



Lighting Catalogue 2008-2009

Trade and Wholesale
Lighting International Sales

PHILIPS
sense and simplicity

Introduction

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Lamps

2

LED

3

Luminaires

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Lamp Control Gear

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Philips - The world leader in lighting

Philips is the global leader in lighting. Since 1891 we have been providing innovative lighting products and solutions. Philips is also committed to building a shared vision with our partners and translating this into day-to-day cooperation. We build long-lasting partnerships based on trust and mutual advantage and support our customers with marketing sales and supply performance.



Switch to energy efficient lighting

If the world switched from using older less energy efficient lighting to the latest lighting technologies it could save more than 550 million tonnes of CO₂ emissions per year - which would be a major help in our planets struggle with climate change. In addition new lighting technologies also save money and provide better quality light.



Look out for this logo !

If you buy a Philips product with a green logo, you know you are buying not only the best-in-class but also making the best environmental choice. This could mean, its the most energy efficient, or has the lowest level of hazardous substances or has the longest lamp life.

Energy efficient solutions

For each customer segment an energy efficient lighting solution exists already today

Area of lighting	Energy savings	CO ₂ savings per lamp per year*
Street lighting	HPL 57% CosmoPolis	132 kg CO ₂
Retail lighting	Halo 80% CDM	140 kg CO ₂
Office & Industrial lighting	TB 61% TLS	93 kg CO ₂
Home lighting	GLS 80% CFLI	41 kg CO ₂
LEDs	GLS 80% LED	41 kg CO ₂

*Based on 0.51 kg / CO₂ kWh

As a good global citizen Philips is heavily involved in introducing and promoting these new lighting technologies. In december 2006 the company became the first lighting manufacturer to call for a global phase out of incandescent light bulbs. In addition to energy efficiency Philips is also leading the way in reducing the mercury content of its products to the lowest levels in the industry.



Innovation is what we do best

We bring lighting innovations to the market. This is what we do best and we have been doing it for more than 100 years. In this way we create both business opportunities for ourselves and our partners and provide meaningful improvements in peoples lives. Philips has invested heavily in the future of lighting in recent years, with multi billion Euro investments and new business start ups.



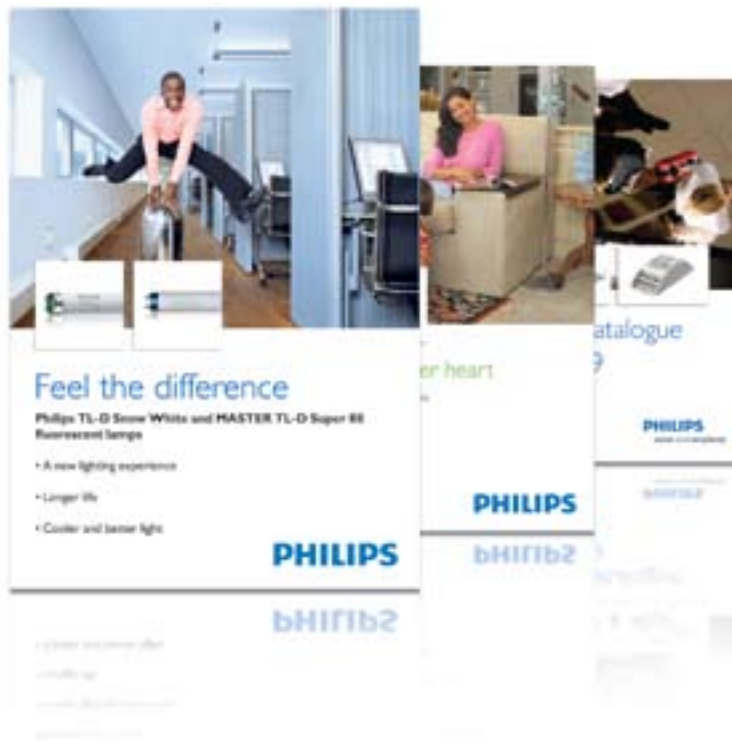
Support - Online and marcom

We provide both online and marketing tools support

- www.lighting.philips.com/me_a
- e-catalogue - full product information available 24/7
- Case studies and the latest projects
- Details of new product and marketing initiatives

For further information please e-mail:

Marcom@Philips.com





Shaping the future

Philips seeks to improve people's lives with lighting by thoroughly understanding and fulfilling their needs, desires and aspirations. Our brand promise of "sense and simplicity" is more than just an advertising slogan. It's the approach for everything we do, from our products to our way of doing business.

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Product survey

Compact 2.1
Fluorescent
Integrated
Lamps



Essential
2.1.1



Essential 12V Direct
Current
2.1.3



Essential Long life
2.1.5



Genie
2.1.7



Genie Long Life
2.1.9



Tornado Mini
2.1.11



Tornado
2.1.13



Tornado Dimmable
2.1.15



Ambiance Standard
Shape
2.1.17



Ambiance Coloured
2.1.19



Ambiance Reflector
2.1.21



Ambiance Reflector
PAR38
2.1.23



Ambiance Candle Shape
2.1.25



Decotwist
2.1.27



MASTER ECOTONE
High Lumen Twister
2.1.29

Product survey

2.2 Compact
Fluorescent
Non-Integrated
& Fluorescent
Lamps



MASTER PL-S 2Pin
2.2.1



MASTER PL-S 4Pin
2.2.3



MASTER PL-C 2Pin
2.2.5



MASTER PL-C 4Pin
2.2.9



MASTER PL-L 4Pin
2.2.11



MASTER TL5 High
Efficiency
2.2.15



MASTER TL5 High
Output
2.2.19



MASTER TL-D Super 80
2.2.23



TL-D Snow White
2.2.25



MASTER TL-D Xtra
2.2.27



MASTER TL-D Xtreme
2.2.29



TL-D Standard Colours
2.2.31



TL-E Standard Colours
2.2.35



TL Mini Standard
Colours
2.2.37



MASTER TL-D ECO
2.2.39

Product survey

Halogen Lamps 2.3



MASTER Line ES
2.3.1



Essential Dichroic MR16
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Capsuleline
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Essential Twistline Alu
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Plusline (Double Ended)
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EcoClassic 30
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Product survey

2.4 Incandescent Lamps



Standard (A-shape)
2.4.1



Standard Candle (B-shape)
2.4.5



Standard Lustre (P-shape)
2.4.9



A55 White (A-shape)
2.4.13



Softone Globe (G-shape)
2.4.15



Deco Candle Swan-Neck
2.4.17



Party Standard (A-shape)
2.4.19



Party Lustre (P-shape)
2.4.21



Philinea
2.4.23



PAR38
2.4.25



PAR38 Coloured
2.4.27



Reflector R50
2.4.29



Reflector R63
2.4.31



Reflector R80/E80
2.4.33



Reflector Colours
2.4.35

Incandescent Lamps 2.4



Softone T55
2.4.37

2.5 Compact High Intensity Discharge Lamps



MASTER Colour CDM-T
2.5.1



MASTER Colour CDM-TD
2.5.3



MHN/W-TD
2.5.5

High Intensity Discharge Lamps 2.6



MASTER HPI-T Plus 2.6.1



MASTER HPI Plus (Daylight) 2.6.3



SON 2.6.5



SON-T 2.6.7



SON H 2.6.9



HPL-N 2.6.11



ML 2.6.13

2.7 Starters



Lamp Control Gear 2.7.1



LivingColors
3.1



IMAGEO Glass
CandleLights
3.3



IMAGEO Coloured
CandleLights
3.5



IMAGEO TeaLights
3.7



IMAGEO Colour
changing wax candle
3.9



IMAGEO TableLights
3.11



IMAGEO LightStrip
3.13



SpotOn
3.15



GuideLight
3.17



DecoLED
3.19



TBS288
4.1



TBS147
4.3



Latina Compact HID
4.7



Latina
4.9



Zadora adjustable
4.11



Zadora fixed
4.13



Pentura Mini
4.15



Pentura Mini CC
4.17



TMS012
4.19



TCW051
4.23



TCW050
4.25



Tempo
4.27

Lamp 5
Control
Gear



HF-Regulator II TL-D
5.1



HF-Select TL-D
5.3



EB-Transalume TLD
5.5



BTA
5.7



BSN
5.9



BHL
5.11



Ignitors
5.13



Primaline
5.15



ET-E
5.17



2 Lamps



Compact Fluorescent Integrated Lamps





Essential 18W



Attractive value

Good value for money

- Trusted quality energy savers for best performance
- Choice of light colours
- New lamp cap design for a refined, more sophisticated appearance with embossed Philips marking

Up to 80% energy saving

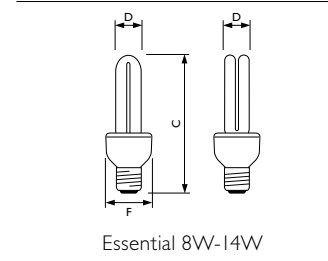
- The Essential range can replace the full incandescent range from 40W up to 125W up to 80% energy saving

Long Life: 6 years

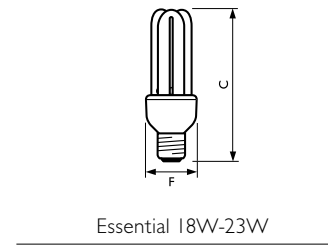
- Long reliable life of up to 6000 hrs, which is 6 times longer when compared to standard incandescent lamps
- 1 year guarantee
- Safety fuse for flicker free start

Best environmental choice

- The Essential range is fully RoHS compliant, conforming to the most strict environmental legislation in the world



Essential 8W-14W



Essential 18W-23W

Dimensions in mm	C	F
	max.	max.
Essential 8W	140	44
Essential 11W	155	44
Essential 14W	170	44
Essential 18W	165	52
Essential 23W	175	52

Applications

- The Essential range is widely used to replace incandescent light
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls

Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base (V)	Lamp Voltage (V)	Frequency (Hz)	Colour Temperature (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Colour Rendering Index (Ra)	Equivalent light of ordinary Incandescent	Box quantity	Order Code
Cool Daylight											
Essential	8W	E27	220-240V	50-60Hz	6500	440	55	80	40W	12	39591315
Essential	8W	B22	220-240V	50-60Hz	6500	440	55	80	40W	12	39593715
Essential	11W	E27	220-240V	50-60Hz	6500	620	56	80	60W	12	39595115
Essential	11W	B22	220-240V	50-60Hz	6500	620	56	80	60W	12	39597515
Essential	14W	E27	220-240V	50-60Hz	6500	820	59	80	75W	12	39599915
Essential	14W	B22	220-240V	50-60Hz	6500	820	59	80	75W	12	39601915
Essential	18W	E27	220-240V	50-60Hz	6500	1100	61	80	100W	12	39603315
Essential	18W	B22	220-240V	50-60Hz	6500	1100	61	80	100W	12	39605715
Essential	23W	E27	220-240V	50-60Hz	6500	1420	62	80	125W	12	39607115
Essential	23W	B22	220-240V	50-60Hz	6500	1420	62	80	125W	12	39609515

Warm White											
Essential	8W	E27	220-240V	50-60Hz	2700	460	58	82	40W	12	39590615
Essential	8W	B22	220-240V	50-60Hz	2700	460	58	82	40W	12	39592015
Essential	11W	E27	220-240V	50-60Hz	2700	650	59	82	60W	12	39594415
Essential	11W	B22	220-240V	50-60Hz	2700	650	59	82	60W	12	39596815
Essential	14W	E27	220-240V	50-60Hz	2700	860	61	82	75W	12	39598215
Essential	14W	B22	220-240V	50-60Hz	2700	860	61	82	75W	12	39600215
Essential	18W	E27	220-240V	50-60Hz	2700	1170	65	82	100W	12	39602615
Essential	18W	B22	220-240V	50-60Hz	2700	1170	65	82	100W	12	39604015
Essential	23W	E27	220-240V	50-60Hz	2700	1460	63	82	125W	12	39606415
Essential	23W	B22	220-240V	50-60Hz	2700	1460	63	82	125W	12	39608815

Essential I2V Direct Current

Economy



Essential I2V



A perfect light in remote areas

Perfect suitable for remote areas

- The lamps operate on a simple 6-13V battery, enabling you to have light also in remote rural areas with limited power supply
- The Essential I2V DC can be directly used in combination with solar panels

Up to 80% energy saving

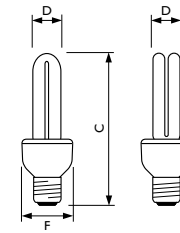
- The Essential I2V DC lamps offer you the additional benefit of up to 80% less energy consumption when compared to standard incandescent lamps

Long Life: 6 Years

- Long and reliable life of 6000 hrs, which is up to 6 times longer when compared to incandescent lamps

Essential I2V Direct Current

Economy



Essential I2V

Dimensions in mm	C	F
Essential DC6W	125	44
Essential DC11W	155	44

Applications

- The Essential I2V DC is perfectly suitable in applications with low voltage power supply like busses, ships and cars and in combination with solar panels

Preferred selection

Product ID	Lamp Wattage	Cap/ Base	Lamp Voltage	Frequency	Colour Temp.	Lumen Output	Luminous Efficacy	Colour Rendering Index	Box quantity	Incandescent Equivalent	Order Code
	(W)		(V)	(Hz)		(Lm)	(Lm/W)	(Ra)			8710163
Cool Daylight											
Essential DC	6W	E27	10-13V	50-60Hz	6500	250	41	80	6	25W	21027810
Essential DC	6W	B22	10-13V	50-60Hz	6500	250	41	80	6	25W	21043810
Essential DC	11W	E27	10-13V	50-60Hz	6500	580	52	80	6	60W	21028510
Essential DC	11W	B22	10-13V	50-60Hz	6500	580	52	80	6	60W	21044510

Warm White

Essential DC	6W	E27	10-13V	50-60Hz	2700	280	46	82	6	25W	21039110
Essential DC	6W	B22	10-13V	50-60Hz	2700	280	46	82	6	25W	21041410
Essential DC	11W	E27	10-13V	50-60Hz	2700	600	54	82	6	60W	21040710
Essential DC	11W	B22	10-13V	50-60Hz	2700	600	54	82	6	60W	21042110

Essential Long life

Economy



Essential Long Life



Very attractive value

Good value for money

- Trusted quality energy savers for long and reliable performance
- Frequent turning on/off up to 15000 times for long life
- Choice of colours

Up to 80% energy saving

- The Essential Long Life range is available in 20W and 23W in high voltage replacing 100W and 125W incandescent equivalents for up to 80% energy saving

Long life: 12 Years

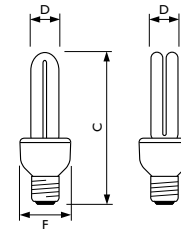
- Long and reliable life of 12000 hrs, which is up to 12 times longer when compared to incandescent lamps
- 1 year guarantee
- Safety fuse and flicker free start

Best Environmental choice

- The Essential Long Life range is fully RoHS compliant conforming to the most strict environmental legislation in the world

Essential Long life

Economy



Essential Long Life

Dimensions in mm	C	F
	max.	max.
Essential Long Life 20W	165	52
Essential Long Life 23W	175	52

Applications

- The Essential Long Life range is widely used to replace incandescent lamp
- The long life time and 15000 switching cycles is ideal for applications where lamps are frequently switched on and off
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers and electronic devices

Preferred selection

Product ID	Lamp Wattage	Cap/ Base	Lamp Voltage	Frequency	Colour Temp.	Luminous Flux	Luminous Efficacy	Colour Rendering Index	Incandescent Equivalent	Box quantity	Order Code
	(W)	(V)	(Hz)	(K)	(lm)	(Lm/w)	(Ra)				8710163
Cool Daylight											
Essential Long Life	20W	E27	220-240V	50-60Hz	6500	1200	62	80	100W	12	39689715
Essential Long Life	20W	B22	220-240V	50-60Hz	6500	1200	62	80	100W	12	39693415
Essential Long Life	23W	E27	220-240V	50-60Hz	6500	1420	62	80	125W	12	39691015
Essential Long Life	23W	B22	220-240V	50-60Hz	6500	1420	62	80	125W	12	39695815

Warm White

Essential Long Life	20W	E27	220-240V	50-60Hz	2700	1250	65	82	100W	12	39688015
Essential Long Life	20W	B22	220-240V	50-60Hz	2700	1250	65	82	100W	12	39692715
Essential Long Life	23W	E27	220-240V	50-60Hz	2700	1460	63	82	125W	12	39690315
Essential Long Life	23W	B22	220-240V	50-60Hz	2700	1460	63	82	125W	12	39694115



Genie 14W/18W



A small lamp for big energy saving

Small size, fits any lamp shade in your home

- The Genie range is the top choice due to its small and compact size
- 20% smaller when compared to the Essential range, for perfect fit in small luminaires
- New lamp cap design for a refined, more sophisticated appearance with embossed Philips marking

Up to 80% energy saving

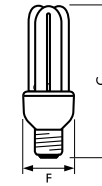
- The Genie range can replace the full incandescent range from 25W up to 100W for energy saving of up to 80%

Long Life: 8 years

- Up to 8 times longer when compared to normal incandescent lamps
- 1 year guarantee
- Safety fuse for instant and flicker free start

Best environmental choice

- The Genie range is fully RoHS compliant, conforming to the most strict environmental legislation in the world



Genie

Dimensions in mm	C	F
Genie 5W	105	37
Genie 8W	105	44
Genie 11W	115	44
Genie 14W	130	44
Genie 18W	133	48

Applications

- The Genie range is widely used to replace incandescent light bulbs in indoor fixtures, table fixtures and other consumer or (semi) professional applications that require small sized lamps
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls

Preferred selection

Product ID	Lamp	Cap/ Wattage (W)	Lamp Base (V)	Frequency (Hz)	Colour Temperature (K)	Luminous Flux (Lm)	Efficacy (Lm/W)	Colour Rendering Index (Ra)	Incandescent Equivalent	Box quantity	Order code
Cool Daylight											
Genie	5W	E27	220-240V	50-60Hz	6500	235	47	80	25W	12	39357534
Genie	5W	E14	220-240V	50-60Hz	6500	235	47	80	25W	12	39361234
Genie	5W	B22	220-240V	50-60Hz	6500	235	47	80	25W	12	39359934
Genie	8W	E27	220-240V	50-60Hz	6500	415	52	80	40W	12	39363634
Genie	8W	E14	220-240V	50-60Hz	6500	415	52	80	40W	12	39367434
Genie	8W	B22	220-240V	50-60Hz	6500	415	52	80	40W	12	39365034
Genie	11W	E14	220-240V	50-60Hz	6500	600	54	80	60W	12	39373534
Genie	11W	E27	220-240V	50-60Hz	6500	600	54	80	60W	12	39369834
Genie	11W	B22	220-240V	50-60Hz	6500	600	54	80	60W	12	39371134
Genie	14W	E27	220-240V	50-60Hz	6500	790	56	80	75W	12	39375934
Genie	14W	B22	220-240V	50-60Hz	6500	790	56	80	75W	12	39377334
Genie	18W	E27	220-240V	50-60Hz	6500	1040	58	80	100W	12	39379734
Genie	18W	B22	220-240V	50-60Hz	6500	1040	58	80	100W	12	39381034

Warm White

Genie	5W	E27	220-240V	50-60Hz	2700	250	50	82	25W	12	39356834
Genie	5W	E14	220-240V	50-60Hz	2700	250	50	82	25W	12	39360534
Genie	5W	B22	220-240V	50-60Hz	2700	250	50	82	25W	12	39358234
Genie	8W	E27	220-240V	50-60Hz	2700	440	55	82	40W	12	39362934
Genie	8W	E14	220-240V	50-60Hz	2700	440	55	82	40W	12	39366734
Genie	8W	B22	220-240V	50-60Hz	2700	440	55	82	40W	12	39364334
Genie	11W	E14	220-240V	50-60Hz	2700	610	55	82	60W	12	39372834
Genie	11W	E27	220-240V	50-60Hz	2700	610	55	82	60W	12	39368134
Genie	11W	B22	220-240V	50-60Hz	2700	610	55	82	60W	12	39370434
Genie	14W	E27	220-240V	50-60Hz	2700	840	60	82	75W	12	39374234
Genie	14W	B22	220-240V	50-60Hz	2700	840	60	82	75W	12	39376634
Genie	18W	E27	220-240V	50-60Hz	2700	1100	61	82	100W	12	39378034
Genie	18W	B22	220-240V	50-60Hz	2700	1100	61	82	100W	12	39380334

Genie Long Life

Compact



Genie Long Life



A welcome light, savings in sight

Top-level performance, High switches

- Compact high quality energy saver for extra long and reliable performance
- Frequent turning on/off, up to 15000 times for long life

Up to 80% energy saving

- The Genie Long Life range can replace 25W up to 75W incandescent equivalents for energy savings of up to 80%

Long life: 12 Years

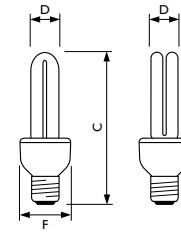
- Up to 12 times longer when compared to incandescent lamp, for less maintenance and replacements costs
- 1 year guarantee
- Safety fuse and flicker free start

Best environmental choice

- The Genie Long Life range is fully RoHS compliant conforming to the most strict environmental legislation in the world

Genie Long Life

Compact



Genie Long Life

Dimensions in mm	C	F
Genie Long Life E27/B22 5W	105	37
Genie Long Life E27/B22 8W	105	44
Genie Long Life E27/B22 11W	115	44
Genie Long Life E27/B22 14W	130	44
Genie Long Life E27/B22 18W	133	48

Applications

- The Genie Long Life range is widely used to replace incandescent lamp
- The long lifetime and 15000 switching cycles is ideal for applications where lamps are frequently switched on/off. Especially suitable for hotel applications like lobby, rooms, corridors, restaurant
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers

Preferred selection

Product ID	Lamp Wattage	Cap/ Base	Lamp Voltage	Frequency	Colour Temp.	Luminous Flux	Luminous Efficacy	Colour Rendering Index	Incandescent Equivalent	Box quantity	Order Code
	(W)		(V)	(Hz)	(K)	(Lm)	(Lm/W)	(Ra)		pcs	8710163
Cool Daylight											
Genie Long Life	5W	E27	220-240V	50-60Hz	6500	235	47	80	25W	48	39705415
Genie Long Life	5W	B22	220-240V	50-60Hz	6500	235	47	80	25W	48	39713915
Genie Long Life	8W	E27	220-240V	50-60Hz	6500	415	52	80	40W	48	39707815
Genie Long Life	8W	B22	220-240V	50-60Hz	6500	415	52	80	40W	48	39715315
Genie Long Life	11W	E27	220-240V	50-60Hz	6500	600	54	80	60W	48	39709215
Genie Long Life	11W	B22	220-240V	50-60Hz	6500	600	54	80	60W	48	39717715
Genie Long Life	14W	E27	220-240V	50-60Hz	6500	790	56	80	75W	48	39711515
Genie Long Life	14W	B22	220-240V	50-60Hz	6500	790	56	80	75W	48	39719115
Genie Long Life	18W	E27	220-240V	50-60Hz	6500	1040	58	80	100W	48	40151515
Genie Long Life	18W	B22	220-240V	50-60Hz	6500	1040	58	80	100W	48	40153915

Warm White

Genie Long Life	5W	E27	220-240V	50-60Hz	2700	250	50	82	25W	48	39704715
Genie Long Life	5W	B22	220-240V	50-60Hz	2700	250	50	82	25W	48	39712215
Genie Long Life	8W	E27	220-240V	50-60Hz	2700	440	55	82	40W	48	39706115
Genie Long Life	8W	B22	220-240V	50-60Hz	2700	440	55	82	40W	48	39714615
Genie Long Life	11W	E27	220-240V	50-60Hz	2700	610	55	82	60W	48	39708515
Genie Long Life	11W	B22	220-240V	50-60Hz	2700	610	55	82	60W	48	39716015
Genie Long Life	14W	E27	220-240V	50-60Hz	2700	840	60	82	75W	48	39710815
Genie Long Life	14W	B22	220-240V	50-60Hz	2700	840	60	82	75W	48	39718415
Genie Long Life	18W	B22	220-240V	50-60Hz	2700	1100	61	82	100W	48	40150815
Genie Long Life	18W	B22	220-240V	50-60Hz	2700	1100	61	82	100W	48	40152215

Tornado Mini

Decorative



Tornado Mini



Small with a bigger heart

More and brighter light, smallest in size

- New premium range in 5W, 8W and 12W
- 20% more and brighter light and is 25% smaller in size when compared to the Genie range
- Perfect decorative fit for small and open luminaires

Up to 80% energy saving

- The new Tornado Mini range can replace 25W up to 60W incandescent bulbs for instant energy savings of up to 80%

Long Life: 8 years

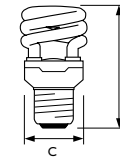
- Up to 8 times longer life when compared to normal incandescent lamps
- 1 year guarantee
- Safety fuse and flicker-free start

Best environmental choice

- The Tornado Mini range is fully RoHS compliant, conforming to the most strict environmental legislation in the world

Tornado Mini

Decorative



Tornado Mini 5W-12W

Dimensions in mm	C	F
Tornado Mini 5W	40	77
Tornado Mini 8W	40	84
Tornado Mini 12W	40	91

Applications

- The Tornado Mini range is widely used to replace incandescent light bulbs in all kinds of applications, especially where intensive light output is required
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls

Preferred selection

Product ID	Lamp Wattage (W)	Cap/Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Lumen Output (Lm)	Luminous Efficacy (Lm/W)	Rendering Index (R _a)	Box quantity pcs	Order Code
Cool Daylight										
Tornado Mini	5W	B22	220-240V	50-60Hz	6500	285	57	80	12	39441115
Tornado Mini	5W	E14	220-240V	50-60Hz	6500	285	57	80	12	39447315
Tornado Mini	5W	E27	220-240V	50-60Hz	6500	285	57	80	12	39435015
Tornado Mini	8W	B22	220-240V	50-60Hz	6500	475	59	80	12	39443515
Tornado Mini	8W	E14	220-240V	50-60Hz	6500	475	59	80	12	39449715
Tornado Mini	8W	E27	220-240V	50-60Hz	6500	475	59	80	12	39437415
Tornado Mini	12W	B22	220-240V	50-60Hz	6500	685	62	80	12	39445915
Tornado Mini	12W	E14	220-240V	50-60Hz	6500	685	62	80	12	39451015
Tornado Mini	12W	E27	220-240V	50-60Hz	6500	685	62	80	12	39439815

Warm White

Tornado Mini	5W	B22	220-240V	50-60Hz	2700	300	60	82	12	39440415
Tornado Mini	5W	E14	220-240V	50-60Hz	2700	300	60	82	12	39446615
Tornado Mini	5W	E27	220-240V	50-60Hz	2700	300	60	82	12	39434315
Tornado Mini	8W	B22	220-240V	50-60Hz	2700	500	62	82	12	39442815
Tornado Mini	8W	E14	220-240V	50-60Hz	2700	500	62	82	12	39448015
Tornado Mini	8W	E27	220-240V	50-60Hz	2700	500	62	82	12	39436715
Tornado Mini	12W	B22	220-240V	50-60Hz	2700	725	65	82	12	39444215
Tornado Mini	12W	E14	220-240V	50-60Hz	2700	725	65	82	12	39450315
Tornado Mini	12W	E27	220-240V	50-60Hz	2700	725	65	82	12	39438115

Tornado

Decorative



Tornado



The decorative lamp with high light output

More and brighter light, decorative shape

- Distinct, decorative shape, creating a modern look
- The spiral shape allows for more and better light distribution, offering up to 20% more and brighter light compared to Genie energy savers

Up to 80% energy saving

- The Tornado range can replace 60W up to 125W incandescent lamps for energy savings up to 80%

Long Life: 8 years

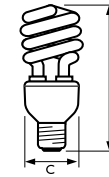
- Up to 8 times longer when compared to incandescent lamps
- 1 year guarantee
- Safety fuse for instant and flicker free start

Best environmental choice

- The Tornado range is fully RoHS compliant, conforming to the most strict environmental legislation in the world

Tornado

Decorative



Tornado

Dimensions in mm	C	F
Tornado 11W	44	700
Tornado 15W	44	1000
Tornado 20W	48	1350
Tornado 23W	48	1550

Applications

- The Tornado range is widely used to replace incandescent light bulbs in all kinds of applications, especially where intensive light output is required
- Enclosed luminaires are required for outdoor use
- Not suitable for dimmers, electronic switches or remote controls

Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Rendering Index (Ra)	Incandescent Equivalent	Box quantity pcs	Order Code 8710163
Cool Daylight											
Tornado	11W	B22	220-240V	50-60Hz	6500	660	60	80	60W	12	39657615
Tornado	11W	E27	220-240V	50-60Hz	6500	660	60	80	60W	12	39653815
Tornado	15W	E27	220-240V	50-60Hz	6500	950	60	80	75W	12	39655215
Tornado	15W	B22	220-240V	50-60Hz	6500	950	60	80	75W	12	39659015
Tornado	20W	E27	220-240V	50-60Hz	6500	1250	63	80	100W	12	39661315
Tornado	20W	B22	220-240V	50-60Hz	6500	1250	63	80	100W	12	39665115
Tornado	23W	E27	220-240V	50-60Hz	6500	1450	63	80	125W	12	39663715
Tornado	23W	B22	220-240V	50-60Hz	6500	1450	63	80	125W	12	39667515

Warm White

Tornado	11W	E27	220-240V	50-60Hz	2700	700	64	82	60W	12	39652115
Tornado	11W	B22	220-240V	50-60Hz	2700	700	64	82	60W	12	39656915
Tornado	15W	E27	220-240V	50-60Hz	2700	1000	63	82	75W	12	39654515
Tornado	15W	B22	220-240V	50-60Hz	2700	1000	63	82	75W	12	39658315
Tornado	20W	E27	220-240V	50-60Hz	2700	1350	67	82	100W	12	39660615
Tornado	20W	B22	220-240V	50-60Hz	2700	1350	67	82	100W	12	39664415
Tornado	23W	E27	220-240V	50-60Hz	2700	1550	67	82	125W	12	39662015
Tornado	23W	B22	220-240V	50-60Hz	2700	1550	67	82	125W	12	39666815

Tornado Dimmable

Comfort



Tornado Dimmable



Create the perfect light level for any activity

Dim to create the perfect lighting mood

- Tornado Dimmable allows you to adjust to the light level that suits the situation like watching TV, reading, eating or entertaining friends
- Tornado Dimmable can be used on most existing conventional dimmers, no need to rewire or refit existing dimmers

Up to 80% energy savings

- An ideal replacement for incandescent bulbs allowing a dimming experience comparable to traditional incandescent bulbs, whilst saving up to 80% on energy consumption

Long Life: 8 Years

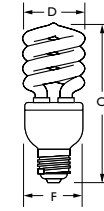
- 8000 hrs. Up to 8 times longer life when compared to incandescent lamps
- 1 year guarantee

Best Environmental choice

- Fully RoHS compliant, conforming to the most strict environmental legislation in the world

Tornado Dimmable

Comfort



Tornado Dimmable

Dimensions in mm	C	F
	60	125

Applications

- An ideal replacement for incandescent bulbs and standard energy savers in indoor fixtures, meeting both functional and aesthetic lighting requirements. Compatible with existing wall and on-luminaire dimmers
- Ideal for living, dining rooms, bedrooms, halls and studies
- Enclosed fixtures are required for outdoor applications

Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base (V)	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Lumen Output (Lm)	Luminous Efficacy (Lm/W)	Rendering Index (R _a)	Incandescent Equivalent	Order Code
Cool Daylight										
Tornado Dimmable	20W	E27	220-240V	50-60Hz	6500	1100	55	80	100 W	available on request
Tornado Dimmable	20W	B22	220-240V	50-60Hz	6500	1100	55	80	100 W	available on request

Warm White

Tornado Dimmable	20W	E27	220-240V	50-60Hz	2700	1155	58	82	100 W	available on request
Tornado Dimmable	20W	B22	220-240V	50-60Hz	2700	1155	58	82	100 W	available on request

Ambiance Standard Shape

Comfort



Ambiance Standard Shape



For pleasant light effects

Attractive modern design in a classic shape

- The Ambiance range offers a decorative appeal to complement elegant, modern light fittings in homes, restaurants and hotels
- An elegant cover for a comfortable low glare light that is soft on the eyes
- In a familiar standard shape, similar in size to their incandescent equivalent

Up to 80% energy saving

- The Ambiance range with classic shape is an ideal replacement for incandescent bulbs of 25W up to 75W, saving up to 80% on energy consumption

Long Life: 6 Years

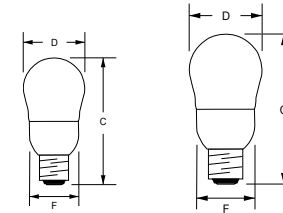
- 6000 hrs. Up to 6 times longer when compared to incandescent lamps
- 1 year guarantee, safety fuse and flicker free start

Best Environmental choice

- The Ambiance Standard range is fully RoHS compliant conforming to the most strict environmental legislation in the world

Ambiance Standard Shape

Comfort



Ambiance
5W-11W

Ambiance
14W-18W

Dimensions in mm	C	F
5W	106	45
8W	106	45
11W	106	45
14W	106	50
18W	106	50

Applications

- Designed for replacement of incandescent lamps in standard shape for decorative and functional indoor applications
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

Preferred selection

Product ID	Lamp Wattage	Cap/ Base*	Lamp Voltage	Frequency	Colour Temperature	Colour Rendering Index	Light Output	Efficacy	Dimmable	Order Code
	(W)		(V)	(Hz)	(K)	(R _a)	(Lumen)	(Lm/W)		8710163
Cool Daylight										
Ambiance	5W	E27	220-240V	50-60Hz	6500	80	190	38	No	40163815
Ambiance	5W	B22	220-240V	50-60Hz	6500	80	190	38	No	40165215
Ambiance	8W	E27	220-240V	50-60Hz	6500	80	380	47	No	40167615
Ambiance	8W	B22	220-240V	50-60Hz	6500	80	380	47	No	40169015
Ambiance	11W	E27	220-240V	50-60Hz	6500	80	540	49	No	40171315
Ambiance	11W	B22	220-240V	50-60Hz	6500	80	540	49	No	40173715
Ambiance	14W	E27	220-240V	50-60Hz	6500	80	780	56	No	40211610
Ambiance	14W	B22	220-240V	50-60Hz	6500	80	780	56	No	40213010
Ambiance	18W	E27	220-240V	50-60Hz	6500	80	1000	56	No	40215410
Ambiance	18W	B22	220-240V	50-60Hz	6500	80	1000	56	No	40217810

Warm White

Ambiance	5W	E27	220-240V	50-60Hz	2700	82	200	40	No	40162115
Ambiance	5W	B22	220-240V	50-60Hz	2700	82	200	40	No	40164515
Ambiance	8W	E27	220-240V	50-60Hz	2700	82	400	50	No	40166915
Ambiance	8W	B22	220-240V	50-60Hz	2700	82	400	50	No	40168315
Ambiance	11W	E27	220-240V	50-60Hz	2700	82	570	51	No	40170615
Ambiance	11W	B22	220-240V	50-60Hz	2700	82	570	51	No	40172015
Ambiance	14W	E27	220-240V	50-60Hz	2700	82	820	59	No	40210910
Ambiance	14W	B22	220-240V	50-60Hz	2700	82	820	59	No	40212310
Ambiance	18W	E27	220-240V	50-60Hz	2700	82	1050	58	No	40214710
Ambiance	18W	B22	220-240V	50-60Hz	2700	82	1050	58	No	40216110

Ambiance Coloured

Decorative



Ambiance Coloured



For pleasant light effects

A choice of very attractive colours

- Coloured decorative energy-saving range is available in four bright colours: red, green, yellow and blue
- For original lighting effects and decorative ambiances for a multitude of occasions and applications

Colours that save up to 80% on energy

- The Ambiance Coloured range brings you both colours and energy savings up to 80%
- Long reliable life up to 6000 hrs which is up to 6 times longer life compared to normal incandescent lamps

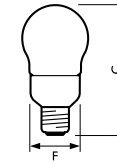
Suitable for many application areas

- Ambiance Coloured energy savers can be used in a wide range of decorative applications, both outdoor and indoor, e.g. streets, facades, shopping centres, parties and special celebrations
- Not suitable for dimming and electronic devices

Ambiance Coloured

Decorative

Dimensions in mm	C	F
Ambiance Coloured	124	44



Ambiance Coloured

Ambiance Coloured

Wattage (W)	Cap/ Base	Voltage (V)	Bulb Shape	Frequency (Hz)	Colour	Box quantity	Dimmable	Order Code
Ambiance Coloured 11W	E27	220-240	A60	50-60	Blue	6	No	15728310
Ambiance Coloured 11W	B22	220-240	A60	50-60	Blue	6	No	21019315
Ambiance Coloured 11W	E27	220-240	A60	50-60	Green	6	No	15727610
Ambiance Coloured 11W	B22	220-240	A60	50-60	Green	6	No	21018615
Ambiance Coloured 11W	E27	220-240	A60	50-60	Red	6	No	15725210
Ambiance Coloured 11W	B22	220-240	A60	50-60	Red	6	No	21016215
Ambiance Coloured 11W	E27	220-240	A60	50-60	Yellow	6	No	15726910
Ambiance Coloured 11W	B22	220-240	A60	50-60	Yellow	6	No	21017915

Ambiance Reflector

Focus



Ambiance Reflector



Focussed light

Energy-saving solution for directional light

- An ideal energy saving replacement for incandescent reflector bulbs in indoor fixtures that give focused lighting effects

Up to 80% energy saving

- The Reflector range is available in the exact same diameters as their incandescent equivalent, allowing for immediate saving of up to 80% on energy consumption

Long Life: 6 Years

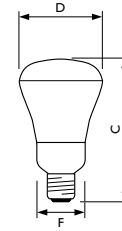
- 6000 hrs. Up to 6 times longer when compared to incandescent lamps
- 1 year guarantee

Best Environmental choice

- The Ambiance Reflector range is fully RoHS compliant conforming to the most strict environmental legislation in the world

Ambiance Reflector

Focus



Ambiance Reflector

Dimensions in mm	C	F
8W R60	114	44
11W R63	124	44
14W R80	130	50
18W R80	144	50

Applications

- Designed for replacement of incandescent and halogen reflector lamps in downlighters in home and more professional applications like shops, restaurants, cafés
- Not suitable for dimming and electronic devices

Preferred selection

Product ID	Lamp Watt.	Cap/ Base	Bulb Shape	Lamp Voltage	Freq.	Colour Temp.	Colour Rendering Index (Ra)	Beam Angle	Light Output	Efficacy	Packaging Type / config.	Life time	Dim.	Order Code
	(W)		(V)	(Hz)	(K)		(degrees)	(Lumen)	(Lm/W)		(hrs)	(hrs)		8710163
Cool Daylight														
Ambiance Ref.	8W	E27	R63	220-240V	50-60Hz	6500	80	120	265	33	ICT/12	6000	No	40223915
Ambiance Ref.	8W	B22	R63	220-240V	50-60Hz	6500	80	120	265	33	ICT/12	6000	No	40225315
Ambiance Ref.	11W	E27	R63	220-240V	50-60Hz	6500	80	120	365	33	ICT/12	6000	No	40227715
Ambiance Ref.	11W	B22	R63	220-240V	50-60Hz	6500	80	120	365	33	ICT/12	6000	No	40229115
Ambiance Ref.	14W	E27	R80	220-240V	50-60Hz	6500	80	120	585	42	ICT/6	6000	No	40231410
Ambiance Ref.	14W	B22	R80	220-240V	50-60Hz	6500	80	120	585	42	ICT/6	6000	No	40233810
Ambiance Ref.	18W	E27	R95	220-240V	50-60Hz	6500	80	120	800	45	ICT/6	6000	No	40235210
Ambiance Ref.	18W	B22	R95	220-240V	50-60Hz	6500	80	120	800	45	ICT/6	6000	No	40237610

Warm White

Ambiance Ref.	8W	E27	R63	220-240V	50-60Hz	2700	82	120	280	35	ICT/12	6000	No	40222215
Ambiance Ref.	8W	B22	R63	220-240V	50-60Hz	2700	82	120	280	35	ICT/12	6000	No	40224615
Ambiance Ref.	11W	E27	R63	220-240V	50-60Hz	2700	82	120	385	35	ICT/12	6000	No	40226015
Ambiance Ref.	11W	B22	R63	220-240V	50-60Hz	2700	82	120	385	35	ICT/12	6000	No	40228415
Ambiance Ref.	14W	E27	R80	220-240V	50-60Hz	2700	82	120	615	44	ICT/6	6000	No	40230710
Ambiance Ref.	14W	B22	R80	220-240V	50-60Hz	2700	82	120	615	44	ICT/6	6000	No	40232110
Ambiance Ref.	18W	E27	R95	220-240V	50-60Hz	2700	82	120	840	47	ICT/6	6000	No	40234510
Ambiance Ref.	18W	B22	R95	220-240V	50-60Hz	2700	82	120	840	47	ICT/6	6000	No	40236910

Ambiance Reflector PAR38

Wide beam



Ambiance Reflector PAR38



Save energy outdoors

Same size, Wide beam

- Same size as the PAR38 incandescent equivalent, not fit issues in existing luminaires
- Wide beam angle of 120°
- Hard glass makes the lamps suitable for outdoor use

Up to 80% energy saving

- For savings of up to 80% energy as you can directly replace 80W and 120W PAR38 incandescent lamps

Long Life: 6 Years

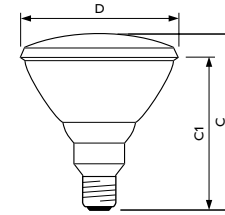
- Reliable life of 6000 hrs, which is up to 6 times longer when compared to incandescent lamps
- 1 year guarantee
- Constant light output thanks to amalgam technology

Best Environmental choice

- The Ambiance Reflector range is fully RoHS compliant conforming to the most strict environmental legislation in the world

Ambiance Reflector PAR38

Wide beam



Ambiance Reflector PAR38

Dimensions in mm	C	F	D
PAR38 18W	135	43	120
PAR38 23W	159	73	120

Applications

- Wide range of indoor and outdoor applications like shops, windows displays, homes, hotels, buildings, statues, exhibitions, parks & gardens
- Not suitable for enclosed fixtures
- Not suitable for dimmers, electronic switches or remote controls

Preferred selection

Product ID	Lamp Wattage	Cap/ Base	Lamp Voltage	Frequency	Colour Temperature	Colour Rendering Index (R _a)	Light Output (Lumen)	Efficacy (Lm/W)	Order Code
Cool Daylight									
Ambiance Reflector PAR38	23W	E27	220-240V	50-60Hz	6500	80	1000	50	40259210
Ambiance Reflector PAR38	23W	B22	220-240V	50-60Hz	6500	80	1000	50	40221510
Warm White									
Ambiance Reflector PAR38	23W	E27	220-240V	50-60Hz	2700	82	1250	54	40218510
Ambiance Reflector PAR38	23W	B22	220-240V	50-60Hz	2700	82	1250	54	40220810

Ambiance Candle Shape

Comfort



Ambiance Candle



For pleasant light effects

Attractive modern design in a Candle shape

- The Ambiance range offers a high decorative appeal to complement elegant, modern light fittings in homes, restaurants and hotels
- The elegant covered energy saver creates a comfortable low glare light that is soft on the eyes
- Available in a familiar Candle shape, similar in size to their incandescent equivalent

Up to 80% energy saving

- An ideal replacement for incandescent candles of 25W and 40W, saving up to 80% on energy consumption

Long Life: 6 years

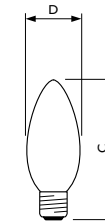
- A long and reliable life of 6000 hrs, which is up to 6 times longer when compared to incandescent lamps
- 1 year guarantee, safety fuse and flicker free start

Best Environmental choice

- The Ambiance Candle range is fully RoHS compliant conforming to the most strict environmental legislation in the world

Ambiance Candle Shape

Comfort



Ambiance Candle

Dimensions in mm	C	F
Ambiance Candle 5W	117	39
Ambiance Candle 8W	117	39

Applications

- Designed for replacement of incandescent lamps in standard shape in decorative and functional indoor applications
- Enclosed fixtures are required for outdoor applications
- Not suitable for dimming and electronic devices

Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base	Lamp Voltage (V)	Frequency (Hz)	Colour Temp. (K)	Colour Rendering Index	Light Output (Lumen)	Efficacy (Lm/W)	Dimmable	Order Code
Cool Daylight										
Ambiance Candle	5W	E14	220-240V	50-60Hz	6500	80	180	36	No	40184315
Ambiance Candle	5W	E27	220-240V	50-60Hz	6500	80	180	36	No	40175115
Ambiance Candle	5W	B22	220-240V	50-60Hz	6500	80	180	36	No	40177515
Ambiance Candle	8W	E14	220-240V	50-60Hz	6500	80	350	44	No	40185015
Ambiance Candle	8W	E27	220-240V	50-60Hz	6500	80	350	44	No	40181215
Ambiance Candle	8W	B22	220-240V	50-60Hz	6500	80	350	44	No	40183615

Warm White

Ambiance Candle	5W	E14	220-240V	50-60Hz	2700	82	190	38	No	40178215
Ambiance Candle	5W	E27	220-240V	50-60Hz	2700	82	190	38	No	40174415
Ambiance Candle	5W	B22	220-240V	50-60Hz	2700	82	190	38	No	40176815
Ambiance Candle	8W	E14	220-240V	50-60Hz	2700	82	370	46	No	40179915
Ambiance Candle	8W	E27	220-240V	50-60Hz	2700	82	370	46	No	40180515
Ambiance Candle	8W	B22	220-240V	50-60Hz	2700	82	370	46	No	40182915



Decotwist Decorative



Decorative energy saver for optimal brightness

Stylish modern design for direct installation

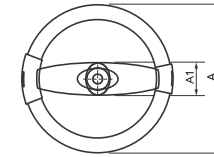
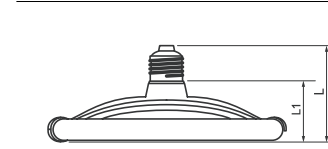
- Decotwist is a circular-shaped retrofit energy saving lamp with an integrated ballast and T5C burner and standard fitting, which allows for direct easy installation
- Available in two executions: with or without decorative covers

Brighter light, reliable life

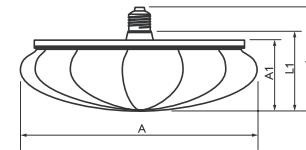
- Round shape for excellent light dispersion and very bright light
- Almost constant light output (>80%) over recommended temperature range resulting in a reliable life
- Decotwist is available in both warm white and cool daylight colour temperatures
- All types offer a high intensity value of light with an

Save up to 80% energy

- 6000 hrs. Up to 6 times longer life when compared to normal incandescent lamps



Decotwist



Decotwist with cover

Dimensions in mm	L	LI	A	AI	Burner
Decotwist	76	46.5	227.2	40.5	17
Decotwist with cover	124	96.0	290	84.0	17

Applications

- Decotwist range is designed for incandescent lamp replacement for general lighting in consumer and (semi-) professional applications
- Well suited to all shallow lampshades and pendant lamps fittings
- Not suitable for dimmers, electronic switches or remote controls

Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base (V)	Lamp Voltage (V)	Frequency (Hz)	Colour Temperature (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W) (Ra)	Colour Rendering Index	Burner Type	Box quantity	Order code
Decotwist De Luxe - Cool Daylight											
Decotwist	25W	E27	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31558845
Decotwist	25W	B22	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31559545
Decotwist Blossom	25W	E27	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31578610
Decotwist Blossom	25W	B22	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31579310
Decotwist Lux	25W	E27	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31574810
Decotwist Lux	25W	B22	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31575510
Decotwist Ridge	25W	E27	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31570010
Decotwist Ridge	25W	B22	220-240V	50-60Hz	6500	1100	44	80	T5C	6	31571710

Decotwist De Luxe - Warm White

Decotwist	25W	E27	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31556445
Decotwist	25W	B22	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31557145
Decotwist Blossom	25W	E27	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31576210
Decotwist Blossom	25W	B22	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31577910
Decotwist Lux	25W	E27	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31572410
Decotwist Lux	25W	B22	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31573110
Decotwist Ridge	25W	E27	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31568710
Decotwist Ridge	25W	B22	220-240V	50-60Hz	2700	1150	46	82	T5C	6	31569410

MASTER ECOTONE High Lumen Twister

Value for money



High Lumen Twister



The bright new Twister for huge savings

High Lumen output for professional use

- The MASTER Ecotone High Twister is the perfect energy saving solution to replace conventional HPL and ML lamps offering brighter and better quality of light

Up to 70% energy saving

- The Twister range provides up to 70% energy savings when compared to ML 160W and 250W and for 20% energy savings and 70% better colour rendering when compared to HPL-N 80W and 125W

Long Life: 10 Years

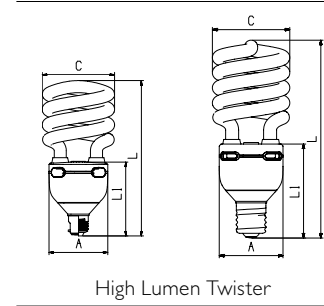
- Long and reliable life of 10000 hrs, with a stable and constant light output

Best Environmental choice

- Fully RoHS compliant conforming to the most strict environmental legislation in the world

MASTER ECOTONE High Lumen Twister

Value for money



High Lumen Twister

Dimensions in mm	C	F
High Lumen Twister 45W	203	78
High Lumen Twister 65W	220	78
High Lumen Twister 80W	260	78

Applications

- Designed for professional applications in shops, industry and outdoor
- Enclosed fixtures
- Not suitable for dimmers, electronic switches or electronic devices/remote controls
- Safe in use, fully compliant to IEC and EMC Standards, HPF > 0.95

Preferred selection

Product ID	Lamp Wattage (W)	Cap/ Base (V)	Lamp Voltage (V)	Colour Temp. (K)	Luminous Flux (Lm)	Luminous Efficacy (Lm/W)	Colour Rendering Index (R _a)	Equivalent light output to	Box quantity	Order Code
Cool Daylight										
MASTER ECOTONE High Lumen Twister	45W	E27	220-240V	6500	2850	67	80	ML 160W-HPL-N 80W	6	21266110
MASTER ECOTONE High Lumen Twister	65W	E27	220-240V	6500	4000	65	80	ML 160W-250W-HPL-N 80W	6	21268510
MASTER ECOTONE High Lumen Twister	80W	E40	220-240V	6500	5300	66	80	ML 250W-HPL-N 125W	6	15963810
Cool White										
MASTER ECOTONE High Lumen Twister	45W	E27	220-240V	4000	3000	67	82	ML 160W-HPL-N 80W	6	21265410
MASTER ECOTONE High Lumen Twister	65W	E27	220-240V	4000	4000	65	82	ML 160W-250W-HPL-N 80W	6	21267810
MASTER ECOTONE High Lumen Twister	80W	E40	220-240V	4000	5600	70	82	ML 250W-HPL-N 125W	6	15962110

Compact Fluorescent Non-Integrated & Fluorescent Lamps



MASTER PL-S 2Pin

Reliable



PL-S 9W



Bright light in a compact size

Applications

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

Why choose?

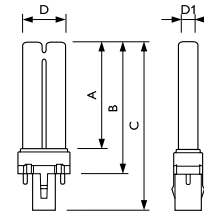
- Highest light output in its application, good colour rendering and energy savings
- Almost constant light output through entire life
- Long average life time reducing maintenance cost

Technical features

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

MASTER PL-S 2Pin

Reliable



PL-S

Dimensions in mm	A	B	C	D	D1
	max.	min.	max.	max.	max.
PL-S 5W/2P	67	83	105	28	13
PL-S 7W/2P	97	113	135	28	13
PL-S 9W/2P	129	145	167	28	13
PL-S 11W/2P	198	214	236	28	13

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
MASTER PL-S 5W/827/2P ICT	5X10BOX	30	G23	Incandescent White	2700	82
MASTER PL-S 5W/840/2P ICT	5X10BOX	30	G23	Cool White	4000	82
MASTER PL-S 7W/827/2P ICT	5X10BOX	35	G23	Incandescent White	2700	82
MASTER PL-S 7W/830/2P ICT	5X10BOX	35	G23	Warm White	3000	82
MASTER PL-S 7W/840/2P ICT	5X10BOX	35	G23	Cool White	4000	82
MASTER PL-S 9W/827/2P ICT	5X10BOX	41	G23	Incandescent White	2700	82
MASTER PL-S 9W/830/2P ICT	5X10BOX	41	G23	Warm White	3000	82
MASTER PL-S 9W/840/2P ICT	5X10BOX	41	G23	Cool White	4000	82
MASTER PL-S 11W/827/2P ICT	5X10BOX	58	G23	Incandescent White	2700	82
MASTER PL-S 11W/830/2P ICT	5X10BOX	58	G23	Warm White	3000	82
MASTER PL-S 11W/840/2P ICT	5X10BOX	58	G23	Cool White	4000	82

Product ID	Lamp Voltage (V)	Lamp Current EM (A)	Lamp Wattage EM (W)	Luminous Flux Lamp EM (lm)	Luminous Efficacy Lamp EM (lm/W)	Energy Efficiency Label	Dimmable	Order Code
MASTER PL-S 5W/827/2P ICT	35	0.180	5.4	250	46	B	No	26045170
MASTER PL-S 5W/840/2P ICT	35	0.180	5.4	250	46	B	No	26048270
MASTER PL-S 7W/827/2P ICT	47	0.175	7.1	400	56	B	No	26057470
MASTER PL-S 7W/830/2P ICT	47	0.175	7.1	400	56	B	No	26062870
MASTER PL-S 7W/840/2P ICT	47	0.175	7.1	400	56	B	No	26065970
MASTER PL-S 9W/827/2P ICT	60	0.170	8.7	600	69	B	No	26079670
MASTER PL-S 9W/830/2P ICT	60	0.170	8.7	600	69	B	No	26084070
MASTER PL-S 9W/840/2P ICT	60	0.170	8.7	600	69	B	No	26087170
MASTER PL-S 11W/827/2P ICT	91	0.155	11.8	900	76	B	No	26101470
MASTER PL-S 11W/830/2P ICT	91	0.155	11.8	900	76	B	No	26106970
MASTER PL-S 11W/840/2P ICT	91	0.155	11.8	900	76	B	No	26109070

MASTER PL-S 4Pin

Reliable



PL-S 9W



Bright light in a compact size

Applications

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

Why choose?

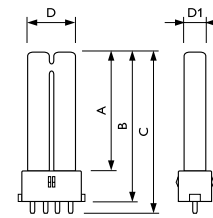
- Highest light output in its application and good colour rendering and energy efficiency
- Almost constant light output through entire life
- Long average life time reducing maintenance cost

Technical features

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

MASTER PL-S 4Pin

Reliable



PL-S 4Pin

Dimensions in mm	A	B	C	D	D1
	max.	min.	max.	max.	max.
PL-S 5W/4P	66	83	89.1	28	13
PL-S 7W/4P	96	113	119.1	28	13
PL-S 9W/4P	128	145	151.1	28	13
PL-S 11W/4P	196	214	219.9	28	13

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (R _a)
MASTER PL-S 5W/827/4P ICT	5X10BOX	27	2G7	Incandescent White	2700	82
MASTER PL-S 5W/840/4P ICT	5X10BOX	27	2G7	Cool White	4000	82
MASTER PL-S 7W/827/4P ICT	5X10BOX	32	2G7	Incandescent White	2700	82
MASTER PL-S 7W/830/4P ICT	5X10BOX	32	2G7	Warm White	3000	82
MASTER PL-S 7W/840/4P ICT	5X10BOX	32	2G7	Cool White	4000	82
MASTER PL-S 9W/827/4P ICT	5X10BOX	38	2G7	Incandescent White	2700	82
MASTER PL-S 9W/830/4P ICT	5X10BOX	38	2G7	Warm White	3000	82
MASTER PL-S 9W/840/4P ICT	5X10BOX	38	2G7	Cool White	4000	82
MASTER PL-S 11W/827/4P ICT	5X10BOX	55	2G7	Incandescent White	2700	82
MASTER PL-S 11W/830/4P ICT	5X10BOX	55	2G7	Warm White	3000	82
MASTER PL-S 11W/840/4P ICT	5X10BOX	55	2G7	Cool White	4000	82

Product ID	Lamp Voltage (V)	Lamp Current (A)	Lamp Wattage (W)	Luminous Flux Lamp (lm)	Luminous Efficacy Lamp (lm/W)	Energy Efficiency	Dimmable	Order Code
MASTER PL-S 5W/827/4P ICT	27	0.19	5	250	50	B	Yes	8711500 26051270
MASTER PL-S 5W/840/4P ICT	27	0.19	5	250	50	B	Yes	26054370
MASTER PL-S 7W/827/4P ICT	37	0.175	6.5	400	61	B	Yes	26070370
MASTER PL-S 7W/830/4P ICT	37	0.175	6.5	400	61	B	Yes	26073470
MASTER PL-S 7W/840/4P ICT	37	0.175	6.5	400	61	B	Yes	26076570
MASTER PL-S 9W/827/4P ICT	48	0.17	8	600	75	B	Yes	26090170
MASTER PL-S 9W/830/4P ICT	48	0.17	8	600	75	B	Yes	26093270
MASTER PL-S 9W/840/4P ICT	48	0.17	8	600	75	B	Yes	26096370
MASTER PL-S 11W/827/4P ICT	75	0.15	11	900	82	B	Yes	26114470
MASTER PL-S 11W/830/4P ICT	75	0.15	11	900	82	B	Yes	26119970
MASTER PL-S 11W/840/4P ICT	75	0.15	11	900	82	B	Yes	26122970

MASTER PL-C 2Pin

Reliable



PL-C 10W



Bright light in a compact size

Applications

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

Why choose?

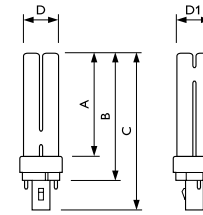
- Highest light output in its application and good colour rendering and energy efficiency
- Almost constant light output through entire life
- Long average life time reducing maintenance costs

Technical features

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

MASTER PL-C 2Pin

Reliable



MASTER PL-C 2Pin

Dimensions in mm	A	B	C	D	D1
	max.	min.	max.	max.	max.
PL-C 10W/2P	75.7	94	116.4	27.1	27.1
PL-C 13W/2P	97.7	116	138.4	27.1	27.1
PL-C 18W/2P	109.7	128	150.4	27.1	27.1
PL-C 26W/2P	130.7	149	171.4	27.1	27.1

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
MASTER PL-C 10W/827/2P ICT	5X10BOX	45	G24d-1	Incandescent White	2700	82
MASTER PL-C 10W/830/2P ICT	5X10BOX	45	G24d-1	Warm White	3000	82
MASTER PL-C 10W/840/2P ICT	5X10BOX	45	G24d-1	Cool White	4000	82
MASTER PL-C 13W/827/2P ICT	5X10BOX	53.6	G24d-1	Incandescent White	2700	82
MASTER PL-C 13W/830/2P ICT	5X10BOX	53.6	G24d-1	Warm White	3000	82
MASTER PL-C 13W/840/2P ICT	5X10BOX	53.6	G24d-1	Cool White	4000	82
MASTER PL-C 13W/865/2P ICT	5X10BOX	53.6	G24d-1	Cool Daylight	6500	80
MASTER PL-C 18W/827/2P ICT	5X10BOX	57.8	G24d-2	Incandescent White	2700	82
MASTER PL-C 18W/830/2P ICT	5X10BOX	57.8	G24d-2	Warm White	3000	82
MASTER PL-C 18W/835/2P ICT	5X10BOX	57.8	G24d-2	White	3500	82
MASTER PL-C 18W/840/2P ICT	5X10BOX	57.8	G24d-2	Cool White	4000	82
MASTER PL-C 18W/865/2P ICT	5X10BOX	57.8	G24d-2	Cool Daylight	6500	80
MASTER PL-C 26W/827/2P ICT	5X10BOX	64.3	G24d-3	Incandescent White	2700	82
MASTER PL-C 26W/830/2P ICT	5X10BOX	64.3	G24d-3	Warm White	3000	82
MASTER PL-C 26W/835/2P ICT	5X10BOX	64.3	G24d-3	White	3500	82
MASTER PL-C 26W/840/2P ICT	5X10BOX	64.3	G24d-3	Cool White	4000	82
MASTER PL-C 26W/865/2P ICT	5X10BOX	64.3	G24d-3	Cool Daylight	6500	80

MASTER PL-C 2Pin

Reliable

Product ID	Lamp Voltage	Lamp Current	Lamp Wattage	Luminous Flux Lamp
	(V)	(A)	(W)	(lm)
MASTER PL-C 10W/827/2P 1 CT	64	0.19	10	600
MASTER PL-C 10W/830/2P 1 CT	64	0.19	10	600
MASTER PL-C 10W/840/2P 1 CT	64	0.19	10	600
MASTER PL-C 13W/827/2P 1 CT	91	0.175	13	900
MASTER PL-C 13W/830/2P 1 CT	91	0.175	13	900
MASTER PL-C 13W/840/2P 1 CT	91	0.175	13	900
MASTER PL-C 13W/865/2P 1 CT	91	0.175	13	900
MASTER PL-C 18W/827/2P 1 CT	100	0.22	18	1200
MASTER PL-C 18W/830/2P 1 CT	100	0.22	18	1200
MASTER PL-C 18W/835/2P 1 CT	100	0.22	18	1200
MASTER PL-C 18W/840/2P 1 CT	100	0.22	18	1200
MASTER PL-C 18W/865/2P 1 CT	100	0.22	18	1200
MASTER PL-C 26W/827/2P 1 CT	105	0.325	26	1800
MASTER PL-C 26W/830/2P 1 CT	105	0.325	26	1800
MASTER PL-C 26W/835/2P 1 CT	105	0.325	26	1800
MASTER PL-C 26W/840/2P 1 CT	105	0.325	26	1800
MASTER PL-C 26W/865/2P 1 CT	105	0.325	26	1800

Product ID	Luminous Efficacy Lamp EM	Energy Efficiency Label	Dimmable	Order Code
	(lm/W)			8711500
MASTER PL-C 10W/827/2P 1 CT	60	B	No	70681270
MASTER PL-C 10W/830/2P 1 CT	60	B	No	70724670
MASTER PL-C 10W/840/2P 1 CT	60	B	No	70498670
MASTER PL-C 13W/827/2P 1 CT	69	A	No	62081170
MASTER PL-C 13W/830/2P 1 CT	69	A	No	62084270
MASTER PL-C 13W/840/2P 1 CT	69	A	No	62086670
MASTER PL-C 13W/865/2P 1 CT	69	A	No	63523570
MASTER PL-C 18W/827/2P 1 CT	67	B	No	62088070
MASTER PL-C 18W/830/2P 1 CT	67	B	No	62091070
MASTER PL-C 18W/835/2P 1 CT	67	B	No	86646270
MASTER PL-C 18W/840/2P 1 CT	67	B	No	62093470
MASTER PL-C 18W/865/2P 1 CT	67	B	No	63527370
MASTER PL-C 26W/827/2P 1 CT	69	B	No	62095870
MASTER PL-C 26W/830/2P 1 CT	69	B	No	62098970
MASTER PL-C 26W/835/2P 1 CT	69	B	No	86650970
MASTER PL-C 26W/840/2P 1 CT	69	B	No	62100970
MASTER PL-C 26W/865/2P 1 CT	69	B	No	63531070

MASTER PL-C 2Pin

Reliable



MASTER PL-C 4Pin

Reliable



PL-C 10W



Bright light in a compact size

Applications

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

Why choose?

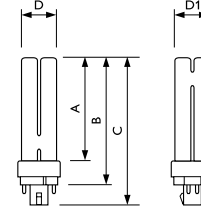
- Highest light output in its application and good colour rendering and energy efficiency
- Almost constant light output through entire life
- Long average life time reducing maintenance costs

Technical features

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

MASTER PL-C 4Pin

Reliable



PL-C 4Pin

Dimensions in mm	A		B		C		D		D1	
	max.	min.	max.	min.	max.	min.	max.	min.	max.	min.
PL-S 10W/4P	75.7	94	108.9	27.1	27.1					
PL-S 13W/4P	97.7	116	130.9	27.1	27.1					
PL-S 18W/4P	109.7	128	142.9	27.1	27.1					
PL-S 26W/4P	130.7	149	163.9	27.1	27.1					

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
MASTER PL-C 10W/827/4P ICT	5X10BOX	41.4	G24q-1	Incandescent White	2700	82
MASTER PL-C 10W/830/4P ICT	5X10BOX	41.4	G24q-1	Warm White	3000	82
MASTER PL-C 10W/840/4P ICT	5X10BOX	41.4	G24q-1	Cool White	4000	82
MASTER PL-C 13W/827/4P ICT	5X10BOX	49.9	G24q-1	Incandescent White	2700	82
MASTER PL-C 13W/830/4P ICT	5X10BOX	49.9	G24q-1	Warm White	3000	82
MASTER PL-C 13W/840/4P ICT	5X10BOX	49.9	G24q-1	Cool White	4000	82
MASTER PL-C 18W/827/4P ICT	5X10BOX	55.3	G24q-2	Incandescent White	2700	82
MASTER PL-C 18W/830/4P ICT	5X10BOX	55.3	G24q-2	Warm White	3000	82
MASTER PL-C 18W/840/4P ICT	5X10BOX	55.3	G24q-2	Cool White	4000	82
MASTER PL-C 26W/827/4P ICT	5X10BOX	60.4	G24q-3	Incandescent White	2700	82
MASTER PL-C 26W/830/4P ICT	5X10BOX	60.4	G24q-3	Warm White	3000	82
MASTER PL-C 26W/835/4P ICT	5X10BOX	60.4	G24q-3	White	3500	82
MASTER PL-C 26W/840/4P ICT	5X10BOX	60.4	G24q-3	Cool White	4000	82
MASTER PL-C 26W/865/4P ICT	5X10BOX	60.4	G24q-3	Cool Daylight	6500	80

Product ID	Lamp Voltage Electronic (V)	Lamp Current Electronic (A)	Lamp Wattage Electronic (W)	Lamp Flux Lamp Electronic (lm)	Luminous Efficacy Lamp Electronic (lm/W)	Energy Efficiency Label	Dimmable	Order Code
MASTER PL-C 10W/827/4P ICT	51	0.19	9.5	600	63	B	Yes	871 1500 62325670
MASTER PL-C 10W/830/4P ICT	51	0.19	9.5	600	63	B	Yes	62329470
MASTER PL-C 10W/840/4P ICT	51	0.19	9.5	600	63	B	Yes	62330070
MASTER PL-C 13W/827/4P ICT	77	0.165	12.5	900	72	A	Yes	62326370
MASTER PL-C 13W/830/4P ICT	77	0.165	12.5	900	72	A	Yes	62331770
MASTER PL-C 13W/840/4P ICT	77	0.165	12.5	900	72	A	Yes	62332470
MASTER PL-C 18W/827/4P ICT	80	0.21	16.5	1200	73	B	Yes	62327070
MASTER PL-C 18W/830/4P ICT	80	0.21	16.5	1200	73	B	Yes	62333170
MASTER PL-C 18W/840/4P ICT	80	0.21	16.5	1200	73	B	Yes	62334870
MASTER PL-C 26W/827/4P ICT	80	0.3	24	1800	75	B	Yes	62328770
MASTER PL-C 26W/830/4P ICT	80	0.3	24	1800	75	B	Yes	62335570
MASTER PL-C 26W/835/4P ICT	80	0.3	24	1800	75	B	Yes	86653070
MASTER PL-C 26W/840/4P ICT	80	0.3	24	1800	75	B	Yes	62336270
MASTER PL-C 26W/865/4P ICT	80	0.3	24	1800	75	B	Yes	64457270

MASTER PL-L 4Pin

Compact



PL-L 24W



Always optimal light performance

Applications

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

Why choose?

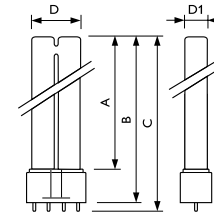
- Optimal light performance for short or long operation
- Long life and sustainable light output

Technical features

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

MASTER PL-L 4Pin

Compact



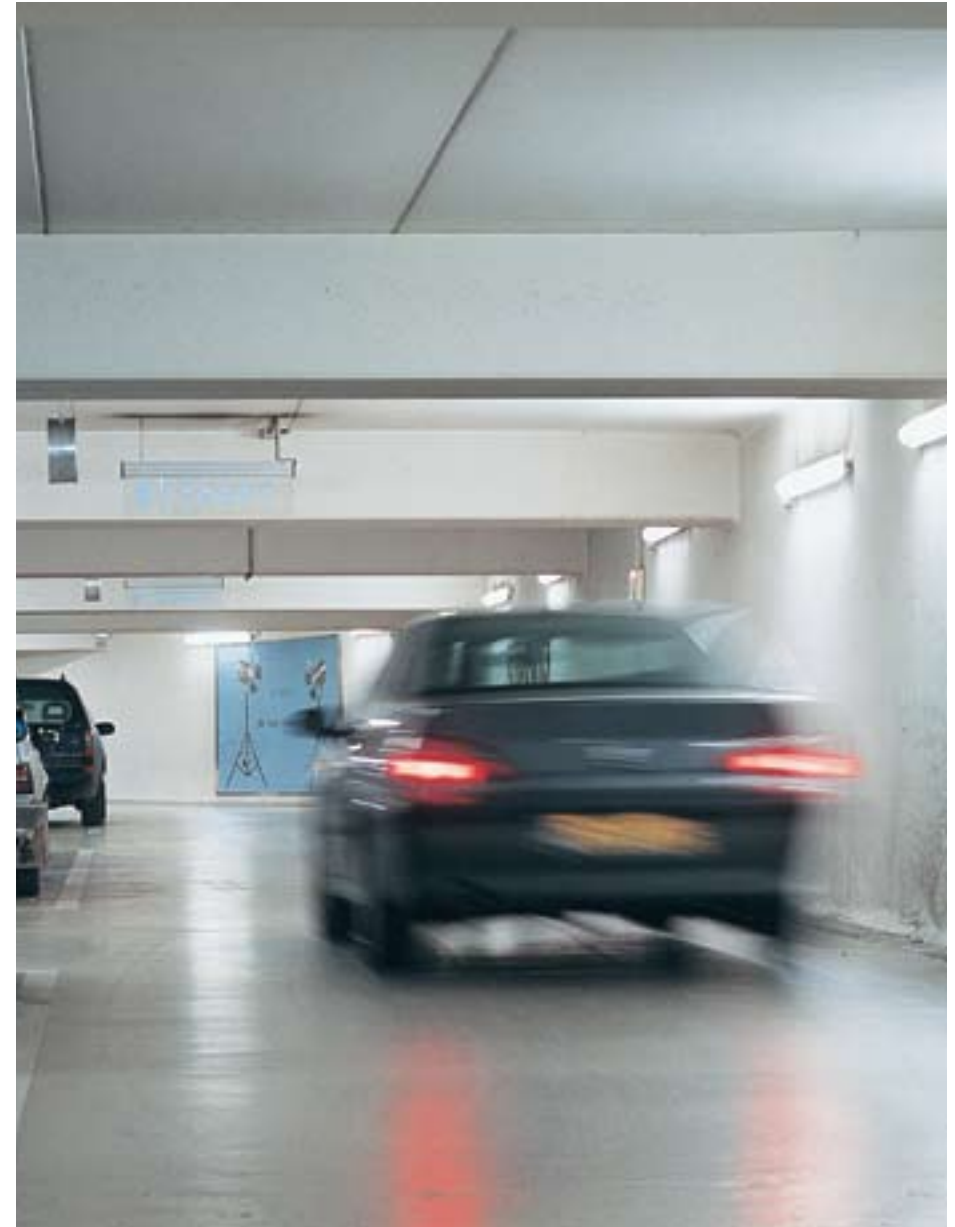
MASTER PL-L 4Pin

Dimensions in mm	A	B	C	D	D1
	max.	min.	max.	max.	max.
PL-L 18/4P	195	220	227	38	18
PL-L 24/4P	290	315	322	38	18
PL-L 36/4P	385	410	417	38	18
PL-L 40/4P	510	535	542	38	18
PL-L 55/4P	510	535	542	38	18
PL-L 80/4P	540	565	572	38	18

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
MASTER PL-L 18W/827/4P ICT	25	60.9	2G11	Incandescent White	2700	82
MASTER PL-L 18W/830/4P ICT	25	60.9	2G11	Warm White	3000	82
MASTER PL-L 18W/840/4P ICT	25	60.9	2G11	Cool White	4000	82
MASTER PL-L 18W/865/4P ICT	25	60.9	2G11	Cool Daylight	6500	80
MASTER PL-L 24W/827/4P ICT	25	92	2G11	Incandescent White	2700	82
MASTER PL-L 24W/830/4P ICT	25	92	2G11	Warm White	3000	82
MASTER PL-L 24W/840/4P ICT	25	92	2G11	Cool White	4000	82
MASTER PL-L 24W/865/4P ICT	25	92	2G11	Cool Daylight	6500	80
MASTER PL-L 36W/827/4P ICT	25	104.2	2G11	Incandescent White	2700	82
MASTER PL-L 36W/830/4P ICT	25	104.2	2G11	Warm White	3000	82
MASTER PL-L 36W/840/4P ICT	25	104.2	2G11	Cool White	4000	82
MASTER PL-L 36W/865/4P ICT	25	104.2	2G11	Cool Daylight	6500	80
MASTER PL-L 40W/830/4P ICT	25	146	2G11	Warm White	3000	82
MASTER PL-L 40W/840/4P ICT	25	146	2G11	Cool White	4000	82
MASTER PL-L 55W/827/4P ICT	25	146	2G11	Incandescent White	2700	82
MASTER PL-L 55W/830/4P ICT	25	146	2G11	Warm White	3000	82
MASTER PL-L 55W/840/4P ICT	25	146	2G11	Cool White	4000	82
MASTER PL-L 55W/865/4P ICT	25	146	2G11	Cool Daylight	6500	80
MASTER PL-L 80W/830/4P ICT	25	152	2G11	Warm White	3000	82
MASTER PL-L 80W/840/4P ICT	25	152	2G11	Cool White	4000	82

Product ID	Lamp Voltage Electronic (V)	Lamp Current Electronic (A)	Lamp Wattage Electronic (W)	Luminous Flux Lamp Electronic (lm)	Luminous Efficacy Lamp Electronic (lm/W)	Energy Efficiency Label	Dimmable	Order Code
MASTER PL-L 18W/827/4P ICT	50	0.32	16	1200	75	B	Yes	8711500 70667640
MASTER PL-L 18W/830/4P ICT	50	0.32	16	1200	75	B	Yes	70668340
MASTER PL-L 18W/840/4P ICT	50	0.32	16	1200	75	B	Yes	70669040
MASTER PL-L 18W/865/4P ICT	50	0.32	16	1200	75	B	Yes	63514340
MASTER PL-L 24W/827/4P ICT	75	0.3	22	1800	82	B	Yes	70670640
MASTER PL-L 24W/830/4P ICT	75	0.3	22	1800	82	B	Yes	70671340
MASTER PL-L 24W/840/4P ICT	75	0.3	22	1800	82	B	Yes	70672040
MASTER PL-L 24W/865/4P ICT	75	0.3	22	1800	82	B	Yes	63517440
MASTER PL-L 36W/827/4P ICT	90	0.36	32	2900	90	A	Yes	70673740
MASTER PL-L 36W/830/4P ICT	90	0.36	32	2900	90	A	Yes	70674440
MASTER PL-L 36W/840/4P ICT	90	0.36	32	2900	90	A	Yes	70675140
MASTER PL-L 36W/865/4P ICT	90	0.36	32	2900	90	A	Yes	63520440
MASTER PL-L 40W/830/4P ICT	126	0.32	40	3500	87	A	Yes	61094240
MASTER PL-L 40W/840/4P ICT	126	0.32	40	3500	87	A	Yes	61097340
MASTER PL-L 55W/827/4P ICT	101	0.55	55	4800	87	A	Yes	64148940
MASTER PL-L 55W/830/4P ICT	101	0.55	55	4800	87	A	Yes	61541140
MASTER PL-L 55W/840/4P ICT	101	0.55	55	4800	87	A	Yes	61542840
MASTER PL-L 55W/865/4P ICT	101	0.55	55	4500	82	A	Yes	26170040
MASTER PL-L 80W/830/4P ICT	145	0.555	80	6000	75	B	Yes	86708740
MASTER PL-L 80W/840/4P ICT	145	0.555	80	6000	75	B	Yes	86712440



MASTER TL5 High Efficiency

Design



TL5



Aesthetics and high quality lighting

Applications

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

Why choose?

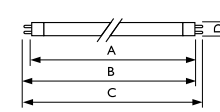
- Offers higher efficiencies and energy savings compared with TL-D lamps
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Technical 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

MASTER TL5 High Efficiency

Design



TL5

Dimensions in mm	A		B		C		D	
	max.	min.	max.	max.	max.	max.	max.	
TL5 14W	549	553.7	556.1	563.2	17			
TL5 21W	849	853.7	856.1	863.2	17			
TL5 28W	1149	1153.7	1156.1	1163.2	17			
TL5 35W	1449	1453.7	1456.1	1463.2	17			

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
MASTER TL5 HE Super 80 14W/827 SLV	40	54	G5	Incandescent White	2700	85
MASTER TL5 HE Super 80 14W/830 SLV	40	54	G5	Warm White	3000	85
MASTER TL5 HE Super 80 14W/840 SLV	40	54	G5	Cool White	4000	85
MASTER TL5 HE Super 80 14W/850 SLV	40	54	G5	Daylight	5000	85
MASTER TL5 HE Super 80 14W/865 SLV	40	54	G5	Cool Daylight	6500	85
MASTER TL5 HE Super 80 21W/827 SLV	40	78	G5	Incandescent White	2700	85
MASTER TL5 HE Super 80 21W/830 SLV	40	78	G5	Warm White	3000	85
MASTER TL5 HE Super 80 21W/840 SLV	40	78	G5	Cool White	4000	85
MASTER TL5 HE Super 80 21W/865 SLV	40	78	G5	Cool Daylight	6500	85
MASTER TL5 HE Super 80 28W/827 SLV	40	105	G5	Incandescent White	2700	85
MASTER TL5 HE Super 80 28W/830 SLV	40	105	G5	Warm White	3000	85
MASTER TL5 HE Super 80 28W/840 SLV	40	105	G5	Cool White	4000	85
MASTER TL5 HE Super 80 28W/850 SLV	40	105	G5	Daylight	5000	85
MASTER TL5 HE Super 80 28W/865 SLV	40	105	G5	Cool Daylight	6500	85
MASTER TL5 HE Super 80 35W/827 SLV	40	132	G5	Incandescent White	2700	85
MASTER TL5 HE Super 80 35W/830 SLV	40	132	G5	Warm White	3000	85
MASTER TL5 HE Super 80 35W/840 SLV	40	132	G5	Cool White	4000	85
MASTER TL5 HE Super 80 35W/865 SLV	40	132	G5	Cool Daylight	6500	85

Product ID	Lamp Voltage	Lamp Current	Luminous Flux Lamp	Luminous Efficacy	Luminance	Energy Efficiency	Order Code
	Electronic 25°C (V)	Electronic 25°C (A)	Electronic 25°C (lm)	at top 35°C (lm/W)	Average Electronic 25°C (cd/cm ²)	Label	
						8711500	
MASTER TL5 HE Super 80 14W/827 SLV	83	0.17	1200	96	1.5	A	64102155
MASTER TL5 HE Super 80 14W/830 SLV	83	0.17	1200	96	1.5	A	63938755
MASTER TL5 HE Super 80 14W/840 SLV	83	0.17	1200	96	1.5	A	63940055
MASTER TL5 HE Super 80 14W/850 SLV	83	0.17	1100	89	1.4	A	26127455
MASTER TL5 HE Super 80 14W/865 SLV	83	0.17	1100	89	1.4	A	71009355
MASTER TL5 HE Super 80 21W/827 SLV	125	0.17	1900	100	1.5	A	64320955
MASTER TL5 HE Super 80 21W/830 SLV	125	0.17	1900	100	1.5	A	63942455
MASTER TL5 HE Super 80 21W/840 SLV	125	0.17	1900	100	1.5	A	63944855
MASTER TL5 HE Super 80 21W/865 SLV	125	0.17	1750	93	1.4	A	71011655
MASTER TL5 HE Super 80 28W/827 SLV	166	0.17	2600	104	1.5	A	643223 55
MASTER TL5 HE Super 80 28W/830 SLV	166	0.17	2600	104	1.5	A	639462 55
MASTER TL5 HE Super 80 28W/840 SLV	166	0.17	2600	104	1.5	A	639486 55
MASTER TL5 HE Super 80 28W/850 SLV	166	0.17	2400	96	1.4	A	260208 55
MASTER TL5 HE Super 80 28W/865 SLV	166	0.17	2400	96	1.4	A	710154 55
MASTER TL5 HE Super 80 35W/827 SLV	208	0.17	3300	104	1.5	A	643247 55
MASTER TL5 HE Super 80 35W/830 SLV	208	0.17	3300	104	1.5	A	639509 55
MASTER TL5 HE Super 80 35W/840 SLV	208	0.17	3300	104	1.5	A	639523 55
MASTER TL5 HE Super 80 35W/865 SLV	208	0.17	3100	97	1.4	A	710185 55

SLV: Sleeve packaging

Note: Nominal luminous flux, average luminance and electrical specifications defined at an ambient temperature of 25°C in free burning position on reference ballast/Luminous efficacy (lm/W) defined at top of the lumen curve (approx. 35°C).



MASTER TL5 High Output

Design



TL5



High light output

Applications

- 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

Why choose?

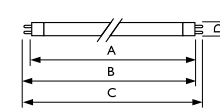
- Optimised for installations which need high luminous flux
- Virtually constant lumen level with excellent lumen maintenance
- Good colour rendering

Technical features

- 40% thinner than TL-D lamps
- Designed for high lumen output and system miniaturization
- Highly efficient 3-band fluorescent coating in combination with precoating
- Specifically designed for operation with electronic gear and well-suited for dimming
- Can be ignited from -15°C to +50°C

MASTER TL5 High Output

Design



TL5

Dimensions in mm	A		B		C		D	
	max.	min.	max.	max.	max.	max.	max.	
TL5 24W	549	554	556	563	17			
TL5 39W	849	854	856	863	17			
TL5 54W	1149	1154	1156	1163	17			
TL5 49W/80W	1449	1454	1456	1463	17			

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/ Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
MASTER TL5 HO Super 80 24W/827 SLV	40	54	G5	Incandescent White	2700	85
MASTER TL5 HO Super 80 24W/830 SLV	40	54	G5	Warm White	3000	85
MASTER TL5 HO Super 80 24W/840 SLV	40	54	G5	Cool White	4000	85
MASTER TL5 HO Super 80 24W/865 SLV	40	54	G5	Cool Daylight	6500	85
MASTER TL5 HO Super 80 39W/827 SLV	40	78	G5	Incandescent White	2700	85
MASTER TL5 HO Super 80 39W/830 SLV	40	78	G5	Warm White	3000	85
MASTER TL5 HO Super 80 39W/840 SLV	40	78	G5	Cool White	4000	85
MASTER TL5 HO Super 80 39W/865 SLV	40	78	G5	Cool Daylight	6500	85
MASTER TL5 HO Super 80 49W/827 SLV	40	132	G5	Incandescent White	2700	85
MASTER TL5 HO Super 80 49W/830 SLV	40	132	G5	Warm White	3000	85
MASTER TL5 HO Super 80 49W/840 SLV	40	132	G5	Cool White	4000	85
MASTER TL5 HO Super 80 49W/865 SLV	40	132	G5	Cool Daylight	6500	85
MASTER TL5 HO Super 80 54W/827 SLV	40	105	G5	Incandescent White	2700	85
MASTER TL5 HO Super 80 54W/830 SLV	40	105	G5	Warm White	3000	85
MASTER TL5 HO Super 80 54W/840 SLV	40	105	G5	Cool White	4000	85
MASTER TL5 HO Super 80 54W/865 SLV	40	105	G5	Cool Daylight	6500	85
MASTER TL5 HO Super 80 80W/830 SLV	40	132	G5	Warm White	3000	85
MASTER TL5 HO Super 80 80W/840 SLV	40	132	G5	Cool White	4000	85
MASTER TL5 HO Super 80 80W/865 SLV	40	132	G5	Cool Daylight	6500	85

SLV: Sleeve packaging

Note: Nominal luminous flux, average luminance and electrical specifications defined at an ambient temperature of 25°C in free burning position on reference ballast/Luminous efficacy (lm/W) defined at top of the lumen curve (approx. 35°C).

Product ID	Lamp Voltage Electronic 25°C (V)	Lamp Current Electronic 25°C (A)	Luminous Flux Lamp Electronic 25°C (lm)	Luminous Efficacy Lamp, Electronic at top 35°C (lm/W)	Luminance Average Electronic 25°C (cd/cm²)	Energy Efficiency Label	Order Code
MASTER TL5 HO Super 80 24W/827 SLV	80	0	1750	89	2	B	64308755
MASTER TL5 HO Super 80 24W/830 SLV	80	0	1750	89	2	B	63958555
MASTER TL5 HO Super 80 24W/840 SLV	80	0	1750	89	2	B	63960855
MASTER TL5 HO Super 80 24W/865 SLV	80	0	1650	84	2	B	64393355
MASTER TL5 HO Super 80 39W/827 SLV	119	0	3100	92	3	B	64310055
MASTER TL5 HO Super 80 39W/830 SLV	119	0	3100	92	3	B	63962255
MASTER TL5 HO Super 80 39W/840 SLV	119	0	3100	92	3	B	63964655
MASTER TL5 HO Super 80 39W/865 SLV	119	0	2950	87	2	B	64387255
MASTER TL5 HO Super 80 49W/827 SLV	195	0	4300	99	2	B	64312455
MASTER TL5 HO Super 80 49W/830 SLV	195	0	4300	99	2	B	63954755
MASTER TL5 HO Super 80 49W/840 SLV	195	0	4300	99	2	B	63956155
MASTER TL5 HO Super 80 49W/865 SLV	195	0	4100	94	2	B	64389655
MASTER TL5 HO Super 80 54W/827 SLV	118	0	4450	93	3	B	64314855
MASTER TL5 HO Super 80 54W/830 SLV	118	0	4450	93	3	B	64316255
MASTER TL5 HO Super 80 54W/840 SLV	118	0	4450	93	3	B	64318655
MASTER TL5 HO Super 80 54W/865 SLV	118	0	4250	89	3	B	64391955
MASTER TL5 HO Super 80 80W/830 SLV	151	1	6150	88	3	B	71040655
MASTER TL5 HO Super 80 80W/840 SLV	130	1	6150	88	3	B	71045155
MASTER TL5 HO Super 80 80W/865 SLV	151	1	5850	83	3	B	71047555

SLV: Sleeve packaging

Note: Nominal luminous flux, average luminance and electrical specifications defined at an ambient temperature of 25°C in free burning position on reference ballast/Luminous efficacy (lm/W) defined at top of the lumen curve (approx. 35°C).



MASTER TL-D Super 80

Natural



MASTER TL-D Super 80



Experience true colours

Applications

- Schools, offices, shops, industrial plants, homes

Why choose?

- Up to 40% longer life than standard fluorescent lamps with an almost constant light output over life, significantly reducing maintenance costs
- Provides up to 30% more light compared to standard fluorescent lamps, allowing you to generate the same amount of light with fewer lamps
- Good colour rendering. Provides a pleasant working environment and enables increased productivity

Technical features

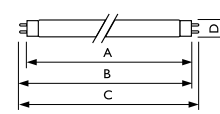
- Good colour rendering: Ra>80
- Lowest mercury content on the market: 2mg
- Triphosphor for good colour rendering

Lifetime

- 18000 hrs on conventional gear (avg life 50% survivors on EM gear, 12hrs switching cycle)
- 23000 hrs on electronic gear (avg life 50% survivors on EL gear, 12hrs switching cycle)

MASTER TL-D Super 80

Natural



MASTER TL-D Super 80

Dimensions in mm	A	B	C	D
	max.	max.	max.	max.
TL-D 18W	589.8	596.9	604	28
TL-D 36W	1199.4	1206.5	1213	28
TL-D 58W	1500	1507	1514	28

Preferred selection

Product ID	Luminous Flux Lamp (lm)	Luminance Average EM (cd/cm sq)	Colour Rendering Index (Ra)	Colour Designation	Order Code
MASTER TL-D Super 80 18W/827 SLV	1350	1.00	85	Incandescent White	63162640
MASTER TL-D Super 80 18W/830 SLV	1350	1.00	85	Warm White	63165740
MASTER TL-D Super 80 18W/840 SLV	1350	1.00	85	Cool White	63171840
MASTER TL-D Super 80 18W/865 SLV	1300	0.95	85	Cool Daylight	63177040
MASTER TL-D Super 80 36W/827 SLV	3350	1.25	85	Incandescent White	63192340
MASTER TL-D Super 80 36W/830 SLV	3350	1.25	85	Warm White	63195440
MASTER TL-D Super 80 36W/840 SLV	3350	1.25	85	Cool White	63201240
MASTER TL-D Super 80 36W/865 SLV	3250	1.20	85	Cool Daylight	63207440
MASTER TL-D Super 80 58W/827 SLV	5200	1.50	85	Incandescent White	63210440
MASTER TL-D Super 80 58W/830 SLV	5200	1.50	85	Warm White	63213540
MASTER TL-D Super 80 58W/840 SLV	5200	1.50	85	Cool White	63219740
MASTER TL-D Super 80 58W/865 SLV	5000	1.45	85	Cool Daylight	63225840

TL-D Snow White

Extreme Cool



TL-D Snow White



Cool light for pleasant and relaxing ambiances

Applications

- Suitable in a wide range of luminaires for TL-D Fluorescent lamps, used in applications where cool ambiances are requested like: offices, shops, schools, indoor ski centers, warehouses, industry, etc.

Why choose?

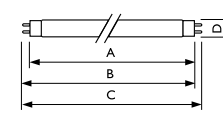
- Creates a relaxing and comfortable cool ambiance, especially in very hot and dry climate conditions
- Increases human well-being and contributes very positively to the perceived atmosphere
- Offers a very high colour temperature, a good colour rendering, direct replacement for any TL-D

Technical features

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

TL-D Snow White

Extreme Cool



TL-D Snow White

Dimensions in mm	A		B		C		D	
	max.	min.	max.	max.	max.	max.	max.	
TL-D 18W	509	595	597	604	28			
TL-D 36W	1199	1204	1207	1214	28			
TL-D 58W	1500	1505	1507	1514	25			

Preferred selection

Product ID	Packaging Configuration	Net weight	Lamp cap/Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
TL-D 18W Snow White	25	71	G13	Extreme Cool Daylight	12000	78
TL-D 36W Snow White	25	137.5	G13	Extreme Cool Daylight	12000	78
TL-D 58W Snow White	25	186	G13	Extreme Cool Daylight	12000	78

Product ID	Lamp Voltage (V)	Lamp Wattage EM (W)	Lamp Current EM (mA)	Luminous Flux Lamp EM (Lm)	Luminance Average EM (cd/cm ²)	Order Code
TL-D 18W Snow White	59	18W	0.36	1050	0.75	89350540
TL-D 36W Snow White	103	36W	0.44	2500	0.95	89352940
TL-D 58W Snow White	111	58W	0.67	4000	1.15	89354340

MASTER TL-D Xtra

Lifetime



MASTER TL-D Xtra



Very long life

Applications

- MASTER TL-D Xtra is suitable for warehouses, food and drinks industries, airports, department stores, super markets, street lighting, car parks, large offices, hospitals

Why choose?

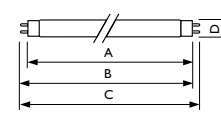
- Very long lifetime and few early failures reduce maintenance costs and hassle
- High efficiency, low operating costs
- Good colour rendering for a pleasant and productive environment
- Environment-friendly, low mercury content, less waste and reduced disposal cost at end of life
- Also available in Secura shatterproof and cold temperature polar versions

Technical Features

- Service life MASTER TL-D Xtra 24000 hrs (300% longer than standard T8 lamps)
- Good colour rendering ($R_a > 80$)
- Green X-cap
- Lowest mercury content on the market (3 mg)

MASTER TL-D Xtra

Lifetime



MASTER TL-D Xtra

Dimensions in mm	A	B	C	D
	max.	min.	max.	max.
MASTER TL-D Xtra	1199.4	1204.1	1206.5	1213.6
				28

Preferred selection

Product ID	Wattage (W)	Lumen	Order Code
			8711500
MASTER TL-D Xtra 830 SLV	18W	1350	54698840
MASTER TL-D Xtra 840 SLV	18W	1350	55862640
MASTER TL-D Xtra 830 SLV	36W	3350	55871840
MASTER TL-D Xtra 840 SLV	36W	3350	55876340
MASTER TL-D Xtra 840 SLV	58W	5200	55890940

MASTER TL-D Xtreme

Lifetime



MASTER TL-D Xtreme



Extremely long life

Applications

- MASTER TL-D Xtreme is suitable for offshore, car parks, underground stations, mining industry, street lighting

Why choose?

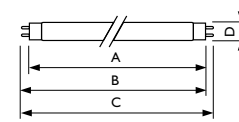
- Very long lifetime and few early failures reduce maintenance costs and hassle
- High efficiency, low operating costs
- Good colour rendering for a pleasant and productive environment
- Environment-friendly, low mercury content, less waste and reduced disposal cost at end of life
- Also available in Secura shatterproof and cold temperature polar versions

Technical Features

- Service life MASTER TL-D Xtreme 40000 hrs (500% longer than standard T8 lamps)
- Good colour rendering ($R_a > 80$)
- Green X-cap
- Lowest mercury content on the market (3 mg)

MASTER TL-D Xtreme

Lifetime



MASTER TL-D Xtreme

Dimensions in mm	A	B	C	D
	max.	min.	max.	max.
MASTER TL-D Xtreme	589.8	594.5	596.9	604.0

Preferred selection

Product ID	Wattage (W)	Lumen	Order Code
MASTER TL-D Xtreme 830 SLV	18W	1350	54492640
MASTER TL-D Xtreme 840 SLV	18W	1350	54496440
MASTER TL-D Xtreme 830 SLV	36W	3250	55866440
MASTER TL-D Xtreme 840 SLV	36W	3250	55868840
MASTER TL-D Xtreme 840 SLV	58W	5150	55886240

TL-D Standard Colours

Standard



TL-D Standard Colours



Create atmospheres
from warm white to
cool daylight

Applications

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

Why choose?

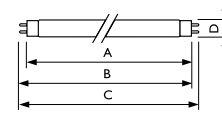
- Standard colours with moderate colour rendering
- Available in various colour designations
- Create atmospheres from warm white to cool daylight

Technical features

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

TL-D Standard Colours

Standard



TL-D Standard Colours

Dimensions in mm	A	B	C	D
	max.	min.	max.	max.
TL-D 15W	437.4	442.1	444.5	451.6
TL-D 18W	589.8	594.5	596.9	604
TL-D 30W	894.6	899.3	901.7	908.8
TL-D 36W	1199.4	1204.1	1206.5	1213.6
TL-D 38W	1047	1051.7	1054.1	1061.2
TL-D 58W	1500	1504.7	1507.1	1514.2
TL-D 70W	1763.8	1768.5	1770.9	1778

TL-D Standard Colours

Standard

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (R _a)
TL-D 15W/33-640 SLV	25	76	G13	Cool White	4100	63
TL-D 15W/54-765 SLV	25	76	G13	Cool Daylight	6200	72
TL-D 18W/33-640 SLV	25	71	G13	Cool White	4100	63
TL-D 18W/54-765 SLV	25	71	G13	Cool Daylight	6200	72
TL-D 23W/33-640 SLV	25	120	G13	Cool White	4100	63
TL-D 23W/54-765 SLV	25	120	G13	Cool Daylight	6200	72
TL-D 30W/33-640 SLV	25	113	G13	Cool White	4100	63
TL-D 30W/54-765 SLV	25	113	G13	Cool Daylight	6200	72
TL-D 36W/33-640 SLV	25	137.5	G13	Cool White	4100	63
TL-D 36W/54-765 SLV	25	137.5	G13	Cool Daylight	6200	72
TL-D 38W/33-640 SLV	25	133	G13	Cool White	4100	63
TL-D 58W/33-640 SLV	25	186	G13	Cool White	4100	63
TL-D 58W/54-765 SLV	25	186	G13	Cool Daylight	6200	72
TL-D 70W/33-640 SLV	25	214	G13	Cool White	4100	63

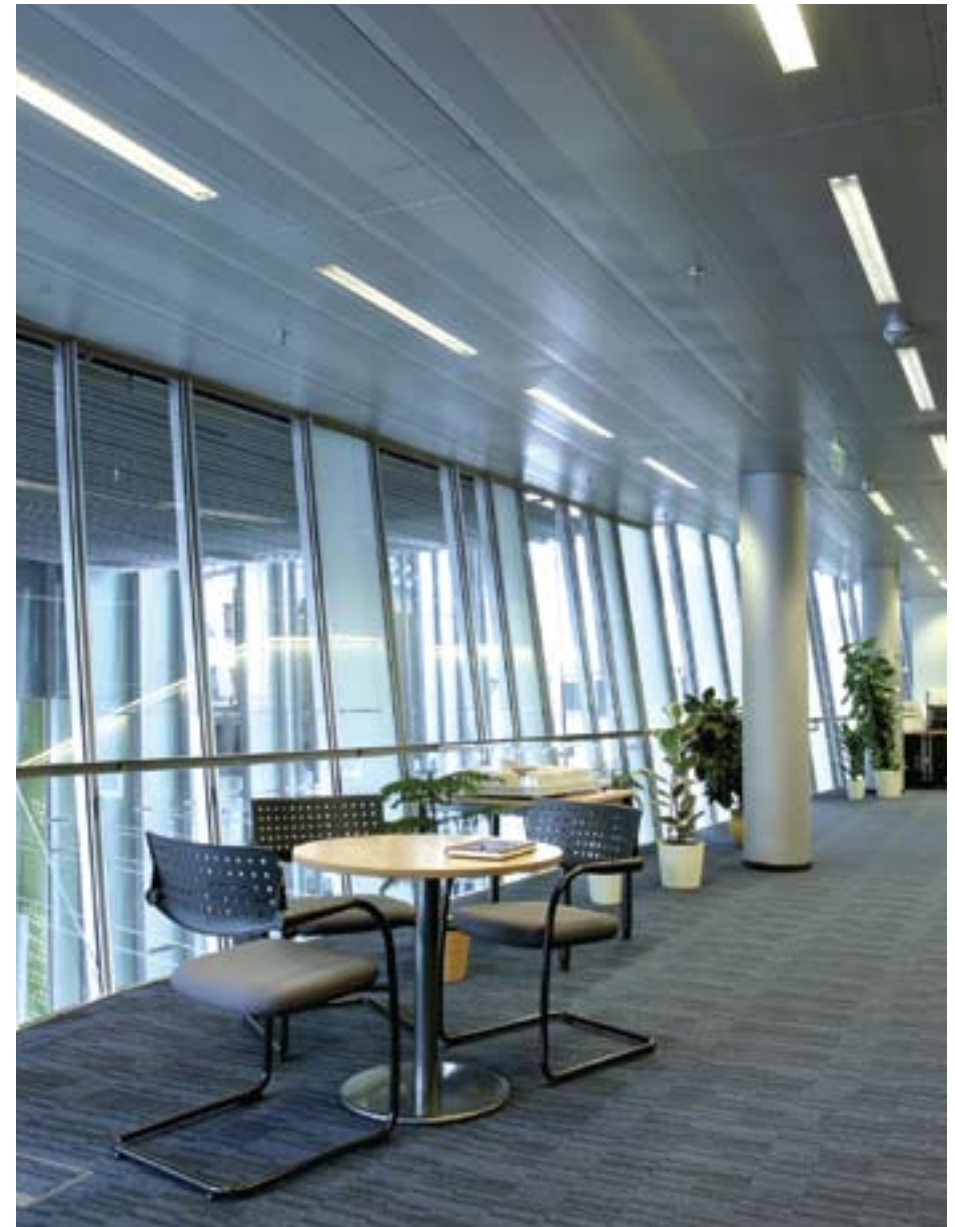
SLV: Sleeve packaging

Product ID	Lamp Voltage (V)	Lamp Wattage EM (W)	Lamp Current EM (A)	Luminous Flux Lamp EM (lm)	Luminance Average EM (cd/cm ²)	Energy Efficiency Label	Order Code
TL-D 15W/33-640 SLV	51	15	0.34	960	0.95	B	70277740
TL-D 15W/54-765 SLV	51	15	0.34	830	0.85	B	72221840
TL-D 18W/33-640 SLV	59	18	0.36	1200	0.85	B	70266140
TL-D 18W/54-765 SLV	59	18	0.36	1050	0.75	B	70267840
TL-D 23W/33-640 SLV	95	23	0.3	1900	0.9	A	72638440
TL-D 23W/54-765 SLV	95	23	0.3	1550	0.7	B	72641440
TL-D 30W/33-640 SLV	98	30	0.36	2100	1.05	B	70282140
TL-D 30W/54-765 SLV	98	30	0.36	1825	0.9	B	72263840
TL-D 36W/33-640 SLV	103	36	0.44	2850	1.05	B	70270840
TL-D 36W/54-765 SLV	103	36	0.44	2500	0.95	B	70271540
TL-D 38W/33-640 SLV	104	38	0.43	3100	1.2	B	72669840
TL-D 58W/33-640 SLV	111	58.5	0.67	4600	1.35	B	70274640
TL-D 58W/54-765 SLV	111	58.5	0.67	4000	1.15	B	70275340
TL-D 70W/33-640 SLV	132	70	0.69	5250	1.3	B	61837540

SLV: Sleeve packaging

TL-D Standard Colours

Standard



TL-E Standard Colours

Standard



TL-E Standard Colours



Create atmosphere
from warm white to
cool daylight

Applications

- Suitable for use in a wide range of luminaires for various purposes, including many decorative luminaires where colour rendering is not important

Why choose?

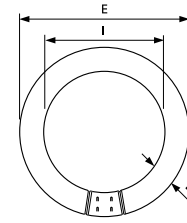
- Symmetrical, omnidirectional light distribution
- Create atmosphere from warm white to cool daylight

Technical features

- Low-pressure mercury discharge lamps with a circular 26 mm tube

TL-E Standard Colours

Standard



TL-E Standard Colours

Dimensions in mm	D		E		I	
	min.	max.	min.	max.	min.	max.
TL-E 22W	26.2	30.9	200	219	147.6	157.2
TL-E 32W	26.2	30.9	288.9	307.9	236.5	246.1
TL-E 40W	26.2	30.9	390.5	409.5	338.1	347.7

Preferred selection

Product ID	Packaging Configuration	Net weight per piece	Cap/ Base (g)	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
TL-E 22W/54-765 ICT	12	156	G10q	Cool Daylight	6200	72
TL-E 32W/54-765 ICT	12	262	G10q	Cool Daylight	6200	72
TL-E 40W/54-765 ICT	12	336	G10q	Cool Daylight	6200	72

Product ID	Lamp Voltage (V)	Lamp Wattage EM (W)	Lamp Current EM (A)	Luminous Flux Lamp EM (lm)	Luminous Efficacy Lamp EM (lm/W)	Luminance Average EM (cd/cm ²)	Energy Efficiency Label	Order Code
TL-E 22W/54-765 ICT	62	22	0.4	1050	48	0.7	B	8711500 63390315
TL-E 32W/54-765 ICT	81	32	0.45	1750	57	0.65	B	63387315
TL-E 40W/54-765 ICT	110	40	0.42	2500	62	0.65	B	55991315

TL Mini Standard Colours

Limited space



TL Mini Standard Colours



Small directional

Applications

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

Why choose?

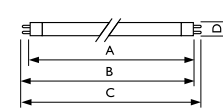
- Creates atmospheres from warm white to cool daylight

Technical features

- 16 mm diameter tubes with moderate colour rendering

TL Mini Standard Colours

Limited space



TL Mini Standard Colours

Dimensions in mm	A		B		C	
	max.	min.	max.	max.	D	
TL 6W	212.1	216.8	219.2	226.3	16	
TL 8W	288.3	293.0	295.4	302.5	16	
TL 13W	516.9	521.6	524.0	531.1	16	

Preferred selection

Product ID	Packaging Configuration	Net weight per piece (g)	Cap/Base	Colour Designation	Colour Temperature (K)	Colour Rendering Index (Ra)
TL Mini 6W/33-640 FAM	10x25BOX	21	G5	Cool White	4100	60
TL Mini 6W/54-765 FAM	10x25BOX	22	G5	Cool Daylight	6200	75
TL Mini 8W/33-640 FAM	10x25BOX	29	G5	Cool White	4100	60
TL Mini 8W/54-765 FAM	10x25BOX	29	G5	Cool Daylight	6200	75
TL Mini 13W/33-640 FAM	10x25BOX	45	G5	Cool White	4100	60
TL Mini 13W/54-765 FAM	10x25BOX	45	G5	Cool Daylight	6200	75

SLV: Sleeve packaging

Product ID	Lamp Voltage (V)	Lamp Wattage EM (W)	Lamp Current EM (A)	Luminous Flux Lamp EM (lm)	Luminous Efficacy Lamp EM (lm/W)	Luminance Average EM (cd/cm ²)	Energy Efficiency Label	Order Code
TL Mini 6W/33-640 FAM	42	6	0,16	260	43	0,85	B	8711500 71583827
TL Mini 6W/54-765 FAM	42	6	0,16	230	38	0,7	B	71597527
TL Mini 8W/33-640 FAM	56	7,1	0,15	410	51	0,9	B	70473327
TL Mini 8W/54-765 FAM	56	7,1	0,15	340	48	0,75	B	71628627
TL Mini 13W/33-640 FAM	90	13	0,17	930	71	1,1	A	70475727
TL Mini 13W/54-765 FAM	90	13	0,17	740	57	0,9	B	71671227

SLV: Sleeve packaging

MASTER TL-D ECO

Simple energy savings



TL-D ECO



10% extra energy savings

Applications

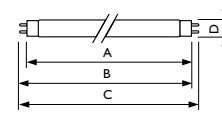
- Indoor working areas (office, public/government buildings, schools, hospitals, etc.) with ambient temperatures above 15°C
- High-quality lighting with good color rendering (CRI>80)
- Helps reduce CO₂ emissions and meet climate change targets
- Philips Green Flagship label due to extremely low mercury levels

Why choose?

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

MASTER TL-D ECO

Simple energy savings



TL-D ECO

Dimensions in mm	A		B		C		D	
	max.	min.	max.	min.	max.	min.	max.	min.
MASTER TL-D Eco 32W/865 ISL	1199.4	1204.1	1206.5	1213.6	28			

Preferred selection

Product ID	Wattage (W)	Net weight per piece (g)	Cap/Base	Colour Temperature (K)	Colour Rendering Index (R _a)	Colour Designation	Order Code
MASTER TL-D Eco 32W/830 ISL	32	138	G13	3000	85	Warm White	26458940
MASTER TL-D Eco 32W/840 ISL	32	138	G13	4000	85	Cool White	26462640
MASTER TL-D Eco 32W/865 ISL	32	138	G13	6500	85	Cool Day Light	26464040
MASTER TL-D Eco 51W/830 ISL	51	173	G13	3000	85	Warm White	26466440
MASTER TL-D Eco 51W/840 ISL	51	173	G13	4000	85	Cool White	26470140
MASTER TL-D Eco 51W/865 ISL	51	173	G13	6500	85	Cool Day Light	26472540

Halogen Lamps



MASTER Line ES

LV Halogen with Reflector



MASTER Line ES



40% less energy, less heat

Applications

- 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

Why choose?

- Energy efficiency 40% better than standard products
- Bright, sparkling white halogen light
- Excellent colour rendering
- Extreme long average rated life

Product Features

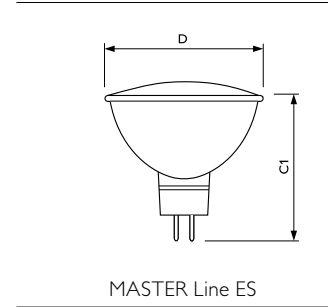
- Energy saving, low voltage halogen reflector lamp of the MASTER collection, with dichroic reflector and infra red coated double ended burner
- Unique Philips patented Infra red coated double ended burner with the highest possible efficiency (40% better than standard products)

Luminaires

- Can be used in luminaires without front glass in accordance with IEC 598

MASTER Line ES

LV Halogen with Reflector



Dimensions in mm	C	D
	max.	max.
MASTER Line ES	50.5	51

Preferred selection

Product ID	Voltage (V)	Wattage (W)	Beam Angle	Cap/ Base	Luminous Intensity (cd)	Average Life (h)	Order Code 871 1 500
MASTER Line ES	12V	20W	8D	GU5.3	6500	5000	41364271
MASTER Line ES	12V	20W	36D	GU5.3	1000	5000	41367371
MASTER Line ES	12V	30W	8D	GU5.3	11000	5000	41370371
MASTER Line ES	12V	30W	24D	GU5.3	3350	5000	41375871
MASTER Line ES	12V	30W	36D	GU5.3	1600	5000	41378971
MASTER Line ES	12V	30W	60D	GU5.3	750	5000	41382671
MASTER Line ES	12V	35W	8D	GU5.3	14000	5000	41387171
MASTER Line ES	12V	35W	24D	GU5.3	4400	5000	41397071
MASTER Line ES	12V	35W	36D	GU5.3	2200	5000	42432771
MASTER Line ES	12V	35W	60D	GU5.3	1050	5000	42435871
MASTER Line ES	12V	45W	8D	GU5.3	16000	5000	42438971
MASTER Line ES	12V	45W	24D	GU5.3	5450	5000	42441971
MASTER Line ES	12V	45W	36D	GU5.3	2850	5000	42444071
MASTER Line ES	12V	45W	60D	GU5.3	1300	5000	42447171

Essential Dichroic MRI6

LV Halogen with Reflector



MRI6



Crisp, white light

Applications

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

Why choose?

- Good light quality with cool beam halogen crisp, white light
- Professional lifetime
- Dimmable

Technical features

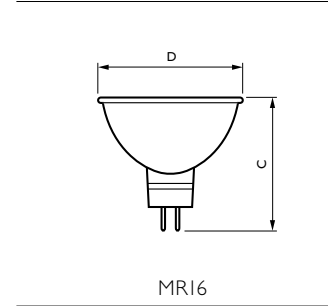
- The dichroic reflector coating transmits the heat towards the back and reflects the visible light towards the front of the lamp
- UV-Block burner
- Excellent colour rendering
- GU5.3 base for extra retention in luminaire

Luminaires

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

Essential Dichroic MRI6

LV Halogen with Reflector



Burning position



Universal

Dimensions in mm	C	D
MRI6 GU5.3	46	50

Product ID	Voltage (V)	Wattage (W)	Cap/Base	Half Intensity Beam angle (degrees)	Luminous Intensity (cd)	Average Life (h)	Colour Temperature (K)	Order Code
ESS MRI6	12	20	GU5.3	36	400	2000	2900	88592065
ESS MRI6	12	35	GU5.3	36	800	2000	2900	88593760
ESS MRI6	12	50	GU5.3	36	1200	2000	2900	88594465

Maximum permissible temperatures	
Reflector	250°
Reflector rim	240°
Pinch	350°
Contacts	300°

Capsuline

LV Halogen without Reflector



CAP LS GY6.35



Brighter light

Applications

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

Why choose?

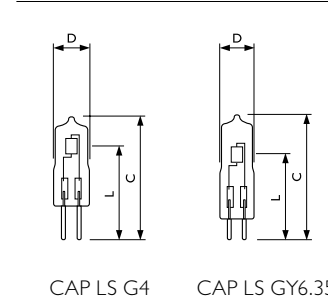
- Low-pressure technology allows use in luminaires without front glass

Technical 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

Capsuline

LV Halogen without Reflector



CAP LS G4

CAP LS GY6.35

Dimensions in mm	C	D	L
	max.	max.	nom.
CAP G4 10W	31	9	22
CAP G4 80W	32	9	22
CAP GY6.35 50W	44	12	30

Preferred selection

Product ID	Voltage (V)	Wattage (W)	Cap/ Base	Luminous Intensity (cd)	Average Life (h)	Order Code 8711500
Capsuline	12V	10W	G4	120	2000	41298050
Capsuline	12V	20W	G4	300	2000	41233150
Capsuline	12V	50W	GY6.35	800	2000	42839446

Essential Twistline Alu

MV Halogen with Reflector



TWIST Alu GU10



Easy to install

Applications

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

Why choose?

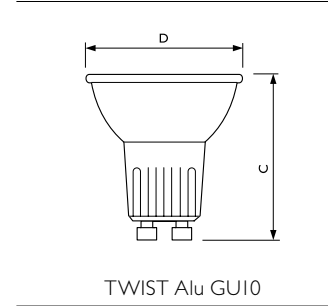
- Lamp can be connected directly to the mains supply, so no transformers are needed
- UV-Block lamp so no additional front glass or UV filter required
- Twistline dichroic and aluminium versions are the most compact lamps of their kind available

Technical features

- Quartz burner with filament optically positioned in an 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

Essential Twistline Alu

MV Halogen with Reflector



TWIST Alu GU10

Dimensions in mm	C	D
	max.	max.
Twistline Alu GU10	51	51

Preferred selection

Product ID	Voltage	Wattage	Beam Angle	Cap/ Base	Luminous Intensity	Average Life	Order Code
	(V)	(W)			(cd)	(h)	8711500
Essential Twistline Alu	230V	35W	40D	GU10	250	2000	88767260
Essential Twistline Alu	240V	35W	40D	GU10	250	2000	88768960
Essential Twistline Alu	230V	50W	40D	GU10	400	2000	88769660
Essential Twistline Alu	240V	50W	40D	GU10	400	2000	88770260

Plusline (Double Ended)

MV Halogen without Reflector



Plusline Small R7S



Create a brighter atmosphere

Applications

- Typically used in shop lighting applications
- Indoor: homes, offices, shops and museums
- Outdoor: billboards, car parks, security lighting and construction sites
- Excellent colour rendering

Why choose?

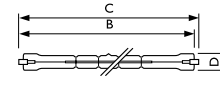
- 20% more light than ordinary double-ended
- Long lifetime
- Bright halogen light
- Excellent colour rendering

Technical Features

- Double-ended high-efficacy lamps
- Clear tubular UV block quartz bulb
- Constant light output during life
- Must be used in luminaires with a front cover glass

Plusline (Double Ended)

MV Halogen without Reflector



Plusline

Dimensions in mm	B	C	D
	nom.	max.	max.
Plusline Small	114.2	117.6	12
Plusline Compact	74.9	78.3	12
Plusline Large 1000W	185.7	189.1	11
Plusline Large 1500W	250.7	254.1	11

Preferred selection

Product ID	Voltage (V)	Wattage (W)	Cap/Base	Luminous (Lm)	Average Lifetime (hrs)	Colour Temperature (K)	Packaging	Order Code
PlusLine Compact	230	60	R7s	810	1500	2900	blisbox	8711500 49472626
PlusLine Compact	230	100	R7s	1550	2000	2900	blisbox	05833126
PlusLine Compact	230	150	R7s	2400	2000	2900	blisbox	05834826
PlusLine Compact	240	100	R7s	1550	2000	2900	blisbox	05827026
PlusLine Compact	240	150	R7s	2400	2000	2900	blisbox	05828726
PlusLine Small	230	200	R7s	3000	2000	2900	blisbox	49437526
PlusLine Small	230	300	R7s	5114	2000	2900	blisbox	49438226
PlusLine Small	230	500	R7s	9660	2000	2900	blisbox	49439926
PlusLine Small	240	200	R7s	3000	2000	2900	blisbox	05829426
PlusLine Small	240	300	R7s	5114	2000	2900	blisbox	05831726
PlusLine Small	240	500	R7s	9660	2000	2900	blisbox	05832426
PlusLine Small	120	500	R7s	9500	2000	2900	blisbox	49463426
Plusline Large	230	1000	R7s	21500	2000	2900	etui	49434425
Plusline Large	240	1000	R7s	21500	2000	2900	etui	05597225
Plusline Large	240	1500	R7s	32250	2000	2900	etui	05599625
Plusline Large	120	1000	R7s	21500	2000	2900	etui	49485625

EcoClassic 30

Energy saving



EcoClassic 30 clear



30% energy saving halogen

Applications

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

Why choose?

- Sparkling, crisp white halogen light of professional quality
- 30% energy savings compared with classic incandescent lamps
- Creates an attractive ambience
- Dimmable

Technical Features

- Direct retrofit for the corresponding incandescent lamps
- Wide choice of wattages to replace classic incandescent range from 40W to 200W
- Available with E27, E14 and B22 caps. Also in frosted and clear versions
- 2000 hrs lifetime

EcoClassic 30

Energy saving



EcoClassic 30

Operational position



Universal

Dimensions in mm	C	D
	max.	max.
EcoClassic 30	107	61

Preferred selection

Product ID	Voltage (V)	Wattage (W)	Output of	Energy Saving	Finish	Cap/ Base	Average life (hrs)	Order Code 8727900
EcoClassic 30 Standard Shape	230V	42W	60W	30%	Clear	E27	2000	25171525
EcoClassic 30 Standard Shape	230V	53W	75W	30%	Clear	E27	2000	25172225
EcoClassic 30 Standard Shape	230V	70W	100W	30%	Clear	E27	2000	25225525
EcoClassic 30 Standard Shape	230V	105W	150W	30%	Clear	E27	2000	25226225
EcoClassic 30 Standard Shape	230V	140W	200W	30%	Clear	E27	2000	25255225
EcoClassic 30 Standard Shape	230V	42W	60W	30%	Frosted	E27	2000	25175325
EcoClassic 30 Standard Shape	230V	53W	75W	30%	Frosted	E27	2000	25176025
EcoClassic 30 Standard Shape	230V	70W	100W	30%	Frosted	E27	2000	25177725
EcoClassic 30 Standard Shape	230V	105W	150W	30%	Frosted	E27	2000	25178425
EcoClassic 30 Standard Shape	230V	140W	200W	30%	Frosted	E27	2000	25256925
EcoClassic 30 Standard Shape	240V	42W	60W	30%	Clear	B22	2000	25187625
EcoClassic 30 Standard Shape	240V	53W	75W	30%	Clear	B22	2000	25188325
EcoClassic 30 Standard Shape	240V	70W	100W	30%	Clear	B22	2000	25189025
EcoClassic 30 Standard Shape	240V	105W	150W	30%	Clear	B22	2000	25190625
EcoClassic 30 Standard Shape	240V	42W	60W	30%	Frosted	B22	2000	25191325
EcoClassic 30 Standard Shape	240V	53W	75W	30%	Frosted	B22	2000	25192025
EcoClassic 30 Standard Shape	240V	70W	100W	30%	Frosted	B22	2000	25193725
EcoClassic 30 Standard Shape	240V	105W	150W	30%	Frosted	B22	2000	25194425
EcoClassic 30 Standard Shape	240V	140W	200W	30%	Frosted	B22	2000	25260625
EcoClassic 30 Standard Shape	240V	42W	60W	30%	Clear	E27	2000	25179125
EcoClassic 30 Standard Shape	240V	53W	75W	30%	Clear	E27	2000	25180725
EcoClassic 30 Standard Shape	240V	70W	100W	30%	Clear	E27	2000	25181425
EcoClassic 30 Standard Shape	240V	105W	150W	30%	Clear	E27	2000	25182125
EcoClassic 30 Standard Shape	240V	42W	60W	30%	Frosted	E27	2000	25183825
EcoClassic 30 Standard Shape	240V	53W	75W	30%	Frosted	E27	2000	25184525
EcoClassic 30 Standard Shape	240V	70W	100W	30%	Frosted	E27	2000	25185225
EcoClassic 30 Standard Shape	240V	105W	150W	30%	Frosted	E27	2000	25186925
EcoClassic 30 Standard Shape	240V	140W	200W	30%	Frosted	E27	2000	25259025

Incandescent Lamps



Standard (A-shape)

Incandescent



A55 E27 Clear



Standard good quality light

Applications

- Frosted lamps give low glare and diffused lighting for universal applicability
- Clear lamps are ideal for indirect lighting in closed luminaires, and where brilliance and sparkling effects are more important than reduction of glare

Why choose?

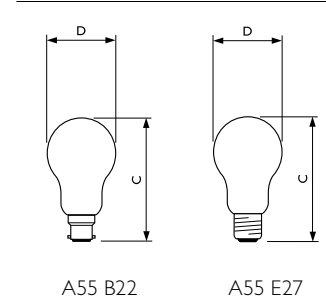
- Good quality of light

Technical features

- Vacuum-filled (15W) or gas-filled (25W and above)
- Product description
- Conventional pear-shaped incandescent lamps

Standard (A-shape)

Incandescent



A55 B22

A55 E27

Dimensions in mm	C	D
A55 B22	93	55
A55 E27	96	55

Burning position



Universal

Standard (A-shape)

Incandescent

Standard (A-shape)

Incandescent

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Clear									
STANDARD A55 25W	230V	A55	E27	CL	220	1000	120	ICT	7563184
STANDARD A55 25W	230V	A55	B22	CL	220	1000	120	ICT	7558784
STANDARD A55 40W	230V	A55	E27	CL	415	1000	120	ICT	7564884
STANDARD A55 40W	230V	A55	B22	CL	415	1000	120	ICT	7559484
STANDARD A55 60W	230V	A55	E27	CL	710	1000	120	ICT	7565584
STANDARD A55 60W	230V	A55	B22	CL	710	1000	120	ICT	7560084
STANDARD A55 75W	230V	A55	E27	CL	930	1000	120	ICT	7566284
STANDARD A55 75W	230V	A55	B22	CL	930	1000	120	ICT	7561784
STANDARD A55 100W	230V	A55	E27	CL	1340	1000	120	ICT	7562484
STANDARD A55 100W	230V	A55	B22	CL	1340	1000	120	ICT	7557084
8710163									
Frosted									
STANDARD A55 25W	240V	A55	E27	CL	215	1000	120	ICT	7572384
STANDARD A55 25W	240V	A55	B22	CL	215	1000	120	ICT	7568684
STANDARD A55 40W	240V	A55	E27	CL	410	1000	120	ICT	7573084
STANDARD A55 40W	240V	A55	B22	CL	410	1000	120	ICT	7569384
STANDARD A55 60W	240V	A55	E27	CL	700	1000	120	ICT	7574784
STANDARD A55 60W	240V	A55	B22	CL	700	1000	120	ICT	7570984
STANDARD A55 75W	240V	A55	E27	CL	920	1000	120	ICT	7575484
STANDARD A55 100W	240V	A55	E27	CL	1330	1000	120	ICT	7571684
STANDARD A55 100W	240V	A55	B22	CL	1330	1000	120	ICT	7567984
7572384									
7568684									
7573084									
7569384									
7574784									
7570984									
7575484									
7571684									
7567984									
7553284									
7554984									
7555684									
7556384									
7552584									

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Frosted									
STANDARD A55 25W	230V	A55	E27	FR	220	1000	120	ICT	7535884
STANDARD A55 25W	230V	A55	B22	FR	220	1000	120	ICT	7529784
STANDARD A55 40W	230V	A55	E27	FR	415	1000	120	ICT	7536584
STANDARD A55 40W	230V	A55	B22	FR	415	1000	120	ICT	7530384
STANDARD A55 60W	230V	A55	E27	FR	710	1000	120	ICT	7537284
STANDARD A55 60W	230V	A55	B22	FR	710	1000	120	ICT	7531084
STANDARD A55 75W	230V	A55	E27	FR	930	1000	120	ICT	7538984
STANDARD A55 75W	230V	A55	B22	FR	930	1000	120	ICT	7532784
STANDARD A55 100W	230V	A55	E27	FR	1340	1000	120	ICT	7533484
STANDARD A55 100W	230V	A55	B22	FR	1340	1000	120	ICT	7528084
8710163									
Frosted									
STANDARD A55 25W	240V	A55	E27	FR	215	1000	120	ICT	7545784
STANDARD A55 25W	240V	A55	B22	FR	215	1000	120	ICT	7540284
STANDARD A55 40W	240V	A55	E27	FR	410	1000	120	ICT	7546484
STANDARD A55 40W	240V	A55	B22	FR	410	1000	120	ICT	7541984
STANDARD A55 60W	240V	A55	E27	FR	700	1000	120	ICT	7547184
STANDARD A55 60W	240V	A55	B22	FR	700	1000	120	ICT	7542684
STANDARD A55 75W	240V	A55	E27	FR	920	1000	120	ICT	7548884
STANDARD A55 75W	240V	A55	B22	FR	920	1000	120	ICT	7543384
STANDARD A55 100W	240V	A55	E27	FR	1330	1000	120	ICT	7544084
STANDARD A55 100W	240V	A55	B22	FR	1330	1000	120	ICT	7539684
7545784									
7540284									
7546484									
7541984									
7547184									
7542684									
7548884									
7543384									
7544084									
7539684									
7524284									
7525984									
7521184									
7526684									
7522884									
7527384									
7523584									
7520484									

Standard Candle (B-shape)

Incandescent



B35 Clear



Good quality light

Applications

- Home use in living and dining rooms, bedrooms, halls and studies
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas, Ballrooms, Shops and boutiques, Churches

Why choose?

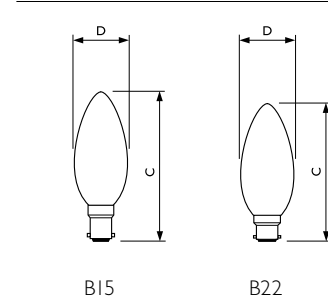
- Decorative shape: good quality of light
- The clear types are at their best in decorative glass chandeliers and wall brackets with clear or textured glass bowls. Their brilliant, visible filament adds small points of brightness for an enriched lighting effect
- The frosted types are graceful lamps that enhance the elegance of classical chandeliers, candelabras, wall brackets etc. They set the scene for cosiness and comfort, and can be used with or without lampshades

Technical features

- The slender, crystal-clear lamps are designed for sparkling highlights, they create a classic sparkling atmosphere
- The slender, frosted lamps create a low glare atmosphere

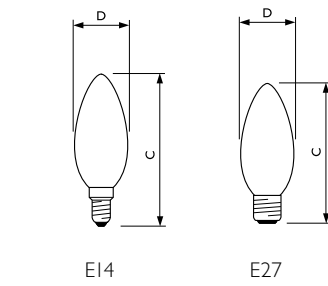
Standard Candle (B-shape)

Incandescent



B15

B22

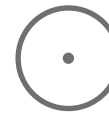


E14

E27

Dimensions in mm	C	D
Candle B15	97	35
Candle B22	94	35
Candle E14	99	35
Candle E27	95	35

Burning position



Universal

Standard Candle (B-shape)

Incandescent

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
									8710163
Clear									
CANDLE B35 15W	230V	B35	E14	CL	115	1000	100	ICT	7579250
CANDLE B35 25W	230V	B35	E14	CL	210	1000	100	ICT	7580850
CANDLE B35 40W	230V	B35	E14	CL	410	1000	100	ICT	7581550
CANDLE B35 40W	230V	B35	E27	CL	410	1000	100	ICT	7583950
CANDLE B35 60W	230V	B35	E14	CL	690	1000	100	ICT	7582250
CANDLE B35 25W	240V	B35	E14	CL	210	1000	100	ICT	7584650
CANDLE B35 40W	240V	B35	E14	CL	405	1000	100	ICT	7585350
CANDLE B35 40W	240V	B35	E27	CL	405	1000	100	ICT	7587750
CANDLE B35 60W	240V	B35	E14	CL	670	1000	100	ICT	7586050
CANDLE B35 25W	125-130V	B35	E14	CL	255	1000	100	ICT	7576150
CANDLE B35 40W	125-130V	B35	E14	CL	480	1000	100	ICT	7577850
CANDLE B35 60W	125-130V	B35	E14	CL	710	1000	100	ICT	7578550

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
									8710163
Frosted									
CANDLE B35 15W	230V	B35	E14	FR	115	1000	100	ICT	7591450
CANDLE B35 25W	230V	B35	E14	FR	215	1000	100	ICT	7592150
CANDLE B35 40W	230V	B35	B22	FR	410	1000	100	ICT	7505150
CANDLE B35 40W	230V	B35	E14	FR	410	1000	100	ICT	7593850
CANDLE B35 40W	230V	B35	E27	FR	410	1000	100	ICT	7596950
CANDLE B35 60W	230V	B35	E14	FR	670	1000	100	ICT	7594550
CANDLE B35 25W	240V	B35	E14	FR	210	1000	100	ICT	7598350
CANDLE B35 40W	240V	B35	B15	FR	405	1000	100	ICT	7597650
CANDLE B35 40W	240V	B35	E14	FR	405	1000	100	ICT	7599050
CANDLE B35 40W	240V	B35	E27	FR	405	1000	100	ICT	7601050
CANDLE B35 60W	240V	B35	E14	FR	670	1000	100	ICT	7600350
CANDLE B35 60W	240V	B35	E27	FR	670	1000	100	ICT	7602750
CANDLE B35 25W	125-130V	B35	E14	FR	255	1000	100	ICT	7588450
CANDLE B35 40W	125-130V	B35	E14	FR	480	1000	100	ICT	7589150
CANDLE B35 60W	125-130V	B35	E14	FR	710	1000	100	ICT	7590750

Standard Candle (B-shape)

Incandescent



Standard Lustre (P-shape)

Incandescent



P45 E14 Clear



Good quality light

Applications

- Home use in living and dining rooms, bedrooms, halls and studies
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Shops, boutiques and department stores

Why choose?

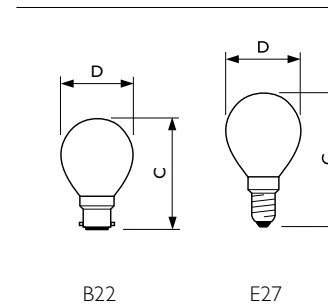
- The clear versions with their brilliant, visible filament add small points of brightness for an enriched lighting effect
- The frosted types create softly diffused light to set the scene for cosiness and comfort, and meet both aesthetic and functional requirements

Technical features

- Lamps with reduced size and neat shape
- The small, crystal-clear lamps are designed for sparkling highlights. They are at their best in decorative small luminaires such as table models and wall brackets with clear glass bowls where they create a sparkling atmosphere
- They create a pleasant low glare atmosphere

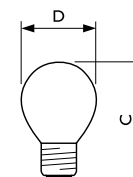
Standard Lustre (P-shape)

Incandescent



B22

E27



E14

Burning position



Universal

Dimensions in mm	C	D
Lustre B22	70	45
Lustre E14	77	45
Lustre E27	72	45

Standard Lustre (P-shape)

Incandescent

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Clear									
LUSTRE P45 15W	230V	P45	E27	CL	115	1000	100	ICT	7614050
LUSTRE P45 25W	230V	P45	B22	CL	205	1000	100	ICT	7609650
LUSTRE P45 25W	230V	P45	E14	CL	205	1000	100	ICT	7611950
LUSTRE P45 25W	230V	P45	E27	CL	205	1000	100	ICT	7615750
LUSTRE P45 40W	230V	P45	B22	CL	405	1000	100	ICT	7610250
LUSTRE P45 40W	230V	P45	E14	CL	405	1000	100	ICT	7612650
LUSTRE P45 40W	230V	P45	E27	CL	405	1000	100	ICT	7616450
LUSTRE P45 60W	230V	P45	E14	CL	650	1000	100	ICT	7613350
LUSTRE P45 60W	230V	P45	E27	CL	650	1000	100	ICT	7617150
LUSTRE P45 25W	240V	P45	E14	CL	210	1000	100	ICT	7618850
LUSTRE P45 25W	240V	P45	E27	CL	210	1000	100	ICT	7620150
LUSTRE P45 40W	240V	P45	E14	CL	400	1000	100	ICT	7619550
LUSTRE P45 40W	240V	P45	E27	CL	400	1000	100	ICT	7621850
LUSTRE P45 25W	125-130V	P45	E27	CL	255	1000	100	ICT	7606550
LUSTRE P45 40W	125-130V	P45	E27	CL	480	1000	100	ICT	7607250
LUSTRE P45 60W	125-130V	P45	E27	CL	710	1000	100	ICT	7608950

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Frosted									
LUSTRE P45 15W	230V	P45	E14	FR	120	1000	100	ICT	7630050
LUSTRE P45 15W	230V	P45	E27	FR	120	1000	100	ICT	7634850
LUSTRE P45 25W	230V	P45	B22	FR	215	1000	100	ICT	7627050
LUSTRE P45 25W	230V	P45	E14	FR	215	1000	100	ICT	7631750
LUSTRE P45 25W	230V	P45	E27	FR	215	1000	100	ICT	7635550
LUSTRE P45 40W	230V	P45	B22	FR	405	1000	100	ICT	7628750
LUSTRE P45 40W	230V	P45	E14	FR	405	1000	100	ICT	7632450
LUSTRE P45 40W	230V	P45	E27	FR	405	1000	100	ICT	7636250
LUSTRE P45 60W	230V	P45	B22	FR	650	1000	100	ICT	7629450
LUSTRE P45 60W	230V	P45	E14	FR	650	1000	100	ICT	7633150
LUSTRE P45 60W	230V	P45	E27	FR	650	1000	100	ICT	7637950
LUSTRE P45 25W	240V	P45	E14	FR	210	1000	100	ICT	7638650
LUSTRE P45 25W	240V	P45	E27	FR	210	1000	100	ICT	7640950
LUSTRE P45 40W	240V	P45	E14	FR	400	1000	100	ICT	7639350
LUSTRE P45 40W	240V	P45	E27	FR	400	1000	100	ICT	7641650
LUSTRE P45 25W	125-130V	P45	E14	FR	255	1000	100	ICT	7622550
LUSTRE P45 25W	125-130V	P45	E27	FR	255	1000	100	ICT	7624950
LUSTRE P45 40W	125-130V	P45	E14	FR	480	1000	100	ICT	7623250
LUSTRE P45 40W	125-130V	P45	E27	FR	480	1000	100	ICT	7625650
LUSTRE P45 60W	125-130V	P45	E27	FR	725	1000	100	ICT	7626350

Standard Lustre (P-shape)

Incandescent



A55 White (A-shape)

Incandescent



A55 White E27



Standard light

Applications

- Living and dining rooms
- Hotels
- Restaurants
- Bedrooms
- Halls

Why choose?

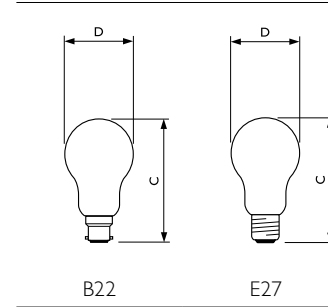
- Conventional pear-shaped incandescent lamps

Technical features

- Gas-filled (25W and above) lamps with a modern white coating

A55 White (A-shape)

Incandescent



Dimensions in mm	C	D
A55 E27	96	55
A55 B22	93	55

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Lamp Base	Bulb Finish	Light Output (Lm)	Lifetime (hrs)	Packaging Configuration (Pcs)	Packaging Type	Order Code
A55 White 40W	240V	A55	B22	White	385	1000	120	Carton	8711500 38260384
A55 White 40W	240V	A55	E27	White	385	1000	120	Carton	38265884
A55 White 60W	240V	A55	B22	White	680	1000	120	Carton	38261084
A55 White 60W	240V	A55	E27	White	680	1000	120	Carton	38266584
A55 White 75W	240V	A55	B22	White	895	1000	120	Carton	38262784
A55 White 75W	240V	A55	E27	White	895	1000	120	Carton	38267284
A55 White 100W	240V	A55	B22	White	1300	1000	120	Carton	38263484
A55 White 100W	240V	A55	E27	White	1300	1000	120	Carton	38268984
A55 White 40W	230V	A55	B22	White	395	1000	120	Carton	38269684
A55 White 40W	230V	A55	E27	White	395	1000	120	Carton	38272684
A55 White 60W	230V	A55	B22	White	690	1000	120	Carton	38270284
A55 White 60W	230V	A55	E27	White	690	1000	120	Carton	38273384
A55 White 100W	230V	A55	B22	White	1310	1000	120	Carton	38271984
A55 White 100W	230V	A55	E27	White	1310	1000	120	Carton	38274084
A55 White 40W	125-130V	A55	B22	White	460	1000	120	Carton	38275784
A55 White 40W	125-130V	A55	E27	White	460	1000	120	Carton	38278884
A55 White 60W	125-130V	A55	B22	White	790	1000	120	Carton	38276484
A55 White 60W	125-130V	A55	E27	White	790	1000	120	Carton	38279584
A55 White 100W	125-130V	A55	B22	White	1530	1000	120	Carton	38277184
A55 White 100W	125-130V	A55	E27	White	1530	1000	120	Carton	38280184

Softone Globe (G-shape)

Incandescent



Softone Globe



Decorative, soft light

Applications

- Home use in living and dining rooms, halls and studies
- Hotel lounges, restaurants, bedrooms, foyers
- Clubs, social areas and public areas
- Shops and boutiques
- Other similar areas

Why choose?

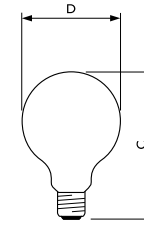
- Gives a delicate, glare-free light in a subtle white colour
- Enhances colours in the home and adds a new dimension to interior decoration
- Creates a pleasant, relaxed atmosphere with a high degree of visual comfort

Technical features

- Bulb internally coated with an opal layer, creating a soft, diffused, glare free light
- Diffused light without harsh shadows

Softone Globe (G-shape)

Incandescent



Softone Globe

Burning position



Universal

Dimensions in mm	C	D
Softone G80	124	80
Softone G95	146	95
Softone G120	171	122

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Softone Globe 40W	230V	G95	E27	Soft White	390	1000	10	ICT	871 1500 3454025
Softone Globe 60W	230V	G80	E27	Soft White	630	1000	10	ICT	3440325
Softone Globe 60W	230V	G95	E27	Soft White	630	1000	10	ICT	3455725
Softone Globe 100W	230V	G95	E27	Soft White	1200	1000	10	ICT	3484725
Softone Globe 100W	230V	G120	E27	Soft White	1200	1000	10	ICT	3464925
Softone Globe 150W	230V	G120	E27	Soft White	1750	1000	10	ICT	7387725

Deco Candle Swan-Neck

Incandescent



Swan-Neck Clear



A luxurious ambiance

Applications

- Suitable for a wide variety of decorative lighting solutions
- Home use in living and dining rooms, studies and halls
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Ballrooms
- Shops and boutiques

Why choose?

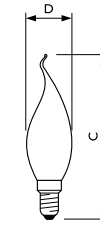
- The clear types with their brilliant, visible filament add small points of brightness for an enriched lighting effect.
- The amber and frosted types give a softly diffused light for cosiness and comfort.

Technical features

- Special decorative flame-shaped bulb available with clear glass, with amber or with inside frosted glass

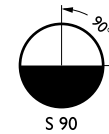
Deco Candle Swan-Neck

Incandescent



Swan-Neck

Universal



Dimensions in mm	C	D
Deco BxS35	114	35

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (Lm)	Packaging Configuration	Packaging Type	Order Code
									8711500
Deco Swan-Neck 25W	230V	BXS35	E14	clear	180	1000	20	ICT	17579338
Deco Swan-Neck 25W	230V	BXS35	E14	amber	170	1000	20	ICT	32919638
Deco Swan-Neck 25W	230V	BXS35	E14	frosted	180	1000	20	ICT	17534238
Deco Swan-Neck 40W	230V	BXS35	E14	clear	370	1000	20	ICT	17580938
Deco Swan-Neck 40W	230V	BXS35	E14	amber	360	1000	20	ICT	32919638
Deco Swan-Neck 40W	230V	BXS35	E14	frosted	370	1000	20	ICT	17535938

Party Standard (A-shape)

Incandescent Specialties



E27 Red



Party lights

Applications

- Suitable for a wide variety of decorative lighting solutions
- Home use in living and dining rooms, studies and halls
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs and social areas
- Ballrooms
- Shops and boutiques

Why choose?

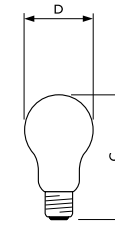
- Environment-friendly due to ESC coating and cadmium-free lamp
- Energy savings thanks to much higher colour brilliance and lumen output than conventional coloured lamps with higher wattages
- Weather-resistant bulbs are perfectly suitable for outdoor use

Technical features

- Choice of attractive colours
- Superior quality thanks to the Electro Static Coated (ESC) internal coating (instead of the conventional wet-flushed inside paint process)

Party Standard (A-shape)

Incandescent Specialties



E27

Dimensions in mm	C	D
Deco BxS35	96	55

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/Base	Finish	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
								8711500
Party 15W	220-240V	A60	E27	Blue	1000	20	ICT	33901005
Party 15W	220-240V	A60	E27	Green	1000	20	ICT	33845705
Party 15W	220-240V	A60	E27	Orange	1000	20	ICT	33947805
Party 15W	220-240V	A60	E27	Red	1000	20	ICT	33912605
Party 15W	220-240V	A60	E27	Yellow	1000	20	ICT	33907205

Party Lustre (P-shape)

Incandescent Specialties



P45 Red



Party lights

Applications

- Outdoor: streets, facades, shopping centres, amusement parks, garden parties, carnivals, restaurants, bars, beaches, Christmas and other decorations
- Indoor: parties, special celebrations and decorative effects
- Multi-colour versions and printing of special graphics available on project basis

Why choose?

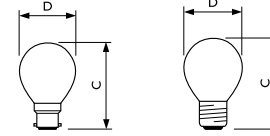
- Environment-friendly due to ESC coating and cadmium-free lamp
- Energy savings thanks to much higher colour brilliance and lumen output than conventional coloured lamps with higher wattages
- Weather-resistant bulbs are perfectly suitable for outdoor use

Technical features

- Choice of attractive colours
- Superior quality thanks to the Electro Static Coated (ESC) internal coating (instead of the conventional wet-flushed inside paint process)

Party Lustre (P-shape)

Incandescent Specialties



B22

E27

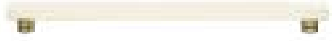
Dimensions in mm	C	D
Party P45 E27	76,5	45
Party P45 B22	76,5	45

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Party 15W	220-240V	P45	E27	Blue	1000	10X10F	ICT	8711500 17747650
Party 15W	220-240V	P45	E27	Green	1000	10X10F	ICT	32690450
Party 15W	220-240V	P45	E27	Orange	1000	10X10F	ICT	32692850
Party 15W	220-240V	P45	E27	Red	1000	10X10F	ICT	17743805
Party 15W	220-240V	P45	E27	Yellow	1000	10X10F	ICT	17745250
Party 15W	220-240V	P45	B22	Blue	1000	10X10F	ICT	17312650
Party 15W	220-240V	P45	B22	Green	1000	10X10F	ICT	17309650
Party 15W	220-240V	P45	B22	Orange	1000	10X10F	ICT	32686750
Party 15W	220-240V	P45	B22	Red	1000	10X10F	ICT	17306550
Party 15W	220-240V	P45	B22	Yellow	1000	10X10F	ICT	17315750

Philinea

Tubular



LINEAR S14s T30 WH



Soft diffused light

Applications

- Aquariums
- Pictures
- Mirrors
- Kitchen cabinets
- Other similar objects

Why choose?

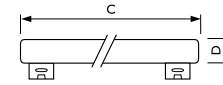
- White-enamelled versions provide softly diffused lighting
- Specially positioned lamp bases allowing installation in continuous strips of light

Technical features

- White-enamelled finish
- Slender shape and high luminous intensity

Philinea

Tubular



Philinea

Dimensions in mm	C	D
Philinea 35W	300	30
Philinea 60W	500	30
Philinea 120W	1000	30

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Luminous Flux Lamp (Lm)	Avg Lifetime (hrs)	Packaging Configuration	Packaging Type	Order Code
Philinea 35W	240V	T30	S14s	White	270	1000	25	ICT	8711500 5690040
Philinea 35W	125-130V	T30	S14s	White	270	1000	25	ICT	13786940
Philinea 60W	230V	T30	S14s	White	420	1000	10	ICT	1356925
Philinea 60W	240V	T30	S14s	White	420	1000	25	ICT	5693140
Philinea 60W	125-130V	T30	S14s	White	420	1000	25	ICT	13788340
Philinea 120W	230V	T30	S14s	White	840	1000	16	ICT	1977643

PAR38

Incandescent Reflector



PAR38 E27 FLOOD



Spot lighting

Applications

- 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

Why choose?

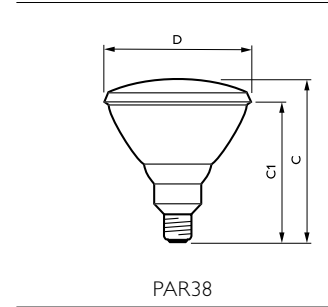
- Saves 20% energy compared to conventional lamps while providing the same amount of light

Technical Features

- Spot versions have a stippled front reflector producing a narrow, homogeneous beam
- Flood versions have a front refractor composed of prismatic elements
- PAR38 lamps have a lifetime of 2000 hrs

PAR38

Incandescent Reflector



Dimensions in mm	C	C1	D
	max.	max.	max.
PAR38	135	123	121

Preferred selection

Product ID	Lamp Voltage (V)	Beam Description	Beam Angle (degrees)	Bulb shape	Cap/ Base	Luminous Intensity (cd)	Avg Lifetime (hrs)	Packaging Type	Order Code
PAR38 80W	230V	Spot	12D	PAR38	E27	4700	2000	ICT	8711500 60037092
PAR38 80W	240V	Spot	12D	PAR38	E27	4700	2000	ICT	01857197
PAR38 80W	230V	Flood	30D	PAR38	E27	1800	2000	ICT	90003620
PAR38 80W	240V	Flood	30D	PAR38	E27	1800	2000	ICT	01856497
PAR38 120W	220-240V	Spot	12D	PAR38	E27	8200	2000	ICT	60038792
PAR38 120W	240V	Spot	12D	PAR38	E27	8200	2000	ICT	02136697
PAR38 120W	220-240V	Flood	30D	PAR38	E27	3100	2000	ICT	60041792
PAR38 120W	240V	Flood	30D	PAR38	E27	3100	2000	ICT	02135997

PAR38 Coloured

Incandescent Reflector



PAR38 Red



Coloured light

Applications

- Parks, public and private gardens
- Festive illumination
- Restaurants, bars, dance halls, discotheques
- Show-window displays, fountains and 'Son et Lumi' spectacles
- Can be installed outdoors without any protection, provided they are used in a watertight lampholder
- For outdoor use, a heat-resistant rubber ring must be fitted between the lamp and the lampholder

Why choose?

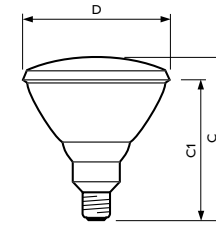
- Gives striking decorative effects, both indoors and outdoors
- 20% lower power consumption compared with conventional coloured PAR lamps

Technical Features

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

PAR38 Coloured

Incandescent Reflector



PAR38 Coloured

Dimensions in mm	C	CI	D
	max.	max.	max.
PAR38 Coloured	135	123	121

Preferred selection

Product ID	Lamp Voltage (V)	Bulb Shape	Cap/ Base	Finish	Avg Lifetime (hrs)	Packaging Type	Order Code
PAR38 Coloured	230V	PAR38	E27	Blue	2000	ICT	8711500
PAR38 Coloured	240V	PAR38	E27	Blue	2000	ICT	04508997
PAR38 Coloured	230V	PAR38	E27	Yellow	2000	ICT	33996620
PAR38 Coloured	240V	PAR38	E27	Yellow	2000	ICT	04509697
PAR38 Coloured	230V	PAR38	E27	Green	2000	ICT	33998020
PAR38 Coloured	240V	PAR38	E27	Green	2000	ICT	04510297
PAR38 Coloured	230V	PAR38	E27	Red	2000	ICT	34000920
PAR38 Coloured	240V	PAR38	E27	Red	2000	ICT	04511997

Reflector R50

Incandescent Reflector



Reflector R50



Brighter light

Applications

- 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

Why choose?

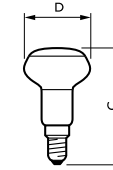
- Centre-beam intensities up to 100% higher than with conventional reflector lamps

Technical 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

Reflector R50

Incandescent Reflector



NR50

Dimensions in mm	C	D
	max.	max.
NR50	85	50

Preferred selection

Product ID	Lamp Wattage (W)	Lamp Voltage (V)	Cap/ Base	Bulb Shape	Beam Angle (degrees)	Finish	Luminous Intensity (cd)	Avg Lifetime (hrs)	Operating position	Packaging Type	Order Code
Reflector R50	25W	230V	E14	NR50	30D	Frosted	210	1000	any	ICT	8711500
Reflector R50	40W	125-130V	E14	NR50	30D	Frosted	400	1000	any	ICT	14985578
Reflector R50	40W	230V	E14	NR50	30D	Frosted	400	1000	any	ICT	05415978
Reflector R50	40W	240V	E14	NR50	30D	Frosted	400	1000	any	ICT	37986378

Reflector R63

Incandescent Reflector



Reflector R63



Narrow light beams

Applications

- Display lighting in shops, hotels, restaurants and homes

Why choose?

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

Technical Features

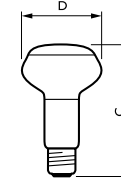
- Optic gives double reflection of part of the light emitted by the filament
- Beam spread and luminous intensity make these lamps especially suitable wherever space is limited and in small luminaires
- Direct replacement for conventional reflector lamps of all kinds

Product Description

- Reflector lamps based on advanced spotlighting technology

Reflector R63

Incandescent Reflector



Reflector R63

Dimensions in mm	C	D
	max.	max.
NR63	103	63

Preferred selection

Product ID	Lamp Wattage (W)	Lamp Voltage (V)	Cap/ Base	Bulb Shape	Beam Angle (degrees)	Finish	Luminous Intensity (cd)	Avg Lifetime (hrs)	Operating Position	Packaging Type	Order Code
Reflector R63	25W	230V	E27	NR63	30D	Frosted	230	1000	any	ICT	8711500 04356678
Reflector R63	40W	230V	E27	NR63	30D	Frosted	420	1000	any	ICT	04360378
Reflector R63	40W	240V	E27	NR63	30D	Frosted	420	1000	any	ICT	04361078
Reflector R63	60W	125-130V	E27	NR63	30D	Frosted	750	1000	any	ICT	04365878
Reflector R63	60W	230V	E27	NR63	30D	Frosted	750	1000	any	ICT	04366578
Reflector R63	60W	240V	E27	NR63	30D	Frosted	750	1000	any	ICT	37988778

Reflector R80/E80

Incandescent Reflector



Reflector E80



Lighting effects

Applications

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

Why choose?

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

Technical Features

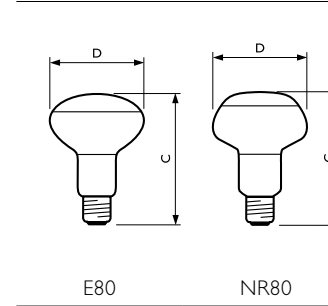
- Blown glass bulb with frosted front
- Wide choice of diameters and wattages
- Lamp is designed to achieve brilliant indoor lighting effects

Product Description

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

Reflector R80/E80

Incandescent Reflector



Dimensions in mm	C	D
	max.	max.
E80	113	80
NR80	115	80

Preferred selection

Product ID	Lamp Wattage (W)	Lamp Voltage (V)	Cap/ Base	Bulb Shape	Beam Angle (degrees)	Finish	Luminous Intensity (cd)	Avg Lifetime (hrs)	Operating Position	Packaging Type	Order Code
Reflector E80											
Reflector E80	40W	230V	E27	E80	50D	Frosted	370	1000	any	ICT	02860078
Reflector E80	60W	125-130V	E27	E80	80D	Frosted	270	1000	any	ICT	04654378
Reflector E80	60W	230V	E27	E80	50D	Frosted	580	1000	any	ICT	02861778
Reflector E80	60W	230V	E27	E80	80D	Frosted	270	1000	any	ICT	01245678
Reflector E80	60W	240V	E27	E80	80D	Frosted	270	1000	any	ICT	37990078
Reflector E80	75W	230V	E27	E80	50D	Frosted	770	1000	any	ICT	02863140
Reflector E80	75W	230V	E27	E80	80D	Frosted	360	1000	any	ICT	01247078
Reflector E80	75W	240V	E27	E80	80D	Frosted	360	1000	any	ICT	37991778
Reflector E80	75W	240V	E27	E80	80D	Frosted	360	1000	any	ICT	05378740
Reflector E80	100W	125-130V	E27	E80	80D	Frosted	530	1000	any	ICT	04659878
Reflector E80	100W	125-130V	E27	E80	80D	Frosted	530	1000	any	ICT	04659840
Reflector E80	100W	230V	E27	E80	50D	Frosted	1050	1000	any	ICT	02865578
Reflector E80	100W	230V	E27	E80	80D	Frosted	530	1000	any	ICT	01250078
Reflector E80	100W	240V	E27	E80	80D	Frosted	530	1000	any	ICT	37992478

Reflector R80

Reflector R80	60W	230V	E27	NR80	25D	Frosted	1000	1000	any	ICT	06581078
Reflector R80	60W	240V	E27	NR80	25D	Frosted	1000	1000	any	ICT	37983278
Reflector R80	75W	230V	E27	NR80	25D	Frosted	1600	1000	any	ICT	06401178
Reflector R80	75W	240V	E27	NR80	25D	Frosted	1600	1000	any	ICT	37984978
Reflector R80	100W	230V	E27	NR80	25D	Frosted	2000	1000	any	ICT	06404278
Reflector R80	100W	240V	E27	NR80	25D	Frosted	2000	1000	any	ICT	37985678

Reflector Colours

Incandescent Reflector



NR80 Green



Concentrated coloured beams

Applications

- Homes children's bedrooms and in-house bars
- Social areas, bars, night clubs, dance halls, theatres
- Show windows

Why choose?

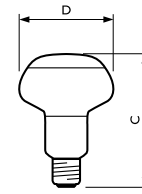
- 25% more light in the centre of the beam (NR50 and NR63 versions) than standard coloured reflector lamps
- NR50 and NR63 versions are small lamps producing low illuminance levels for subdued lighting

Technical Features

- More concentrated beam with less stray light, providing a high degree of visual comfort
- Significantly improved beam light distribution, with no black spots
- Modern appearance with distinctive flatter-top shape and recessed neck
- Produced with cadmium-free lacquer

Reflector Colours

Incandescent Reflector



NR80 Colours

Dimensions in mm	C	D
	max.	max.
NR80 Colours	114	80

Preferred selection

Product ID	Lamp Wattage (W)	Lamp Voltage (V)	Cap/ Base	Bulb Shape	Beam Angle (degrees)	Finish	Luminous Intensity (cd)	Avg Lifetime (hrs)	Operating Position	Packaging Type	Order Code
Reflector Colours	60W	230V	E27	NR80	30D	Clear-Green	270	1000	any	ICT	8711500
Reflector Colours	60W	230V	E27	NR80	30D	Clear-Red	100	1000	any	ICT	06654115
Reflector Colours	60W	230V	E27	NR80	30D	Clear-Yellow	450	1000	any	ICT	06655815
Reflector Colours	60W	230V	E27	NR80	30D	Clear-Blue	180	1000	any	ICT	06652715

Softone T55

Comfort



E27 Softone



Visual comfort

Applications

- Home use in living and dining rooms, halls and studies
- Offices
- Hotel lounges, restaurants, bedrooms, halls, conference rooms and foyers
- Clubs, social areas and public accommodation
- Shops and boutiques
- Other similar areas

Why choose?

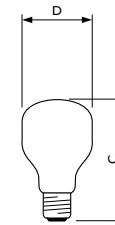
- Enhances colours in the home and adds a new dimension to interior decoration.
- Creates a pleasant, relaxed atmosphere with a high degree of visual comfort.

Technical Features

- T-shaped gas-filled lamps with a modern appearance.
- Gives a delicate, glare-free light in a subtle white or pastel colour

Softone T55

Comfort



Softone T55

Dimensions in mm	C	D
	max.	nom.
Softone 75W E27 230V T55 WH I CT	95	55

Preferred selection

product ID	Lamp Voltage (V)	bulb Shape	Cap/base	Luminous Flux (lm)	Average Lifetime (hrs)	Packaging Type	Order Code
Softone 40W White	230V	T55	B22	370	1000 hrs	ICT	366375 84
Softone 60W Citron	230V	T55	B22	650	1000 hrs	ICT	366771 85
Softone 60W White	230V	T55	B22	630	1000 hrs	ICT	366405 84
Softone 75W White	230V	T55	B22	840	1000 hrs	ICT	366443 84
Softone 100W White	230V	T55	B22	1200	1000 hrs	ICT	366467 84
Softone 25W White	230V	T55	E27	165	1000 hrs	ICT	366504 86
Softone 40W Apricot	230V	T55	E27	345	1000 hrs	ICT	366535 85
Softone 40W Terracotta	230V	T55	E27	330	1000 hrs	ICT	366818 86
Softone 40W White	230V	T55	E27	370	1000 hrs	ICT	366306 84
Softone 60W Apricot	230V	T55	E27	620	1000 hrs	ICT	366603 84
Softone 60W Azur	230V	T55	E27	550	1000 hrs	ICT	366641 85
Softone 60W Citron	230V	T55	E27	650	1000 hrs	ICT	366634 84
Softone 60W Terracotta	230V	T55	E27	530	1000 hrs	ICT	366849 84
Softone 60W White	230V	T55	E27	630	1000 hrs	ICT	366221 84
Softone 75W White	230V	T55	E27	840	1000 hrs	ICT	366344 86
Softone 100W White	230V	T55	E27	1200	1000 hrs	ICT	366252 84

Compact High Intensity Discharge Lamps



MASTER Colour CDM-T

Quality



CDM-T 70W G12



High quality light

Applications

- For use in shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting and pedestrian areas

Why choose?

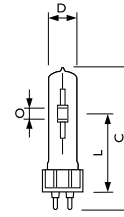
- High lamp efficacy for low operating costs and low heat output
- Very high quality of light
- Stable light colour over lifetime
- Long lifetime: 12000 hrs

Technical Features

- Range of single-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light
- Warm or cool white colour impression
- Colour rendering good to excellent
- Allows small-size luminaires designs that give high beam intensities

MASTER Colour CDM-T

Quality



CDM-T

Dimensions in mm	C	D	L	O
	max.	max.	nom.	nom.
CDM-T 35W/830	103	20	56	5
CDM-T 70W/830	103	20	56	7
CDM-T 70W/942	103	20	56	6
CDM-T 150W/830	110	20	56	9
CDM-T 150W/942	110	20	56	8

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Luminous Flux Lamp EM (lm)	Colour Temperature (K)	Operating Position	Colour Rendering Index (Ra)	Order Code
MASTER Colour CDM-T 35W/830 G12	G12	12	3300	3000	ANY	81	19697215
MASTER Colour CDM-T 70W/830 G12	G12	12	6600	3000	ANY	81	19699615
MASTER Colour CDM-T 70W/942 G12	G12	12	6600	4200	ANY	92	19927015
MASTER Colour CDM-T 150W/830 G12	G12	12	14000	3000	ANY	85	19780115
MASTER Colour CDM-T 150W/942 G12	G12	12	12700	4200	ANY	96	20005115

Product ID	Lamp Voltage (V)	Dimmable	Lamp Current EM (A)	Lamp Wattage EM (W)	Recommended ballast	Net weight per piece (g)	Ignition Supply min. (V)
MASTER Colour CDM-T 35W/830 G12	88	No	0.53	38	HID-PC035/...	27	198
MASTER Colour CDM-T 70W/830 G12	88	No	0.98	71	HID-PV070/...	29	198
MASTER Colour CDM-T 70W/942 G12	88	No	0.98	72	HID-PC070/...	29	198
MASTER Colour CDM-T 150W/830 G12	96	No	1.8	147	HID-PC150/...	33	198
MASTER Colour CDM-T 150W/942 G12	90	No	1.9	145	HID-PC150/...	33	198

Product ID	Ignition Time max. (sec.)	Colour Designation	Bulb Finish	Luminous Efficacy Lamp EM (lm/W)	Pinch Temp. max. (°C)
MASTER Colour CDM-T 35W/830 G12	30	Warm White	Clear	87	350
MASTER Colour CDM-T 70W/830 G12	30	Warm White	Clear	93	350
MASTER Colour CDM-T 70W/942 G12	30	Cool White	Clear	92	350
MASTER Colour CDM-T 150W/830 G12	30	Warm White	Clear	95	350
MASTER Colour CDM-T 150W/942 G12	30	Cool White	Clear	88	350

MASTER Colour CDM-TD

Colour stability



CDM-TD 70W



Colour stability

Applications

- For use in shops and shop windows, offices and public buildings
- Decorative outdoor: floodlighting of facades, statues and monuments

Why choose?

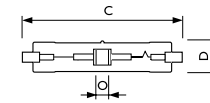
- Light colour that remains stable over lifetime
- Very high quality of light for a natural light effect
- Significant reduced costs of lighting ownership
- Long lifetime: 16000 hrs

Technical Features

- Range of double-ended, compact, high-efficiency, discharge lamps with a stable colour over lifetime and a crisp, sparkling light
- Warm or cool white colour impression
- Colour rendering good to excellent
- Retrofit in double-ended luminaires for quartz metal halide lamps (MHN/W-TD), thereby allowing to reduce operating costs and improve colour quality
- Burning position horizontal +/-45°

MASTER Colour CDM-TD

Colour stability



CDM-TD

Dimensions in mm	C	D	O
	max.	max.	nom.
CDM-TD 70W/830	119,63	22	8
CDM-TD 70W/942	119,63	22	6.85
CDM-TD 150W	137,43	25	10

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Luminous Flux Lamp EM (lm)	Colour Temperature (K)	Operating Position	Colour Rendering Index (R _a)	Order Code
MASTER Colour CDM-TD 70W/830	RX7s	12	6500	3000	P45	82	19782515
MASTER Colour CDM-TD 70W/942	RX7s	12	6000	4200	P45	92	20002015
MASTER Colour CDM-TD 150W/830	RX7s	12	13250	3000	P45	88	19784915
MASTER Colour CDM-TD 150W/942	RX7s	12	14200	4200	P45	96	20025915

Product ID	Lamp Voltage (V)	Dimmable	Lamp Current EM (A)	Lamp Wattage EM (W)	Recommended Ballast	Net Weight per piece (g)	Ignition Supply Voltage min. (V)
MASTER Colour CDM-TD 70W/830	92	No	0.97	71	HID-PV 070/...	21	198
MASTER Colour CDM-TD 70W/942	89	No	0.99	71	HID-PV 070/...	21	198
MASTER Colour CDM-TD 150W/830	96	No	1.8	145	HID-PV 150/...	30	198
MASTER Colour CDM-TD 150W/942	100	No	1.82	149	HID-PV 150/...	30	198

Product ID	Ignition Time max. (sec.)	Colour Designation Lamp EM (lm/W)	Bulb Finish	Luminous Efficacy	Pinch Temperature max. (°C)
MASTER Colour CDM-TD 70W/830	30	Warm White	Clear	78	280
MASTER Colour CDM-TD 70W/942	30	Cool White	Clear	72	280
MASTER Colour CDM-TD 150W/830	30	Warm White	Clear	78	300
MASTER Colour CDM-TD 150W/942	30	Cool White	Clear	84	300

MHN/W-TD

Low Wattage Metal Halide



MHN-TD RX7s



Good colour quality

Applications

- For use in 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

Why choose?

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

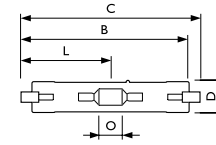
Technical Features

- Double-ended quartz Metal halide discharge lamp
- Available in 3 colours: warm white (3000K), neutral white (4200K) and cool white (5200K), with good colour quality
- No UV output due to UV-block quartz of outer bulb
- Burning position horizontal +/-45°

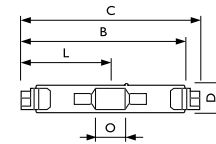
MHN/W-TD

Low Wattage Metal Halide

Dimensions in mm	A	C	D	L	O
	max.	max.	max.	nom.	nom.
MHN/W 70W	117.6	119.63	21	57.1	7
MHN/W 150W	135.4	137.43	24	66	18
MHN/W 250W	135.4	161.6	27.5	69.5	27



70+150W



250W

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Luminous Flux Lamp Electronic EM (lm)	Colour Temperature (K)	Operating Position	Order Code
MHW-TD 70W/730 RX7s ICT	RX7s	12	6200	3000	P45	20271015
MHW-TD 70W/842 RX7s ICT	RX7s	12	5700	4200	P45	73398615
MHW-TD 150W/730 RX7s ICT	RX7s	12	13800	3000	P45	20269715
MHN-TD 150W/842 RX7s ICT	RX7s	12	12900	4200	P45	73399315
MHN-TD 150W/852 RX7s ICT	RX7s	12	11000	5200	P45	20915315
MHN-TD 250W/842 FC2 ICT	FC2	12	20000	4200	P45	73400615

Product ID	Colour Rendering Index (Ra)	Lamp Voltage (V)	Bulb Temperature max. (°C)	Lamp Current Run-up max. (A)	Dimmable	Lamp Current EM (A)
MHW-TD 70W/730 RX7s ICT	75	90	500	1.35	No	1
MHW-TD 70W/842 RX7s ICT	80	90	500	1.35	No	1
MHW-TD 150W/730 RX7s ICT	80	96	650	2.4	No	1.8
MHN-TD 150W/842 RX7s ICT	85	98	650	2.4	No	1.8
MHN-TD 150W/852 RX7s ICT	85	98	650	2.4	No	1.8
MHN-TD 250W/842 FC2 ICT	85	100	650	4.5	No	3

Product ID	Lamp Wattage EM (W)	Recommended Ballast	Ignition Peak Voltage max. (V)	Colour Designation
MHW-TD 70W/730 RX7s ICT	75	HID-PV 070/...	5000	Warm White
MHW-TD 70W/842 RX7s ICT	75	HID-PV 070/...	5000	Neutral White
MHW-TD 150W/730 RX7s ICT	150	HID-PV 150/...	5000	Warm White
MHN-TD 150W/842 RX7s ICT	150	HID-PV 150/...	5000	Neutral White
MHN-TD 150W/852 RX7s ICT	150	BSN150L30	5000	Cool White
MHN-TD 250W/842 FC2 ICT	252	BSN250L33	3500	Neutral White

Product ID	Bulb Finish	Luminous Efficacy Lamp Electronic (lm/W)	Nett Weight Product (g)
MHW-TD 70W/730 RX7s ICT	Clear	83	22
MHW-TD 70W/842 RX7s ICT	Clear	76	22
MHW-TD 150W/730 RX7s ICT	Clear	92	30
MHN-TD 150W/842 RX7s ICT	Clear	86	30
MHN-TD 150W/852 RX7s ICT	Clear	73	30
MHN-TD 250W/842 FC2 ICT	Clear	80	61



High Intensity Discharge Lamps



MASTER HPI-T Plus

MH/HPI Metal Halide



HPI-T



Low maintenance costs

Applications

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

Why choose?

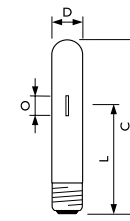
- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with “Plus”-concept

Technical Features

- Quartz metal halide lamps with clear outer bulb
- 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
- HPI-T Plus lamps require a protective front glass
- Can be run on HPI-gear as well as on SON-gear (“Plus”-concept). The results in both light output and colour temperature are different

MASTER HPI-T Plus

MH/HPI Metal Halide



HPI-T

Dimensions in mm	C	D	L	O
	max.	max.	nom.	nom.
HPI-T Plus 250W	257	47	158	29
HPI-T Plus 400W	286	47	172	40

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Colour Rendering Index (Ra)	Colour Temp. (K)	Luminous Flux Lamp EM (lm)	Operating Position	Order Code
MASTER HPI-T Plus 250W/645 E40	E40	12	65	4500	19000	P20	8711500 17989015
MASTER HPI-T Plus 400W/645 E40	E40	12	65	4500	30000	P20	17990615

Product ID	Mains Voltage (V)	Lamp Voltage (V)	Bulb Finish	Lamp Current EM (A)	Luminous Efficacy Lamp EM (lm/W)	Lamp Wattage EM (W)
MASTER HPI-T Plus 250W/645 E40	198	128	Clear	2.15	76	250
MASTER HPI-T Plus 400W/645 E40	198	128	Clear	2.15	76	250

Product ID	Recommended Ballast	Net weight per piece (g)	Ignition Supply Coordinate min. (V)	Colour Designation
MASTER HPI-T Plus 250W/645 E40	BHL250L307	178	198	Cool White
MASTER HPI-T Plus 400W/645 E40	BHL400L307	178	198	Cool White

MASTER HPI Plus (Daylight)

Comfort



HPI



Safety and comfort

Applications

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

Why choose?

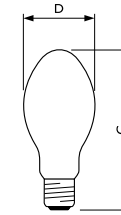
- High safety and comfort level, maintained over life
- Minimal maintenance cost
- Initial investment saving options with “Plus”-concept and “S” and “P”-types
- Adjustable atmosphere creation by using appropriate colour temperature

Technical 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
- HPI Plus BU-P and BUS-P suitable for use in open luminaires
- For other HPI Plus lamps a protective front glass is required

MASTER HPI Plus (Daylight)

Comfort



HPI

Dimensions in mm	C	D
	max.	max.
HPI BU/BU-P 250W	262	91
HPI BU/BU-P 400W	284	122
HPI BUS/BUS-P 400W	290	122

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Colour Rendering Index (R _a)	Colour Temp. (K)	Luminous Flux Lamp EM (lm)	Operating Position	Order Code
							8711500
MASTER HPI Plus 250W/743 BU E40	E40	12	69	4300	18000	H15	18114515
MASTER HPI Plus 250W/767 BU E40	E40	12	69	6700	18000	H15	20739515
MASTER HPI Plus 250W/743 BU-P E40	E40	12	69	4300	18000	H15	21147715
MASTER HPI Plus 400W/743 BU E40	E40	6	69	4300	32500	H15	18252410
MASTER HPI Plus 400W/767 BU E40	E40	6	69	6700	32500	H15	20737110
MASTER HPI Plus 400W/743 BU-P E40	E40	6	69	4300	32500	H15	21143910
MASTER HPI Plus 400W/743 BUS E40	E40	6	69	4300	32500	H15	18111410
MASTER HPI Plus 400W/743 BUS-P E40	E40	6	69	4300	32500	H15	21145310

Product ID	Mains Voltage (V)	Lamp Voltage (V)	Bulb Finish	Lamp Current (A)	Lamp EM (lm/W)	Lamp Wattage EM
MASTER HPI Plus 250W/743 BU E40	198	128	Coated	2.2	72	253
MASTER HPI Plus 250W/767 BU E40	198	125	Coated	2.2	72	253
MASTER HPI Plus 250W/743 BU-P E40	198	128	Coated	2.2	72	253
MASTER HPI Plus 400W/743 BU E40	198	125	Coated	3.4	82	395
MASTER HPI Plus 400W/767 BU E40	198	125	Coated	3.4	82	395
MASTER HPI Plus 400W/743 BU-P E40	198	125	Coated	3.4	82	395
MASTER HPI Plus 400W/743 BUS E40	198	125	Coated	3.4	82	395
MASTER HPI Plus 400W/743 BUS-P E40	198	125	Coated	3.4	82	395

Product ID	Recommended Ballast	Net weight per piece (g)	Ignition Supply Voltage min. (V)	Colour Designation
MASTER HPI Plus 250W/743 BU E40	BHL250 L302 ITS	182	198	Cool White
MASTER HPI Plus 250W/767 BU E40	BHL250 L302 ITS	192	198	Daylight
MASTER HPI Plus 250W/743 BU-P E40	BHL250 L302 ITS	190	198	Cool White
MASTER HPI Plus 400W/743 BU E40	BHL400 L302 ITS	250	198	Cool White
MASTER HPI Plus 400W/767 BU E40	BHL400 L302 ITS	250	198	Daylight



SON E27



Energy efficiency

Applications

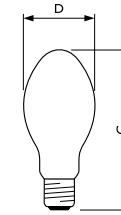
- For use in road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications

Why choose?

- Energy efficiency
- SON Pro is a cost-efficient and reliable solution in High Pressure Sodium, offering good value for money

Technical Features

- Ovoid, internally white coated outer bulb
- Robust construction is vibration- and shock-resistant leading to a reliable life
- Dimming possible with dedicated gear
- Require a ballast and ignitor, except for SON 70W I lamps which have an internal ignitor



SON E27

Dimensions in mm	C	D
	max.	max.
SON 70W	156	71
SON 150W/250W	227	91
SON 400W	290	122

Preferred selection

Product ID	Ignitor kind	Cap/ Base	Packing Configuration	Colour Rendering Index (Ra)	Colour Temperature (K)	Luminous Flux Lamp EM (lm)	Operating Position	Order Code
								8711500
SON 70W	E	E27	24	25	2000	5600	ANY	210 24130
SON 70W	I	E27	24	25	2000	5600	ANY	9284 806 00092
SON 150W	E	E40	12	25	2000	14500	ANY	210 28915
SON 250W	E	E40	12	25	2000	27000	ANY	210 38815
SON 400W	E	E40	12	25	2000	48000	ANY	210 32615

Product ID	Lamp Voltage (V)	Bulb Shape	Bulb Finish	Dimmable	Lamp Current EM (A)	Luminous Efficacy Lamp EM (lm/W)
SON 70W	90	B70	Coated	Yes	0.98	80
SON 70W	90	B70	Coated	Yes	0.98	80
SON 150W	100	BD90	Coated	Yes	1.8	99
SON 250W	100	BD90	Coated	Yes	3	108
SON 400W	105	BD120	Coated	Yes	4.45	120

Product ID	Lamp Wattage EM (W)	Recommended Ballast	Net weight per piece (g)	System Description	Luminance Average EM (cd/cm ²)	Ignition Supply Voltage min. (V)
SON 70W	70	BSN70L33 TS	52	External ignitor	6.6	198
SON 70W	70	BSN70L33 TS	57	Internal ignitor	6.6	198
SON 150W	147	BSN150L33 TS	180	External ignitor	-	198
SON 250W	250	BSN250L33 TS	175	External ignitor	19	198
SON 400W	400	BSN400L33 TS	240	External ignitor	24	198

SON-T

Cost effectiveness



SON-T E40



Cost efficient

Applications

- For use in road and residential lighting
- Decorative floodlighting
- Commercial and industrial applications
- Recreational sports facilities Outdoor and Indoor

Why choose?

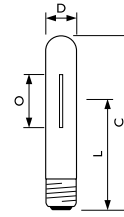
- Energy efficiency
- SON-T Pro is a cost-efficient and reliable solution in High Pressure Sodium, offering good value for money

Technical Features

- High Pressure Sodium lamp with clear outer bulb
- Clear tubular outer bulb
- Robust construction is vibration- and shock-resistant leading to a reliable life
- Dimming possible with dedicated gear

SON-T

Cost effectiveness



SON-T

Dimensions in mm	C	D	L	O
	max.	max.	nom.	nom.
SON-T 70W	156	37	102	42
SON-T 100W	210	46	132	44
SON-T 150W	211	47	132	61
SON-T 250W	257	47	158	70
SON-T 400W	283	47	175	87
SON-T 1000W	390	66	240	153

Preferred selection

Product ID	Ignitor Kind	Cap/ Base	Packing Configuration	Colour Rendering Index (Ra)	Colour Temperature (K)	Luminous Flux Lamp EM (lm)	Operating Position	Order Code
								8711500
SON-T 70W	E	E27	12	25	2000	6000	ANY	210 42515
SON-T 100W	E	E40	12	25	2000	9000	ANY	9284 815 00091
SON-T 150W	E	E40	12	25	2000	15000	ANY	210 46315
SON-T 250W	E	E40	12	25	2000	28000	ANY	210 52415
SON-T 400W	E	E40	12	25	2000	48000	ANY	210 56215
SON-T 1000W	E	E40	4	25	2000	130000	ANY	210 60945

Product ID	Lamp Voltage (V)	Bulb Shape	Bulb Finish	Dimmable	Lamp. Current EM (A)	Luminous Efficacy Lamp EM (lm/W)
SON-T 70W	90	T31	Clear	Yes	0.98	86
SON-T 100W	100	T46	Clear	-	1.2	90
SON-T 150W	100	T46	Clear	Yes	1.8	100
SON-T 250W	100	T46	Clear	Yes	3	112
SON-T 400W	100	T46	Clear	Yes	4.6	120
SON-T 1000W	105	T65	Clear	Yes	10.6	130

Product ID	Lamp Wattage EM (W)	Recommended Ballast	Net weight per piece (g)	System Description	Luminance Average EM (cd/cm ²)
SON-T 70W	70	BSN70L33 TS	45	External ignitor	270
SON-T 100W	100	-	134	External ignitor	-
SON-T 150W	150	BSN150L33 TS	136	External ignitor	300
SON-T 250W	250	BSN250L33 TS	170	External ignitor	400
SON-T 400W	392	BSN400L33 TS	175	External ignitor	550
SON-T 1000W	1000	BSN1000L78	404	External ignitor	650

SON H

SON High Pressure Sodium



SONH



Energy savings

Applications

- For use in road and residential lighting
- Industrial lighting both indoor and outdoor
- Recreational sports facilities Outdoor and Indoor

Why choose?

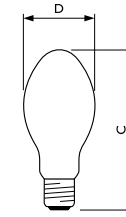
- Superior technology results in a long and reliable lifetime, high lumen maintenance and a reliable ignition over lifetime
- High energy efficacy and absence of lead (Pb) makes this a sound environmental offer
- High luminous efficacy makes this the most energy efficient HPS lamp
- Direct upgrade, without gear change

Technical 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
- Operates both on HPL gear

SON H

SON High Pressure Sodium



SON-H

Dimensions in mm	C	D
	max.	max.
SON-H 110W	169	71
SON-H 220W	227	91
SON-H 350W	290	122

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Colour Rendering Index	Colour Temperature (K)	Luminous Flux Lamp EM (lm)	Operating Position	Order Code
SON H 110W	E27	24	25	2000	10400	ANY	20186730
SON H 220W	E40	12	25	2000	20000	ANY	18207415
SON H 350W	E40	12	25	2000	34000	ANY	18213515

Product ID	Lamp Voltage (V)	Bulb shape	Bulb finish	Dimmable	Lamp Current EM (A)	Luminous Efficacy Lamp EM (lm/W)
SON H 110W	117	B70	Coated	No	1.22	92
SON H 220W	120	BD90	Coated	No	2.2	91
SON H 350W	117	BD120	Coated	No	3.6	97

Product ID	Lamp Wattage EM (W)	Recommended Ballast	Net weight per piece (g)	Luminance Average EM (cd/cm ²)
SON H 110W	113	BHL125L202	60	-
SON H 220W	220	BHL250L202	170	15
SON H 350W	350	BHL350L202	236	18

HPL-N

Standard



HPL E40



Soft white light

Applications

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

Why choose?

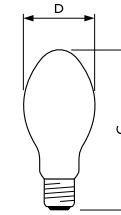
- Low initial costs (higher lifetime costs)

Product Features

- Standard High Pressure Mercury lamp
- Equipped with 1 electrode to ensure quick and reliable ignition
- Single-ended gas-filled glass bulb (HG-SG) with a quartz mercury vapour discharge tube
- Internally coated ovoid outer bulb, providing a cool, bluish white light with reasonable colour qualities

HPL-N

Standard



HPL-N

Dimensions in mm	C	D
	max.	max.
HPL-N 50W	129	55
HPL-N 80W	154	70
HPL-N 125W	172	75
HPL-N 250W	227	90
HPL-N 400W	289	121

Operational position



Universal

Preferred selection

Product ID	Cap/ Base	Packing Configuration	Colour Rendering Index (R _a)	Colour Temperature (K)	Luminous Flux Lamp EM (lm)	Operating Position	Order Code
HPL-N 50W/542	E27	24	49	4200	1800	ANY	9280 505 07396
HPL-N 80W/542	E27	24	48	4200	3700	ANY	9280 510 07396
HPL-N 125W/542	E27	24	46	4100	6200	ANY	9280 520 07396
HPL-N 250W/542	E40	12	45	4100	12700	ANY	9280 530 07496
HPL-N 400W/542	E40	6	45	3900	22000	ANY	9280 535 07496

Product ID	Lamp Voltage (V)	Bulb Finish	Lamp Current EM (A)	Luminous Efficacy Lamp EM (lm/W)	Lamp Wattage EM (W)	Soft Glass/ Hard Glass
HPL-N 50W/542	95	Coated	0.61	36	50	SG
HPL-N 80W/542	115	Coated	0.8	44.5	84	SG
HPL-N 125W/542	125	Coated	1.15	50	125	SG
HPL-N 250W/542	135	Coated	2.1	51	250	HG
HPL-N 400W/542	140	Coated	3.25	55	400	HG

Product ID	Recommended Ballast	Net weight per piece (g)	Colour Designation
HPL-N 50W/542	BHL50L202	45	Cool White
HPL-N 80W/542	BHL80L202	57	Cool White
HPL-N 125W/542	BHL125L202	63	Cool White
HPL-N 250W/542	BHL250L02	184	Cool White



ML E27



More efficient than incandescent

Applications

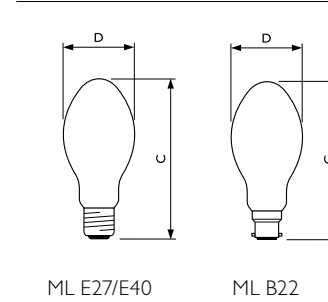
- Public outdoor lighting, car parks, workshops, garages and shops

Why choose?

- Direct retrofit for incandescent lamps
- Higher efficacy and lifetime than incandescent

Technical Features

- High-pressure mercury tube in series with a tungsten filament
- Runs on mains voltage without additional gear
- Combines a continuous spectrum from the incandescent source and a line spectrum from the high-pressure mercury source
- It is recommended to protect ML against water splashes
- ML lamps are not dimmable



ML E27/E40

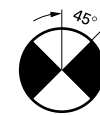
ML B22

Burning positions



ML 100 W ML
160 W

Burning positions



ML 250 W ML
500 W

Dimensions in mm	C max.	D max.
160W B22	165	75
100W E27	154	70
160W E27	172	75
250W E27	216	90
250W E40	226	90
500W E40	289	120

Operational position



Universal

Preferred selection

Product ID	Lamp Base	Packaging Configuration	Soft Glass/ Hard glass	Colour Rendering Index (R _a)	Colour Temperature (K)	Luminous flux lamp EM (lm)	Order Code
ML100W	E27	24	SG	72	3300	1100	9280 900 57296
ML160W	B22	24	SG	65	3600	3150	9286 010 11401
ML160W	E27	24	SG	65	3600	3150	9286 010 08988
ML250W	E27	12	SG	65	3400	5400	9280 960 56898
ML250W	E40	12	HG	65	3400	5400	9280 962 57296
ML250W	E40	12	SG	65	3400	5400	9286 010 09288
ML500W	E40	6	HG	48	3700	13000	9280 970 57796

Product ID	Voltage	Bulb Finish	Lamp Current EM (A)	Luminous Efficacy lamp EM (Lm/W)	Net weight per piece (g)	Ignition Supply Voltage min. (V)
ML100W	220-230V	coated	0.46	10.5	52	180
ML160W	220-230V	coated	0.76	19	64	180
ML160W	220-230V	coated	0.76	19	61	180
ML250W	225-235V	coated	1.2	21	184	180
ML250W	220-230V	coated	1.2	21	184	180
ML250W	220-230V	coated	1.2	21	184	180
ML500W	220-230V	coated	2.3	26	230	180
ML500W	225-235V	coated	2.3	26	230	180

Starters



Lamp Control Gear

Starters for fluorescent lamps



S10-E



Definition

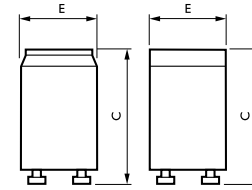
- Range of premium quality glow switch and electronic starters, used to ignite fluorescent lamps on electromagnetic control gear

Applications

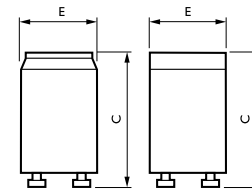
- Starters are used in conventional electromagnetic fluorescent lamp systems using TLD (T8), TL (T12), TL mini, PLS and PLL lamps
- When replacing the fluorescent lamps it is recommended to also replace the starter
- For 220/240V~, 18W Single-application, Philips recommend S2 for optimal performance
- For 220/240V~, 13W Single-application, the S10 starter needs to be used
- S2 starters for ignition of low-voltage fluorescent TL lamps and serie/single application in high voltage for lower wattages (4-22W)

Lamp Control Gear

Starters for fluorescent lamps



Starters S2/S10



Starters S2-E/S10

Dimensions in mm	C	E
1. Starters S2/S10	max.	max.
2. Starters S2-E/S10-E/S10	40	22

Why choose?

Starters S2/S10

- More than 25% longer lamp life; lower maintenance costs compared with lower-quality, non-IEC-complaint starters (>10000 switches)
- Eco-friendly, recyclable concept (free of lead and radioactivity)
- Flame-retardant components and UV-resistant canister for additional safety and secure ignition
- Easy recognition & installation and replacement friendly

Starters S2-E/S10-E

- Lower cost of lighting ownership: -Electronic starters turn off lamps at end of life, which avoids irritation (no flickering), useless electricity consumption and fire risk / - Lamps last much longer thanks to a totally smooth, flickerfree and fast starting / - Longer starter service life compared to conventional starters (100000 switches)
- Eco-friendly, recyclable concept (free of lead and radioactivity)
- Flame-retardant components and UV-resistant canister for additional safety and secure ignition
- Easy recognition & installation and replacement friendly

Starters SiS 10

- Lower cost of lighting ownership: -SiS10 starter turns off lamps at end of life, which avoids irritation (no flickering), useless electricity consumption and fire risk / - Four times longer service life compared to conventional starters
- System is immediately ready for use again by simply pressing the red button following an interruption
- Contribution to a green environment (no radioactivity)
- Flame-retardant components and UV-resistant canister for additional safety and secure ignition



Technical data

Product ID	Circuit	Mains voltage Range V	Wattage Range W	Lamp Range
S2	single	110-130	4-22	4, 6, 8, 14-16, 15, 18, 20, 22W
S2	single	220-240	4, 6, 8, 15, 18, 22	4, 6, 8, 14-16, 15, 18, 20, 22W
S2	series	220-240	4-22	4, 6, 8, 14-16, 15, 18, 20, 22W
S10	single	220-240	4-65	4, 6, 8, 13, 14-16, 15, 16, 18, 20, 22, 23, 30, 32, 36, 38, 40, 58, 60, 65W
S2-E	single	110-130	18-22	18, 20, 22W
S2-E	series	220-240	18-22	18, 20, 22W
S10-E	single	220-240	18-75	18, 20, 22, 30, 32, 36, 38, 40, 58, 65W
SiS 10	single	220-240	30-65	30, 32, 36, 38, 40, 58, 65W
S12	single	220-240	115-140	115, 140W
S16	single	240	70, 75, 85, 100, 125	70, 75, 85, 100, 125W

Ordering and packing data

Product ID	Box packing quantity	Dimensions in cm			Weight Gross	Order Code
		L	B	H		
S2 blue	12x25	23.0	23.0	13.5	2.298	928390610103
	1000	40.0	30.0	19.3	7.735	928390610123
S10 blue	12x25	23.0	23.0	13.5	2.298	928392110103
	1000	40.0	30.0	19.3	7.735	928392110123
S2-E	20x25	23.0	23.0	22.5	4.900	926000192603
S10-E	20x25	23.0	23.0	22.5	4.800	926000192703
SiS 10	20x10	22.5	13.0	17.5	2.100	928391000020
S12	20x25	23.0	23.0	22.5	3.975	928391630303
S16	1000	40.0	30.0	18.8	7.500	928890930355



3 LED



LivingColors

Ambience



LivingColors



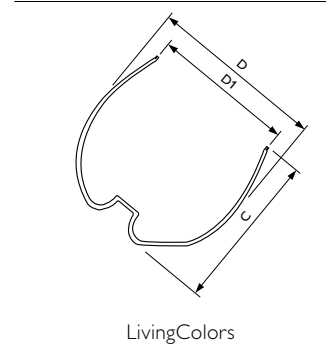
Colour your world with Light

Philips LivingColors LED lamp

- 16 Million colors and light effects to create any atmosphere you prefer
- Easy to use remote control
- LED technology, last longer, low energy consumption

LivingColors

Ambience



Dimensions in mm	C	D	D1
	190	190	155

LivingColors										
Product ID	Wattage	Cap/ Base	Voltage	Bulb type	Colour	Packing type/ configuration	Bulb material	Lifetime hours	Dimmable	Order Code
	(W)		(V)							
LivingColors	15	NA	100-240	Globe	All	1 CT/2	Plastic Crystal clear	20000	Yes	8711500 80044247

IMAGEO Glass CandleLights

White, Blue, Red



CandleLights blue



CandleLights white

CandleLights red

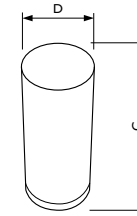
Create a unique ambiance around the home

- Decorative and enchanting, the IMAGEO CandleLights are great atmosphere makers
- They give off a warm glow with gentle flicker, but without the risk of open flames and hot wax
- The set includes three rechargeable LED candles in attractive white frosted glass holders. Unlike normal wax candles that eventually burn out, CandleLights provide up to 14 hours of light per charge, and are easily recharged using the wireless induction charger that doubles as a storage holder when the CandleLights are not in use
- Candle Lights are also waterproof and are not blown out by the wind, so they'll add ambiance to the garden or balcony as well

IMAGEO Glass CandleLights

White, Blue, Red

Dimensions in mm	C	D
	125	55



CandleLight

Applications

- Safe to use - LED technology
- Wireless induction charging
- Cool to the touch
- 10 charging hours, 20 operating hours (Blue CandleLights: 10 charging hours, 9 operating hours)
- Tilt to turn on and off
- Waterproof - for indoor and outdoor use



Packaging includes:

3 candleLights



Charger base

Power adapter



UK plug

Car plug

(only for TravelCandle) (only for TravelCandle)

Glass CandleLights

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
White CandleLights	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	1330	5	590 x 235 x 235	8 711500 799005 36
Blue CandleLights	2 per CandleLight	10 hrs	9 hrs	215 x 112 x 203	1330	5	590 x 235 x 235	8 727900 270099 36
Red CandleLights	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	1330	5	590 x 235 x 235	8 727900 270082 36
TravelCandle	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	1444	5	590 x 235 x 235	8 727900 270136 36

IMAGEO Coloured CandleLights

Pink, Blue, Orange, Red, Green, Yellow



Coloured Lights Pink



Coloured Lights Blue



Coloured Lights Orange



Coloured Lights Red



Coloured Lights Green



Coloured Lights Yellow

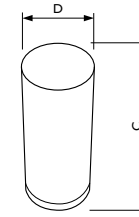
Add a touch of colour to fun evenings

- Similar to the glass CandleLights but in unbreakable plastic holders, the IMAGEO Coloured CandleLights add a modern dimension to home ambiance
- There's no chance of broken glass, so they are safer for children and the elderly too
- Coloured CandleLights are available in six attractive colours
- Three popular colours are executed in a special packaging: the pink 'Princess' version is especially for girls, the blue 'Adventure' version is especially for boys and the orange 'Safety' version is for the elderly
- Coloured CandleLights provide up to 14 hours of light per charge, and are supplied with the wireless induction charger
- Coloured CandleLights are perfect for parties, barbecues and cozy dinners indoors, on the terrace or balcony

IMAGEO Coloured CandleLights

Pink, Blue, Orange, Red, Green, Yellow

Dimensions in mm	C	D
	125	55



CandleLight

Applications

- Safe to use - LED technology
- Wireless induction charging
- Cool to the touch
- 10 charging hours, 20 operating hours
- Tilt to turn on and off
- Waterproof - for indoor and outdoor use
- Unbreakable



Packaging includes:

3 CandleLights



Charger base

Power adapter

Coloured CandleLights

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
Coloured Lights Pink	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	904	5	590 x 235 x 235	8 17747 36
Coloured Lights Blue	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	904	5	590 x 235 x 235	8 17648 36
Coloured Lights Orange	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	904	5	590 x 235 x 235	8 17723 36
Coloured Lights Red	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	904	5	590 x 235 x 235	8 17662 36
Coloured Lights Green	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	904	5	590 x 235 x 235	8 17686 36
Coloured Lights Yellow	2 per CandleLight	10 hrs	20 hrs	215 x 112 x 203	904	5	590 x 235 x 235	8 17709 36

IMAGEO TeaLights

Atmosphere



IMAGEO TeaLights



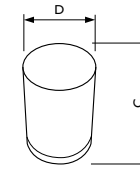
A safe way to instantly create atmosphere

- IMAGEO TeaLights is a set of six LED TeaLights with a delightful flickering effect that simulates the flame of a real tea candle
- They are supplied in six stylish frosted glass cups that can be placed everywhere, but since they are the same size as wax tea lights, they fit into existing holders
- They can be safely used anywhere in and around the house, and will provide an intimate glow for up to 14 hours
- Recharging is wireless, just stand the TeaLights in the wireless induction charger that is also a handy holder for storage

IMAGEO TeaLights

Atmosphere

Dimensions in mm	C	D
	70	51



IMAGEO TeaLight

Applications

- Safe to use - LED technology
- Wireless induction charging
- Cool to the touch
- 10 charging hours, 14 operating hours
- Tilt to turn on and off
- Waterproof - for indoor and outdoor use
- Also fits in standard-size tea light holders



Packaging includes:

6 TeaLights



Charger base

Power adapter

IMAGEO TeaLights

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
TeaLights	2 per TeaLight	10 hrs	14 hrs	215 x 188 x 155	1502	6	980 x 235 x 185	8 727900 270068 36

IMAGEO Colour changing wax candle

Ambiance



IMAGEO Wax Candle



The best of two worlds

- The IMAGEO Colour changing wax candle fuses the latest multi-colour LED technology into the traditional real wax candle
- It combines the captivating effect of a real flame with the possibility to change the colour of the candle to suit the mood or the decor
- With a choice of six colours it's easy to create the desired effect
- And by using several candles set to different colours, it's possible to create truly charming effects
- The LED is powered by a long-lasting 9V battery

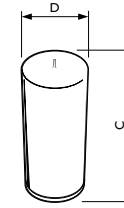
IMAGEO Colour changing wax candle

Ambiance

Dimensions in mm	C	D
	187	70

Applications

- Multi-colour LED technology
- Changing light effect - choice of six colours or automatic colour sequencing
- Wireless battery power - use 9V-battery for colour changing
- 20 hours of real candlelight, up to 7 hours of coloured light



IMAGEO Wax Candle



Packaging includes:



Colour changing wax candle



9V battery

Colour changing wax candle

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
Colour changing wax candle	1 per Candle	7	n/a	76 x 76 x 181	600	6	250 x 170 x 198	8 711 500 799043 10

IMAGEO TableLights

Sophisticated



IMAGEO TableLights

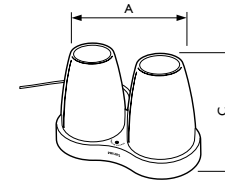


A romantic soft glow in elegant design

- The IMAGEO TableLights create romantic atmospheric lighting effects with an authentic looking flickering glow
- For use anywhere in the home, they have an exceptionally elegant design that complements the décor of both contemporary and traditional interiors
- The set contains two stylish lamps that are closed at the top to prevent dust entering, and are waterproof for use on the balcony or in the garden
- TableLights are easily charged with the wireless induction charger (supplied), and provide 10 hours of continuous mood lighting

IMAGEO TableLights

Sophisticated



IMAGEO TableLights

Dimensions in mm	C	D
	210	134

Applications

- Safe usage - LED technology
- Wireless induction charging
- Cool to touch
- 6 charging hours, 10 operating hours
- Tilt to turn on and off
- Waterproof - for indoor and outdoor use



Packaging includes: 2 TableLights



Charger + integrated adapter

IMAGEO TableLights

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
TableLights	3 per TableLight	6 hrs	10 hrs	225 x 167 x 180	842	5	880 x 260 x 217	8 711500 817464 36

IMAGEO LightStrip

Atmosphere



IMAGEO LightStrip White and LightStrip Colour



Highlight the beauty of your home

- The IMAGEO LightStrip White and LightStrip Colour can bring a discrete atmospheric glow to anywhere in the home
- The compact strips contain high output LED lamps to illuminate difficult to reach places or locations that benefit from functional background lighting - such as bookshelves, tops of cupboards, below the stairs and under the bed to name but a few
- LightStrips are also perfect for highlighting interior features such as floor borders
- LightStrip Colour even offers a choice of six colours or automatic rainbow sequencing
- The LightStrips are supplied with a mains power adaptor

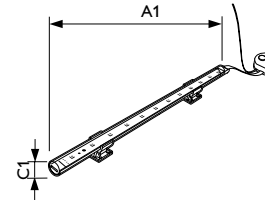
IMAGEO LightStrip

Atmosphere

Dimensions in mm	C	D
	424	15

Applications

- Safe to use - LED technology
- LightStrip White with 4 extra bright output LEDs
- LightStrip Colour with 12 LEDs
- LightStrip Colour for six-colour rainbow or fixed colour effect
- Powered via mains adaptor
- Easy to install with simple connectors
- Connect up to two LightStrips
- Rotatable light beam
- Slim and modern design



IMAGEO LightStrip



Packaging includes:

Packaging includes:



| LightStrip White | LightStrip Colour
+ mounting clips + mounting clips



Plug incl. Switch Plug incl. Switch
Screws and fixed double sided tape Screws and fixed double sided tape

LightStrip

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
LightStrip White	4 per LightStrip	n/a	n/a	104 x 45 x 478	304	6	310 x 518 x 144	8 711500 817488 10
LightStrip Colour	12 per LightStrip	n/a	n/a	104 x 45 x 478	304	6	310 x 518 x 144	8 711500 817501 10



SpotOn Blue



SpotOn White



SpotOn Purple



SpotOn Silver



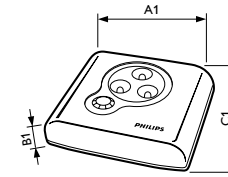
SpotOn Orange



SpotOn Gold

Instant light anywhere and everywhere

- The SpotOn is a compact and easy to use wireless lamp with high brightness LEDs
- Ideal for dark hallways, under beds or in cupboards, it is a convenient light source that doesn't need a mains connection or light point
- And thanks to the motion sensor, SpotOn turns itself on when needed without having to fumble in the dark for a switch
- It is battery powered and can be mounted on almost any surface
- A great gift idea and impulse buy, every home will have many places that need a SpotOn



SpotOn

Dimensions in mm	A1	B1	C1
	78	19	68

Applications

- LED technology
- Wireless battery power (3x AAA-batteries)
- Motion sensor switches on when someone is close
- Automatically switches off within 20 seconds
- Easy to install anywhere
- Choice of screws, magnetic or adhesive mounting



Packaging includes:

1 SpotOn



3x AAA batteries

Screws and fixed double sided tape

SpotOn

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
SpotOn Blue	3 per SpotOn	n/a	n/a	150 x 25 x 150	94	10	285 x 175 x 175	8 18218 25
SpotOn White	3 per SpotOn	n/a	n/a	150 x 25 x 150	94	10	285 x 175 x 175	8 17549 25
SpotOn Purple	3 per SpotOn	n/a	n/a	150 x 25 x 150	94	10	285 x 175 x 175	8 18225 25
SpotOn Silver	3 per SpotOn	n/a	n/a	150 x 25 x 150	94	10	285 x 175 x 175	8 18195 25
SpotOn Orange	3 per SpotOn	n/a	n/a	150 x 25 x 150	94	10	285 x 175 x 175	8 18201 25
SpotOn Gold	3 per SpotOn	n/a	n/a	150 x 25 x 150	94	10	285 x 175 x 175	8 18188 25

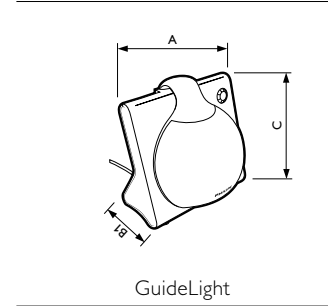


GuideLight



Guide your way without disturbing others

- The GuideLight is a portable LED lamp with a soft glow that's bright enough to guide people in the dark. It is ideal for use at night when you only need light for orientation
- Intense normal light takes time to get used to, hurts your eyes, and may even wake up others
- A motion sensor automatically turns it on when it's needed, and it switches itself off after a short while
- The shape is easy to hold and light to carry, making it great for traveling like camping holidays
- GuideLight is rechargeable, and automatically charges while stored on its charger base



GuideLight

Dimensions in mm	A	B1	C
	105	51	106

Applications

- LED technology
- Wireless induction charging on charger base
- Automatically charges on charger base
- Motion sensor that automatically lights up for instant orientation
- Safety light automatically turns on when there is no electricity
- Automatically switches off after preset time or when back on the charger
- Switch to deactivate motion sensor
- Easy to hold or hung up
- Lightweight and portable



Packaging includes:

1 GuideLight



Charger + integrated adapter

GuideLight

Product ID	Number of LED's	Charging hours	Operating hours	Product L x W x H (mm)	Product gross weight (g)	Mastercarton pcs per pack	Mastercarton L x W x H (mm)	Order Code
GuideLight	1 per GuideLight	n/a	n/a	165 x 115 x 185	420	5	573 x 185 x 215	8 711 500 817525 36



DecoLED

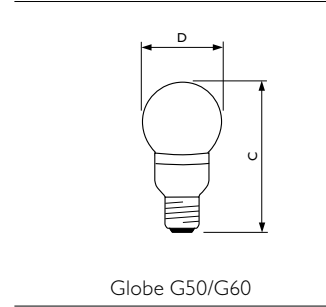


Decorate with colour

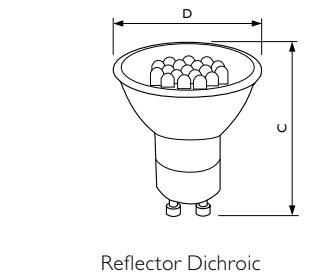
- When you choose Philips DecoLED as a decorative lighting solution, you get more than just a great choice of coloured lighting
- Suitable for indoor and outdoor use, Philips DecoLED lamps offer up to 80% energy savings, are reliable and safe
- The Philips DecoLED outdoor types are especially durable in outdoor environments due to their special, weatherproof, non-breakable bulb
- The lifetime of the lamps is extremely high in comparison to incandescent solutions, lasting up to 20000 hours
- This also makes them an environmentally friendly choice
- When you want colourful lighting you can rely on, choose Philips DecoLED



DecoLED



Globe G50/G60



Reflector Dichroic

Dimensions in mm	C	D
Globe G50	100	50
Globe G60	115	60
Reflector Dichroic	57	50

Applications

- The Philips DecoLED lamps are suitable for various decorative lighting applications, typically for:
- Events
- Fairs
- Parties
- Features

Colour changing type available

- Low maintenance
- Longlife (up to 20000 hours)
- Energy efficient (up to 80% energy savings)
- UV resistant polycarbonate bulb
- The Philips DecoLED outdoor replaces the low wattage (15-20W) incandescent party lamps

DecoLED outdoor

Product ID	Wattage (W)	Cap/ Base	Voltage (V)	Bulb type	Colour	Packing type/ configuration	Bulb material	Lifetime hours	Dimmable	Order Code
DecoLED	1	E27	230-240	G50	Cool white	1BL/10	Glass	6000	No	53635525
DecoLED	1	E27	230-240	G50	Warm white	1BL/10	Glass	6000	No	53636225
DecoLED	1	E27	230-240	G50	Blue	1BL/10	Glass	20000	No	53631725
DecoLED	1	E27	230-240	G50	Green	1BL/10	Glass	20000	No	53632425
DecoLED	1	E27	230-240	G50	Red	1BL/10	Glass	20000	No	53633125
DecoLED	1	E27	230-240	G50	Yellow	1BL/10	Glass	20000	No	53634825
DecoLED	1.5	E27	230-240	G60	Colour changing	1BL/10	Glass	20000	No	53637925
DecoLED	1	GU10	230-240	Dichroic	Cool white	1BL/10	Glass	6000	No	53608925
DecoLED	1	GU10	230-240	Dichroic	Warm white	1BL/10	Glass	6000	No	53609625
DecoLED	1	GU10	230-240	Dichroic	Blue	1BL/10	Glass	20000	No	53604125
DecoLED	1	GU10	230-240	Dichroic	Green	1BL/10	Glass	20000	No	53605825
DecoLED	1	GU10	230-240	Dichroic	Red	1BL/10	Glass	20000	No	53606525
DecoLED	1	GU10	230-240	Dichroic	Yellow	1BL/10	Glass	20000	No	53607225
DecoLED	1.5	GU10	230-240	Dichroic	Colour changing	1BL/10	Glass	20000	No	53610225

DecoLED indoor

Product ID	Wattage (W)	Cap/ Base	Voltage (V)	Bulb type	Colour	Packing type/ configuration	Bulb material	Lifetime hours	Dimmable	Order Code
DecoLED	1	E27	230-240	G50	Cool white	1CT/10	Plastic	20000	No	53510525
DecoLED	1	E27	230-240	G50	Warm white	1CT/10	Plastic	20000	No	53511225
DecoLED	1	E27	230-240	G50	Blue	1CT/10	Plastic	20000	No	53507525
DecoLED	1	E27	230-240	G50	Green	1CT/10	Plastic	20000	No	53506825
DecoLED	1	E27	230-240	G50	Red	1CT/10	Plastic	20000	No	53505125
DecoLED	1	E27	230-240	G50	Yellow	1CT/10	Plastic	20000	No	53508225
DecoLED	1.5	E27	230-240	G60	Colour changing	1CT/10	Plastic	20000	No	53509925
DecoLED	1	B22	230-240	G50	Cool white	1CT/10	Plastic	20000	No	53517425
DecoLED	1	B22	230-240	G50	Warm white	1CT/10	Plastic	20000	No	53518125
DecoLED	1	B22	230-240	G50	Blue	1CT/10	Plastic	20000	No	53514325
DecoLED	1	B22	230-240	G50	Green	1CT/10	Plastic	20000	No	53513625
DecoLED	1	B22	230-240	G50	Red	1CT/10	Plastic	20000	No	53512925
DecoLED	1	B22	230-240	G50	Yellow	1CT/10	Plastic	20000	No	53515025
DecoLED	1.5	B22	230-240	G60	Colour changing	1CT/10	Plastic	20000	No	53516725



4 Luminaires

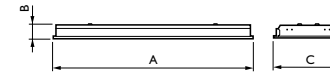




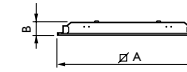
Light filter slots allow the blue infill panel to give a stimulating subtle tint

Crisp, stimulating light with a subtle tint

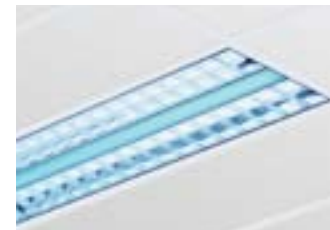
- TBS288 is a TL5 electronic office lighting system for both task and general lighting in office spaces and department stores
- It features a super slim, stylish design, easy maintenance and adds a hint of color to office ceilings to enhance the ambience



TBS288 2x28 W



TBS288 3.4x14 W



TBS288 recessed luminaire
2x28 W

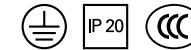


TBS288 recessed luminaire
3.4x14 W

Dimensions in mm	A	B	C
2x28W	1196	51	296
3x4x14W	596	51	596

TBS288

Type	TBS288
Ceiling grid	Module size: modules 600 x 600, 300 x 1200 Exposed tee ceilings
Light source	Fluorescent: 3 x or 4 x TL5 Essential / G5 / 14 W (square version) 2 x TL5 Essential / G5 / 28 W (rectangular version)
Lamp included	Yes (light color 840 or 865)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz (HF)
Optic	High-gloss optic, profiled louvers, blue infill panels (BL)
Connection	Screw connection
Material	Housing: post-painted steel, white Optic: filmed aluminum with anodized aluminum louvers Infill panels: PMMA (blue)
Installation	Individual; lay-in exposed ceiling grid
Main applications	Office



Preferred selection

Product ID	Weight (kg)	Order Code
TBS288 2xTL5-28W/840 HF G2 BL ID	3.4	9114 009 51380
TBS288 2xTL5-28W/865 HF G2 BL ID	3.4	9114 009 50680

Please contact your local Philips representative for additional configurations

Preferred selection

Product ID	Weight (kg)	Order Code
TBS288 3xTL5-14W/840 HF G2 BL ID	3.4	9114 009 51480
TBS288 3xTL5-14W/865 HF G2 BL ID	3.4	9114 009 50780
TBS288 4xTL5-14W/840 HF G2 BL ID	3.5	9114 009 51780
TBS288 4xTL5-14W/865 HF G2 BL ID	3.5	9114 009 51080

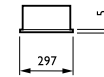
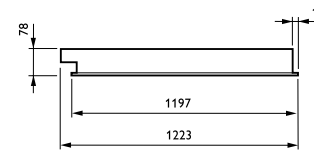
Please contact your local Philips representative for additional configurations



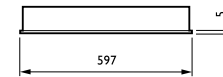
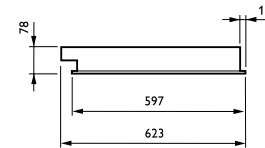
For excellence and economy

- TBSI47 is a modular recessed luminaire for TL-D fluorescent lamps in office and shop applications
- It features a wide range of performance optics and a low height of only 78 mm
- A larger spacing between the luminaires and still having an excellent lighting homogeneity is achieved by the well designed anodized aluminium optic
- If used with electronic gear, energy consumption is reduced by up to 25%

Dimensions in mm



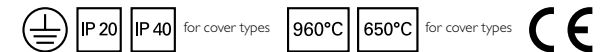
TBSI47 (2x36W)



TBSI47 (4x18W)

TBSI47

Type	TBSI47
Ceiling grid	Module size: modules 600 x 600, 300 x 1200 Exposed tee, concealed tee, and plasterboard ceilings
Light source	Fluorescent: 2 x MASTER TL-D / G13 / 36 W (rectangular version) 4 x MASTER TL-D / G13 / 18 W (square version)
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: - Electronic Ballast Primalume (EBP) - Electronic Ballast Transalume (EBT) Electro magnetic, 220 V, 230 V or 240 V / 50 Hz: - Inductive (I) - Parallel compensated (IC)
Optic	High-gloss optic, parabolic louvers (C5) High-gloss mirror, faceted (C3) Matt mirror, ribbed cross louvers (M2)
Optical cover	Prismatic cover (P) Opal cover (O)
Connection	Screw connection
Option	Available on request: - Emergency lighting, 3 hours - Gear: High Frequency Performer or Regulator - Connection: Wieland
Material	Housing: post-painted steel, white RAL9010 Optic: anodized aluminium Optical cover: PET
Installation	Individual; lay-in exposed ceiling grid or with ceiling brackets in concealed ceiling grids or plasterboard ceilings
Accessory	Bracket ZBSI47 SMB SET40 for concealed ceiling (40 pcs suitable to install 10 luminaires)
Main applications	Office, recreation, retail





TBSI47 recessed luminaire with TL-D fluorescent lamps and a high-gloss high-quality aluminum optic with parabolic lamellae (C5)

Preferred selection

Product ID	Order Code
TBSI47 4xTL-D18W IC 230V-50Hz C5	9131 010 933 xx
TBSI47 4xTL-D18W IC 240V-50Hz C5	9131 010 935 xx
TBSI47 4xTL-D18W EBP C5	9131 011 056 xx
TBSI47 2xTL-D36W IC 230V-50Hz C5	9131 010 938 xx
TBSI47 2xTL-D36W EBP C5	9131 011 059 xx

Please contact your local Philips representative for additional configurations



TBSI47 recessed luminaire with TL-D fluorescent lamps and a matt high-quality aluminum optic with profiled lamellae (M2)

Preferred selection

Product ID	Order Code
TBSI47 4xTL-D18W IC 230V-50Hz M2	9131 010 911 xx
TBSI47 4xTL-D18W IC 240V-50Hz M2	9131 010 913 xx
TBSI47 4xTL-D18W EBP M2	9131 010 993 xx
TBSI47 2xTL-D36W IC 230V-50Hz M2	9131 010 916 xx
TBSI47 2xTL-D36W EBP M2	9131 010 996 xx
TBSI47 4xTL-D18W IC 230V-50Hz C3	9131 010 922 xx
TBSI47 4xTL-D18W EBP C3	9131 010 999 xx
TBSI47 2xTL-D36W IC 230V-50Hz C3	9131 010 927 xx
TBSI47 2xTL-D36W IC 240V-50Hz C3	9131 010 929 xx
TBSI47 2xTL-D36W EBP C3	9131 011 053 xx

Please contact your local Philips representative for additional configurations

Preferred selection

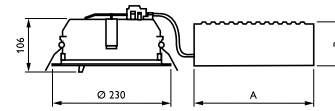
Product ID	Order Code
TBSI47 4xTL-D18W IC 230V-50Hz P	9131 010 944 xx
TBSI47 4xTL-D18W IC 240V-50Hz P	9131 010 946 xx
TBSI47 4xTL-D18W EBP P	9131 011 062 xx
TBSI47 2xTL-D36W IC 230V-50Hz P	9131 010 949 xx
TBSI47 2xTL-D36W IC 240V-50Hz P	9131 010 951 xx
TBSI47 2xTL-D36W EBP P	9131 011 065 xx
TBSI47 4xTL-D18W IC 230V-50Hz O	9131 010 955 xx
TBSI47 4xTL-D18W IC 240V-50Hz O	9131 010 957 xx
TBSI47 4xTL-D18W EBP O	9131 011 068 xx
TBSI47 2xTL-D36W IC 230V-50Hz O	9131 010 960 xx
TBSI47 2xTL-D36W IC 240V-50Hz O	9131 010 962 xx
TBSI47 2xTL-D36W EBP O	9131 011 071 xx

Please contact your local Philips representative for additional configurations

Accessories

Product ID	Description	Order Code
ZBSI47 SMB SET40	Mounting brackets	9131 010 965 xx



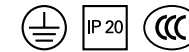


MBS075

Dimensions in mm	A	B
IC	234	84
EHS	200	58

Latina MBS075

Type	MBS075
Light source	HID: 1 x MASTERColour CDM-TD or MHN-TD / RX7s / 70, 150 W
Lamp included	No
Lamp position	Horizontal
Gear	Electro magnetic, 230 V / 50 Hz: Electronic High frequency Standard (EHS) Electronic, 220 - 240 V / 50 - 60 Hz: Parallel compensated (IC)
Color	White
Gear box	Separate pre-wired gear box in natural aluminum included
Material	Body and reflector: aluminum Outer ring: aluminum Decorative front glass included
Installation	Cut-out diameter: 215 mm Suitable for ceiling thickness: 2-24 mm Fixation by means of spring fasteners
Main applications	Retail



Simple and effective

- Latina MBS075 is a low-height, basic downlight for compact HID lamps for shops, offices, public buildings and hotels
- It offers a highly efficient gloss aluminum reflector as well as an aesthetic design and energy-saving features
- Additional benefits include easy maintenance and easy ceiling mounting



Easy to mount with spring-fasteners



Latina MBS075 downlight with compact metal halide lamp. Pre-wired metal gear tray and decorative front glass included

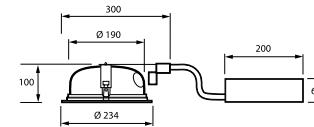
Preferred selection

Product ID	Order Code
MBS075 1xCDM-TD70W EHS WH	9114 011 41880
MBS075 1xCDM-TD70W IC WH	9114 011 42680
MBS075 1xCDM-TD150W IC WH	9114 011 42880

Please contact your local Philips representative for additional configurations



Dimensions in mm



FBH020

FBH020

Type	FBH020
Light source	Compact fluorescent: 2 x MASTER PL-C 2 Pin / G24d-2 / 18 W 2 x MASTER PL-C 2 Pin / G24d-3 / 26 W 2 x MASTER PL-C 4 Pin / G24q-2 / 18 W 2 x MASTER PL-C 4 Pin / G24q-3 / 26 W
Lamp included	Yes (lamp color 840)
Lamp position	Horizontal
Gear	Electro magnetic (low loss), 230 or 240 V / 50 Hz: Inductive (I) Inductive, parallel compensated (IC) Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF)
Material	Body and gear box: metal Reflector: high-gloss anodized metal
Installation	Fixation by means of spring fasteners Through-wiring possible
Maintenance	Direct lamp access or after removing the front glass
Accessory	Frosted glass cover; clear decorative glass cover
Main applications	Retail, recreational, public buildings



Simple and effective

- Latina is a recessed downlight for compact fluorescent PL-C lamps, with spring fasteners for easy and quick installation
- Square and round models are available
- Latina comes in ready-to-install kit versions with pre-mounted lamps and pre-connected separate gearbox
- Accessories include a frosted glass cover and clear decorative glass cover



Frosted glass 5 pieces per box



Recessed glass, structured 5 pieces per box



Latina FBH020 downlight with compact fluorescent lamps and high-gloss optic

Preferred selection

Product ID	Weight (kg)	Order Code
FBH020 2xPL-C/2P18W/840 K I 230V LIS	3.0	180007 99
FBH020 2xPL-C/2P18W/840 K IC 230V LIS	2.8	180021 99
FBH020 2xPL-C/2P26W/840 K I 230V LIS	3.0	180014 99
FBH020 2xPL-C/2P26W/840 K IC 230V LIS	2.8	180038 99
FBH020 2xPL-C/4P18W/840 K HF 230-240V LIS	1.9	275192 99
FBH020 2xPL-C/4P26W/840 K HF 230-240V LIS	1.9	275208 99

Please contact your local Philips representative for additional configurations

Product ID	Order Code
GBH020 FRG 5pcs	180083 99

Product ID	Order Code
GBH020 RG 5pcs	180090 99

Zadora adjustable

QBD570



Free to create



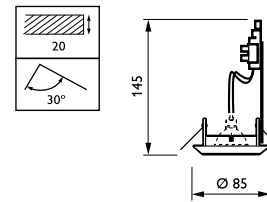
Zadora fixed recessed (QBS570)

- Zadora is a range of recessed downlights for MASTERLine 35 and 50 mm dichroic halogen lamps (with beams of 8°, 24°, 36° and 60°) and Twistline Alu lamps
- It is available in fixed and adjustable versions, the latter offering 30° orientation from the vertical
- Maintenance is made easy by direct lamp access

Zadora adjustable

QBD570

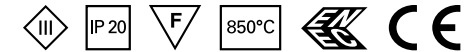
Dimensions in mm



QBD570

Zadora Adjustable

Type	QBD570
Light source	Halogen: - 1 x MASTERLine ES / GU5.3 / 45 W
Lamp beam angle	MASTERLine 25°, 40°
Lamp included	No
Lamp position	Vertical
Color	Grey (GR) White (WH) Black (BK) Anthracite (ANT) Aluminum (ALU) Matt finishing (MAT) Chrome (CR) Gold (GO)
Material	Die-cast aluminum and steel
Installation	Fixation by means of spring fasteners
Maintenance	Direct lamp access
Remarks	Bracket installed to ensure a safe distance between luminaire and ceiling
Main applications	Office, retail



Zadora QBD570 grey Zadora QBD570 white



Zadora QBD570 black Zadora QBD570 anthracite



Zadora QBD570 aluminum Zadora QBD570 matt satin



Zadora QBD570 chrome Zadora QBD570 gold

Preferred selection

Product ID	Weight (kg)	Order Code
QBD570 1xHAL-MR50-45W 12V BR GR LIS	0.17	180236 99
QBD570 1xHAL-MR50-45W 12V BR WH LIS	0.17	180250 99
QBD570 1xHAL-MR50-45W 12V BR BK LIS	0.17	180205 99
QBD570 1xHAL-MR50-45W 12V BR ANT LIS	0.17	180199 99
QBD570 1xHAL-MR50-45W 12V R ALU LIS	0.17	180182 99
QBD570 1xHAL-MR50-45W 12V BR MAT LIS	0.17	180243 99
QBD570 1xHAL-MR50-45W 12V BR CR LIS	0.17	180212 99
QBD570 1xHAL-MR50-45W 12V BR GO LIS	0.17	180229 99

Please contact your local Philips representative for additional configurations



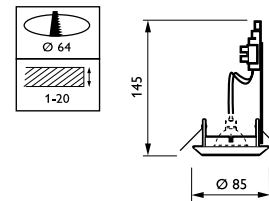
Free to create

- Zadora is a range of recessed downlights for MASTERLine 35 and 50 mm dichroic halogen lamps (with beams of 8°, 24°, 36° and 60°) and Twistline Alu lamps
- It is available in fixed and adjustable versions, the latter offering 30° orientation from the vertical
- Maintenance is made easy by direct lamp access



Zadora Adjustable recessed (QBD570)

Dimensions in mm



QBS570

Zadora Fixed

Type	QBS570
Light source	Halogen: - 1 x MASTERLine ES / GU5.3 / 45 W
Lamp beam angle	MASTERLine 25°, 40°
Lamp included	No
Lamp position	Vertical
Suspension / mounting	Bracket
Color	Grey (GR) White (WH) Black (BK) Anthracite (ANT) Aluminum (ALU) Matt finishing (MAT) Chrome (CR) Gold (GO)
Material	Die-cast aluminum and steel
Installation	Fixation by means of spring fasteners
Maintenance	Direct lamp access
Remarks	Bracket installed to ensure a safe distance between luminaire and ceiling
Main applications	Office, retail



Zadora QBS570
grey



Zadora QBS570
white



Zadora QBS570
black



Zadora QBS570
anthracite



Zadora QBS570
aluminum



Zadora QBS570
matt satin



Zadora QBS570
chrome



Zadora QBS570
gold

Preferred selection

Product ID	Weight (kg)	Order Code
QBS570 1x-HAL-MR50-45W 12V BR WH LIS	0.14	180335 99
QBS570 1x-HAL-MR50-45W 12V BR BK LIS	0.14	180281 99
QBS570 1x-HAL-MR50-45W 12V BR ANT LIS	0.14	180274 99
QBS570 1x-HAL-MR50-45W 12V BR ALU LIS	0.14	180267 99
QBS570 1x-HAL-MR50-45W 12V BR CR LIS	0.14	180298 99
QBS570 1x-HAL-MR50-45W 12V BR GO LIS	0.14	180304 99
QBS570 1x-HAL-MR50-45W 12V BR GR LIS	0.14	180311 99
QBS570 1x-HAL-MR50-45W 12V BR MAT LIS	0.14	180328 99

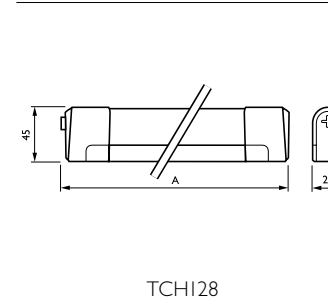
Please contact your local Philips representative for additional configurations



Individual batten
can be connected
to form lines of
light

Ultra-slim decorative batten

- Pentura Mini TCHI28 is an ultra-slim decorative batten for domestic applications. A cost-effective, ready-to-install mini fluorescent solution
- Pentura Mini TCHI28 offers the energy-saving benefits of miniature fluorescent lamp technology coupled with lightweight electronics and a patented internal reflector for improved lighting performance
- The batten is easy to install e.g. over worktops and workstations in the home, home office and recreational environments, etc.; it provides bright light where needed even where installation space is limited
- Pentura Mini TCHI28 battens are fitted with lamp, prismatic acrylic diffuser and all fixing accessories, reducing installation time to a minimum. The battens are through-wired with removeable end-caps at both ends covering the push-button connection blocks for simple connection and through-wiring



TCHI28

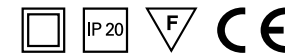


Pentura Mini TCHI28 batten

Dimensions in mm	A
14W	623
21W	923
28W	1223

Pentura Mini

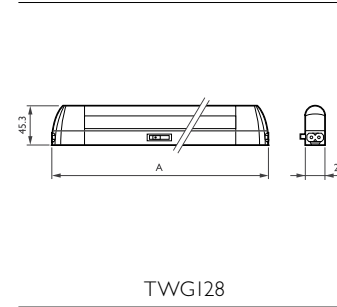
Type	TCHI28
Light source	Fluorescent: 1 x TL5-Essential 14, 21, 28 W
Lamp included	Yes (lamp color 840 or 865, 8 W version is 827)
Gear	Electronic, High Frequency (HF) - 220 - 240 V / 50 - 60 Hz - 110 - 140 V / 50 - 60 Hz
Material	Housing and end caps: polycarbonate, white Cover: acrylic, transparent
Installation	Individual or in-line; screw mounting
Remarks	All installation accessories included; ready to install
Main applications	Home, undershelf, task lighting



Preferred selection

Product ID	Weight (kg)	Order Code
220 - 240 V / 50 - 60 Hz versions		
TCHI28 1xTL5-14W/840 HF	0.36	153247 99
TCHI28 1xTL5-14W/865 HF	0.36	153254 99
TCHI28 1xTL5-21W/840 HF	0.43	153261 99
TCHI28 1xTL5-21W/865 HF	0.43	153278 99
TCHI28 1xTL5-28W/840 HF	0.50	153285 99
TCHI28 1xTL5-28W/865 HF	0.50	153292 99
110 - 140 V / 50 - 60 Hz versions		
TCHI28 1xTL5-14W/840 HF 110 - 140V	0.36	180502 99
TCHI28 1xTL5-14W/865 HF 110 - 140V	0.36	180519 99
TCHI28 1xTL5-28W/840 HF 110 - 140V	0.50	180526 99
TCHI28 1xTL5-28W/865 HF 110 - 140V	0.50	180533 99

Please contact your local Philips representative for additional configurations

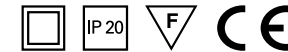


TWG128

Dimensions in mm	A
14W	605
21W	905
28W	1205

Pentura Mini CC

Type	TWG128
Light source	Fluorescent: 1 x TL5 Essential 14, 21, 28 W
Lamp included	Yes (lamp color 840, 8 W version is 827)
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: High Frequency (HF)
Material	Housing and end caps: polycarbonate, white Cover: polycarbonate, transparent
Installation	Individual or in-line; screw mounting
Remarks	All installation accessories included; ready to install
Main applications	Home, undershelf, task lighting



Brighten your workload

- Pentura Mini CC TWG128 is an ultra-slim decorative batten for domestic applications. This cost-effective, ready-to-install solution offers the energy-saving benefits of miniature fluorescent lamp technology coupled with lightweight electronics and a patented internal reflector for improved lighting performance
- Pentura Mini CC TWG128 is fitted with plug-and-socket connections and an on/off switch for individual operation over worktops and workstations in the home, home office and recreational environments



Interlinking cables

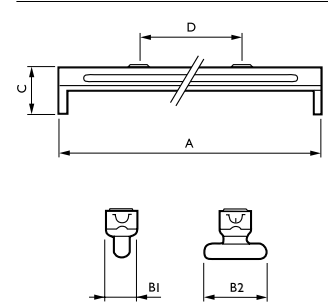


Pentura Mini CC TWG128 batten

Preferred selection

Product ID	Weight (kg)	Order Code
TWG128 1xTL5-14W/840 HF	0.48	180120 99
TWG128 1xTL5-21W/840 HF	0.55	180137 99
TWG128 1xTL5-28W/840 HF	0.62	180144 99

Please contact your local Philips representative for additional configurations



Dimensions in mm	A	B	C	D
TMS012 1 x 18 W	614	50	78.5	515
TMS012 1 x 36 W	1224	50	78.5	820
TMS012 1 x 58 W	1524	50	78.5	820
TMS012 2 x 18 W	614	103	85.5	515
TMS012 2 x 36 W	1224	103	85.5	820
TMS012 2 x 58 W	1524	103	85.5	820

TMS012

The iconic batten

- TMS012 is a high-quality basic batten for TL-D fluorescent lamps for general lighting in industrial areas, shops and homes
- It is available with a range of reflectors and, if used with electronic gear, it saves up to 25% on energy costs
- Industrial and high-gloss reflectors and prismatic diffusers are available on request



TMS012 with EBT electronic ballast: "The energy saving batten"



TMS012 batten with GMS012 R white reflector



TMS012 batten with GMS012 P prismatic diffuser

TMS012

Type	TMS012
Light source	Fluorescent: 1 x or 2 x MASTER TL-D / G13 / 18, 36, 5 also suitable for standard TL lamps (26 mm)
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: - Electronic Ballast Transalume (EBT) Electro magnetic, 230 V or 240 V / 50 Hz: Inductive (I) Parallel compensated (IC)
Connection	Screw connection
Option	Available on request: - Other mains voltages
Material	Lacquered steel, white (0.5 mm)
Installation	Individual; screw fixing Prepared for through-wiring
Accessory	Reflector white painted steel: - Symmetrical (GMS012 R), - Asymmetrical (GMS012 RA) Reflector high gloss: - Symmetrical (GMS012 RC) Prismatic diffuser (GMS012 P)
Main applications	Industry, retail, homes, coves





TMS012 batten with 1 or 2 fluorescent lamps equipped with electronic ballast (EBT) for energy saving up to 25%

Preferred selection

Product ID	Order Code
TMS012 1xTL-D18W EBT	available on request
TMS012 1xTL-D36W EBT	available on request
TMS012 2xTL-D18W EBT	available on request
TMS012 2xTL-D36W EBT	available on request

Please contact your local Philips representative for additional configurations

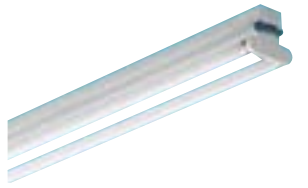


TMS012 batten with single fluorescent lamp

Preferred selection

Product ID	Order Code
TMS012 1xTL-D18W 230V	9199 182 11833
TMS012 1xTL-D18W IC 230V	9199 182 11853
TMS012 1xTL-D18W 240V	9199 182 11834
TMS012 1xTL-D18W IC 240V	9199 182 11854
TMS012 1xTL-D36W 230V	9199 182 13633
TMS012 1xTL-D36W IC 230V	9199 182 13653
TMS012 1xTL-D36W 240V	9199 182 13634
TMS012 1xTL-D38W IC 240V	9199 182 13654
TMS012 1xTL-D58W 230V	9199 182 15833
TMS012 1xTL-D58W IC 230V	9199 182 15853
TMS012 1xTL-D58W 240V	9199 182 15834
TMS012 1xTL-D58W IC 240V	9199 182 15854

Please contact your local Philips representative for additional configurations



TMS012 batten with 2 fluorescent lamps

Preferred selection

Product ID	Order Code
TMS012 2xTL-D18W 230V	9199 182 21833
TMS012 2xTL-D18W 240V	9199 182 21834
TMS012 2xTL-D18W IC 240V	9199 182 21854
TMS012 2xTL-D36W 230V	9199 182 23633
TMS012 2xTL-D36W 240V	9199 182 23634
TMS012 2xTL-D36W IC 240V	9199 182 23654
TMS012 2xTL-D58W 230V	9199 182 25833
TMS012 2xTL-D58W 240V	9199 182 25834

Please contact your local Philips representative for additional configurations



GMS012 P prismatic diffuser for TMS012 batten, single lamp version

Preferred selection

Product ID	Order Code
GMS012 2 18 P	9199 186 56030
GMS012 2 36 P	9199 186 56130



GMS012 P prismatic diffuser for TMS012 batten, twin lamp version

Preferred selection

Product ID	Order Code
GMS012 1 18 P	9199 186 56330
GMS012 1 36 P	9199 186 56430



GMS012 R white steel reflector or GMS012 RC high gloss symmetrical reflector for TMS012 batten

Preferred selection

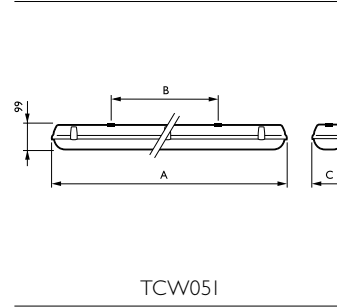
Product ID	Order Code
GMS012 1 18 R	9199 186 50030
GMS012 1 36 R	9199 186 50130
GMS012 1 58 R	9199 186 50230
GMS012 2 18 R	9199 186 50330
GMS012 2 36 R	9199 186 50430
GMS012 2 58 R	9199 186 50530
GMS012 1 18 R-ALU	9199 186 55030
GMS012 1 36 R-ALU	9199 186 55130
GMS012 2 18 R-ALU	9199 186 55330
GMS012 2 36 R-ALU	9199 186 55430



GMS012 RA white asymmetrical steel reflector for TMS012 batten

Preferred selection

Product ID	Order Code
GMS012 1 18 R-A	9199 186 50630
GMS012 1 36 R-A	9199 186 50730
GMS012 1 58 R-A	9199 186 50830



Dimensions in mm	A	B	C
TCW051 1x18W	665	400	84
TCW051 1x36W	1275	800	84
TCW051 2x18W	665	400	134
TCW051 2x36W	1275	800	134
TCW051 2x58W	1575	1100	134

TCW051	
Type	TCW051
Light source	Fluorescent: 1 x or 2 x MASTER TL-D / G13 / 18 W, 36 W, 58 W (2 lamps only)
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: Electronic Ballast Primalume (EBP) Electro-magnetic, 220 V, 230 V or 240 V / 50 Hz: Inductive (I) Parallel compensated (IC)
Connection	Screw connection
Option	Available on request: Emergency lighting, 3 hours Other gear types
Material	MASTER TL5 / G5 lamps Housing: Polycarbonate (1 x 36 W, 2 x 36 W, 2 x 58 W) Fibre-glass reinforced polyester (1 x 18 W, 2 x 18 W) Cover: Polycarbonate Fixation clips: stainless-steel (LOC-SS) or polyamide (LOC-PL)
Installation	Individual; screw to ceiling or clicking the luminaire into pre-screwed stainless-steel ceiling brackets (using ZCW051 MB)
Accessory	Clip-in ceiling bracket for single (MB-S) or twin (MB-T) lamp version
Main applications	Industry, under-canopy lighting

Robust and reliable

- TCW051 is a high-quality shock- and vandal-proof waterproof luminaire for TL-D fluorescent lamps featuring IP65 ingress protection
- Energy consumption can be reduced by 25% if electronic gear is used



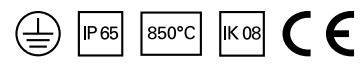
Easy-to-open hingeable polyamide clip



Vandal proof stainless steel clip



Stainless steel ceiling mounting brackets. Set of 20 pieces to mount 10 luminaires



TCW051 shock-, vandal- and waterproof luminaire for TL-D fluorescent lamps

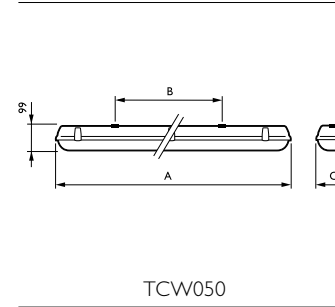
Preferred selection

Product ID	Order Code
TCW051 1xTL-D18W EBP LOC-PL	9131 010 276 xx
TCW051 1xTL-D36W EBP LOC-PL	9131 010 277 xx
TCW051 2xTL-D18W EBP LOC-PL	9131 010 278 xx
TCW051 2xTL-D36W EBP LOC-PL	9131 010 279 xx
TCW051 1xTL-D18W IC 230V-50Hz LOC-PL	9131 010 204 xx
TCW051 1xTL-D36W IC 230V-50Hz LOC-PL	9131 010 205 xx
TCW051 2xTL-D18W IC 230V-50Hz LOC-PL	9131 010 206 xx
TCW051 2xTL-D36W IC 230V-50Hz LOC-PL	9131 010 207 xx
TCW051 2xTL-D58W IC 230V-50Hz LOC-PL	9131 010 208 xx
TCW051 1xTL-D18W EBP LOC-SS	9131 010 280 xx
TCW051 1xTL-D36W EBP LOC-SS	9131 010 281 xx
TCW051 2xTL-D18W EBP LOC-SS	9131 010 282 xx
TCW051 2xTL-D36W EBP LOC-SS	9131 010 283 xx
TCW051 1xTL-D18W IC 230V-50Hz LOC-SS	9131 010 228 xx
TCW051 1xTL-D36W IC 230V-50Hz LOC-SS	9131 010 229 xx
TCW051 2xTL-D18W IC 230V-50Hz LOC-SS	9131 010 230 xx
TCW051 2xTL-D36W IC 230V-50Hz LOC-SS	9131 010 231 xx
TCW051 2xTL-D58W IC 230V-50Hz LOC-SS	9131 010 232 xx

Please contact your local Philips representative for additional configurations

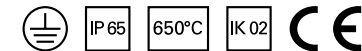
Accessories

Product ID	Order Code
ZCW051 MB-S SET20	9131 010 400 xx
ZCW051 MB-T SET20	9131 010 401 xx



Dimensions in mm	A	B	C
TCW050 1x36W	1275	800	84
TCW050 2x18W	665	400	134
TCW050 2x36W	1275	800	134

TCW050	
Type	TCW050
Light source	Fluorescent: 2 x MASTER TL-D / G13 / 18 W 1 x or 2x MASTER TL-D / G13 / 36 W
Lamp included	No
Gear	Electronic, 220 - 240 V / 50 - 60 Hz: - Electronic Ballast Transalume (EBT) Electro-magnetic, 220 V, 230 V or 240 V / 50 Hz: - Inductive (I) - Parallel compensated (IC)
Connection	Screw connection
Option	Available on request: - Other lamp wattages (1x18 W, 1x58 W, 2x58 W)
Material	Housing: Polystyrene (1x36 W, 2x36 W) Fibre-glass reinforced polyester (1x18 W, 2x18 W) Cover: Polystyrene Fixation clips: Polyamide
Installation	Individual; screw to ceiling or clicking the luminaire into pre-screwed stainless-steel ceiling brackets (using ZCW051 MB)
Accessory	Clip-in ceiling bracket for single (MB-S) or twin (MB-T) lamp version
Main applications	Industry, under-canopy lighting



Easy-to-open hingeable polyamide clips



Stainless steel ceiling mounting brackets. Set of 20 pieces to mount 10 luminaires

The eco-waterproof luminaire

- TCW050 is an economy waterproof luminaire for TL-D fluorescent lamps that features IP65 ingress protection and offers trouble-free operation
- It can be opened easily, allowing quick lamp maintenance and energy consumption can be reduced by 25% if electronic gear is used



TCW050 economy waterproof luminaire for TL-D fluorescent lamps

Preferred selection	
Product ID	Order Code
TCW050 2xTL-D18W EBT	9131 010 024 xx
TCW050 1xTL-D36W EBT	9131 010 025 xx
TCW050 2xTL-D36W EBT	9131 010 023 xx
TCW050 2xTL-D18W IC 230V-50Hz	9131 010 003 xx
TCW050 1xTL-D36W IC 230V-50Hz	9131 010 004 xx
TCW050 2xTL-D36W IC 230V-50Hz	9131 010 005 xx
TCW050 2xTL-D18W I 230V-50Hz	9131 010 006 xx
TCW050 1xTL-D36W I 230V-50Hz	9131 010 007 xx
TCW050 2xTL-D36W I 230V-50Hz	9131 010 008 xx

Please contact local Philips representative for additional configurations

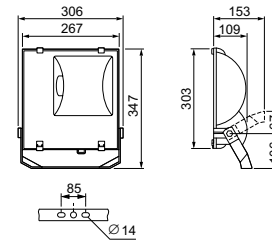
Accessories		
Product ID	Description	Order Code
ZCW051 MB-S SET20	Ceiling bracket for 1-lamp version	9131 010 400 xx
ZCW051 MB-T SET20	Ceiling bracket for 2-lamp version	9131 010 401 xx



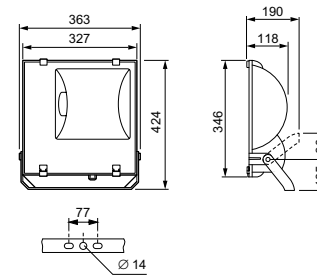
Compact and elegant

- Tempo is a range of versatile and affordable multipurpose floodlights, specially created to deliver the highest levels of lighting efficiency and reliability. They are both compact (integrated gear unit) and elegant (trendy grey metallic powder-coating (RAL 9007))
- Complete range for multiple applications
- The all-weather construction (IP65) ensures simple cleaning and speedy servicing. With a wide choice of lamp types and symmetric and asymmetric reflectors, it is ideally suited to a variety of outdoor applications, varying from façade to billboard and area lighting
- Impact-resistant die-cast aluminium housing and hinged toughened-glass cover with quick-release stainless steel clips. IP protection and temperature balance are assured thanks to the breather holes in the housing and gasket
- The Tempo range is suitable for both up- and down-lighting

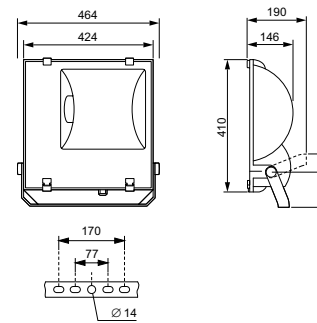
Dimensions in mm



RVP 151



RVP 251



RVP 351

RVP 151

Type	Reflector	Weight (kg)	Order code
RVP151 SON-T 70W 230V-50Hz K S LIS	Symmetric	4.5	18807200
RVP151 SON-T 70W 230V-50Hz K A LIS	Asymmetric	4.5	18808900
RVP151 MHN-TD 70W 230V-50Hz K S LIS	Symmetric	4.5	18811900
RVP151 MHN-TD 70W 230V-50Hz K A LIS	Asymmetric	4.5	18812600

RVP 251

Type	Reflector	Weight (kg)	Order code
RVP251 MHN-TD 150W K S LIS	Symmetric	6.0	911401063380
RVP251 MHN-TD 150W K A LIS	Asymmetric	6.0	911401063280
RVP251 SON-T 150W K S LIS	Symmetric	6.0	911401063780
RVP251 SON-T 150W K A LIS	Asymmetric	6.0	911401063680

RVP 351

Type	Reflector	Weight (kg)	Order code
RVP351 HPI-T 250W K S LIS	Symmetric	7.7	911401064180
RVP351 HPI-T 250W K A LIS	Asymmetric	7.7	911401064080
RVP351 HPI-T 400W K S LIS	Symmetric	8.8	911401064380
RVP351 HPI-T 400W K A LIS	Asymmetric	8.8	911401064280
RVP351 SON-T 250W K S LIS	Symmetric	8.6	911401064580
RVP351 SON-T 250W K A LIS	Asymmetric	8.6	911401064480
RVP351 SON-T 400W K S LIS	Symmetric	10.4	911401064780
RVP351 SON-T 400W K A LIS	Asymmetric	10.4	911401064680

All luminaires are delivered complete with lamps as a Kombi-pack (K). 230V/50Hz. Other voltages are available on request





5 Lamp Control Gear



HF-Regulator II TL-D

Flexible



HF-Regulator II

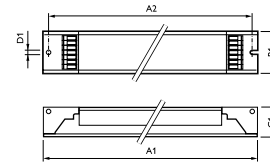


Slim, lightweight, electronic dimmable ballast for TL-D fluorescent lamps

- Lamps can be dimmed to 1% lamp power
- For 1-10V analogue control interface
- Warm start circuit preheating the lamp electrodes; this enables the lamps to be switched on and off without reducing useful life
- Up to 50% longer lamp life than with electro-magnetic ballasts
- In combination with Lighting Control devices (e.g. Luxsense) substantial reduction in energy-consumption compared to electro-magnetic ballasts
- The HF-Regulator range also offers versions for many other fluorescent lamps, and versions for the 'Touch&DALI' interface

HF-Regulator II TL-D

Flexible



HF-Regulator II

Dimensions in mm	A1	A2	B1	C1	D1
1 Lamp	360	350	30	21	4.2
2 Lamps	360	350	30	21	4.2
4 Lamps	360	350	30	21	4.2

Applications

- Office buildings, corridors, department stores, shops, supermarkets, hotels, hospitals, cinemas

Preferred selection

Product ID	Lamp Wattage (W)	Weight (kg)	Bulk Qty	Packaging Dimensions l x w x h (cm)	Weight Gross (kg)	Order Code
HF-R 118 TLD EII	1 x TLD18W	0.28	12	40.8 x 20.8 x 7.6	3.4	911902 30
HF-R 218 TLD EII	2 x TLD18W	0.30	12	40.8 x 20.8 x 7.6	3.9	911926 30
HF-R 418 TLD EII	4 x TLD18W	0.37	10	41.1 x 20.6 x 7.6		913661 30
HF-R 136 TLD EII	1 x TLD36W	0.27	12	40.8 x 20.8 x 7.6	3.4	910343 30
HF-R 236 TLD EII	2 x TLD36W	0.30	12	40.8 x 20.8 x 7.6	3.9	910158 30
HF-R 158 TLD EII	1 x TLD58W	0.27	12	40.8 x 20.8 x 7.6	3.4	910172 30
HF-R 258 TLD EII	2 x TLD58W	0.31	12	40.8 x 20.8 x 7.6	3.9	910196 30

Voltage/frequency: 220V-240V, 50/60Hz

HF-Select TL-D

Energy-saving



HF-Select

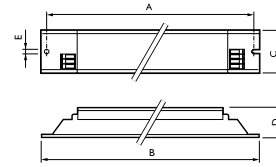


25% Energy savings

- Up to 25% reduction in energy consumption compared to electro-magnetic ballasts
- Warm start circuit preheating the lamp electrodes; this enables the lamps to be switched on and off without reducing useful life
- Up to 50% longer lamp life than with electro-magnetic ballasts
- HF-Select range offers a warm start electronic ballast for every common type of fluorescent lamp

HF-Select TL-D

Energy-saving



HF-Select

Dimensions in mm	A	B	C	D	E
HF-S 118 TLD*	265	280	30	28	4.2
HF-S 218 TLD*	265	280	30	28	4.2
HF-S 3/418 TLD	265	280	39	28	4.2
HF-S 136 TLD	265	280	30	28	4.2
HF-S 236 TLD	265	280	30	28	4.2
HF-S 158 TLD	265	280	30	28	4.2
HF-S 258 TLD	265	280	30	28	4.2

*available 4th quarter 2008

Applications

- Offices, Industry, schools, supermarkets, hospitals

Preferred selection

Product ID	Lamp Wattage (W)	Weight (kg)	Bulk Qty	Packaging Dimensions l x w x h (cm)	Volume (m ³)	Weight Gross (kg)	Order Code
HF-S 118 TLD	1 × TLD18W	0.2	12	32.8 × 20.6 × 8.1	0.006	2.7	915160 30
HF-S 218 TLD	2 × TLD18W	0.2	12	32.8 × 20.6 × 8.2	0.006	2.7	915191 30
HF-S 3/418 TLD	3/4 × TLD18W	0.26	10	32.8 × 22.1 × 7.7	0.006	3	915429 30
HF-S 136 TLD	1 × TLD36W	0.2	12	32.8 × 20.6 × 8.4	0.006	2.7	914149 30
HF-S 236 TLD	2 × TLD36W	0.2	12	32.8 × 20.6 × 8.5	0.006	2.7	914163 30
HF-S 158 TLD	1 × TLD58W	0.21	12	32.8 × 20.6 × 8.6	0.006	2.8	914187 30
HF-S 258 TLD	2 × TLD58W	0.25	12	32.8 × 20.6 × 8.7	0.006	3.2	914217 30

Voltage / frequency: 220V-240V, 50/60Hz

EB-Transalume TLD

Energy-saving



EB-T

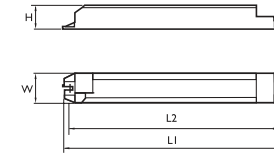


Electronic standard ballast for TL-D fluorescent lamps

- Up to 25% reduction in energy-consumption compared to electro-magnetic ballasts
- Warm/rapid start, up to 30% lamplife extension compared to electro-magnetic ballasts
- Lifetime 30000 hours, ideal energy-saving solution for commodity luminaires

EB-Transalume TLD

Energy-saving



EB-T

Dimensions in mm	L1	L2	W	H
EB-T 118 TLD 220-240	150	140	40	28
EB-T 218 TLD 220-240	210	200	40	30
EB-T 3/418 TLD 220-240	210	200	40	30
EB-T 136 TLD 220-240	150	140	40	28
EB-T 236 TLD 220-240	210	200	40	30

Preferred selection

Product ID	Lamp Wattage (W)	Weight (kg)	Bulk Qty	Packaging Dimensions (cm) l x w x h	Weight Gross (kg)	Order Code
EB-T 118 TLD 220-240	1 x TLD 18W	0.16	20	30.1 x 20.3 x 7.0	3.3	06393530
EB-T 218 TLD 220-240	2 x TLD 18W	0.24	20	41.0 x 21.2 x 6.8	4.9	06396630
EB-T 3/418 TLD 220-240	3/4 x TLD 18W	0.148	20	41.0 x 21.2 x 6.8	3.06	20928930
EB-T 136 TLD 220-240	1 x TLD 36W	0.16	20	30.1 x 20.3 x 7.0	3.3	06395930
EB-T 236 TLD 220-240	2 x TLD 36W	0.24	20	41.0 x 21.2 x 6.8	4.9	06399730

Voltage/frequency: 220-240V 50/60Hz

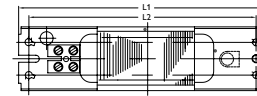


BTA



Electro-magnetic ballasts for TL-D fluorescent lamps

- Equipped with screwcontacts
- Reliable electrical and mechanical performance
- Optimum lamp performance under optimum temperature conditions



BTA

Dimensions in mm	L1	L2	W	H
BTA 18W	155	140	39	28
BTA 36W	155	140	39	28

Preferred selection

Product ID	For lamp	Volt / Freq	Weight	Bulk Qty	Packaging Dimensions l x w x h	Weight Gross	Order Code
			(kg)		(cm)	(kg)	87101630
BTA18W 220V C SC	1 x TLD18W	220V / 50Hz	0.46	32	35.7 x 18.2 x 13.6	15.22	6550230
BTA36W 220V C SC	1 x TLD36W or 2 x TLD18W	220V / 50Hz	0.465	32	35.7 x 18.2 x 13.6	15.22	6548930
BTA18W 220V/60Hz C SC	1 x TLD18W	220V / 60Hz	0.446	32	35.7 x 18.2 x 13.6	14.57	6510630
BTA36W 220V/60Hz C SC	1 x TLD36W or 2 x TLD18W	220V / 60Hz	0.442	32	35.7 x 18.2 x 13.6	14.57	6514430
BTA18W 230V C SC	1 x TLD18W	230V / 50Hz	0.5	32	35.7 x 18.2 x 13.6	16.33	3364830
BTA36W 230V C SC	1 x TLD36W or 2 x TLD18W	230V / 50Hz	0.51	32	35.7 x 18.2 x 13.6	16.33	3366230
BTA18W 240V C SC	1 x TLD18W	240V / 50Hz	0.5	32	35.7 x 18.2 x 13.6	20.94	3368630
BTA36W 240V C SC	1 x TLD36W or 2 x TLD18W	240V / 50Hz	0.51	32	35.7 x 18.2 x 13.6	20.94	3370930



BSN



Impregnated electro-magnetic ballasts for High Pressure Sodium lamps (SON)

- Orthocyclic winding process results in limited ballast coil volume and reduced weight, with minimum wattlosses
- Ballasts standard equipped with screw terminal blocks
- Can be used with both semi-parallel and series ignitor
- 250W and 400W versions can also operate HPI lamps

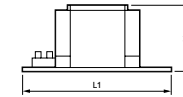
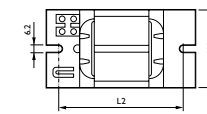


Fig. 1

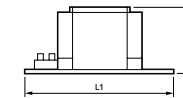
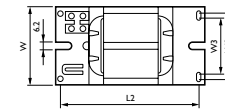


Fig. 2

Dimensions in mm	Fig.	L1	L2	W	H	W2	W3
BSN 100	1	122	107	61	52		
BSN 150	1	145	121	61	52		
BSN 150 L407	1	133	117	75.5	64		
BSN 250	1	159	144	75.5	64		
BSN 400	2	165	144	96	82	78.5	66

Applications

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

Preferred selection

Product ID	Lamp Wattage (W)	Voltage/Frequency (V/Hz)	Ignitor	Weight (kg)	Bulk Qty	Packaging Dimensions (cm) l x w x h	Volume (m³)	Weight gross (kg)	Order Code
BSN100L302I	SON100W	230V / 50Hz	SN58 / SND58	1.22	6	19.6 x 13.3 x 11.1	0.003	7.3	535184 30
BSN100L407ITS	SON100W	230V-240V / 50Hz	SN58 / SND58	1.22	6	19.6 x 13.3 x 11.1	0.003	7.3	747747 30
BSN150L302I	SON150W	230V 50Hz	SN58 / SND59	1.817	6	24.2 x 14.1 x 13.7	0.003	7.3	739063 30
BSN150L407I	SON150W	230V-240V / 50Hz	SN58 / SND58	1.817	6	24.2 x 14.1 x 13.7	0.005	10.9	738479 30
BSN150L407ITS	SON150W	230V-240V / 50Hz	SN58 / SND58	1.817	6	24.2 x 14.1 x 13.7	0.005	10.9	739087 30
BSN250L302I	SON250W / HPI250W	230V 50Hz	SN58 / SND58	2.9	6	24.2 x 14.1 x 13.7	0.005	10.9	739148 30
BSN250L407ITS	SON250W / HPI250W	230V-240V / 50Hz	SN58 / SND58	2.9	6	24.2 x 17.5 x 13.7	0.006	17.4	739162 30
BSN400L302I	SON400W / HPI400W	230V / 50Hz	SN58 / SND58	4.3	2	21 x 17.9 x 9	0.003	8.7	746221 30
BSN400L407ITS	SON400W / HPI400W	230V-240V / 50Hz	SN58 / SND58	4.3	2	21 x 17.9 x 9	0.003	8.7	538635 30

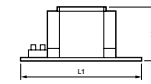
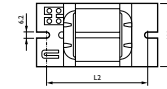


BHL



Impregnated electro-magnetic ballasts for High Pressure Mercury lamps (HPL)

- Orthocyclic winding process results in limited ballast coil volume and reduced weight, with minimum wattlosses
- Ballasts standard equipped with screw terminal blocks
- 250W and 400W versions can also operate HPI lamps (in combination with an external ignitor)



BHL

Dimensions in mm	L1	L2	W	H
BHL125L202	118	94	61	52
BHL125L307	118	94	61	52
BHL250L202	126	105	76	65
BHL250L307	134	113	76	65
BHL400L202	151	130	76	65
BHL400L307	160	139	76	65

Applications

- High-bay lighting, e.g. industrial workshops, exhibition halls, hypermarkets, shopping malls, DIY stores, churches, airports, railway stations
- Road and residential lighting
- Recreational sports lighting, outdoor and indoor
- Floodlighting of buildings and monuments
- Area lighting, e.g. harbors, building sites
- Canopy lighting, e.g. petrol stations
- Climatic suitability: restricted to built-in situations where relative humidity is limited

Preferred selection

Product ID	Lamp Wattage (W)	Voltage/ Frequency (Hz)	Weight (kg)	Bulk Qty	Packaging Dimensions l x w x h (cm)	Volume (m ³)	Weight gross (kg)	Order Code
BHL125L202	HPL125W	230V / 50Hz	1.05	6	19.6 x 13.3 x 11.1	0.002	6.4	8711500 30
BHL125L307	HPL125W	240V / 50Hz	1.05	6	19.6 x 13.3 x 11.1	0.002	6.4	919090 30
BHL250L202	HPL250W	230V / 50Hz	1.85	6	24.2 x 14.1 x 13.7	0.004	11.4	738165 30
BHL250L307	HPL250W	240V / 50Hz	1.85	6	24.2 x 14.1 x 13.7	0.004	11.4	737229 30
BHL400L202	HPL400W	230V / 50Hz	2.95	6	24.2 x 14.1 x 13.7	0.005	18	739209 30
BHL400L307	HPL400W	240V / 50Hz	2.95	6	24.2 x 14.1 x 13.7	0.005	17.7	737250 30

BHL250 can operate HPI (Plus) 250W, required ignitor : S151

BHL400 can operate HPI (Plus) 400W, required ignitor : S151



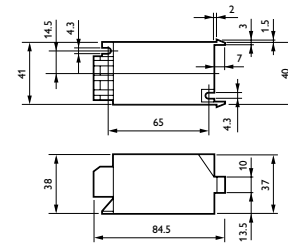
SN(D), SI, SU



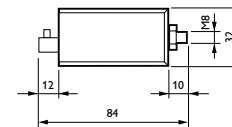
Electronic Ignitors for HID lamps

- Both semi-parallel (impulser) and series (super-imposed pulse) versions are available
- Ignitors ensure reliable and smooth starting behaviour
- Equipped with screw terminal blocks
- Digital ignitors for highest reliability

Dimensions in mm



SN(D) 57/58(T5/T15), SI51/52



SU10/40-S

Preferred selection

Product ID	Weight (kg)	Bulk Qty	Packaging Dimensions l x w x h (cm)	Volume (m ³)	Weight gross (kg)	Order Code
SN57	0.04	48	26 x 18 x 18	tbf	3.6	8711500 915559 30
SN57	0.05	48	25.2 x 18 x 16.5	tbf	2.635	930668 30
SN58	0.04	48	26 x 18 x 18	tbf	3.4	915566 30
SN58	0.05	48	25.2 x 18 x 16.5	tbf	2.635	930682 30
SI51	0.047	48	26 x 18 x 18	tbf	3.4	915535 30
SU10-S	0.14	30	23 x 17 x 13	tbf	4.7	537836 30
SU40-S	0.15	30	23 x 17 x 13	tbf	4.7	930354 30

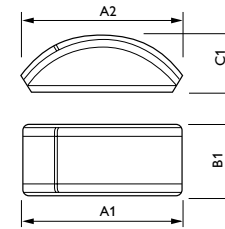


Primaline



Electronic transformer for low voltage halogen lamps

- 3 levels of protection: protected against overvoltage, overtemperature and short circuit
- Dimmable with trailing and leading edge dimmer
- Suitable for independent operation thanks to it's robust strain relief



Primaline

Dimensions in mm	A1	A2	B1	C1
Primaline 70/105	110	110	45	33
Primaline 150	145	145	51	33

Applications

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

Preferred selection

Transformer	Weight (kg)	Bulk packaging Qty	Dimensions l x w x h (cm)	Volume (m ³)	Weight Gross (kg)	Order Code
Primaline 70	0.12	50	25.5 x 22 x 19.5	tbf	tbf	8711500
Primaline 105	0.126	50	25.5 x 22 x 19.5	tbf	tbf	912664 30
Primaline 150	0.2	50	30.5 x 29 x 19.6	tbf	tbf	912688 30 912701 30

voltage 230-240V 50/60Hz



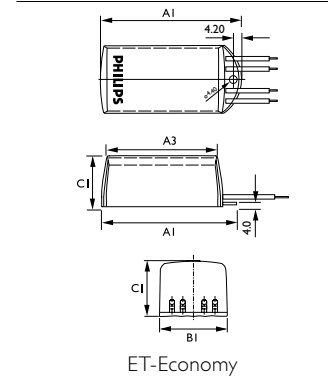
ET-Economy



Electronic transformer for low voltage halogen lamps

Dimmable with Philips approved trailing and leading edge dimmer

- Protected against overheat
- IEC safety compliant and uniquely compact and lightweight
- Available in 60VA version
- Constant output voltage-In the event of lamp wattage variations
- the ET-Economy guarantees a continual secondary voltage of 12V, ensuring long lamp



Dimensions in mm	A1	A3	B1	C1
	max.	max.	max.	max.
ET-E 60W	76	62	38	31

Applications

- ET-Economy transformers are designed for areas such as:
- Indoor residential; living rooms, decorative and accent lighting
- In professional areas; reception areas, retail areas, conference rooms and offices
- In retail areas and exhibitions rooms

Mains operation	
Rated voltage	220 - 240 V
With tolerances for safety	176 - 254 V
Mains Frequency	50/60 Hz
Operatings frequency	40 - 60 KHz
DC voltage operation during emergency back-up*	
Required battery voltage guaranteed ignition	170 - 242 V
Required battery voltage for burning	160 - 242 V
Lifetime	
10 years ioeatuib at 2000hr/yr with 10% failure	
Over voltage	Up to 290V (2hrs)
Tamb	
ET-E 60	-20°C - +50°C
MAX tcase	
ET-E 60	65°C
Cable capacity	120pf
Hum and noise level	inaudible
Dimming	
Dimming is possible with approved leading and trailing edge dimmers.	

When working on DC dimming will not function

Lamp watt (W)	Lamp qty	
	min	max
5W	4	12
10W	2	6
20W	1	3
35W	1	1
50W	1	1

Compliances and approvals

• Harmonics EN 61000-3-2	EN 61000-3-2
• Safety EN 61347-2-2	EN 61347-2-2
• Performance EN 61047	EN 61047
• Environmental standard ISO 14001	ISO 1401

Strip Length 6-8 cm

The minimum distance between transformer and the lamp is	20 cm
The maximum distance between transformer and the lamp is	2m
The distance between transformer must be more than	25cm

Technical data

Transformer	Voltage (V)	Power range (W)	Frequency (Hz)	Power loss (W)	Mains Current (mA)	Dimming from (W)	Output (V)[(W)]
ET-E 60 220240	220-240	20-60	50/60	4	248	20	11.3 (60)

Ordering and packing data

Transformer	Single unit	Carton packing		Weight gross (kg)	Pallet unit	Order Code
	Weight net (kg)	Qty. (pcs)	Dimensions l x w x h (cm)			
ET-E 60W 220-240	0.06	48	35 x 25 x 7.6	3	120/5760	87101630 5860330





6 General Information and Index



Colour characteristics of lamps

Lamps do not all emit light of the same colour. There is, for example, a striking difference between the pronounced amber light from standard sodium lamps, and the white light from most other lamps. Even then, one white light is not the same as another. To select the proper light source for their colour characteristics, two parameters are important: the colour temperature of the emitted light and the colour rendering.

Colour temperature

The colour of the light has an important influence on the colour impression of the area, the colour temperature of the light source plays an essential role. Light is popularly termed ‘cool’ or ‘warm’. However, to enable an objective comparison of the colour impressions from various sources, subjective impressions such as these are inadequate. A precise scale is required, and this is given by the term ‘correlated colour temperature’; the colour gradation of the light is compared with the light emitted by an intensely heated iron bar of which the temperature is known. In this way, the light colour can be specified by a value in Kelvin (K).

Four categories, as a practical guideline, are:

2500 - 2800 K. Warm/Cosy

The colour from incandescent lamps, the fluorescent and compact fluorescent lamps in the colours /827 and /927 and the SDW-T White SON lamp. Generally used for intimate and cosy environments where the emphasis is on a peaceful relaxing ambience.

2800 - 3500 K. Warm/Neutral

The colour from halogen lamps, colour /830 and /930 fluorescent lamps and MASTER Colour /830 lamps. Used in places where people are active, requiring a welcoming comfortable ambience.

3500 - 5000 K. Neutral/Cool

The light colour from /840 and /940 fluorescent lamps as well as MASTER Colour /942 and MHN metal halide lamps. Usually applied in commercial areas and offices where a look of cool efficiency is desired.

5000 K and above. Daylight

Daylight and cool daylight. The light colour that best matches natural daylight, such as fluorescent colours /850, /865, /950 and /965.

Colour rendering

It is often assumed that once a colour temperature has been chosen, the colour impression is determined. This is not the case. The colour impression is not solely determined by the colour temperature of the light source, but also by the colour rendering properties. Moreover, colour temperature and colour rendering are completely separate parameters. Cool daylight and incandescent lamps have fully natural colour rendering properties. The same is true for halogen lamps. The reason for this is the continuous spectrum of the sources.

On the other hand, most gas discharge sources have an interrupted or line spectrum. This has an influence of the quality of their colour rendering properties, which varies from very poor (with SOX low-pressure sodium gas discharge lamps) to excellent (with the colour /90 series fluorescent lamps and mastercolour /942 lamps). In selecting a particular lamp type, a clear understanding of the colour rendering properties is essential. A fair indication is given by the colour rendering index (CRI), which is a standardized scale with 100 as maximum value. Colours are best shown under a light source with the highest colour rendering index. Incidentally, it is only worthwhile to compare CRI values of lamps with similar colour temperature.

Colour impression

Light colour	Colour temperature	Type of lamp or lamp colour
Daylight	6000 K	/865
Cool white	5000 K	/850, /950 HPI Plus, MHN
Neutral white	4000 K	/840, /940, CDM/942,
“Crisp” warm white	3000 K	Halogen Low Voltage Halogen, CDM/830, /930, 230 V-Halogen Incandescent, /827/927
“Cosy” warm white	2500 K	SDW-T SON Comfort
Very warm white	2000 K	SON Plus

Colour rendering

Indoor applications	CRI	Type of lamp or lamp colour
Excellent	100	Incandescent, 230 V-Halogen Halogen Low-Voltage /927, /930, /940, /950, /965
	90	CDM/942
Good	80	/827, /830, /840, /850, /865, CDM /830, SDW-T, MHN
Moderate	70	HPI Plus, /54
	60	SON Comfort
Insufficient	50	/33
	50	/35
Poor	< 40	SON Plus

Lamp positioning on Tc and CRI

Indoor general lighting						
CRI	"functional" yellowish Tc <2400K	"cosy" warm white 2400 <Tc <2800	"crisp" warm white 2800 <Tc <3500	"fresh / active" neutral-cool white 3500 <Tc <5000	"daylight" daylight Tc > 5000K	
90-100		halogen HV Incandescent */927	Halogen LV */930	CDM/942 */940	*/950, */965	
80-90		*/827 SDW-T	*/830	*/835, */840	*/850, */865	
70-80					*/54	
60-70	SON(-T) Comfort			HPI(-T) (Plus) */33		
40-60			*/29, */35 ML, HPL Comfort	HPL-N		
20-40	SON(-T) (Plus)					
< 20	SOX(-E)					

* for fluorescent lamps like TL5, TL-D, PL-L, PL-C, PL-T, PL-S, SL. Not all fluorescent lamps are available in all colours mentioned in the table.

In practice, three categories are normally found

CRI between R_a 90 and 100

Excellent colour rendering properties.

Applications: mainly where correct colour appraisal is a critical task.

CRI between R_a 80 and 90

Good colour rendering properties.

Applications: in areas where critical colour appraisal is not the primary consideration but where good rendition of colours is essential.

CRI below R_a 80

Moderate to poor colour rendering properties.

Applications: in areas where the quality of colour rendering is of minor importance.

This classification is of course dependent upon the demands that a particular application makes on a lamp. For example, an R_a of 60 is inadequate for shop lighting, but is good for functional road lighting.

Colour temperature and colour rendering

Correct light colours and correct reproduction of colours assists us in recognising our surroundings.

The colour climate of an artificially-lit space is determined by the light colour and the colour rendering.

Room furnishings of wood and fabrics in warm or pastel colours require warm lighting in the colour /827 or /927.

The more business-like the interior are, the cooler the light can be. Furniture using chromium, glass and marble, or in black and white, are emphasised by the cool light colours /840 and /940.

Proper use of fluorescent lamps

	Optimal solution		Eventually suitable											
	Warm white		Neutral white					Cool daylight						
	IA	IB	IA	IB	IA	2B	IB	IA	2A	IB	IA	IB	IA	
Shop lighting														
Philips light colours	79	827	927	830	930	33	840	940	54	850	950	865	965	
CIE Colour rendering group	1A	1B	1A	1B	1A	2B	1B	1A	2A	1B	1A	1B	1A	
Sales areas														
Groceries														
Meat														
Textiles, leather														
Furniture, carpets														
Sports, games, stationery														
Photo, clocks and jewellery														
Cosmetics, hairdressing														
Flowers														
Bookshops														
Industry														
Workshops														
Elektro., mechanical assembly														
Textile manufacture														
Printing, graphical trades														
Colour testing														
Paintshops														
Stores														
Plant growers														
Offices, schools														
Office areas														
Conference rooms														
Teaching areas														
Lobby, corridor														
Others														
Dwellings														
Restaurants														
Museums														
Sport, multipurpose areas														
Hospital bedrooms														
Treatment rooms														

Protection against electric shock

Luminaires are classified as being of insulation class I or II according to how much protection is provided against accidental touching of live parts. Insulation class I: all metal parts that the user may come into contact with during operation or servicing are connected to the earth conductor.

Insulation class II: additional insulation provides double protection against high voltage live parts.

Protection against mechanical shock

The impact resistance of a luminaire defines the protection of the luminaire against mechanical shock. The European norm EN 50102 defines the

Protection against electrical shock

Safety class	Symbol	Protection
0		Basic insulation only (not recommended)
I		Basic insulation plus protective earth connector
II		Double or reinforced insulation, no provision for protective earthing
III		Supply of safety extra-low voltage

Protection against mechanical shock

IK code	Shock energy (Joule)	Description	Example
IK00	–		
IK01	0.15		
IK02	0.2	Standard	Standard open luminaire, closed luminaire with acrylic cover
IK03	0.3		
IK04	0.5	Standard plus	Open luminaire with reinforced optical system
IK05	0.7		
IK06	1		
IK07	2	Reinforced	
IK08	5	Vandal-protected	Closed luminaire with polycarbonate or hardened glass cover
IK09	10		
IK10	20	Vandal-resistant	Closed

degrees of protection against external mechanical impact (IK code) and the method of testing. The luminaire housing should withstand the defined energy of the mechanical shock without losing its electrical and mechanical safety, or the basic luminaire function.

Translated into a more practical implementation, this means that after withstanding the shock, deformation of the mirror and housing is allowed, although broken lamps, an unsafe electrical situation and failure to meet the specified IP classifications are not permitted.

The impact resistance is expressed as a group numeral, for instance IK06, which is related to the impact energy in joule.

All types of luminaires of Philips Lighting have a minimum impact resistance of 0.2 J. The table shows the ten IK classifications and the defined shock energy in joule.

Note that vandal-proof luminaires are not available: vandal-protected and vandal-resistant are the best achievable classifications.

Protection against ingress of solid bodies, dust and moisture

The Ingress Protection system (IP) EN 60529, 1991 defines various degrees of protection against the ingress of foreign bodies, dust and moisture. The term 'foreign bodies' includes things like fingers and tools coming into contact with the electrical live parts of the luminaire. Both safety aspects (contact with live parts) and harmful effects on the function of the luminaire are defined. Note that the conditions during testing might differ from the specific conditions in an application. The designation to indicate the degree of protection consists of the characteristic letters IP followed by 2 digits indicating conformity with the conditions stated in the two tables. All Philips Lighting luminaires fulfil the minimum classification: IP 20 (protected against finger contact with live parts), however a selection of luminaires, especially those for industrial applications, meet a higher IP classification. It is important to realise that the specification and safety of luminaires are only secured if the necessary maintenance according to the instructions of the manufacturer is carried out in time. The most common applications of the IP classifications for luminaires are:

IP 20

Luminaires which can be applied indoors only if no specific pollution rates are expected. Offices, dry, heated industrial halls, shops, shopping malls and theatres are typical application segments.

IP 21/22

Luminaires which can be applied in unheated (industrial) halls and under canopies as the luminaires are drip-and condensation-water-protected.

IP 23

Luminaires which can be applied in unheated industrial halls or outdoors.

IP 43/44

Luminaires and bollards for outdoor street lighting and street lanterns. Bollards mounted at a low height are protected against small solid objects and against rain and splash.

A common combination within an industrial high-bay luminaire or street lantern is IP 43 for the electrical part of the luminaire, to secure safety, and IP 54/65, for the optical part of the luminaire, to prevent pollution of reflector and lamp.

IP 50

Luminaires which are applied in dusty environments, to prevent rapid pollution of the luminaire.

The exterior of IP 50 luminaires can be cleaned easily. In the food industry, closed luminaires are specified to prevent glass particles from accidentally broken lamps entering the production area and contaminating the products under preparation.

IP 54

The traditional water-protected classification. Luminaires can be cleaned with water without any harmful effect. This classification is often specified in the food processing industry, for industries where dust and moisture are generated in the hall, and for use under canopies.

IP 60

Luminaires which are completely sealed against dust accumulation, and are used in very dusty environments (wood and textile industry, stone carving) and in the food industry as explained above. IP 60 luminaires are rarely applied; IP 65/IP 66 is usually applied instead.

IP 65/66

Jet-proof luminaires which are applicable where the surroundings are hosed down frequently by water jets, or where luminaires are applied in a dusty environment. Although the luminaires are not fully watertight, the potential ingress of moisture will not have any harmful effect on the luminaire function. IP 65/66 luminaires are often available in impact-protected versions.

IP 67/68

Luminaires complying with this classification are suitable for immersion in water. Typical application areas are underwater lighting of swimming pools and fountain lighting. Deck lighting on ships should also meet this classification. The test method does not imply that IP 67/68 luminaires meet the IP 65/66 classifications as well.

Protection against ingress of dust, solid objects and moisture

First number:			Second number:		
Degree of protection against accidental contact/contact with external elements			Degree of protection against ingress of moisture		
First number	Description	Explanation	Second number	Description	Explanation
0	Non-protected	Not protected	0	Non-protected	Not protected against moisture
1	Hand-protected	Protected against solid objects exceeding 50 mm in diameter	1	Drip-proof against vertical water drops	Water drips falling vertically shall have no harmful effect
2	Finger-protected	Protected against finger contact with live parts and solid objects exceeding 12 mm in diameter	2	Drip-proof when tilted at angles up to 15°	Water drips shall have no harmful effect
3	Tool-protected	Protected against contact with live parts by tools, wire or similar objects over 2.5 mm and penetration of solid objects exceeding 2.5 mm	3	Rain-/spray-proof	Water falling at an angle of up to 60° shall have no harmful effect
4	Wire-protected	Protected against contact with live parts by tools, wire or similar objects over 1 mm thick and penetration of solid objects exceeding 1 mm in diameter	4	Splash-proof	Splashing water from any direction shall have no harmful effect
5	Dust-accumulation-protected	Complete protection against contact with live parts and harmful accumulation of dust; some dust may enter but not to the extent that operation is impaired	5	Jet-proof	Water projected by a nozzle from any direction shall have no harmful effect. (Nozzle diameter 6.3 mm, pressure 30 kPa)
6	Dust-penetration-protected	Complete protection against contact with live parts and against penetration of dust	6	Jet-proof	Water projected by a nozzle from any direction shall have no harmful effect. (Nozzle diameter 12.5 mm, pressure 100 kPa)
			7	Watertight	Watertight; temporary immersion in water under specified conditions of pressure and time possible without ingress of water in harmful quantities
			8	Pressure watertight	Pressure watertight; continuous submersion in water under specified conditions of pressure and time without ingress of water in harmful quantities

Average illuminance

Illuminance averages over a specified surface.

Unit: lux (lx) = lm/m²

Symbol: E_{AV}

Ballast

Device Used with discharge lamps for stabilising the current in the discharge.

Beam spread

The angle in the plane through the beam axis over which the luminous intensity drops to a stated percentage (e.g. 50%) of its peak intensity.

Brightness

Attribute of visual sensation according to which an area appears to emit more or less light. Brightness according to the definition is also an attribute of colour. In British recommendations the term "Brightness" is now reserved for descriptions of colour. Luminosity should be used in other instances.

Candela

The standard unit of light intensity, abbreviated as "cd", being one lumen per steradian.

Colour change

The ability to change the colour temperature of a lighting installation makes it possible to create either a more comfortable working environment or introduce dynamic lighting effects.

Colour rendering

The ability of a light source to render colours naturally, without distorting the hues seen under a black full spectrum radiator (like daylight or incandescent lamps). The colour-rendering index CRI ranges from 0 to 100. For further details see 'Specification data lamps'.

Colour rendering index CRI

See colour rendering.

Colour temperature

The temperature in kelvin of a full spectrum radiator most closely approximate to the colour appearance of a light source at the same brightness. For further details of Philips lamps see under 'Specification data lamps'.

DALI

Digital Addressable Lighting Interface, a standardised communication interface to regulate lighting levels and to switch electronic HFD ballasts on and off.

Daylight linking

Natural light is energy saving and beneficial to individual users. Daylight linking is a technique that regulates light output according to daylight conditions, maintaining a constant level of indoor lighting and ensuring comfort at all times.

Direct lighting

Lighting by means of luminaires with a light distribution such that 90 – 100% of the emitted luminous flux reaches the working plane directly, assuming that this plane is unbounded.

Disability glare

Glare that impairs vision.

Discomfort glare

Glare that causes discomfort without necessarily impairing vision.

Dust-proof luminaire

Luminaire constructed so that dust of specified nature and fineness cannot enter it when it is used in a dust-laden atmosphere.

Glare

See disability glare and discomfort glare, and the chapter 'Information - Lighting technique'.

Halogen lamp

Incandescent lamp in which the inclusion of halogens in the gas filling and a high-temperature quartz envelope promote the tungsten halogen cycle, permitting higher filament temperature. The result is a higher colour temperature and a significantly extended life. Halogen lamps are often applied to create sparkling lighting effects.

Halogen HV

High-voltage (230 V) halogen lamp.

Halogen LV

Low (safety) voltage (6 V, 12 V or 24 V) halogen lamp. Operating low voltage halogen lamps requires an electronic or electromagnetic transformer, which is often integrated in the specific luminaire.

HFD

Electronic dimmable ballast by which dimming is possible. Ballast functions according to the DALI protocol.

HFP

Electronic ballast for various fluorescent lamp types with warm-start principle. See also 'Specification data luminaires'.

HFR-T

Electronic ballast for TL5 and TL-D lamps. With this new-style electronic ballast, standard buttons can be used to dim the light output to as little as 3%. The lamp can also be switched on or off using the push-button control.

HFR

Electronic ballast for various fluorescent lamp types by which lighting regulation is possible. The main ranges of HF-R ballast allow step-less dimming down to 3%. See also 'Specification data luminaires'.

HPI Plus

Metal-halide high-intensity discharge lamp combining high luminous efficacy with white light of moderate colour rendering. Main indoor applications are big industrial halls and lighting of discount stores, hyper-/ supermarkets and DIY shops. Indoors, HPI Plus lamps are applied in high-bay luminaires.

Illuminance

The luminous flux density at the surface being lit. The unit is lux, being one lumen per square metre. The illuminance in the full summer sun is approx. 100000 lux. Recommended illuminances for work places range from 200 lux for rough work to 2000 lux for detailed critical work.

Unit: lux (lx) = lm/m²

Symbol: E

Indirect lighting

Lighting by means of luminaires with a light distribution such that not more than 10 per cent of the emitted luminous flux reaches the working plane directly, assuming that this plane is unbounded.

Induction lighting QL

Electrode-less induction lighting system characterised by good light quality, high luminous efficacy and a phenomenal life (60000 hours).

Jet-proof luminaires

Luminaire constructed to withstand a direct jet of water from any direction.

Light output ratio (L.O.R.)

The ratio of the total light emitted by a luminaire to the total light out-put of the lamp(s) it contains. The light output ratio is always less than 1.

Lumen depreciation

Decline of light output of a light source during its lifetime.

Luminaire

Equipment that distributes, filters or transforms the light given by a lamp or lamps, and which contains all the necessary items for fixing and protecting the lamps and connecting them to a power supply.

Luminance

The light intensity per square metre of apparent area of the light source, luminaire or illuminated surface (cd/m²). Where surfaces are lit, the luminance is dependent upon both the lighting level and the reflection characteristics of the surface itself.

Unit: cd/m²

Symbol: L

Luminous efficacy

The quantity of light a light source emits per watt of electrical power of energy consumed. Note that both the lamp luminous efficacy and the system (lamp and ballast) luminous efficacy can be specified. The system luminous efficacy is always lower than the lamp luminous efficacy.

Luminous flux

The total light output emitted by a light source. Also the total light falling on a surface. Light output of a light source is measured in lumen.

Unit: lumen

Symbol: I

Luminous intensity

The luminous flux in a given direction (e.g. from a floodlight, projector).

Unit: candela (cd) = one lumen per steradian

Symbol: I

Lux

The standard unit of illuminance of a surface being lit. One lux is one lumen per square metre.

Maintained emergency lighting

Emergency lighting where the lamps are in operation from the normal supply during standard conditions. In an emergency situation the emergency lamp (usually one lamp in luminaires of two or more lamps) remains in operation.

Maintained illuminance

Value below which the average illuminance on the specified surface is not allowed to fall. The maintained illuminance is specified at the end of the maintenance cycle, taking into consideration the maintenance factor.

It is one of the main specification elements for the lighting designer. In the various norms, the maintained illuminance is specified for various activities.

Unit: lux

Symbol: E_m

Maintenance factor

Correction factor used in lighting design to compensate for the rate of lumen depreciation, caused by lamp ageing (lumen depreciation and lamp failures) and dirt accumulation (luminaire and environment). It determines the maintenance cycle needed to ensure that illuminance does not fall below the maintained value.

MASTER Colour CDM

Series of metal-halide discharge lamps with excellent colour rendering and a warm or neutral colour impression. MASTER Colour lamps are applied in projectors and downlights in shop and office applications.

Mercury lamps

High-intensity discharge lamps for use in industry and large public spaces. Better light characteristics are obtained by applying metal-halide lamps.

Metal-halide lamps

Single- or double-ended discharge lamps for use in industry, public spaces and shops. Metal-halide lamps combine a natural white colour with a pleasant light and a high luminous intensity.

Movement detection

To control lighting in a specific area, sensing of occupancy by movement detection ensures lights are activated only when needed.

Non-maintained emergency lighting

Emergency lighting where the emergency lighting lamps come into operation only when the power supply to normal lighting fails.

OLC

Omnidirectional Luminance Control, a Philips-patented series of optics for TL5 and TL-D lamps offering optimal lighting efficiency in combination with excellent glare and luminance control all around the luminaire.

PL

Single-ended fluorescent lamp in which the discharge tube is folded to two, four or six limbs. PL lamps are characterised by unusually high light output for length. PL lamps are to be applied in compact luminaires for professional and domestic use.

Power factor

The ratio of the circuit power in watts to the product of the root-mean-square values of voltage and current. For sinusoidal waveforms, it is equal to the cosine of the angle of phase difference between voltage and current. For electronic ballasts the power factor is 0.95; no extra compensation is required.

QL

See Induction lighting.

SDW-T

White SON or SDW-T lamps offer a high luminous efficacy in combination with a warm white light. The colour rendering is excellent. SDW-T lamps are applied in shops and public spaces where the atmosphere should be warm and cosy.

Sodium lamps SON

High-pressure discharge lamps with a yellowish colour appearance and an extremely high efficiency. SON and SON Comfort lamps are mainly applied in high-bay industrial applications.

Starter

Device for starting a discharge lamp (in particular a fluorescent lamp) that provides the necessary preheating of the electrodes and/or causes a voltage surge in combination with the series ballast.

Switching and dimming control

As more and more light sources can be economically dimmed, lighting controls need to provide both switching and dimming capabilities.

TL5

Linear double-ended fluorescent lamp with a diameter of only 16 mm. In combination with OLC optics and high-frequency ballasts, the TL5 system offers a superb performance, both light-technically and in terms of energy consumption.

TL-D

Linear standard double-ended fluorescent lamp with a diameter of 26 mm.

Uniformity ratio

The ratio between the minimum and the average illuminance over an area (E_{\min}/E_{ave}). If so defined, the uniformity ratio is the ratio between the minimum and the maximum illuminance over a specified surface (E_{\min}/E_{max}).

Utilisation Factor

The Utilisation Factor (UF) of a lighting installation represents the percentage of the luminous flux of the lamp(s), that reaches the defined working plane. The UF can be seen as the efficiency of the lighting installation. The UF is used to calculate the number of luminaires required.

Visual guidance

The sum of the measures taken to give the user of a space an unambiguous and immediately recognisable picture of the course of the path ahead. Visual guidance is important in shops and public buildings. The lighting designer takes the demands for visual guidance into consideration.

A		H	
A55 White (A-shape)	2.4.13	HF-Regulator II TL-D	5.1
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Ambiance Reflector PAR38	2.1.23	I	
Ambiance Standard Shape	2.1.17	Ignitors	5.13
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Essential	2.1.1	MASTER HPI-T Plus	2.6.1
Essential 12V Direct Current	2.1.3	MASTER Line ES	2.3.1
Essential Dichroic MRI 6	2.3.3	MASTER PL-C 2Pin	2.2.5
Essential Long life	2.1.5	MASTER PL-C 4Pin	2.2.9
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		MASTER PL-S 4Pin	2.2.3
G		MASTER TL5 High Efficiency	2.2.15
Genie	2.1.7	MASTER TL5 High Output	2.2.19
Genie Long Life	2.1.9	MASTER TL-D ECO	2.2.39
GuideLight	3.17		

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MASTERTL-D Xtra	2.2.27	TBS147	4.3
MASTERTL-D Xtreme	2.2.29	TBS288	4.1
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ML	2.6.13	TCW051	4.23
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