| 58865 | MASTER TL-D Super 80 58W/865 ISL 25 | 34 |
| 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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| 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 |
| 50ALUI1124D | 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 |
| 50CDMTVEO930 | 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 |
| 50CDOTPLUS828 | MASTER CityWhite CDO-TT Plus 50W/828 E27 ISL 12 | 105 |
| 50SDWT | MASTER SDW-T 50W/825 PG12-1 ISL 12 | 95 |
| 50SDWGT | 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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| MASTERColour CDM-R Elite 35W/930 E27 PAR30L 30D ICT | 872790086544800 | 90 |
| MASTERColour CDM-R Elite 50W/930 E27 PAR30L 10D ICT | 871829124196600 | 90 |
| MASTERColour CDM-R Elite 50W/930 E27 PAR30L 30D ICT | 871829124198000 | 90 |
| MASTERColour CDM-R Elite 50W/930 E27 PAR30L 40D ICT | 871829124200000 | 90 |
| MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D ICT | 871829124186700 | 90 |
| MASTERColour CDM-R Elite 70W/930 E27 PAR30L 10D ICT | 872790086530100 | 90 |
| MASTERColour CDM-R Elite 70W/930 E27 PAR30L 30D ICT | 871829124188100 | 90 |
| MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D ICT | 871829124190400 | 90 |
| MASTERColour CDM-R Elite 70W/930 E27 PAR30L 40D ICT | 872790086534900 | 90 |
| MASTERColour CDM-R111 20W/830 GX8.5 10D ICT | 871150020947410 | 93 |
| MASTERColour CDM-R111 20W/830 GX8.5 24D ICT | 871150020951110 | 93 |
| MASTERColour CDM-R111 35W/830 GX8.5 10D ICT | 871150020448610 | 93 |

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| MASTERColour CDM-R111 35W/830 GX8.5 40D ICT | 871150020452310 | 93 |
| MASTERColour CDM-R111 35W/942 GX8.5 10D ICT | 871150021385310 | 93 |
| MASTERColour CDM-R111 35W/942 GX8.5 24D ICT | 871150021387710 | 93 |
| MASTERColour CDM-R111 35W/942 GX8.5 40D ICT | 871150021389110 | 93 |
| MASTERColour CDM-R111 70W/830 GX8.5 10D ICT | 871150020719710 | 93 |
| MASTERColour CDM-R111 70W/830 GX8.5 24D ICT | 871150020721010 | 93 |
| MASTERColour CDM-R111 70W/830 GX8.5 40D ICT | 871150020723410 | 93 |
| MASTERColour CDM-R111 70W/942 GX8.5 24D ICT | 871150021393810 | 93 |
| MASTERColour CDM-R111 70W/942 GX8.5 40D ICT | 871150021395210 | 93 |
| MASTERColour CDM-R111 Elite 35W/930 GX8.5 10D ICT | 871829168918800 | 92 |
| MASTERColour CDM-R111 Elite 35W/930 GX8.5 24D ICT | 871829168944700 | 92 |
| MASTERColour CDM-R111 Elite 35W/930 GX8.5 40D ICT | 871829168952200 | 92 |
| MASTERColour CDM-R111 Elite 50W/930 GX8.5 10D ICT | 871829114561500 | 92 |
| MASTERColour CDM-R111 Elite 50W/930 GX8.5 24D ICT | 871829114565300 | 92 |
| MASTERColour CDM-R111 Elite 50W/930 GX8.5 40D ICT | 871829114569100 | 92 |
| MASTERColour CDM-R111 Elite 70W/930 GX8.5 10D ICT | 871829168962100 | 92 |
| MASTERColour CDM-R111 Elite 70W/930 GX8.5 24D ICT | 871829168970600 | 92 |
| MASTERColour CDM-R111 Elite 70W/930 GX8.5 40D ICT | 871829168978200 | 92 |
| MASTERColour CDM-Rm Elite Mini 35W/930 GX10 MR16 10D ICT | 871829116296400 | 90 |
| MASTERColour CDM-Rm Elite Mini 35W/930 GX10 MR16 25D ICT | 871829116300800 | 90 |
| MASTERColour CDM-Rm Elite Mini 35W/930 GX10 MR16 40D ICT | 871829116306000 | 90 |
| MASTERColour CDM-Rm Elite Mini 50W/930 GX10 MR16 25D ICT | 871829112090200 | 90 |
| MASTERColour CDM-Rm Elite Mini 50W/930 GX10 MR16 40D ICT | 871829112094000 | 90 |
| MASTERColour CDM-Rm Elite Mini 50W/930 GX10 MR16 60D ICT | 871829112086500 | 90 |
| MASTERColour CDM-Rm Mini 20W/830 GX10 MR16 10D ICT | 871829120274500 | 91 |
| MASTERColour CDM-Rm Mini 20W/830 GX10 MR16 25D ICT | 871829120301800 | 91 |
| MASTERColour CDM-Rm Mini 20W/830 GX10 MR16 40D ICT | 871829120303200 | 91 |
| MASTERColour CDM-T 150W/830 G12 ICT | 871150019780115 | 79 |
| MASTERColour CDM-T 150W/942 G12 ICT | 871150020005115 | 79 |
| MASTERColour CDM-T 20W/830 G12 ICT | 872790087156200 | 79 |
| MASTERColour CDM-T 250W/830 G12 ICT | 871150020801915 | 79 |
| MASTERColour CDM-T 250W/942 G12 ICT | 871150021112515 | 79 |
| MASTERColour CDM-T 35W/830 G12 ICT | 871150019697215 | 79 |
| MASTERColour CDM-T 35W/842 G12 ICT | 871150021126215 | 79 |
| MASTERColour CDM-T 70W/830 G12 ICT | 871150019699615 | 79 |
| MASTERColour CDM-T 70W/942 G12 ICT | 871150019927015 | 79 |
| MASTERColour CDM-T Elite 100W/930 G12 ICT | 872790087169200 | 78 |
| MASTERColour CDM-T Elite 100W/942 G12 ICT | 871829123178300 | 78 |
| MASTERColour CDM-T Elite 150W/930 G12 ICT | 871150021312915 | 78 |
| MASTERColour CDM-T Elite 35W/930 G12 ICT | 872790091137400 | 78 |
| MASTERColour CDM-T Elite 35W/942 G12 ICT | 871829116364000 | 78 |
| MASTERColour CDM-T Elite 50W/930 G12 ICT | 872790093060300 | 78 |
| MASTERColour CDM-T Elite 50W/942 G12 ICT | 871829120159500 | 78 |
| MASTERColour CDM-T Elite 70W/930 G12 ICT | 872790091141100 | 78 |
| MASTERColour CDM-T Elite 70W/942 G12 ICT | 871829116362600 | 78 |
| MASTERColour CDM-T Evolution 20W/930 G12 ICT | 871829165912900 | 77 |
| MASTERColour CDM-T Evolution 35W/930 G12 ICT | 871829165121500 | 77 |
| MASTERColour CDM-T Evolution 50W/930 G12 ICT | 871829170122400 | 77 |
| MASTERColour CDM-T Fresh 70W/740 G12 ICT | 871829112544000 | 82 |
| MASTERColour CDM-T Warm 70W/925 G12 ICT | 871829120305600 | 84 |
| MASTERColour CDM-TC - 70W/842 G8.5 ICT | 871150021275715 | 82 |
| MASTERColour CDM-TC 20W/830 G8.5 ICT | 872790087158600 | 82 |
| MASTERColour CDM-TC 35W/830 G8.5 ICT | 871150020000615 | 82 |
| MASTERColour CDM-TC 35W/842 G8.5 ICT | 871150020957315 | 82 |
| MASTERColour CDM-TC 70W/830 G8.5 ICT | 871150020167615 | 82 |
| MASTERColour CDM-TC Elite 35W/930 G8.5 ICT | 872790091149700 | 81 |
| MASTERColour CDM-TC Elite 35W/942 G8.5 ICT | 871829116366400 | 81 |
| MASTERColour CDM-TC Elite 50W/930 G8.5 ICT | 872790093062700 | 81 |
| MASTERColour CDM-TC Elite 50W/942 G8.5 ICT | 871829120163200 | 81 |
| MASTERColour CDM-TC Elite 70W/930 G8.5 ICT | 872790091153400 | 81 |
| MASTERColour CDM-TC Elite 70W/942 G8.5 ICT | 871829116368800 | 81 |
| MASTERColour CDM-TC Evolution 20W/930 G8.5 ICT | 871829165920400 | 80 |
| MASTERColour CDM-TC Evolution 35W/930 G8.5 ICT | 871829165125300 | 80 |
| MASTERColour CDM-TC Evolution 50W/930 G8.5 ICT | 871829170126200 | 80 |
| MASTERColour CDM-TC Fresh 70W/740 G8.5 ICT | 871829116329900 | 83 |
| MASTERColour CDM-TC Warm 70W/925 G8.5 ICT | 871829120307000 | 84 |
| MASTERColour CDM-TD 150W/830 RX7s ICT | 871150019784915 | 89 |
| MASTERColour CDM-TD 150W/942 RX7s ICT | 871150020025915 | 89 |
| MASTERColour CDM-TD 70W/830 RX7s ICT | 871150019782515 | 89 |
| MASTERColour CDM-TD 70W/942 RX7s ICT | 871150020002015 | 89 |
| MASTERColour CDM-Tm Elite Mini 35W/930 GU6.5 ICT | 871829115382500 | 86 |
| MASTERColour CDM-Tm Elite Mini 50W/930 GU6.5 ICT | 871829115386300 | 86 |
| MASTERColour CDM-Tm Evolution Mini 20W/930 GU6.5 ICT | 871829172863400 | 85 |

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| MASTERColour CDM-Tm Mini 35W/930 PGJ5 ICT | 871150021149115 | 87 |
| MASTERColour CDM-Tm Mini GU.6.5 20W/830 ICT | 872790089083900 | 86 |
| MASTERColour CDM-TMW Elite 210W/930 ICT | 871829113950800 | 104 |
| MASTERColour CDM-TMW Elite 210W/930 ICT | 871829113954600 | 104 |
| MASTERColour CDM-TMW Elite 210W/942 ICT | 871829113952200 | 104 |
| MASTERColour CDM-TMW Elite 210W/942 CL P ICT | 872790086211900 | 104 |
| MASTERColour CDM-TMW Elite 315W/930 ICT | 871829113956000 | 104 |
| MASTERColour CDM-TMW Elite 315W/930 ICT | 871829154801000 | 104 |
| MASTERColour CDM-TMW Elite 315W/930 ICT | 872790080157600 | 104 |
| MASTERColour CDM-TMW Elite 315W/942 ICT | 871829113960700 | 104 |
| MASTERColour CDM-TMW Elite 315W/942 ICT | 871829154803400 | 104 |
| MASTERColour CDM-TP 150W/830 PGX12-2 ICT | 871150020125615 | 88 |
| MASTERColour CDM-TP 150W/942 PGX12-2 ICT | 871150020111915 | 88 |
| MASTERColour CDM-TP 70W/830 PG12-2 ICT | 871150020127015 | 88 |
| MASTERColour CDM-TP 70W/842 PG12-2 ICT | 871150020113315 | 88 |
| MASTERLine III 30W G53 12V 24D ICT | 871150041103710 | 129 |
| MASTERLine III 30W G53 12V 8D ICT | 871150041101310 | 129 |
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| MASTERLine III 60W G53 12V 24D ICT | 871150041115010 | 129 |
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| MASTERLine III 60W G53 12V 8D ICT | 871150041111210 | 129 |
| MASTERLine ES 20W GU.5.3 12V 36D ICT | 871150041367371 | 128 |
| MASTERLine ES 20W GU.5.3 12V 8D ICT | 871150041364271 | 128 |
| MASTERLine ES 30W GU.5.3 12V 24D ICT | 871150041375871 | 128 |
| MASTERLine ES 30W GU.5.3 12V 36D ICT | 871150041378971 | 128 |
| MASTERLine ES 30W GU.5.3 12V 60D ICT | 871150041382671 | 128 |
| MASTERLine ES 30W GU.5.3 12V 8D ICT | 871150041370371 | 128 |
| MASTERLine ES 35W GU.5.3 12V 24D ICT | 871150041397071 | 128 |
| MASTERLine ES 35W GU.5.3 12V 36D ICT | 871150042432771 | 128 |
| MASTERLine ES 35W GU.5.3 12V 60D ICT | 871150042435871 | 128 |
| MASTERLine ES 35W GU.5.3 12V 8D ICT | 871150041387171 | 128 |
| MASTERLine ES 45W GU.5.3 12V 24D ICT | 871150042441971 | 128 |
| MASTERLine ES 45W GU.5.3 12V 36D ICT | 871150042444071 | 128 |
| MASTERLine ES 45W GU.5.3 12V 60D ICT | 871150042447171 | 128 |
| MASTERLine ES 45W GU.5.3 12V 8D ICT | 871150042438971 | 128 |
| MHN-TD 150W/730 RX7s ICT | 871150019350615 | 96 |
| MHN-TD 150W/842 RX7s ICT | 871829121536300 | 96 |
| MHN-TD 70W/730 RX7s ICT | 871150056268515 | 96 |
| MHN-TD 70W/730 RX7s ICT | 871829121530100 | 96 |
| Mounting clips UNP | 871829112270800 | 14 |
| Mounting profile 10 degr 1700mm INO | 871829116780800 | 14 |
| MSD 150/2 ICT | 872790091571600 | 144 |
| MSR 1,200/2 ICT | 872790091133600 | 141 |
| MSR 700 SA ICT | 871829122802800 | 142 |
| MSR Gold™ 1,200 SA/DE ICT | 871829122121000 | 142 |
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| PI PE-KNX-2P | 871016353534000 | 218 |
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| PI PE-KNX-4P | 871016353532600 | 218 |
| PI PE-KNX-4P-2G | 871016353528900 | 218 |
| PABPE-MM-X | 871829167049000 | 223 |
| PAR38 120W E27 24V SP 10D ICT | 871150038073915 | 157 |
| PAR38 IR 100W E27 240V CL ICT | 871150012893515 | 146 |
| PAR38 IR 175W E27 240V CL ICT | 871150012895915 | 146 |
| PAR56 300W Multipurpose 12V UW ICT | 871150015969442 | 157 |
| PATPA-BA-X | 871829170834600 | 223 |
| PATPA-BB-X | 871829170838400 | 223 |
| PATPA-BC-X | 871829170836000 | 223 |
| PATPA-BW-X | 871829170832200 | 223 |
| PATPA-WA-X | 871829170826100 | 223 |
| PATPA-WB-X | 871829170830800 | 223 |
| PATPA-WC-X | 871829170828500 | 223 |
| PATPA-WVV-X | 871829170824700 | 223 |
| PDBC120-DALI-KNX | 871016353378000 | 218 |
| PDRCL1216FR-KNX | 871016353512800 | 218 |
| PDRCL16FR-KNX | 871016353514200 | 218 |
| PDRCL816FR-KNX | 871016353510400 | 218 |
| PL-Q 16W/827/2P ICT | 871150026965225 | 72 |
| PL-Q 16W/830/2P ICT | 871150026987425 | 72 |
| PL-Q 16W/835/2P ICT | 871150026966925 | 72 |
| PL-Q 16W/835/4P ICT | 871150027206525 | 73 |
| PL-Q 28W/827/4P ICT | 871150026991125 | 73 |
| PL-Q 28W/830/4P ICT | 871150026992825 | 73 |
| PL-Q 28W/835/4P ICT | 871150026967625 | 73 |
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| PL-Q 38W/840/4P ICT | 871150027174725 | 73 |
| PLC-KNX | 871016353520300 | 218 |
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| PLPC905GL-3-HD-KNX | 871016353526500 | 218 |
| PLPC905GL-3-KNX | 871016353372800 | 218 |
| PLPC905GL-4-HD-KNX | 871016353536400 | 218 |
| PLPC905GL-4-KNX | 871016353508100 | 218 |
| Plusline Large 1000W R7s 240V ICT | 871150005597225 | 138 |
| PPMI4-DALI | 871016353524100 | 218 |
| PPS640-KNX | 871016353518000 | 218 |
| Primaline 105,230-240V 50/60Hz ICT | 871150091268830 | 203 |
| Primaline 150,230-240V 50/60Hz ICT | 871150091270130 | 203 |
| Primaline 70,230-240V 50/60Hz ICT | 871150091266430 | 203 |
| PWRDAT iPOWER DATA ENABLER GR CE | 871829160262099 | 229 |
| R125 IR 250W E27 230-250V CL ICT | 871150012649825 | 146 |
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| Reflector 40W E14 240V NR50 30D ICT | 871150037986378 | 156 |
| SI0 4-65W SIN 220-240V WH EUR INO | 8711500697769131 | 150 |
| SI0 4-65W SIN 220-240V WH EUR UNP | 871150069779128 | 150 |
| SI2 115-140W SIN 220-240V UNP | 871150093792266 | 151 |
| SI6 70-125W 240V UNP | 871150090356328 | 151 |
| SI6 70-125W 240V UNP | 871150090356331 | 151 |
| S2 4-22W SER 220-240V WH EUR BOX INO | 871150069750931 | 150 |
| S2 4-22W SER 220-240V WH EUR UNP | 871150069750928 | 150 |
| SI 51,220-240V 50/60Hz UNP | 871150091553530 | 184 |
| SI 51-S 220-240V 50/60Hz UNP | 871150074749530 | 184 |
| SI 52,220-240V 50/60Hz UNP | 871150091554230 | 184 |
| SI 54,380-415V 50/60Hz INO | 871150091548130 | 184 |
| SK 578,220-240V 50/60Hz INO | 872790089568100 | 185 |
| SK 578-S 220-240V 50/60Hz UNP | 872790089570400 | 185 |
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| SKD 578-S 220-240V 50/60Hz UNP | 872790089569800 | 185 |
| SN 57,220-240V 50/60Hz UNP | 871150091555930 | 184 |
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| SN 58,220-240V 50/60Hz UNP | 871150091556630 | 184 |
| SN 58-S 220-240V 50/60Hz UNP | 871150074175230 | 184 |
| SN 59,220-240V 50/60Hz UNP | 871150091557330 | 184 |
| SN 61,220-240V 50/60Hz UNP | 871150091639630 | 184 |
| SND 57,220-240V 50/60Hz UNP | 871150093066830 | 184 |
| SND 58,220-240V 50/60Hz UNP | 871150093068230 | 184 |
| SND 58-S 220-240V 50/60Hz UNP | 871150093070530 | 184 |
| Softone 11W WW B22 220-240V IPF | 871829168192200 | 54 |
| Softone 11W WW E27 220-240V IPF | 871829168206600 | 54 |
| Softone 15W WW E27 220-240V IPF | 871829168264600 | 54 |
| Softone 18W WW B22 220-240V IPF | 871829168273800 | 54 |
| Softone 18W WW E27 220-240V IPF | 871829168278300 | 54 |
| Softone 5W WW E27 220-240V IPF | 871829168179300 | 54 |
| SON 50W/220 E27 ISL | 871150018195430 | 117 |
| SON 50W/220 I E27 ISL | 871150018189330 | 117 |
| SON 70W/220 E27 ISL | 871150018192330 | 117 |
| SON 70W/220 I E27 ISL | 871150018186230 | 117 |
| SON Comfort 150W/621 E40 ISL | 871150018216615 | 119 |
| SON Comfort 250W/621 E40 ISL | 871150018219715 | 119 |
| SON Comfort 400W/621 E40 ISL | 871150018222715 | 119 |
| SON H 110W I E27 ICT | 871829111857200 | 119 |
| SON H 220W/220 E40 ISL | 871150018207415 | 119 |
| SON H 350W/220 E40 ISL | 871150018213515 | 119 |
| SON-T 1000W/220 E40 ISL | 871150018412245 | 117 |
| SON-T Comfort 150W/621 E40 ISL | 871150019228815 | 118 |
| SON-T Comfort 250W/621 E40 ISL | 871150017985215 | 118 |
| SON-T Comfort 400W/621 E40 ISL | 871150017986915 | 118 |
| SOX 135W BY22d T65 ISL | 871150019475615 | 122 |
| SOX 135W BY22d T65 ISL | 871150073500115 | 122 |
| SOX 180W BY22d T65 ISL | 871150073516410 | 122 |
| SOX 35W BY22d T50 ISL | 871150019469515 | 122 |
| SOX 35W BY22d T50 ISL | 871150073500315 | 122 |
| SOX 55W BY22d T50 ISL | 871150019471815 | 122 |
| SOX 55W BY22d T50 ISL | 871150060031815 | 122 |
| SOX 90W BY22d T65 ISL | 871150019473215 | 122 |
| SOX 90W BY22d T65 ISL | 871150073502715 | 122 |
| SSLCTR IPLAYER3 AUX BOX 100-277V CE CQC | 871829137704799 | 227 |
| SSLCTR LRC9626 VSM PRO DVI | 872790071559000 | 227 |
| SSLCTR LRC9627 ETHERNET KEYPAD (POE) | 871794370064699 | 228 |
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| Standard ELV 60W E27/BRC 50V A60 CL ICT | 871150010188484 | 154 |
| SUD 10-S 220-240V 50/60Hz UNP | 871150093144330 | 184 |
| SX 26,220-240V 50/60Hz UNP | 871150091590030 | 184 |
| SX 70,220-240V 50/60Hz UNP | 871150091549830 | 184 |
| SX 72,220-240V 50/60Hz UNP | 871150091561030 | 184 |
| SX 73,220-240V 50/60Hz UNP | 871150092005830 | 184 |
| SX 74,220-240V 50/60Hz UNP | 871150091569630 | 184 |
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| TL 6W BLB 1FM | 871150095098727 | 46 |
| TL Mini 13W/33-640 1FM | 871150070475727 | 45 |
| TL Mini 6W/33-640 1FM | 871150071583827 | 45 |
| TL Mini 8W/33-640 1FM | 871150070473327 | 45 |
| TL-D 18W BLB ISL | 871150095111340 | 43 |
| TL-D 36W BLB ISL | 871150095115140 | 43 |
| TL-X XL 20W/33-640 ISL | 871150026135940 | 44 |
| TL-X XL 40W/33-640 ISL | 871150026137340 | 44 |
| TL-X XL 65W/33-640 ISL | 871150026139740 | 44 |
| Twistline Alu 2000h 35W GU10 240V 40D ICT | 871150065280565 | 135 |
| Twistline Alu 2000h 50W GU10 240V 20D ICT | 871150042850960 | 135 |
| Twistline Alu 2000h 50W GU10 240V 40D ICT | 871150041261460 | 135 |
| UIA8550 TOBETOUCHED PSU ICT | 872790088683200 | 226 |
| UID8540 TOBETOUCHED COLOR DMX ICT | 872790087352800 | 226 |
| Value-plus LDM400 1500mm(59") CW INO | 871829124763000 | 10 |
| Value-plus LDM400 1500mm(59") NW INO | 871829124767800 | 10 |
| Value-plus LDM400 1500mm(59") WW INO | 871829124344100 | 10 |
| Value-plus LDM400 1700mm(67") CW INO | 871829124657200 | 10 |
| Value-plus LDM400 1700mm(67") NW INO | 871829124737100 | 10 |
| Value-plus LDM410 750mm(30") CW INO | 871829124848400 | 11 |
| Value-plus LDM410 750mm(30") NW INO | 871829124852100 | 11 |
| Value-plus LDM410 950mm(37") CW INO | 871829124809500 | 11 |
| Value-plus LDM410 950mm(37") NW INO | 871829124829300 | 11 |
| Value-plus LDM421 1200mm(47") NW INO | 871829124370000 | 12 |
| Value-plus LDM421 1200mm(47") NW INO | 871829124436300 | 12 |
| Value-plus LDM421 1200mm(47") WW INO | 871829124374800 | 12 |
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