

GE Lighting



# Traditional lamps

Product catalogue

2018





GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this catalogue are intended as a general guide, and we may change specifications from time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted by law.

All lamp drawings are a guide, if further technical details are required please contact your nearest sales office.

#### General conditions of sale

GE Lighting products are supplied according to GE's General Conditions of Sale. If you require a copy of these conditions please contact your nearest GE Lighting sales office.

#### Prices

A price list is available from all GE Lighting sales offices.

#### Date of Issue

February 2018

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HID

LFL

CFL Non-Integrated

CFL Integrated

Halogen

Incandescent

Specialty

Caps

## Introduction

Serving the lighting industry through innovation and tradition



We have been at the forefront of innovation from our earliest days



Our history is one of world firsts. From the first affordable incandescent lamp (1879), the first energy saving lamp (1913), the first HID mercury lamp (1934), and the first fluorescent lamp (1938), to the first quartz halogen lamp (1959), and the first coil-shaped compact fluorescent lamp (1974), the GE Lighting name has become synonymous with pioneering change and the drive toward ever more efficient lighting technology.

Our founder, Thomas Edison, filed 1,093 successful U.S. patent applications and famously said: "Genius is one percent inspiration and ninety-nine percent perspiration." His legacy is clear in the way we work today. We innovate. We take risks. We solve problems. We make things happen.

In 1962, we developed the first visible light emitting diode, a breakthrough that has gone on to transform the way people think of lighting across every imaginable application: domestic, commercial, industrial, retail, leisure and more. And today we continue to innovate and deliver the lighting systems of the future.

But that doesn't mean that LED has swept all traditional lighting technologies in its wake. Far from it.

### The best solution for each and every application

There remains a place for virtually every type of lighting and the breadth of our ranges means we can deliver the best possible solution to any need, irrespective of the technology.

From the reliability and outstanding colour rendition of Ceramic Metal Halide (CMH) lamps to the energy efficiency of Compact Fluorescent Lamps (CFL), from the light distribution and lumen maintenance of Linear Fluorescent Lamps (LFL) to the performance and ready availability of our Specialty Lamps, we can supply the right solution for any and every application.

Our experience of working with these technologies is unsurpassed and we continue to play a central role in their development as the world looks for ever more efficient lighting solutions.

So whatever your specific combination of requirements – light quality, lamp form, colour accuracy, lumen maintenance, service life, operating cost – you can be confident of getting precisely what you need from GE Lighting.

### GE Lighting – a name you can trust

We have driven the same standards of quality and reliability into adapting these ranges to the needs of the 21st century as we've brought to every other lighting technology over the last 125 years and more.

The rapid pace of change within the lighting industry has seen the arrival of players without our stability, technical expertise and commitment to innovation.



High Intensity Discharge Lamps



# High Intensity Discharge Lamps

Ultra-efficient lighting for indoor and outdoor applications

HID lamps combine high efficacy and outstanding colour rendition with a long working life to deliver a highly attractive solution for a range of indoor and outdoor applications including retail display, industrial lighting, street lighting and public areas.

Our ranges include ConstantColor™ Ceramic Metal Halide (CMH), Quartz Metal Halide (QMH) and Lucalox™ High Pressure Sodium (HPS) technologies.

## ConstantColor™ CMH

### Light quality

Colour is a vital part of lighting in so many ways. Retail displays need to be lit to show products' colours. Security cameras need to be able to identify colours accurately. And in modern cities that never sleep, buildings, sculptures and parks look their best when lighting brings out their true colours. ConstantColor™ CMH Lamps deliver the quality of light that these situations demand.

### Reliability

It is also important that this high performance is maintained, and GE's ConstantColor™ technology delivers the best possible lumen maintenance to ensure that merchandise, streets and statues are lit better for longer and with no deterioration of light quality as lamps approach the end of their life.

### Low cost of ownership

The excellent lumen maintenance of ConstantColor™ CMH Lamps means extended replacement cycles and, therefore, savings on maintenance cost. An extension of at least one year can be assumed when calculating relamping cycles.

- High efficacy – more lumens per Watt
- Long rated life: up to 24 000 hours
- High lumen maintenance

### Why CMH?

- Highly controllable point source
- Superb colour rendition and stability
- Reliability, efficiency and longevity
- Superb lumen maintenance
- Instant replacement of less eco friendly products



Wide range of products to meet different applications

GE's ConstantColor™ CMH range is second to none in the variety that is on offer for both indoor and outdoor applications. Indoors, these include retail display lighting and industrial high bay lighting, and outdoors, street lighting and city beautification.

The range includes lamps for all the common formats - GU6.5, G8.5, G12, E27/E40 and Rx7s, as well as AR111, MR16 and PAR reflectors. Lighting designers can choose from 3000K and 4200K colours and their needs are also catered for by the flexibility of ballasts that can be used. GE works closely with customers and offers a list of top ballast manufacturers.

GE ConstantColor™ CMH Lamps provide high quality light with low cost of ownership for every type of application, but there are also products specially developed for particular uses.

## GE ConstantColor™ CMH Standard

CMH Standard is the widest product range, one that offers great performance and value for replacement applications.

## GE ConstantColor™ CMH Precise™

Developed for the retail environment, CMH Precise™ is GE's premium CMH range, with enhanced colour and improved lumen maintenance.



## GE ConstantColor™ CMH StreetWise™

CMH StreetWise™ combines dimmable white light with high efficiency for street lighting. Long life and high lumen maintenance ensure maintenance is minimised.



# High Intensity Discharge Lamps

## CMH Indoors – innovative lighting solutions for retail and more

Combining great performance and best-in-class rated life, GE ConstantColor™ CMH Standard Lamps offer an attractive, value for money solution for replacement applications. Energy efficiency and excellent lumen maintenance ensure a low total cost of ownership.

- Complete range of retail lamps for wide range of applications
- Energy efficient replacement solution on existing installations
- Reduced energy bills and extended maintenance cycles
- Reduced cost of ownership through longer life
- Enables planned lighting maintenance for fixed interval replacement, optimised labour costs and reduced lamp failures

## Why Precise™?

- Greatly improved lumen output (4000lm – 35W and 7800lm – 70W)
- Excellent lumen maintenance (70W 80% @ 12 000 h)
- Outstanding useful life (B10: 12 000 h)
- Superb light quality and colour rendering of CRI 90+
- Improved rendering of deep red colours (R9)
- Improved lamp-to-lamp colour control
- Universal burning position
- Robust and reliable performance initially and through life



LONGER LIFE AND MORE LUMENS OVER USEFUL LIFE



EXCELLENT LUMEN MAINTENANCE – 30% MORE LUMENS AT 15 000 HOURS LIFE THAN STANDARD LAMPS



COST EFFECTIVE DIRECT RETROFIT FOR EXISTING RETAIL INSTALLATIONS

Our ConstantColor™ CMH Precise™ range is an innovative lighting solution designed to ensure the best possible results in the retail environment with significantly improved lumen maintenance and enhanced quality of light. The range allows retailers to choose the best option for their visual requirements.

- Cost effective direct retrofit for existing retail installations
- Longer life and more lumens over useful life
- Outstanding lumen output – up to 110 LPW
- Excellent lumen maintenance – 30% more lumens at 15 000 hours life than standard lamps
- Compatible with existing GE electronic ballasts and other major GE-validated manufacturers

## CMH Outdoors – efficient white lighting for streets and roadways

Our ConstantColor™ CMH StreetWise™ range represents a major advance in outdoor lighting technology, offering an exceptional combination of light quality and energy efficiency.

A bright white light makes these lamps ideal for street and roadway lighting. This attractive light quality – much closer to natural daylight – makes driving safer through easier recognition of shapes and colour, helps pedestrians feel more comfortable and secure, and enhances the urban environment.

A high degree of efficiency also results in substantial energy savings – an increasing important factor when lighting accounts for more than 20% of energy consumption around the world.



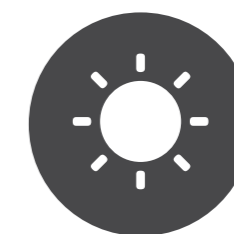
GE's new generation of CMH StreetWise™ Lamps especially designed for outdoor lighting offers the best of both worlds. Bright, white, 'natural' light and low costs for both running and maintenance. With CMH lighting, streets and

other public spaces can feel safer for pedestrians. More than that, their "daylight" colour rendering improves the ability of drivers to recognise shapes and colours, especially in peripheral vision. This also promotes quicker driver response times.

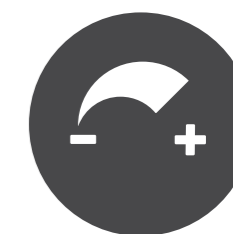
StreetWise™



HIGH EFFICIENCY AND LONG LIFE – UP TO 24 000 HOURS



VIVID COLOUR, BRIGHTER LIGHT



DIMMABLE FOR EXTRA ENERGY SAVING

Other products in our Outdoor ranges include GE Lucalox™ High Pressure Sodium Lamps and a choice of Quartz Metal Halide Lamps from 70 – 2000 W and rated life up to 60 000 hours.

- High efficiency and long life – up to 24 000 hours
- Dimmable for extra energy saving
- Uniform lighting for roadways
- Vivid colour, brighter light
- Lower running cost, lower CO<sub>2</sub> emissions
- Improved safety and security for pedestrians and vehicles
- Ideal for integrated systems with dimming, remote monitoring and remote control

As per the 3rd stage of HID Streetlighting regulation (245/2009/EC) effective from April 13th, 2017, inefficient Quartz & Ceramic Metal Halide lamps under 405W & below 7000K with E27/E40 base have been phased out from EU 28, Switzerland, Norway, Turkey, plus from those countries where energy efficiency requirements follow ErP regulations.

Affected lamps, put on inventory before April 13th, 2017, can be still sold with CE mark until inventory runs out.





# High Intensity Discharge Lamps

## Product overview



### Single Ended Supermini Precise™, Ultra and Standard (GU6.5)

Cap: GU6.5  
Wattages: 20 – 35W  
Colours: 830, 930, 942  
Rated life: 10 000 – 18 000 h



### Single Ended Mini Precise™, Ultra, Ultra White and Standard (TC)

Cap: G8.5  
Wattages: 20 – 70W  
Colours: 830, 930, 942  
Rated life: 12 000 – 18 000 h



### Single Ended Precise™, Ultra, Ultra White and Standard (T)

Cap: G12  
Wattages: 20 – 150W  
Colours: 830, 930, 942  
Rated life: 12 000 – 18 000 h



### Open Rated Elliptical

Cap: E27  
Wattages: 70 – 150W  
Colours: 942, 940  
Finish: Clear or Diffuse  
Rated life: 15 000 h



### Elliptical

Cap: E27, E40  
Wattages: 70 – 400W  
Colours: 830  
Finish: Clear or Diffuse  
Rated life: 10 000 – 24 000 h



### StreetWise™

### StreetWise™

Cap: E27, E40  
Wattages: 50 – 150W  
Colours: 730  
Finish: Clear  
Rated life: 24 000 h



### Double Ended (TD)

Cap: RX7s or RX7s-24  
Wattages: 35 – 150W  
Colours: 830, 942  
Rated life: 15 000 h



### Elliptical Clear

Cap: E27  
Wattages: 70 – 100W  
Colours: 830  
Rated life: 15 000 h



### Tubular

Cap: E27, E40  
Wattages: 70 – 400W  
Colours: 830, 842, 942  
Finish: Clear  
Rated life: 10 000 – 24 000 h



### Open Rated Tubular

Cap: E40  
Wattages: 150W  
Colours: 830, 942  
Finish: Clear  
Rated life: 12 000 h

## ConstantColor™ CMH (Ceramic Metal Halide) GU6.5, TC, T, TD

## ConstantColor™ CMH (Ceramic Metal Halide) Elliptical and Tubular



### MR16 Precise™, and Standard

Cap: GX10  
Wattages: 20 – 35W  
Colours: 830, 930, 942  
Rated life: 10 000 – 18 000 h  
Beam spread: 12 – 40°



### AR111

Cap: GX8.5  
Wattages: 35 – 70W  
Colours: 930  
Rated life: 12 000 h  
Beam spread: 10 – 40°



### PAR20

Cap: E27  
Wattages: 20 – 35W  
Colours: 830, 942  
Rated life: 10 000 – 12 000 h  
Beam spread: 10 – 25°



### PAR30

Cap: E27  
Wattages: 20 – 70W  
Colours: 830, 942  
Rated life: 10 000 – 13 000 h  
Beam spread: 10 – 40°



### CMH Standard Ballasts

A range of standard ballasts for 35 – 70W CMH lamps



### CMH Miniature Ballasts

A range of miniature ballasts for 20 – 35W CMH lamps

## ConstantColor™ CMH (Ceramic Metal Halide) Reflectors

## CMH Ballasts





# High Intensity Discharge Lamps

## Product overview



### Single Ended

Cap: G12  
Wattages: 70 – 150W  
Colours: 3000 – 4200K  
CRI: 70 – 80  
Rated life: 6 000 h



### Double Ended

Cap: Rx7s-Fc2  
Wattages: 70 – 250W  
Colours: 3000 – 6500K  
CRI: 75 – 90  
Rated life: 8 000 – 12 000 h



### Double Ended Coloured

Cap: Rx7s-24  
Wattages: 150W  
Colours: Green, Blue, Magenta  
Rated life: 6 000 h



### Lucalox™ XO Superlife

Cap: E27, E40  
Wattages: 70 – 400W  
Feature: Extra high lumen output and Twin Arctubes for extra life  
Finish: Tubular Clear or Elliptical Diffuse  
Rated life: 50 000 – 60 000 h



### Lucalox™ XO

Cap: E27, E40  
Wattages: 50 – 600W  
Feature: Extra high lumen output  
Finish: Tubular Clear or Elliptical Diffuse  
Rated life: 32 000 – 45 000 h



### Lucalox Superlife

Cap: E27, E40  
Wattages: 50 – 250W  
Feature: Twin Arctubes for extra life  
Finish: Elliptical Diffuse  
Rated life: 40 000 – 60 000 h



### Tubular

Cap: E40  
Wattages: 250 – 400W  
Colours: 4200 – 6000K  
CRI: 70 – 90+  
Finish: Clear  
Rated life: 12 000 h



### Elliptical

Cap: E40  
Wattages: 250W  
Colours: 4000 – 6000K  
CRI: 70 – 90  
Finish: Clear or Diffuse  
Rated life: 12 000 – 14 000 h



### Lucalox™ Standard

Cap: E27, E40  
Wattages: 70 – 1000W  
Finish: Tubular Clear or Elliptical Diffuse  
Rated life: 24 000 – 28 500 h



### Lucalox™ Internal Ignitor

Cap: E27  
Wattages: 50 – 70W  
Feature: Internal ignitor  
Finish: Elliptical Clear or Diffuse  
Rated life: 12 000 – 17 500 h

**Arcstream Metal Halide** Operates on suitable metal halide/high pressure sodium ballast and metal halide ignitor

**Lucalox™ High Pressure Sodium**



### Standard – Elliptical

Cap: E40  
Wattages: 250 – 1000W  
Colours: 3700 – 4200K  
CRI: 65 – 70  
Finish: Clear or Diffuse  
Rated life: 10 000 – 20 000 h



### High Output – Elliptical

Cap: E40  
Wattages: 250 – 400W  
Colours: 3200 – 4200K  
CRI: 65 – 70  
Finish: Clear or Diffuse  
Rated life: 20 000 h



### Linear

Cap: RX7SM - spec  
Wattages: 1500 – 2000W  
Colours: 5200K  
CRI: 65  
Rated life: 6 000 h



### Tubular Clear

Cap: E40  
Wattages: 1000 – 2000W  
Colours: 4000 – 6000K  
CRI: 65 – 93  
Rated life: 2 000 – 8 000 h



### Internal Ignitor

Cap: E40  
Wattages: 2000W  
Colours: 4000 – 6000K  
CRI: 65 – 93  
Rated life: 2 000 – 5 000 h

**Multi-Vapour Metal Halide** Operates from CWA Control Gear

**Spotlight™ Metal Halide** For sports and floodlighting



### Tubular

Cap: E40  
Wattages: 400W  
Colours: 6000K & 7500K  
CRI: 90  
Finish: Clear  
Rated life: 14 000 h



### Elliptical

Cap: E40  
Wattages: 400W  
Colours: 4000 – 6000K  
CRI: 65 – 90  
Finish: Clear or Diffuse  
Rated life: 14 000 h



### Kolorlux™ Mercury Standard\*

Cap: E27, E40  
Wattages: 50 – 400W  
Rated life: 16 000 – 20 000 h

\* only direct shipment

**Kolorarc™ Metal Halide** Operates from suitable mercury or metal halide ballast rated 3.5A and metal halide ignitor

**Mercury Lamps**





# High Intensity Discharge Lamps

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Beam Angle (°)	Colour	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>ConstantColor™ - CMH PAR 30</b>																
1	20	95	E27	CMH20/PAR30/UVC/830/E27/SP10	26497	1 200	10	830	U	12 000	12 000	124	95.5	21.8	A	6
1	20	95	E27	CMH20/PAR30/UVC/830/E27/FL25	26518	1 200	25	830	U	12 000	12 000	124	95.5	21.8	A	6
1	35	90	E27	CMH35/PAR30/UVC/830/E27/SP10	21689	2 400	10	830	U	10 000	10 000	124	95.5	43.5	A	6
1	35	90	E27	CMH35/PAR30/UVC/830/E27/FL25	21690	2 400	25	830	U	10 000	10 000	124	95.5	43.4	A	6
1	35	90	E27	CMH35/PAR30/UVC/942/E27/SP10	44939	2 225	10	942	U	10 000	10 000	124	95.5	43.7	A	6
1	35	90	E27	CMH35/PAR30/UVC/942/E27/FL25	44942	2 225	25	942	U	10 000	10 000	124	95.5	43.6	A	6
1	70	90	E27	CMH70/PAR30/UVC/830/E27/SP15	21683	4 700	15	830	U	13 000	13 000	124	95.5	81.8	A	6
1	70	90	E27	CMH70/PAR30/UVC/830/E27/FL40	21682	4 700	40	830	U	13 000	13 000	124	95.5	81.8	A	6
1	70	90	E27	CMH70/PAR30/UVC/942/E27/SP15	74620	4 300	15	942	U	10 000	10 000	124	95.5	82.7	A	6
1	70	90	E27	CMH70/PAR30/UVC/942/E27/FL40	74619	4 300	40	942	U	10 000	10 000	124	95.5	82.7	A	6

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Beam Angle (°)	Colour	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>ConstantColor™ - CMH Elliptical Clear</b>																
2	70**	97	E27	CMH70/E/UVC/U/830/E27/C**	97982	6 300	—	830	U	15 000	15 000	138	54	77.7	A+	6

\*\*Not CE compliant product

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Beam Angle (°)	Colour	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>ConstantColor™ - CMH Elliptical Clear, Open Rated</b>																
3	150	95	E27	CMH150/UVC/O/U/942/E27/C	43285	13 200	942	U	15 000	15 000	138	55	163.3	A	6	
<b>ConstantColor™ - CMH Elliptical Diffuse</b>																
4	70	97	E27	CMH70/E/UVC/U/830/E27/D*	97979	6 000	830	U	15 000	15 000	138	54	78.9	A	6	
4	250	117	E40	CMH250/E/UVC/U/830/E40/D	10591	23 500	830	U	24 000	24 000	227	90	289.4	A+	12	
4	400	120	E40	CMH400/E/UVC/U/830/E40/D*	13087	39 000	830/836***	U	20 000	20 000	282	120	453.9	A+	6	
<b>ConstantColor™ - CMH Elliptical Diffuse StreetWise</b>																
5	50	87	E27	CMH50/E/UVC/U/730/E27/D STREETWISE	93080482	5 200	730	U	24 000	24 000	156	71	59.95	A+	12	
5	70	89	E27	CMH70/E/UVC/U/730/E27/D STREETWISE	93080062	7 050	730	U	24 000	24 000	156	71	78.1	A+	12	
5	100	100	E40	CMH100/E/UVC/U/730/E40/D STREETWISE	93079652	9 870	730	U	24 000	24 000	186	76	107.8	A+	12	
5	150	98	E40	CMH150/E/UVC/U/730/E40/D STREETWISE	93079653	15 500	730	U	24 000	24 000	227	91	165	A+	12	

\* Will be phased out



1 2 3 4 5

# High Intensity Discharge Lamps

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Colour	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>ConstantColor™ - CMH Tubular Clear StreetWise</b>															
50	87	E27	CMH50/TT/UVC/U/730/E27 STREETWISE	93028627	5 450	730	U	24 000	24 000	156	39	59.9	A+	12	6
70	95/90	E27	CMH70/TT/UVC/U/730/E27 STREETWISE	77401	7 640/7 100	730	HOR±15/VBU	20 000	24 000	156	39	78.1	A+	12	6
100	100/95	E40	CMH100/TT/UVC/U/730/E40 STREETWISE	77399	10 900/10 300	730	HOR±15/VBU	20 000	24 000	211	48	107.8	A+	12	6
150	100	E40	CMH150/TT/UVC/U/730/E40 STREETWISE	77402	16 200	730	HOR±15	—	24 000	211	48	165	A+	12	6
<b>ConstantColor™ - CMH Tubular Clear</b>															
70	95	E27	CMH70/TT/UVC/830/E27*	38752	6 400	830	U	15 000	20 000	156	37	80.8	A+	12	7
100	109	E40	CMH100/TT/UVC/830/E40*	92478	9 200	830	U	10 000	15 000	209	48	110.3	A+	12	7
150	95	E40	CMH150/UVC/T/U/842/E40	21514	14 500	842	U	15 000	15 000	209	48	160.3	A+	12	7
150	100	E40	CMH150/TT/UVC/830/E40*	38749	14 000	830	U	15 000	20 000	209	48	164.6	A+	12	7
250	117	E40	CMH250/TT/UVC/U/830/E40	10589	25 000	830	U	24 000	24 000	260	48	288.2	A+	12	7
250	110	E40	KRC250/CMH/830/T/H/E40	20302	20 000	830	HOR	—	24 000	260	48	241.6	A	12	7
250	107	E40	CMH250/T/U/942/E40	62356	25 000	942	U	16 000	16 000	260	48	285.6	A+	12	7
400	120	E40	CMH400/TT/UVC/U/830/E40	13067	41 000	830/836***	U	20 000	20 000	278	60	454.2	A+	12	7
<b>ConstantColor™ - CMH Tubular Clear, Open Rated</b>															
150	100	E40	CMH150/UVC/O/T/U/830/E40*	21516	14 000	830	U	12 000	12 000	209	48	161.1	A+	12	8
150**	100	E40	CMH150/UVC/O/T/U/942/E40**	21517	14 000	942	U	12 000	12 000	209	48	163.4	A	12	8

\* Will be phased out  
\*\*Not CE compliant product  
\*\*\* horizontal burning position/vertical burning position

Wattage (W)	Volts (V)	Type	Product Description	Product Code	Length (mm)	Pack Qty	Model
<b>CMH Standard Ballast</b>							
35	220-240	Integral	BLS/E/35W/CMH	61487	350	10	9
70	220-240	Integral	BLS/E/70W/CMH	61376	350	10	9
<b>CMH Miniature Ballast</b>							
20	220-240	Integral	BLS/E/20W/CMH*	78711	165	12	10
20	220-240	Remote Cable Clamp	BLS/E/20W/CMH/R/CC*	78712	180	12	10
35	220-240	Integral	BLS/E/35W/CMH*	78714	165	12	10
35	220-240	Remote Cable Clamp	BLS/E/35W/CMH/R/CC*	78715	180	12	10

\* Will be phased out



6 7 8 9 10

# High Intensity Discharge Lamps

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
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## Arcstream™ Single Ended RG-2

1	150	95	G12	ARC150/G12/830*	88654	12 000	3000	80	U	6 000	6 000	76	21.5	165	A	10
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WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

## Arcstream™ Single Ended UVC

2	70	95	G12	ARC70/T/U/730/G12*	97286	5 200	3000	70	U	6 000	6 000	87	23	77	A	10
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\* Will be phased out

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
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## Arcstream™ Double Ended UVC

3	70	95	RX7s	ARC70/UVC/TD/730/Rx7s	34530	5 500	3000	75	HOR±45°	12 000	114	19	82.5	A	12
3	70	95	RX7s	ARC70/UVC/TD/742/Rx7s	34536	5 500	4200	75	HOR±45°	12 000	114	22	82.5	A	12
3	150	95	RX7s-24	ARC150/UVC/TD/732/Rx7s-24	34527	12 000	3200	75	HOR±45°	12 000	132	22	165	A	12
3	150	95	RX7s-24	ARC150/UVC/TD/742/Rx7s-24	34535	12 000	4200	75	HOR±45°	12 000	132	25	165	A	12

## Arcstream™ Double Ended RG-3

3	150	95	RX7s-24	ARC150/AQUA/TD/865/Rx7s-24	35284	11 000	6500	85	HOR±45°	8 000	132	25	165	A	12
4	150	110	RX7s-24	ARC150/TD/952/Rx7s-24	93772	11 000	5200	90	HOR±45°	8 000	132	25	165	A	12
4	250	114	Fc2	ARC250/TD/832/Fc2	30099	20 000	3200	75	HOR±45°	12 000	163	25	275	A	12
4	250	115	Fc2	ARC250/TD/842/Fc2	30101	20 000	4200	75	HOR±45°	8 000	163	25	275	A	12

WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Colour	Operating position	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
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## Arcstream™ Double Ended Coloured UVC

5	150	95	RX7S-24	ARC150/UVC/TD/GREEN/RX7S-24	12181	Green	HOR±45°	6 000	132	25	165	B	12
5	150	95	RX7S-24	ARC150/UVC/TD/BLUE/RX7S-24	12182	Blue	HOR±45°	6 000	132	25	165	C	12
5	150	95	RX7S-24	ARC150/UVC/TD/MAGENTA/RX7S-24	12184	Magenta	HOR±45°	6 000	132	25	165	B	12



1 2 3 4 5

# High Intensity Discharge Lamps

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
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## Arcstream™ Tubular Clear

250	100	E40	ARC250/T/H/960/E40**	32664	19 000	6000	90	HOR±45°	—	12 000	220	47	299.6	A	12	6
250	100	E40	ARC250/T/VBU/960/E40**	32665	19 000	6000	90	VBU±45°	12 000	—	220	47	295.7	A	12	6
250	112	E40	ARC250/T/H/742/E40**	42357	21 000	4200	70	VBU±15°	12 000	—	220	47	294.9	A	12	6
250	105	E40	ARC250/T/H/970/E40	93052192	16 000	7500	90	HOR±45°	—	10 000	220	47	285	A	12	6
400	105	E40	ARC400/T/H/742/E40**	42369	35 000	4200	70	HOR±15°	—	10 000	260	47	444.2	A	12	6

The lamp shall be operated only in a luminaire provided with a protective shield.

## Arcstream™ Elliptical Diffuse

250**	100	E40	ARC250/D/VBU/960/E40	32666	17 000	6000	90	VBU±45°	12 000	—	227	90	294.8	A	12	7
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Operating from suitable metal halide / high pressure sodium (HPS) ballast and metal halide ignitor. Arcstream™ lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100°C).

## Multi-Vapor™ Elliptical Clear

250	133	E40	MVR250/U/40**	85952	20 800	4200	65	U	10 000	10 000	211	90	274.9	A	12	8
400	135	E40	MVR400/U/40**	85944	40 000	4000	65	U	20 000	20 000	292	117	440	A+	6	8
1000	V250 H245	E40	MVR1000/U/40	85924	108 000	4000	65	U	15 000	15 000	390	178	1188	A+	6	8

## Multi-Vapor™ Elliptical Diffuse

175	132	E40	MVR175/C/U/40**	85974	12 900	3900	55	U	10 000	10 000	211	90	192.5	A	—	9
250	133	E40	MVR250/C/U/40**	85953	20 000	3900	70	U	10 000	10 000	211	90	275	A	12	9

## Multi-Vapor™ High Output Elliptical Clear

250	133	E40	MVR250/VBU/40*	86004	22 000	4200	65	VBU±15°	10 000	—	216	89	275	A	12	10
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\* Will be phased out

\*\*Not CE compliant product

Operating from CWA control gear.

Initial lumen values and Rated Average Life based on vertical orientation for Universal types.

Multi-Vapor™ lamps must operated in fully enclosed fixtures except those marked \*\*when used VBU or VBD +/-15°.

For lamps requiring enclosed fixtures, lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C).

Lamps operated in the vertical position that are not designated "Enclosed Fixtures only" lamp may be used in an open or enclosed lighting fixture depending upon the application and operating environment.

For more information contact your fixture manufacturer.



6 7 8 9 10

# High Intensity Discharge Lamps



Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Kolorarc™ Tubular Clear</b>																
1	400	130	E40	KRC400/T/H/960/E40**	30052	28 400	6000	90	HOR±45°	—	14 000	270	58	418.5	A	12
1	400	130	E40	KRC400/T/H/970/E40	93029234	25 000	7500	90	HOR±45°	—	14 000	270	58	405	A	12
1	400	130	E40	KRC400/T/VBU/960/E40**	30704	27 000	6000	90	VBU±45°	14 000	—	270	58	404.8	A	12
<b>Kolorarc™ Elliptical Diffuse</b>																
2	400	130	E40	KRC400/D/H/960/E40*	10834	26 800	6000	90	HOR±45°	—	14 000	282	121	408	B	6
2	400**	130	E40	KRC400/D/VBU/960/E40**	10837	25 400	6000	90	VBU±45°	14 000	—	282	121	405.7	A	6

\* will be phased out  
 \*\*Not CE compliant product  
 Operating from suitable mercury or metal halide ballast rated 3.5A and metal halide ignitor.  
 Low loss ballast recommended for 400W 6000K (960) products - see lamp data sheet for details.  
 Enhanced lumen performance operating from special  
 "High Output" ballast rated 3.8A - see lamp data sheet for details.  
 Kolorarc™ lamps are only suitable for operation in fully enclosed fixtures where lens/diffuser material must be able to contain fragments of hot quartz or glass (up to 1100 °C)



1 2

# High Intensity Discharge Lamps

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>Sportlight™ Linear</b>																
1500	250	RX7SM	SPL1500/L/H/652/Rx7SM	16920	120 000	5200	65	HOR±15°	—	6 000	256	24	1672	A	1	3
2000	230	spec.	SPL2000/L/H/651/SPEC	16922	200 000	5200	65	HOR±15°	—	6 000	311	26	2339.4	A	1	4
<b>Sportlight™ Tubular Clear</b>																
1000	120	E40	SPL1000/T/H/960/E40	88882	80 000	6000	93	HOR±60°	—	8 000	334	65	1147.1	A	4	5
2000	125	E40	SPL2000/220V/T/H/640/E40	36078	189 000	4000	65	HOR±75°	—	2 000	430	102	2090	A+	4	5
2000	225	E40	SPL2000/380V/T/H/960/E40	30102	170 000	6000	93	HOR±60°	—	5 000	430	102	2294.8	A	4	5
<b>Sportlight™ Internal Ignitor</b>																
2000	225	E40	SPL2000/380V/I/T/H/960/E40	30103	170 000	6000	93	HOR±60°	—	5 000	430	101	2292	A	4	6
2000	235	E40	SPL2000/380V/I/T/H/640/E40	33148	190 000	4000	65	HOR±75°	—	2 000	430	101	2182.3	A+	4	6

Please refer to technical data sheet for appropriate ballast and ignitors. Sportlight™ lamps are only suitable for use in fully enclosed fixtures, where fixture lens/diffuser material is able to contain fragments of hot quartz or glass (up to 1100 °C).

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated Life (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>Lucalox™ XO Superlife Tubular Clear</b> ⚠															
70	90	E27	LU 70/XO/SBY/T/E27	88258	6 600	2000	25	U	50 000	156	39	83.1	A+	25	7
100	100	E40	LU 100/XO/SBY/T/E40	88256	10 500	2000	25	U	60 000	211	48	110.3	A+	12	7
150	100	E40	LU 150/XO/SBY/T/E40	78737	17 500	2000	25	U	60 000	211	48	168.9	A+	12	7
250	100	E40	LU 250/XO/SBY/T/E40	78738	33 000	2000	25	U	55 000	260	48	288.7	A+	12	7
400	100	E40	LU 400/XO/SBY/T/E40	78739	55 800	2000	25	U	55 000	283	48	450.6	A++	12	7
<b>Lucalox™ XO Superlife Elliptical Diffuse</b> ⚠															
50	85	E27	LU50/85/XO/SBY/D/E27	97238	3 500	2000	25	U	40 000	156	72	58.3	A	12	8
70	90	E27	LU70/XO/SBY/D/E27	88257	6 000	2000	25	U	50 000	156	71	80.3	A	12	8
100	100	E40	LU100/XO/SBY/D/E40	88255	10 000	2000	25	U	60 000	186	75	113.3	A+	12	8



3 4 5 6 7 10

# High Intensity Discharge Lamps

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated Life (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Lucalox™ XO Tubular Clear</b>															
1	50	85	E27	LU50/85/XO/T/27	93373	4 400	2100	25	U	35 000	156	39	59.7	A	25
1	70	90	E27	LU70/90/XO/T/27	93375	6 600	2100	25	U	40 000	156	39	80.5	A+	25
1	100	100	E40	LU100/100/XO/T/40	93376	10 700	2100	25	U	40 000	211	48	111.9	A+	12
1	150	100	E40	LU150/150/XO/T/40	93377	17 500	2100	25	U	45 000	211	48	168.3	A+	12
1	250	100	E40	LU250/XO/T/40	93378	33 200	2100	25	U	45 000	260	48	285.8	A+	12
1	400	100	E40	LU400/XO/T/40	93269	56 500	2100	25	U	45 000	292	48	448.4	A++	12
1	600	115	E40	LU600/XO/T/40	93270	88 500	2100	25	U	32 000	292	48	667.3	A++	12

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated Life (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Lucalox™ XO Elliptical Diffuse</b>															
2	50	85	E27	LU50/85/XO/D/27	45696	3 600	2100	25	U	35 000	156	72	58.4	A	12
2	70	90	E27	LU70/90/XO/D/27	45697	6 000	2100	25	U	40 000	156	72	83.9	A	12
3	100	100	E40	LU100/100/XO/D/40	93379	10 200	2100	25	U	40 000	186	76	112.2	A+	12
3	150	100	E40	LU150/100/XO/D/40	93380	16 900	2100	25	U	45 000	227	91	170.2	A+	12
3	250	100	E40	LU250/XO/D/40	93381	31 200	2100	25	U	45 000	227	91	285.7	A+	12
3	400	105	E40	LU400/XO/D/40	93296	54 000	2100	25	U	45 000	292	122	443.1	A+	6

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated Life (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Lucalox™ Standard Tubular Clear</b>															
5	70	90	E27	LU 70/90/MO/T/E27	46221	6 100	2000	25	U	28 000	156	39	78	A+	25
4	100	100	E40	LU100/100/MO/T/40	93767	9 600	2000	25	U	28 000	211	48	107.6	A+	12
4	150**	100	E40	LU150/100/40	44244	15 300	2000	25	U	28 000	211	48	163.8	A+	12
4	250**	100	E40	LU250/T/40	22453	28 500	2000	25	U	28 000	260	48	276.8	A+	12
4	400**	100	E40	LU400/T/40	11678	48 000	2000	25	U	28 000	278	48	431.9	A+	12
4	1000	250	E40	LU1000/40	85886	130 000	2100	22	U	24 000	383	79	1100	A+	6
4	1000	110	E40	LU1000/110/T/40	45751	130 000	2000	25	U	24 000	374	68	1067.1	A++	4
4	100	100	E40	LU100/100/HO/T/E40 MIC	93032129	10 400	2000	21	U	28 000	211	48	110.44	A+	12
4	150	100	E40	LU150/100/HO/T/E40	97241	17 500	2000	21	U	28 000	283	48	172.7	A+	12
4	250	100	E40	LU250/100/HO/T/E40 MIC	93032128	32 500	2000	21	U	28 000	260	48	291.93	A+	12
4	400	100	E40	LU400/HO/T/E40	97240	56 200	2000	21	U	28 000	260	48	444.4	A++	12

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated Life (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Lucalox™ Standard Elliptical Diffuse</b>															
6	70	90	E27	LU70/90/MO/D/E27	46217	5 750	2000	25	U	28 000	156	72	77.8	A	12
5	100	100	E40	LU100/100/MO/D/40**	93766	9 200	2000	25	U	28 000	186	76	114.8	A+	12
5	150	100	E40	LU150/100/D/40**	44245	14 500	2000	25	U	28 000	227	91	163.7	A+	12
5	250	100	E40	LU250/D/40**	44052	26 000	2000	25	U	28 000	227	91	276.5	A+	12

\*\*Not CE compliant product



1 2 3 4 5 6

# High Intensity Discharge Lamps



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Operating position	Rated Life (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>Lucalox™ Internal Ignitor Elliptical Clear</b>															
70	90	E27	LU 70/90/MO/I/E27	46209	6 100	2000	25	U	17 500	156	72	79.4	A+	12	6
<b>Lucalox™ Internal Ignitor Elliptical Diffuse</b>															
70	90	E27	LU70/90/MO/D/I/E27	46186	5 750	2000	25	U	17 500	156	72	78.2	A	12	7
<b>Mixed Light</b>															
160	230-240	E27	OT ML 230-240V 160W E27 GE 1/24 MIC DS**	63675	3 100	4200	52	VBU±30	8 000	170	76	185.4	D	24	9
250	230-240	E40	OT ML 230-240V 250W E40 GE 1/12 MIC DS**	63678	5 500	3800	52	U	8 000	227	91	277.5	C	12	8
250	230-240	E27	OT ML 230-240V 250W E27 GE 1/12 MIC DS**	63677	5 500	3800	52	U	8 000	227	91	277.5	C	12	9
500	230-240	E40	OT ML 230-240V 500W E40 GE 1/10 MIC DS**	63676	14 000	3800	45	U	8 000	292	121	545.4	B	10	8

\*\*Not CE compliant product



7 8 9

# High Intensity Discharge Lamps

## CMH

Brand cross reference

GE Lighting

Osram

Philips

ConstantColor™ CMH		
CMH20/TC/UVC/830/GU6.5	HCI-TF 20W/830 WDL PB GU6.5	CDM-Tm Mini GU6.5 20W/830
CMH35/T/UVC/930/GU6.5	HCI-TF 35/930 WDL PB GU6.5	-
CMH35/T/UVC/930/U/GU6.5 PRECISE™	-	CDM-Tm Elite Mini GU6.5 35W/930
CMH35/T/UVC/942/GU6.5	-	-
CMH20/TC/UVC/U/830/G8.5 PLUS	HCI-TC 20W/830 WDL PB G8.5	CDM-TC 20W/830 G8.5
CMH35/T/UVC/U/830/G8.5 PLUS	HCI-TC 35W/830 WDL PB G8.5	CDM-TC 35W/830 G8.5
CMH35/TC/UVC/U/930/G8.5 PRECISE™	HCI-TC 35/930 WDL PB Excellence G8.5	CDM-TC Elite 35W/930 G8.5
CMH70/TC/UVC/U/942/G8.5	HCI-TC 35W/942 NDL PB UVS G8.5	CDM-TC 35W/942 G8.5
CMH70/TC/UVC/U/830/G8.5 PLUS	HCI-TC 70W/830 WDL PB G8.5	CDM-TC 70W/830 G8.5
CMH70/TC/UVC/U/942/G8.5	HCI-TC 70W/942 NDL PB G8.5	CDM-TC 70W/942 G8.5
CMH70/TC/UVC/U/930/G8.5 PRECISE™	HCI-TC 70/930 WDL PB Excellence G8.5	CDM-TC Elite 70W/930 G8.5
CMH20/T/UVC/U/830/G12 PLUS	-	CDM-T 20W/830 G12
CMH35/T/UVC/U/830/G12 PLUS	HCI-T 35W/830 WDL PB G12	CDM-T 35W/830 G12
CMH35/T/UVC/U/930/G12 PRECISE™	HCI-T 35/930 WDL PB Excellence	CDM-T Elite 35W/930 G12
CMH35/T/UVC/U/942/G12	HCI-T 35W/942 NDL PB UVS G12	CDM-T 35W/942 G12
CMH70/T/UVC/U/830/G12 PLUS	HCI-T 70W/830 WDL PB G12	CDM-T 70W/830 G12
CMH70/T/UVC/U/942/G12	HCI-T 70W/942 NDL PB UVS G12	CDM-T 70W/942 G12
CMH70/T/UVC/U/930/G12 PRECISE™	HCI-T 70/930 WDL PB Excellence	CDM-T Elite 70W/930 G12
CMH150/T/UVC/U/830/G12	HCI-T 150W/830 WDL PB G12	CDM-T 150W/830 G12
CMH150/T/UVC/U/942/G12	HCI-T 150/NDL PB UVS G12	CDM-T 150W/942 G12
CMH35/TD/UVC/830/RX7s	-	-
CMH70/TD/UVC/830/RX7s	HCI-TS 70W/830 WDL PB UVS RX7s	CDM-TD 70W/830 RX7s
CMH70/TD/UVC/942/RX7s	HCI-TS 70W/942 NDL PB UVS RX7s	CDM-TD 70W/942 RX7s
CMH150/TD/UVC/830/RX7s-24	HCI-TS 150W/830 WDL PB RX7s-24	CDM-TD 150W/830 RX7s-24
CMH150/TD/UVC/942/RX7s-24	HCI-TS 150W/942 NDL PB RX7s-24	CDM-TD 150W/942 RX7s-24
CMH20/MR16/UVC/830/GX10/SP	-	CDM-Rm Mini 20W/830 GX10 MR16 10D
CMH20/MR16/UVC/830/GX10/FL	-	CDM-Rm Mini 20W/830 GX10 MR16 25D
CMH20/MR16/UVC/830/GX10/WFL	-	CDM-Rm Mini 20W/830 GX10 MR16 40D
CMH35/MR16/UVC/930/GX10/SP	-	-
CMH35/MR16/UVC/930/GX10/FL	-	-
CMH35/MR16/UVC/930/GX10/WFL	-	-
CMH35/MR16/U/930/GX10/SP PRECISE™	-	CDM-Rm Elite Mini 35W/930 GX10 MR16 10D
CMH35/MR16/U/930/GX10/FL PRECISE™	-	CDM-Rm Elite Mini 35W/930 GX10 MR16 25D
CMH35/MR16/U/930/GX10/WFL PRECISE™	-	CDM-Rm Elite Mini 35W/930 GX10 MR16 40D
CMH35/MR16/UVC/942/GX10/SP	-	-
CMH35/MR16/UVC/942/GX10/FL	-	-
CMH35/MR16/UVC/942/GX10/WFL	-	-
CMH20/PAR20/UVC/830/E27/SP8	-	-
CMH20/PAR20/UVC/830/E27/FL25	-	-
CMH35/PAR20/UVC/830/E27/SP10	HCI-PAR20 35W/830 WDL PB SP 10D	CDM-R 35W/830 E27 PAR20L10D
CMH35/PAR20/UVC/830/E27/FL25	HCI-PAR20 35W/830 WDL PB FL 30D	CDM-R 35W/830 E27 PAR20L30D
CMH35/PAR20/UVC/942/E27/SP10	-	CDM-R 35W/942 E27 PAR20L10D
CMH35/PAR20/UVC/942/E27/FL25	-	CDM-R 35W/942 E27 PAR20L30D
CMH20/PAR30/UVC/830/E27/SP10	-	-
CMH20/PAR30/UVC/830/E27/FL25	-	-
CMH35/PAR30/UVC/830/E27/SP10	HCI-PAR30 35W/830 WDL PB SP 10D	CDM-R 35W/830 E27 PAR30L10D
CMH35/PAR30/UVC/830/E27/FL25	HCI-PAR30 35W/830 WDL PB FL 30D	CDM-R 35W/830 E27 PAR30L30D
CMH35/PAR30/UVC/942/E27/SP10	HCI-PAR30 35W/942 NDL PB SP 10D	CDM-R 35W/942 E27 PAR30L10D
CMH35/PAR30/UVC/942/E27/FL25	HCI-PAR30 35W/942 NDL PB FL 30D	CDM-R 35W/942 E27 PAR30L30D
CMH70/PAR30/UVC/830/E27/SP15	HCI-PAR30 70W/830 WDL SP E27	CDM-R 70W/830 E27 PAR30L10D
CMH70/PAR30/UVC/830/E27/FL40	HCI-PAR30 70W/830 WDL FL E27	CDM-R 70W/830 E27 PAR30L40D
CMH70/PAR30/UVC/942/E27/SP15	HCI-PAR30 70W/942 NDL PB SP 10D	CDM-R 70W/942 E27 PAR30L10D

# High Intensity Discharge Lamps

## CMH

Brand cross reference

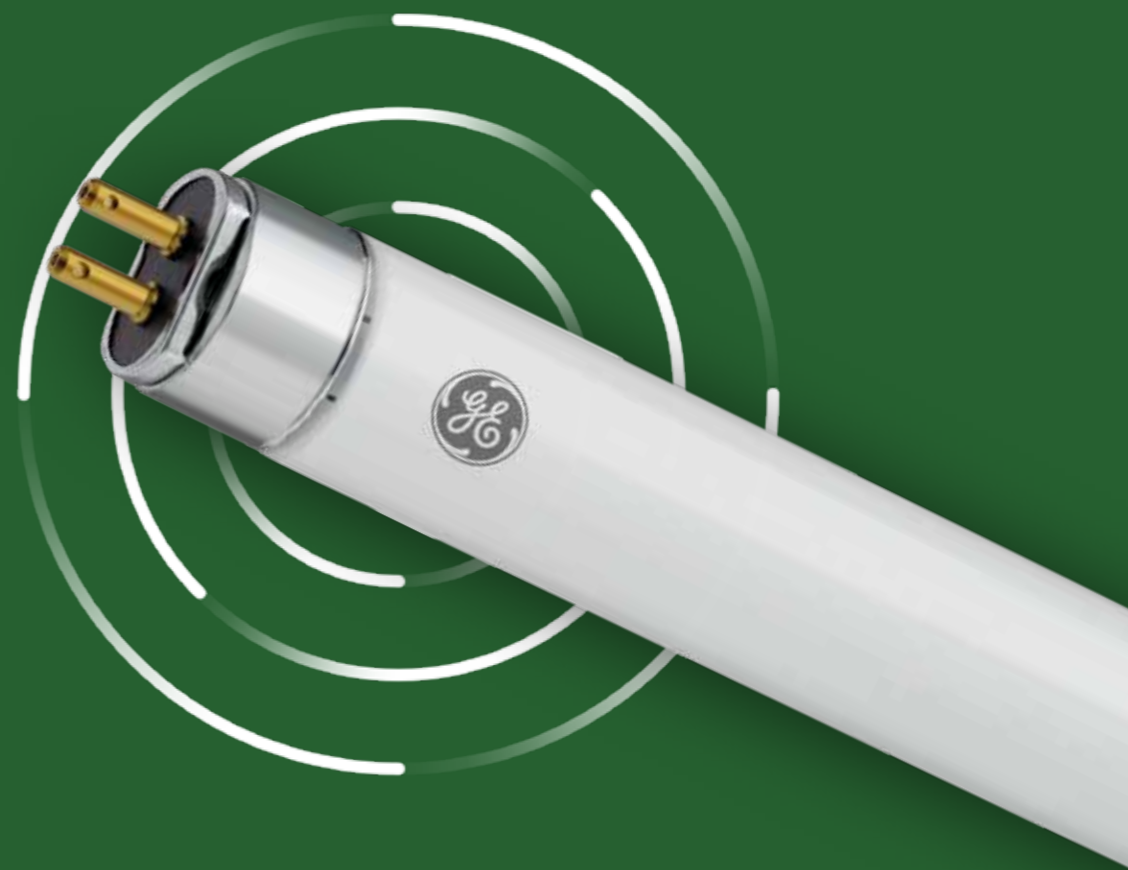
GE Lighting

Osram

Philips

ConstantColor™ CMH		
CMH70/PAR30/UVC/942/E27/FL40	HCI-PAR30 70W/942 NDL PB FL 30D	CDM-R 70W/942 E27 PAR30L40D
CMH70/E/UVC/U/830/E27/D	HCI-ET 70W/830 WDL PB	CDM-ET 70W /830 E27
CMH150/UVC/O/U/942/E27/C	HCI-E/P 150W/942 NDL PBMO CL E27	-
CMH250/E/UVC/U/830/E40/D	HCI-E 250W/830 WDL PB E40	-
CMH50/TT/UVC/U/730/E27 STREETWISE	HCI-TT 50W/830 SUPER 4Y	CDO-TT 50W/828 E27
CMH70/TT/UVC/U/730/E27 STREETWISE	HCI-TT 70W/830 SUPER 4Y	CDO-TT 70W /828 E27
CMH100/TT/UVC/U/730/E40 STREETWISE	HCI-TT 100W/830 SUPER 4Y	CDO-TT 100W /828 E27
CMH150/TT/UVC/U/730/E40 STREETWISE	-	CDO-TT 150W/828 E40
CMH150/UVC/T/U/842/E40	HCI-TT 150/830 WDL PB E40	-
CMH150/UVC/O/T/U/942/E40	HCI-T/P 150W/942 NDL PB E40	-
CMH250/TT/UVC/U/830/E40	HCI-T 250W/830 WDL PB E40	CDO-TT 250W /828 E27
KRC250/CMH/830/T/H/E40	-	-
CMH35/R111/UVC/930/GX8.5/SP10	-	CDM-R111 35W/830 GX8.5 10D
CMH35/R111/UVC/930/GX8.5/FL24	-	CDM-R111 35W/830 GX8.5 24D
CMH35/R111/UVC/930/GX8.5/FL40	-	CDM-R111 35W/830 GX8.5 40D
CMH35/R111/UVC/930/GX8.5/FL40	-	CDM-R111 35W/830 GX8.5 40D





Linear Fluorescent Lamps



# GE Linear Fluorescent Lamps

Linear Fluorescent Lamps – an outstanding choice of lighting solutions

Linear Fluorescent Lamps (LFLs) deliver a versatile, effective and economical lighting solution for applications as varied as office, retail, hospitality, education and industry.

These robust and reliable products offer benefits including long life, energy efficiency, low maintenance and excellent colour rendering, and our extensive range provides the ability to choose precisely the right combination of size, wattage and colour temperature (2700-6500K). This breadth of choice is further enhanced by our energy saving Watt-Miser™ Lamps and high rated life LongLast™ products.

- Energy efficient (40-110 LPW)
- Long lasting – low maintenance requirements
- CRI 85 and outstanding lumen maintenance
- Excellent light distribution
- Dimmability for further cost/energy savings

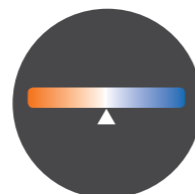
We also offer a choice of enhanced performance products in the form of our energy saving Watt-Miser™ Lamps and high rated life LongLast™ products.



LONG LIFE



REDUCED MAINTENANCE COSTS



WIDE RANGE OF COLOUR TEMPERATURES



## Watt-Miser™ Lamps

- Energy saving LFLs
- Up to 10% energy savings vs. traditional LFL
- Short payback – less than a year
- Exceptional lumen maintenance



## LongLast™ Lamps

- LFLs offering increased service life
- Reduced relamping costs with up to 46 000 hours rated life
- Reduced maintenance costs
- Ideal where luminaires are hard to reach





# Linear Fluorescent Lamps

## Product overview



### WattMiser™ High Efficiency Watt-Miser™

Wattages: 13 – 33W  
Colours: Warm White to Cool White  
CRI (Ra): 85  
Rated life: 25 000 h



### WattMiser™ High Output Watt-Miser™

Wattages: 21 – 76W  
Colours: Warm White to Cool White  
CRI (Ra): 85  
Rated life: 25 000 (30 000) h



### LongLast™ High Efficiency LongLast™

Wattages: 14 – 35W  
Colours: Extra Warm  
White to Daylight  
CRI (Ra): 85  
Rated life: 30 000 h



### LongLast™ High Output LongLast™

Wattages: 24 – 80W  
Colours: Warm White to Daylight  
CRI (Ra): 85  
Rated life: 30 000 h

## T5 Tubes Long



### Specfill Triphosphor

Wattages: 6 – 8W  
Colours: Cool White and Daylight  
CRI (Ra): 80+  
Rated life: 8 000 h



### Specfill Standard

Wattages: 6 – 8W  
Colours: Cool White and White  
CRI (Ra): 52 – 60  
Rated life: 8 000 h



### Triphosphor

Wattages: 8 – 13W  
Colours: Extra Warm  
White to Cool  
White  
CRI (Ra): 80+  
Rated life: 5 000 h



### Standard

Wattages: 4 – 13W  
Colours: Warm White to Cool White  
CRI (Ra): 51-58  
Rated life: 5 000 h

## T5 Tubes Short



### T5 Circline™

Wattages: 22 – 55W  
Colours: Warm White to Cool White  
CRI (Ra): 82  
Rated life: 12 000 h

## Circular Tubes



### WattMiser™ Watt-Miser™

Wattages: 16 – 51W  
Colours: Warm White  
to Daylight  
CRI (Ra): 80+  
Rated life: 15 000 h



### LongLast™ Polylux XLR™ LongLast™

Wattages: 18 – 58W  
Colours: Warm White and  
Cool White  
CRI (Ra): 80+  
Rated life: 28 000 h



### Polylux XLR™

Wattages: 15 – 70W  
Colours: Extra Warm White  
to Daylight  
CRI (Ra): 80+  
Rated life: 15 000 h

## T8 Tubes



### Glow Starters

For wattages: 4 – 125W

## Starters



# Linear Fluorescent Lamps

# Linear Fluorescent Lamps

Model	Wattage (W)	Length (mm)	Diameter (mm)	Product Description	Product Code	Initial Lumen (at 25°C) (lm)	Colour Type	CCT (K)	CRI (Ra)	Rated Average Life (3-hr cycle) (h)	Energy Consumption (kWh)	EEC	Pack Qty
<b>T5 Miniature – Triphosphor, G5 Cap</b>													
1	8	288.3	16	F8W/T5/840/IND	37009	460	Cool White	4000	80+	5 000	8	A	100
<b>T5 Miniature – Standard, G5 Cap</b>													
2	4	135.9	16	F4W/T5/33	39441	130	Cool White	4000	60	5 000	5	B	25
2	6	212.1	16	F6W/T5/35	39442	260	White	3500	54	5 000	6	A	25
2	6	212.1	16	F6W/T5/33	39445	260	Cool White	4000	60	5 000	6	A	25
2	8	288.3	16	F8W/T5/29	37754	395	Warm White	3000	52	5 000	8	A	25
2	8	288.3	16	F8W/T5/35	37756	400	White	3500	54	5 000	8	A	25
2	8	288.3	16	F8W/T5/33	37755	400	Cool White	4000	60	5 000	8	A	25
2	13	516.9	16	F13W/T5/29	39437	850	Warm White	3000	52	5 000	14	A	25
2	13	516.9	16	F13W/T5/35	39439	850	White	3500	54	5 000	14	A	25
2	13	516.9	16	F13W/T5/33	39440	850	Cool White	4000	60	5 000	14	A	25
<b>T5 Circline™ – 2Gx13 Cap</b>													
3	22	230	16	FC22W/T5/830	75709	1 900	Warm White	3000	82	12 000	25	A	10
3	22	230	16	FC22W/T5/840	75720	1 900	Cool White	4000	82	12 000	25	A	10
3	40	305	16	FC40W/T5/830	75712	3 300	Warm White	3000	82	12 000	45	A	10
3	40	305	16	FC40W/T5/840	75713	3 300	Cool White	4000	82	12 000	45	A	10
3	55	305	16	FC55W/T5/830	75717	4 200	Warm White	3000	82	12 000	61	A	10
3	55	305	16	FC55W/T5/840	75718	4 200	Cool White	4000	82	12 000	61	A	10
<b>T8 Watt-Miser™ – G13 Cap</b>													
4	16	589.8	26	F16W/T8/830/WM**	62524	1 300	Warm White	3000	80+	15 000	20	A	25
4	16	589.8	26	F16W/T8/840/WM	62525	1 300	Cool White	4000	80+	15 000	20	A	25
4	16	589.8	26	F16W/T8/860/WM**	62526	1 230	Daylight	6400	80+	15 000	20	A	25
4	32	1 199.4	26	F32W/T8/830/WM**	62527	2 750	Warm White	3000	80+	15 000	37	A	25
4	32	1 199.4	26	F32W/T8/840/WM	62528	2 750	Cool White	4000	80+	15 000	37	A	25
4	32	1 199.4	26	F32W/T8/860/WM**	62529	2 600	Daylight	6400	80+	15 000	38	A	25
4	51	1 500	26	F51W/T8/830/WM**	62570	4 320	Warm White	3000	80+	15 000	59	A	25
4	51	1 500	26	F51W/T8/840/WM	62569	4 320	Cool White	4000	80+	15 000	59	A	25
4	51	1 500	26	F51W/T8/860/WM**	62568	4 120	Daylight	6400	80+	15 000	60	A	25
<b>T8 Polylux XLR™ LongLast™ – G13 Cap</b>													
5	18	589.8	26	F18W/T8/840/LL	62566	1 350	Cool White	4000	80+	28 000	22	A	25
5	36	1 199.4	26	F36W/T8/840/LL	62564	3 350	Cool White	4000	80+	28 000	42	A	25
5	58	1 500	26	F58W/T8/830/LL**	62563	5 200	Warm White	3000	80+	28 000	67	A	25
5	58	1 500	26	F58W/T8/840/LL	62562	5 200	Cool White	4000	80+	28 000	67	A	25

\*\*Will be phased out



1 2 3 4 5



Wattage (W)	Length (mm)	Diameter (mm)	Product Description	Product Code	Initial Lumen (at 25°C) (lm)	Colour Type	CCT (K)	CRI (Ra)	Rated Average Life (3-hr cycle) (h)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>T8 Polylux XLR™ – G13 Cap</b>													
15	437.4	26	F15W/T8/830/POLYLUX	93060903	950	Warm White	3000	80+	15 000	19	B	25	5
15	437.4	26	F15W/T8/835/POLYLUX	93060904	950	White	3500	80+	15 000	19	B	25	5
15	437.4	26	F15W/T8/840/POLYLUX	93060905	950	Cool White	4000	80+	15 000	19	B	25	5
15	437.4	26	F15W/T8/860/POLYLUX	93060906	900	Daylight	6400	80+	15 000	18	B	25	5
18	589.8	26	F18W/T8/827/POLYLUX	62560	1 350	Extra Warm White	2700	80+	15 000	22	A	25	5
18	589.8	26	F18W/T8/830/POLYLUX	62559	1 350	Warm White	3000	80+	15 000	22	A	25	5
18	589.8	26	F18W/T8/835/POLYLUX	62534	1 350	White	3500	80+	15 000	22	A	25	5
18	589.8	26	F18W/T8/840/POLYLUX	62558	1 350	Cool White	4000	80+	15 000	22	A	25	5
18	589.8	26	F18W/T8/860/POLYLUX	62557	1 250	Daylight	6400	80+	15 000	22	A	25	5
30	894.6	26	F30W/T8/830/POLYLUX	62556	2 450	Warm White	3000	80+	15 000	35	A	25	5
30	894.6	26	F30W/T8/835/POLYLUX	62533	2 450	White	3500	80+	15 000	35	A	25	5
30	894.6	26	F30W/T8/840/POLYLUX	62555	2 450	Cool White	4000	80+	15 000	35	A	25	5
30	894.6	26	F30W/T8/860/POLYLUX	14104	2 300	Daylight	6400	80+	15 000	36	A	25	5
36	1 199.4	26	F36W/T8/827/POLYLUX**	62554	3 350	Extra Warm White	2700	80+	15 000	42	A	25	5
36	1 199.4	26	F36W/T8/830/POLYLUX	62553	3 350	Warm White	3000	80+	15 000	42	A	25	5
36	1 199.4	26	F36W/T8/835/POLYLUX	62532	3 350	White	3500	80+	15 000	42	A	25	5
36	1 199.4	26	F36W/T8/840/POLYLUX	62551	3 350	Cool White	4000	80+	15 000	42	A	25	5
36	1 199.4	26	F36W/T8/860/POLYLUX	62552	3 250	Daylight	6400	80+	15 000	43	A	25	5
58	1 500	26	F58W/T8/830/POLYLUX	62549	5 200	Warm White	3000	80+	15 000	68	A	25	5
58	1 500	26	F58W/T8/835/POLYLUX	62531	5 200	White	3500	80+	15 000	68	A	25	5
58	1 500	26	F58W/T8/840/POLYLUX	62548	5 200	Cool White	4000	80+	15 000	68	A	25	5
58	1 500	26	F58W/T8/860/POLYLUX	62547	5 000	Daylight	6400	80+	15 000	68	A	25	5
70	1 763.8	26	F70W/T8/835/POLYLUX	62572	6 000	White	3500	80+	15 000	81	A	25	5
70	1 763.8	26	F70W/T8/840/POLYLUX	62573	6 000	Cool White	4000	80+	15 000	81	A	25	5

\*\*Will be phased out



5



Model	Wattage (W)	Volt (V)	Product Description	Rated Life (switching cycles)	Product Code	Pack Qty
<b>Starter</b>						
1	Series 4-8W, 15-22W	220-240 *	155/200/4-22W/TANDEM/BX	10 000	36711	250
1	Series 4-8W, 15-22W	220-240 *	155/200/4-22W/TANDEM/IND	10 000	36714	2,000
1	Single 4-65W	220-240	155/500 4-65W/UNIV/BX	10 000	36536	250
1	Single 4-65W	220-240	155/500 4-65W/UNIV/IND	10 000	36537	2 000
1	Single 75-125W	220-240	155/800/75-125W/BX	6 000	37864	250
1	Single 75-115W	220-240	155/801/75-115W/IND**	6 000	37974	2,000

\* Single operation 110-130V  
 \*\* Will be phased out



1

GE Lighting	Ostrom	Philips	Sylvania
<b>T5 Watt-Miser™ High Efficiency</b>	<b>Lumilux T5 HE ES</b>	<b>Master TL5 HE Eco</b>	<b>T5 FHE Linear Ecoline</b>
F13W/T5/830/WM	13W/830	—	13W/T5/830
F13W/T5/840/WM	13W/840	13W/840	13W/T5/840
F20W/T5/840/WM	19W/830	—	19W/T5/830
F26W/T5/830/WM	25W/830	25W/830	25W/T5/830
F26W/T5/840/WM	25W/840	25W/840	25W/T5/840
F33W/T5/830/WM	32W/830	—	32W/T5/830
F33W/T5/840/WM	32W/840	32W/840	32W/T5/840
<b>T5 Watt-Miser™ High Output</b>	<b>Lumilux T5 HO ES</b>	<b>Master TL5 HO Eco</b>	<b>T5 FHO Linear Ecoline</b>
F21W/T5/840/WM	20W/840	20W/840	FHE20W/T5/840
F36W/T5/840/WM	34W/840	—	FHE35W/T5/840
F46W/T5/830/WM	45W/830	—	FHE45W/T5/830
F46W/T5/840/WM	45W/840	45W/840	FHE45W/T5/840
F51W/T5/830/WM	50W/830	—	FHE50W/T5/830
F51W/T5/840/WM	50W/840	50W/840	FHE50W/T5/840
F76W/T5/830/WM	73W/830	—	FHE73W/T5/830
F76W/T5/840/WM	73W/840	73W/840	FHE73W/T5/840
<b>T5 LongLast™ High Efficiency</b>	<b>Lumilux T5 HE XT</b>	<b>Master TL5 HE</b>	
F14W/T5/827/LL	—	—	—
F14W/T5/830/LL	—	—	—
F14W/T5/835/LL	—	—	—
F14W/T5/840/LL	—	—	—
F14W/T5/865/LL	—	—	—
F21W/T5/827/LL	—	—	—
F21W/T5/830/LL	—	—	—
F21W/T5/840/LL	—	—	—
F21W/T5/865/LL	—	—	—
F28W/T5/827/LL	—	—	—
F28W/T5/830/LL	—	—	—
F28W/T5/840/LL	—	—	—
F28W/T5/865/LL	—	—	—
F35W/T5/827/LL	—	—	—
F35W/T5/830/LL	—	—	—
F35W/T5/835/LL	—	—	—
F35W/T5/840/LL	HE XT 35W/840	—	—
F35W/T5/865/LL	HE XT 35W/865	—	—
<b>T5 LongLast™ High Output</b>	<b>Lumilux T5 HO XT</b>	<b>Master TL5 HO Xtra</b>	
F24W/T5/830/LL	—	—	—
F24W/T5/835/LL	—	—	—
F24W/T5/840/LL	—	—	—
F24W/T5/865/LL	—	—	—
F39W/T5/830/LL	—	—	—
F39W/T5/840/LL	—	—	—
F49W/T5/830/LL	HO XT 49W/830	—	—
F49W/T5/835/LL	—	—	—
F49W/T5/840/LL	HO XT 49W/840	49W/840	—
F49W/T5/865/LL	HO XT 49W/865	—	—
F54W/T5/830/LL	HO XT 54W/830	—	—
F54W/T5/840/LL	HO XT 54W/840	—	—
F54W/T5/865/LL	HO XT 54W/865	—	—
F80W/T5/830/LL	HO XT 80W/830	—	—
F80W/T5/840/LL	HO XT 80W/840	80W/840	—



# Linear Fluorescent Lamps

Brand cross reference

# Linear Fluorescent Lamps

Brand cross reference

T5-T

GE Lighting	Osram	Philips	Sylvania
<b>T5 Miniature Specfill Triphosphore</b> <small>EMERGENCY LIGHTING</small>	<b>Lumilux T5 Short EL</b>	<b>Master TL Mini Super 80</b>	<b>T5 Emergency</b>
F8W/T5/840/SPECFILL	8W/840	—	F8W/840/SP200
F8W/T5/865/SPECFILL	—	—	—
<b>T5 Miniature Specfill Standard</b> <small>EMERGENCY LIGHTING</small>	<b>Basic T5 Short EL</b>	<b>TL Mini Standard</b>	<b>T5 Emergency</b>
F6W/T5/33/SPECFILL	6W/640	6W/33	F6W/133/SP200
F8W/T5/35/SPECFILL	—	—	—
F8W/T5/33/SPECFILL	8W/640	8W/33	F8W/133/SP200
<b>T5 Miniature Standard</b>	<b>Basic T5 short</b>		<b>T5 Standard</b>
F4W/T5/35	—	—	F4W/135
F4W/T5/33	L4W/640	—	F4W/133
F6W/T5/35	—	—	F6W/135
F6W/T5/33	L6W/640	—	F6W/133
F8W/T5/29	—	—	—
F8W/T5/35	L8W/535	—	F8W/135
F8W/T5/33	L8W/640	—	F8W/133
F13W/T5/29	—	—	F13W/129
F13W/T5/35	—	—	F13W/135
F13W/T5/33	L13W/640	—	F13W/133
<b>T5 Circline™</b>	<b>Lumilux T5 FC</b>	<b>Master TL5 Circular</b>	<b>T5 Circline Plus</b>
FC22W/T5/830	FC22W/830	22W/830	22W/830
FC22W/T5/840	FC22W/840	22W/840	22W/840
FC40W/T5/830	FC40W/830	40W/830	40W/830
FC40W/T5/840	FC40W/840	40W/840	40W/840
FC55W/T5/830	FC55W/830	55W/830	55W/830
FC55W/T5/840	FC55W/840	55W/840	55W/840
<b>T8 Watt-Miser™</b>	<b>Lumilux T8 ES</b>	<b>Master TL-D Eco</b>	<b>T8 Luxline Eco</b>
F16W/T8/830/WM	16W/830 ES	—	—
F16W/T8/840/WM	16W/840 ES	16W/840	—
F16W/T8/860/WM	—	—	—
F32W/T8/830/WM	32W/830 ES	—	F32W/830
F32W/T8/840/WM	32W/840 ES	32W/840	F32W/840
F32W/T8/860/WM	—	—	F32W/865
F51W/T8/830/WM	51W/830 ES	—	F51W/830
F51W/T8/840/WM	51W/840 ES	51W/840	F51W/840
F51W/T8/860/WM	—	—	F51W/865

LFL

GE Lighting	Osram	Philips	Sylvania
<b>T8 Polylux XLR™ LongLast™</b>	<b>Lumilux XT T8</b>	<b>Master TL-D Xtra</b>	
F18W/T8/830/POLYLUX/LL	L18W/830XT	18W/830	—
F18W/T8/840/POLYLUX/LL	L18W/840XT	18W/840	—
F36W/T8/830/POLYLUX/LL	L36W/830XT	36W/830	—
F36W/T8/840/POLYLUX/LL	L36W/840XT	36W/840	—
F58W/T8/830/POLYLUX/LL	L58W/830XT	58W/830	—
F58W/T8/840/POLYLUX/LL	L58W/840XT	58W/840	—
<b>T8 Polylux XLR™</b>	<b>Lumilux T8</b>	<b>Master TL-D Super 80</b>	<b>T8 Luxline Plus</b>
F15W/T8/830/POLYLUX	L15W/830	15W/830	F15W/830
FF15W/T8/835 POLYLUX	—	—	F15W/835
F15W/T8/840/POLYLUX	L15W/840	15W/840	F15W/840
F15W/T8/860/POLYLUX	L15W/860	—	F15W/865
F18W/T8/827/POLYLUX	L18W/827	18W/827	F18W/827
F18W/T8/830/POLYLUX	L18W/830	18W/830	F18W/830
F18W/T8/835/POLYLUX	L18W/835	18W/835	F18W/835
F18W/T8/840/POLYLUX	L18W/840	18W/840	F18W/840
F18W/T8/860/POLYLUX	L18W/865	18W/865	F18W/865
F30W/T8/830/POLYLUX	L30W/830	30W/830	F30W/830
F30W/T8/835/POLYLUX	—	—	F30W/835
F30W/T8/840/POLYLUX	L30W/840	30W/840	F30W/840
F30W/T8/860/POLYLUX	L30W/865	—	F30W/865
F36W/T8/827/POLYLUX	L36W/827	36W/827	F36W/827
F36W/T8/830/POLYLUX	L36W/830	36W/830	F36W/830
F36W/T8/835/POLYLUX	L36W/835	36W/835	F36W/835
F36W/T8/840/POLYLUX	L36W/840	36W/840	F36W/840
F36W/T8/860/POLYLUX	L36W/865	36W/865	F36W/865
F58W/T8/827/POLYLUX	L58W/827	58W/827	F58W/827
F58W/T8/830/POLYLUX	L58W/830	58W/830	F58W/830
F58W/T8/835/POLYLUX	L58W/835	58W/835	F58W/835
F58W/T8/840/POLYLUX	L58W/840	58W/840	F58W/840
F58W/T8/860/POLYLUX	L58W/865	58W/865	F58W/860
F70W/T8/835/POLYLUX	L70W/835	70W/835	F70W/835
F70W/T8/840/POLYLUX	L70W/840	70W/840	F70W/840



# Compact Fluorescent Lamps Non-Integrated



# Compact Fluorescent Lamps Non-Integrated

CFL Non-Integrated

CFLs (Non-Integrated) – attractive, efficient and long-lasting

Offering significant energy savings compared with previous technologies, Compact Fluorescent Lamps (CFL) can deliver major reductions in energy consumption and CO2 emissions, helping to reduce the environmental impact of lighting. These lamps also offer a versatile, high quality solution when space is at a premium, with low maintenance requirements and long service life for low cost of ownership.

We offer a comprehensive range of CFL products to meet different requirements, including energy saving Watt-Miser™ Lamps and the low maintenance, extended life LongLast™ range.

- Efficient technology for reduced energy consumption
- Wide range of colour and wattage (2700-6500K, 5-70W)
- Long rated life for low cost of ownership
- Motion detection available with selected drivers
- Wide choice of models for different applications
- Dimmability for further cost/energy savings



LONG LIFE



REDUCED MAINTENANCE COSTS



REDUCED CO<sub>2</sub> EMISSION



## CFL Watt-Miser™ Lamps

- 2D™ Watt-Miser™ Lamps are direct replacements for standard 2D™ lamps (16/21/28/38W)
- Compatible with existing control gear for additional energy saving
- 2D shape suitable for broad range of applications – ideal for circular light distribution
- 'A' class energy rating – 5 – 12% extra energy saving
- Market leading life performance up to 15 000 hours

Application areas:

- Residential
- Domestic
- Hotels/motels/restaurants
- Utility areas
- Task lighting
- Emergency lighting

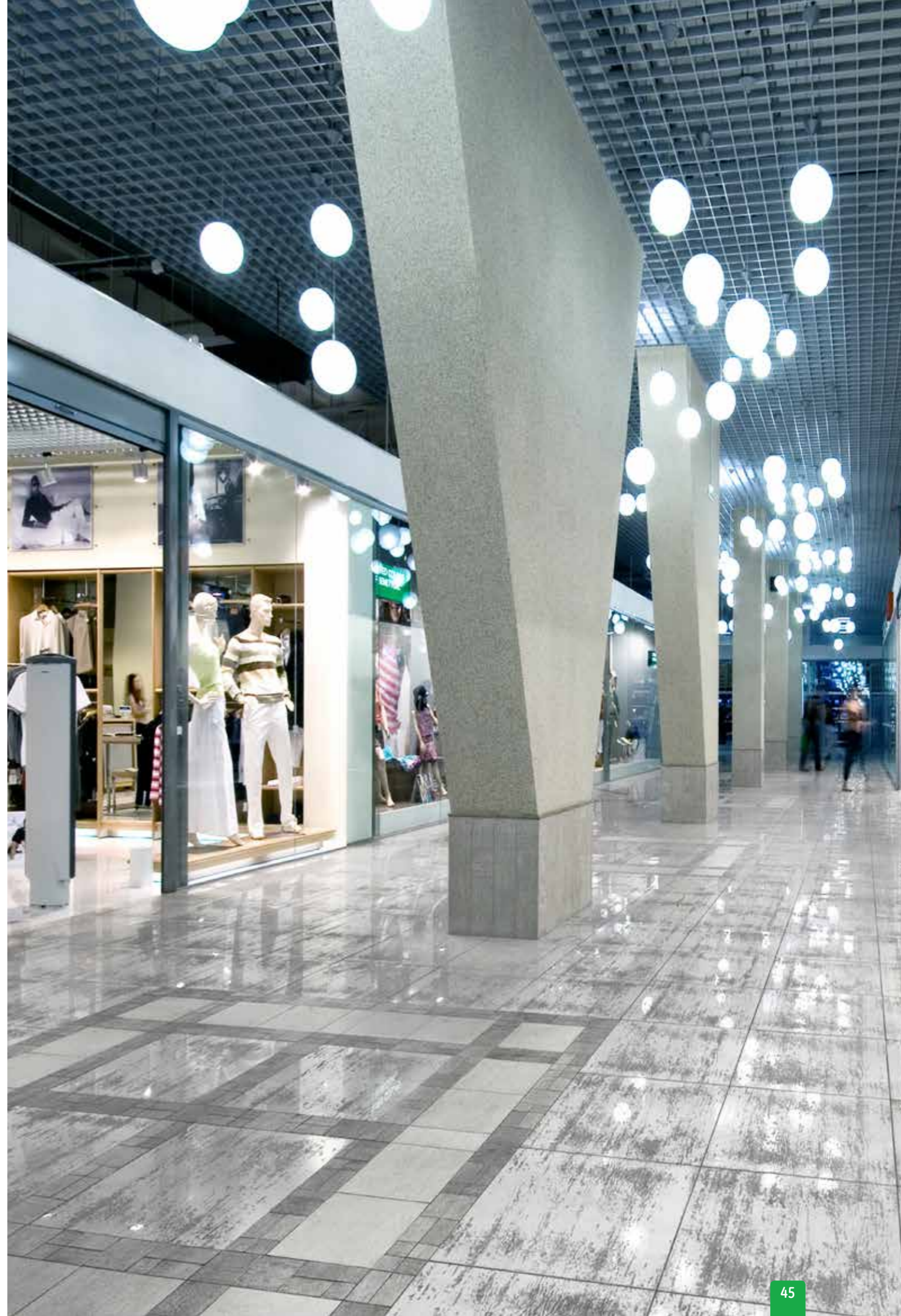


## CFL LongLast™ Lamps

- Long service life up to 20 000 hours for significantly reduced replacement and maintenance costs
- Double, triple and quad tube (D/E, T/E, Q/E) options
- Ideal light source for small fixtures and downlighters
- Recommended control gear list and additional technical details (data sheets) at [www.gelighting.com/eu](http://www.gelighting.com/eu)

Application areas:

- Downlighting
- Corridor lighting
- Office buildings
- Hotels/motels
- Restaurants
- Retail



CFL Non-Integrated

# Compact Fluorescent Lamps Non-Integrated

## Product overview

CFL Non-Integrated



### Biax™ S – 2-pin

Cap: G23  
Wattages: 5-7-9-11W  
Colours: 2700 – 6500K  
Rated life: 10 000 h



### Biax™ S/E – 4-pin

Cap: 2G7  
Wattages: 5-7-9-11W  
Colours: 2700 – 6500K  
Rated life: 10 000 h  
11W version available in Red/  
Green/Blue colours.

Biax™ S



**LongLast™**

### Biax™ Q/E – 4-pin

Cap: GX24q  
Wattages: 57 – 70W  
Colours: 2700 – 4000K  
Rated life: 20 000 h

Biax™ Q



**LongLast™**

### Biax™ L – 4-pin

Cap: 2G11  
Wattages: 18 – 55W  
Colours: 2700 – 6500K  
Rated life: 15 000 – 22 500 h

Biax™ L

CFL Non-Integrated



### Biax™ D – 2-pin

Cap: G24d  
Wattages: 10-13-18-26W  
Colours: 2700 – 6500K  
Rated life: 12 000 h

Biax™ D



**LongLast™**

### Biax™ D/E – 4-pin

Cap: G24q  
Wattage: 10-13-18-26W  
Colours: 2700 – 6500K  
Rated life: 20 000 h



**WattMiser™**

### 2D™ Watt-Miser™

Cap: GR8, GR10q  
Wattages: 16 – 38W  
Colours: 2700 – 6000K  
Rated life: 12 000 – 15 000 h



### Biax 2D™

Cap: GR10q-3  
Wattages: 55W  
Colours: 2700 – 3500K  
Rated life: 10 000 h

2D™



**LongLast™**

### Biax™ T – 2-pin

Cap: GX24d  
Wattages: 13-18-26W  
Colours: 2700 – 4000K  
Rated life: 12 000 h

Biax™ T



**LongLast™**

### Biax™ T/E – 4-pin

Cap: GX24q  
Wattages: 13-18-26-32-42W  
Colours: 2700 – 4000K  
Rated life: 12 000 – 20 000 h









# Compact Fluorescent Lamps Non-Integrated

# Compact Fluorescent Lamps Non-Integrated

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>2D™ Watt-Miser™</b>														
1	16	103	GR8	F162D/T4/827/2P GE HB 1/10 WM	85135	1 100	2700	82	12 000	138	142	18.8	A	10
1	16	103	GR8	F162D/T4/835/2P GE HB 1/10 WM	85138	1 100	3500	82	12 000	138	142	18.8	A	10
1	16	103	GR10q	F162D/T4/827/4P GE HB 1/10 WM	85141	1 100	2700	82	12 000	138	142	15.4	A	10
1	16	103	GR10q	F162D/T4/835/4P GE HB 1/10 WM	85142	1 100	3500	82	12 000	138	142	15.4	A	10
1	16	103	GR8	F162D/T4/860/2P GE HB 1/10 WM	85140	1 050	6000	82	12 000	138	142	18.8	A	10
1	21	103	GR10q	F212D/T4/827/4P GE HB 1/10 WM	85143	1 375	2700	82	12 000	138	142	20.9	A	10
1	21	103	GR10q	F212D/T4/835/4P GE HB 1/10 WM	85144	1 375	3500	82	12 000	138	142	20.9	A	10
1	21	103	GR10q	F212D/T4/860/4P GE HB 1/10 WM	85145	1 305	6000	82	12 000	138	142	20.9	A	10
1	28	108	GR8	F282D/T5/827/2P GE HB 1/10 WM	85109	2 150	2700	82	15 000	202	204	31.8	A	20
1	28	108	GR10q	F282D/T5/827/4P GE HB 1/10 WM	85118	2 150	2700	82	15 000	202	204	27	A	20
1	28	108	GR10q	F282D/T5/830/4P GE HB 1/10 WM	85120	2 150	3000	82	15 000	202	204	27	A	20
1	28	108	GR10q	F282D/T5/835/4P GE HB 1/10 WM	85130	2 150	3500	82	15 000	202	204	27	A	20
1	28	108	GR10q	F282D/T5/840/4P GE HB 1/10 WM	85132	2 150	4000	82	15 000	202	204	27	A	20
1	38	110	GR10q	F382D/T5/827/4P GE HB 1/10 WM	85133	3 020	2700	82	15 000	202	204	38	A	10
1	38	110	GR10q	F382D/T5/835/4P GE HB 1/10 WM	85134	3 020	3500	82	15 000	202	204	38	A	10
1	38	110	GR10q	F382D/T5/860/4P LEG HB 1/10 WM	85151	2 860	6000	82	15 000	202	204	38	A	10
<b>Biax™ 2D™</b>														
2	55	98	GR10q3	F552D/T5/827/4P A LEG HB 1/10	85148	3 900	2700	82	10 000	202	204	61.6	A	10
2	55	98	GR10q3	F552D/T5/830/4P A/T LEG HB 1/10	85149	3 900	3000	82	10 000	202	204	61.6	A	10
2	55	98	GR10q3	F552D/T5/835/4P A LEG HB 1/10	85150	3 900	3500	82	10 000	202	204	61.6	A	10
2	55	98	GR10q3	F552D/T5/830/4P	78339	3 900	3000	82	10 000	202	204	61.6	A	20



1

2



# Compact Fluorescent Lamps Non-Integrated

Brand cross reference

# Compact Fluorescent Lamps Non-Integrated

Brand cross reference

CFL Non-Integrated

GE Lighting		Osram	Philips	Sylvania	
Biax™ S 2-pin		Colour Temperature	Dulux S	Master PL-S 2	Lynx-S
5W	F5BX/827	2700	DULUX S 5W/827	PL-S 5W/827/2P	Lynx S 5W/827
	F5BX/840	4000	DULUX S 5W/840	—	Lynx S 5W/840
7W	F7BX/827	2700	DULUX S 7W/827	PL-S 7W/827/2P	Lynx S 7W/827
	F7BX/830	3000	DULUX S 7W/830	—	Lynx S 7W/830
	F7BX/835	3500	DULUX S 7W/835	—	—
	F7BX/840	4000	DULUX S 7W/840	PL-S 7W/840/2P	Lynx S 7W/840
	F7BX/865	6500	DULUX S 7W/865	—	—
9W	F9BX/827	2700	DULUX S 9W/827	PL-S 9W/827/2P	Lynx S 9W/827
	F9BX/830	3000	DULUX S 9W/830	PL-S 9W/830/2P	Lynx S 9W/830
	F9BX/835	3500	DULUX S 9W/835	—	—
	F9BX/840	4000	DULUX S 9W/840	PL-S 9W/840/2P	Lynx S 9W/840
	F9BX/865	6500	DULUX S 9W/865	—	—
11W	F11BX/827	2700	DULUX S 11W/827	PL-S 11W/827/2P	Lynx S 11W/827
	F11BX/830	3000	DULUX S 11W/830	—	Lynx S 11W/830
	F11BX/835	3500	—	—	—
	F11BX/840	4000	DULUX S 11W/840	PL-S 11W/840/2P	Lynx S 11W/840
	F11BX/865	6500	DULUX S 11W/865	—	—
	—	—	DULUX S 9W/Red	—	—
	—	—	DULUX S 9W/Green	—	—
—	—	DULUX S 9W/Blue	—	—	
Biax™ S/E 4-pin		Colour Temperature	Dulux-SE	Master PL-S 4	Lynx — SE
5W	F5BX/827/4P	2700	—	PL-S 5W/827/4P	Lynx SE 5W/827
	F5BX/840/4P	4000	—	PL-S 5W/840/4P	Lynx SE 5W/840
7W	F7BX/827/4P	2700	DULUX S/E 7W/827	PL-S 7W/827/4P	Lynx SE 7W/827
	F7BX/840/4P	4000	DULUX S/E 7W/840	PL-S 7W/840/4P	Lynx SE 7W/840
9W	F9BX/827/4P	2700	DULUX S/E 9W/827	PL-S 9W/827/4P	Lynx SE 9W/827
	F9BX/830/4P	3000	DULUX S/E 9W/830	—	Lynx SE 9W/830
	F9BX/840/4P	4000	DULUX S/E 9W/840	PL-S 9W/840/4P	Lynx SE 9W/840
11W	F11BX/827/4P	2700	DULUX S/E 11W/827	PL-S 11W/827/4P	Lynx SE 11W/827
	F11BX/827/4P	3000	DULUX S/E 11W/830	—	Lynx SE 11W/830
	F11BX/840/4P	4000	DULUX S/E 11W/840	PL-S 11W/840/4P	Lynx SE 11W/840
	F11BX/865/4P	6500	—	—	—
	F11BX/Red	—	—	—	—
	F11BX/Green	—	—	—	—
F11BX/Blue	—	—	—	—	
Biax™ D 2-pin		Colour Temperature	Dulux-D	Master PL-C	Lynx-D
10W	F10DBX/827	2700	DULUX D 10W/827	PL-C 10W/827/2P	Lynx D 10W/827
	F10DBX/830	3000	DULUX D 10W/830	PL-C 10W/830/2P	Lynx D 10W/830
	F10DBX/840	4000	DULUX D 10W/840	PL-C 10W/840/2P	Lynx D 10W/840
13W	F10DBX/865	6500	DULUX D 10W/865	—	Lynx D 10W/865
	F13DBX/827	2700	DULUX D 13W/827	PL-C 13W/827/2P	Lynx D 13W/827
	F13DBX/830	3000	DULUX D 13W/830	PL-C 13W/830/2P	Lynx D 13W/830
	F13DBX/840	4000	DULUX D 13W/840	PL-C 13W/840/2P	Lynx D 13W/840
18W	F13DBX/865	6500	DULUX D 13W/865	—	Lynx D 13W/865
	F18DBX/827	2700	DULUX D 18W/827	PL-C 18W/827/2P	Lynx D 18W/827
	F18DBX/830	3000	DULUX D 18W/830	PL-C 18W/830/2P	Lynx D 18W/830
	F18DBX/835	3500	DULUX D 18W/835	—	Lynx D 18W/835
	F18DBX/840	4000	DULUX D 18W/840	PL-C 18W/840/2P	Lynx D 18W/840
F18DBX/865	6500	DULUX D 18W/865	—	Lynx D 18W/865	

CFL Non-Integrated

GE Lighting		Osram	Philips	Sylvania	
Biax™ D 2-pin		Colour Temperature	Dulux-D	Master PL-C	Lynx-D
26W	F26DBX/827	2700	DULUX D 26W/827	PL-C 26W/827/2P	Lynx D 26W/827
	F26DBX/830	3000	DULUX D 26W/830	PL-C 26W/830/2P	Lynx D 26W/830
26W	F26DBX/835	3500	DULUX D 26W/835	PL-C 26W/835/2P	Lynx D 26W/835
	F26DBXT4/SPX41/840	4000	DULUX D 26W/840	PL-C 26W/840/2P	Lynx D 26W/840
	F26DBXT4/SPX65/865	6500	DULUX D 26W/865	PL-C 26W/865/2P	Lynx D 26W/865
Biax™ D/E 4-pin		Colour Temperature	Dulux-DE	Master PL-C	Lynx-DE
10W	F10DBX/827/4P/EOL	2700	DULUX D/E 10W/827	PL-C 10W/827/4P	Lynx DE 10W/827
	F10DBX/830/4P/EOL	3000	DULUX D/E 10W/830	PL-C 10W/830/4P	Lynx DE 10W/830
	F10DBX/840/4P/EOL	4000	DULUX D/E 10W/840	PL-C 10W/840/4P	Lynx DE 10W/840
13W	F13DBX/827/4P/EOL	2700	DULUX D/E 13W/827	PL-C 13W/827/4P	Lynx DE 13W/827
	F13DBX/830/4P/EOL	3000	DULUX D/E 13W/830	PL-C 13W/830/4P	Lynx DE 13W/830
	F13DBX/840/4P/EOL	4000	—	PL-C 13W/840/4P	Lynx DE 13W/840
18W	F13DBX/865/4P/EOL	6500	—	—	Lynx DE 13W/865
	F18DBX/827/4P/EOL	2700	DULUX D/E 18W/827	PL-C 18W/827/4P	Lynx DE 18W/827
	F18DBX/830/4P/EOL	3000	DULUX D/E 18W/830	PL-C 18W/830/4P	Lynx DE 18W/830
	F18DBX/835/4P/EOL	3500	DULUX D/E 18W/835	—	Lynx DE 18W/835
	F18DBX/840/4P/EOL	4000	DULUX D/E 18W/840	PL-C 18W/840/4P	Lynx DE 18W/840
26W	F18DBX/865/4P/EOL	6500	DULUX D/E 18W/865	—	Lynx DE 18W/865
	F26DBX/827/4P/EOL	2700	DULUX D/E 26W/827	PL-C 26W/827/4P	Lynx DE 26W/827
	F26DBX/830/4P/EOL	3000	DULUX D/E 26W/830	PL-C 26W/830/4P	Lynx DE 26W/830
	F26DBX/835/4P/EOL	3500	DULUX D/E 26W/835	PL-C 26W/835/4P	Lynx DE 26W/835
26W	F26DBX/840/4P/EOL	4000	DULUX D/E 26W/840	PL-C 26W/840/4P	Lynx DE 26W/840
	F26DBX/865/4P/EOL	6500	DULUX D/E 26W/865	—	Lynx DE 26W/865
	F26DBX/865/4P/EOL	6500	DULUX D/E 26W/865	—	Lynx DE 26W/865
Biax™ T 2-pin		Colour Temperature	Dulux T Plus	Master PL-T	Lynx-T
13W	F13TBX/827/A/2P	2700	—	PL-T 13W/827/2P	—
	F13TBX/830/A/2P	3000	DULUX T 13W/830	PL-T 13W/830/2P	—
	F13TBX/840/A/2P	4000	DULUX T 13W/840	PL-T 13W/840/2P	—
18W	F18TBX/827/A/2P	2700	DULUX T 18W/827	PL-T 18W/827/2P	—
	F18TBX/830/A/2P	3000	DULUX T 18W/830	PL-T 18W/830/2P	Lynx T 18W/830
	F18TBX/840/A/2P	4000	DULUX T 18W/840	PL-T 18W/840/2P	Lynx T 18W/840
26W	F26TBX/827/A/2P	2700	DULUX T 26W/827	PL-T 26W/827/2P	—
	F26TBX/830/A/2P	3000	DULUX T 26W/830	PL-T 26W/830/2P	Lynx T 26W/830
	F26TBX/840/A/2P	4000	DULUX T 26W/840	PL-T 26W/840/2P	Lynx T 26W/840
Biax™ T/E 4-pin		Colour Temperature	Dulux T/E Plus	Master PL-T 4-pin	Lynx- TE
13W	F13TBX/827/A/4P/EOL	2700	DULUX T/E 13W/827	PL-T 13W/827/4P	—
	F13TBX/830/A/4P/EOL	3000	DULUX T/E 13W/830	PL-T 13W/830/4P	—
	F13TBX/835/A/4P/EOL	3500	—	—	—
18W	F13TBX/840/A/4P/EOL	4000	DULUX T/E 13W/840	PL-T 13W/840/4P	—
	F18TBX/827/A/4P/EOL	2700	DULUX T/E 18W/827	PL-T 18W/827/4P	—
	F18TBX/830/A/4P/EOL	3000	DULUX T/E 18W/830	PL-T 18W/830/4P	Lynx TE 18W/830
26W	F18TBX/835/A/4P/EOL	3500	—	—	—
	F18TBX/840/A/4P/EOL	4000	DULUX T/E 18W/840	PL-T 18W/840/4P	Lynx TE 18W/840
	F26TBX/827/A/4P/EOL	2700	DULUX T/E 26W/827	PL-T 26W/827/4P	—
26W	F26TBX/830/A/4P/EOL	3000	DULUX T/E 26W/830	PL-T 26W/830/4P	Lynx TE 26W/830
	F26TBX/835/A/4P/EOL	3500	—	—	—
	F26TBX/840/A/4P/EOL	4000	DULUX T/E 26W/840	PL-T 26W/840/4P	Lynx TE 26W/840
32W	F32TBX/827/A/4P/EOL	2700	DULUX T/E 32W/827	PL-T 32W/827/4P	—
	F32TBX/830/A/4P/EOL	3000	DULUX T/E 32W/830	PL-T 32W/830/4P	Lynx TE 32W/830
	F32TBX/835/A/4P/EOL	3500	—	—	—

# Compact Fluorescent Lamps Non-Integrated

Brand cross reference

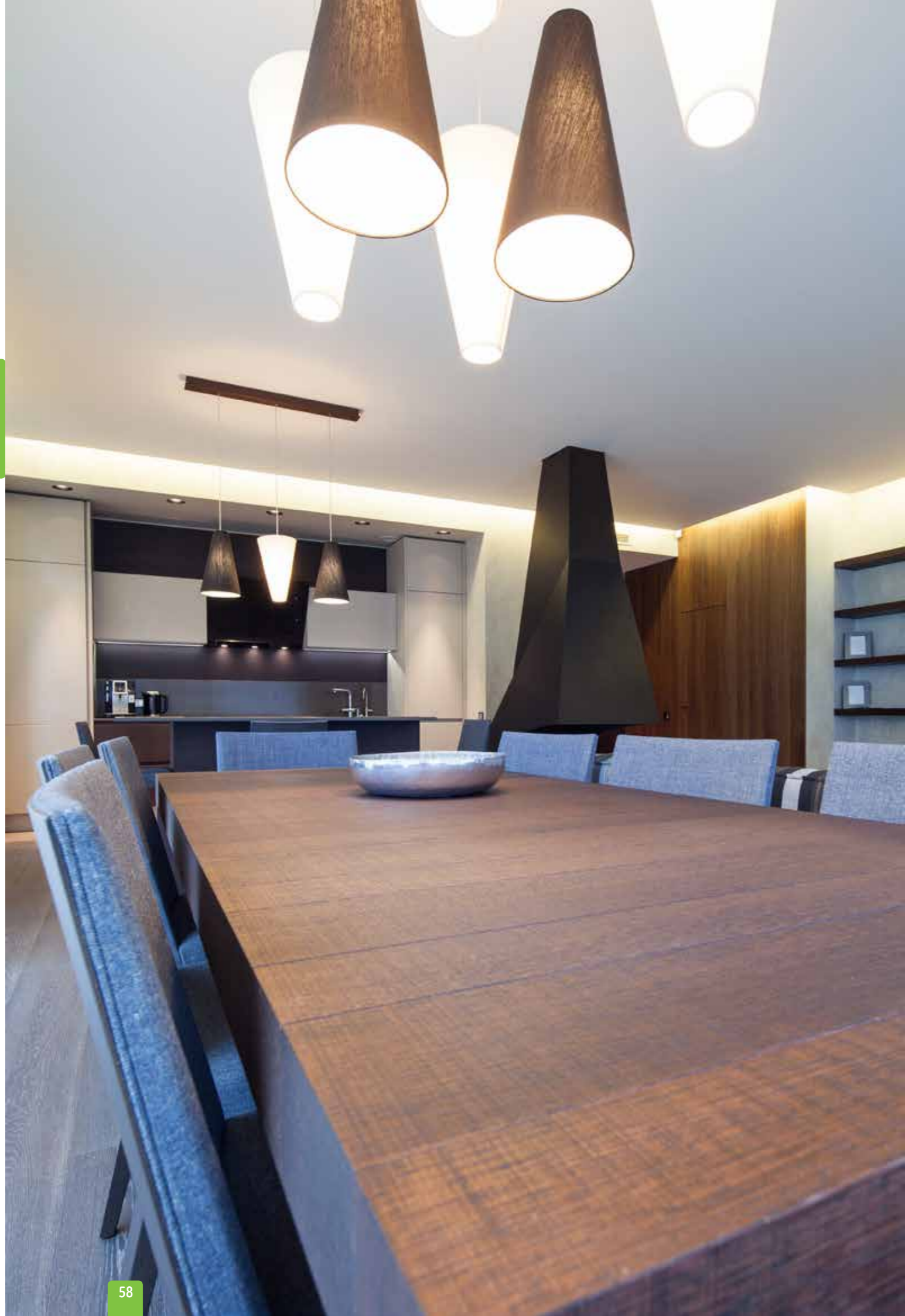
GE Lighting		Osrnam	Philips	Sylvania	
Biax™ T/E 4-pin		Dulux T/E Plus	Master PL-T 4p0in	Lynx- TE	
	F32TBX/840/A/4P/EOL	4000	DULUX T/E 32W/840	PL-T 32W/840/4P	Lynx TE 32W/840
42W	F42TBX/827/A/4P/EOL	2700	DULUX T/E 42W/827	PL-T 42W/827/4P	—
	F42TBX/830/A/4P/EOL	3000	DULUX T/E 42W/830	PL-T 42W/830/4P	Lynx TE 42W/830
	F42TBX/841/A/4P/EOL	3500	—	—	—
	F42TBX/835/A/4P/EOL	4000	DULUX T/E 42W/840	PL-T 42W/830/4P	Lynx TE 42W/840
Biax™ Q/E 4-pin		Dulux T/E	PL-T	Lynx- TE t	
57W	F57QBX/827/A/4P/EOL	2700	—	PL-T 57W/827/4P	—
	F57QBX/830/A/4P/EOL	3000	—	PL-T 57W/830/4P	—
	F57QBX/835/A/4P/EOL	3500	—	—	—
	F57QBX/840/A/4P/EOL	4000	—	PL-T 57W/840/4P	—
70W	F70QBX/830/A/4P/EOL	3000	—	—	—
	F70QBX/835/A/4P/EOL	3500	—	—	—
	F70QBX/840/A/4P/EOL	4000	—	—	—
Biax™ L 4-pin		Dulux-L	PL-L	Lynx L & Lynx-LE	
18W	F18BX/827	2700	—	Lynx L 18W/827	
	F18BX/830	3000	DULUX L 18W/830	PL-L 18W/830/4P	Lynx L 18W/830
	F18BX/835	3500	DULUX L 18W/835	PL-L 18W/835/4P	—
	F18BX/840	4000	DULUX L 18W/840	PL-L 18W/840/4P	Lynx L 18W/840
24W	F24BX/827	2700	DULUX L 24W/827	—	Lynx L 24W/827
	F24BX/830	3000	DULUX L 24W/830	PL-L 24W/830/4P	Lynx L 24W/830
	F24BX/835	3500	DULUX L 24W/835	PL-L 24W/835/4P	—
	F24BX/840	4000	DULUX L 24W/840	PL-L 24W/840/4P	Lynx L 24W/840
34W	F34BX/830	3000	—	—	—
	F34BX/835	3500	—	—	—
	F34BX/840	4000	—	—	—
36W	F36BX/827	2700	DULUX L 36W/827	—	Lynx L 36W/827
	F36BX/830	3000	DULUX L 36W/830	PL-L 36W/830/4P	Lynx L 36W/830
	F36BX/835	3500	DULUX L 36W/835	—	—
	F36BX/840	4000	DULUX L 36W/840	PL-L 36W/840/4P	Lynx L 36W/840
	F36BX/865	6500	DULUX L 36W/865	PL-L 36W/865/4P	Lynx L 36W/865
40W	F40BX/830	3000	DULUX L 40W/830	PL-L 40W/830/4P	Lynx LE 40W/830
	F40BX/835	3500	DULUX L 40W/835	PL-L 40W/835/4P	Lynx LE 40W/835
	F40BX/840	4000	DULUX L 40W/840	PL-L 40W/840/4P	Lynx LE 40W/840
55W	F55BX/830	3000	DULUX L 55W/830	PL-L 55W/830/4P	Lynx LE 55W/830
	F55BX/835	3500	DULUX L 55W/835	PL-L 55W/835/4P	Lynx LE 55W/835
	F55BX/840	4000	DULUX L 55W/840	PL-L 55W/840/4P	Lynx LE 55W/840
	F55BX/854	6500	DULUX L 55W/865	PL-L 55W/865/4P	Lynx LE 55W/865

# Compact Fluorescent Lamps Non-Integrated

Brand cross reference

GE Lighting		Osrnam	Philips	Sylvania	
Biax™ 2D 2-pin		ColourTemperature	PL-Q 2-pin	Lynx-Q (GR8 base) 2 pin	
16W	F162D/T4/827/2P GE HB 1/10 WM	2700	CFL Square 16W/827	PLQ 16W/827/2P	Lynx-Q 16W/827/2P
	F162D/T4/835/2P GE HB 1/10 WM	3500	CFL Square 16W/835	PLQ 16W/835/2P	Lynx-Q 16W/835/2P
	F162D/T4/860/2P GE HB 1/10 WM	6000	—	—	—
28W	F282D/T5/827/2P GE HB 1/10 WM	2700	CFL Square 28W/827	—	—
Biax™ 2D 4-pin		ColourTemperature	PL-Q 4-pin	Lynx-QE 4 pin	
10W	OT F10W/2D/827/4P GE BL 1/20	2700	—	—	
	OT F10W/2D/835/4P GE BL 1/20	3500	—	—	
16W	F162D/T4/827/4P GE HB 1/10 WM	2700	CFL Square 16W/827	PLQ 16W/827/4P	Lynx-QE 16W/827/4P
	F162D/T4/835/4P GE HB 1/10 WM	3500	CFL Square 16W/835	PLQ 16W/835/4P	Lynx-QE 16W/835/4P
21W	F212D/T4/827/4P GE HB 1/10 WM	2700	—	—	—
	F212D/T4/835/4P GE HB 1/10 WM	3500	—	—	—
	F212D/T4/860/4P GE HB 1/10 WM	6000	—	—	—
28W	F282D/T5/827/4P GE HB 1/10 WM	2700	CFL Square 28W/827	PLQ 28W/827/4P	Lynx-QE 28W/827/4P
	F282D/T5/830/4P GE HB1/10 WM	3000	—	PLQ 28W/830/4P	---
	F282D/T5/835/4P GE HB 1/10 WM	3500	CFL Square 28W/835	PLQ 28W/835/4P	Lynx-QE 28W/835/4P
	F282D/T5/840/4P GE HB 1/10 WM	4000	—	PLQ 28W/840/4P	Lynx-QE 28W/840/4P
38W	F382D/T5/827/4P GE HB 1/10 WM	2700	CFL Square 38W/827	PLQ 38W/827/4P	Lynx-QE 38W/827/4P
	F382D/T5/835/4P GE HB 1/10 WM	3500	—	PLQ 38W/835/4P	Lynx-QE 38W/835/4P
	F382D/T5/860/4P LEG HB 1/10 WM	6000	—	—	—
55W	F552D/T5/827/4P A LEG HB 1/10	2700	—	—	—
	F552D/T5/830/4P A/T LEG HB 1/10	3000	—	—	—
	F552D/T5/835/4P A LEG HB 1/10	3500	—	—	—





Compact Fluorescent Lamps Integrated



## Compact Fluorescent Lamps Integrated

CFLs (Integrated)  
– versatile, energy  
efficient lighting

Our extensive range of integrated Compact Fluorescent Lamps (CFL) provides an attractive and versatile lighting solution in a choice of sizes, shapes (e.g. spiral, stick, decorative) and caps.

Offering an efficient, high quality replacement for older technologies across most applications – including domestic, office, retail and hospitality – CFLs combine high quality lighting and instant-on, flicker-free light with impressive energy efficiency. The benefits of this low energy consumption and a reduction in CO<sub>2</sub> emissions are further enhanced by a rated life of up to 15 000 hours, resulting in a low total cost of ownership and reduced maintenance requirements.

Our ranges include products with colour temperatures from 2700-6500K, and are available in decor incandescent sizes and lookalike shapes (e.g. Spiral T2, Stick T3), with both ES and BC caps.



LONG RATED LIFE FROM  
6 000 TO 15 000 HOURS



UP TO 80%  
ENERGY SAVINGS



REDUCED CO<sub>2</sub> EMISSIONS  
VS. OLDER TECHNOLOGIES

These products offer an energy-saving alternative to incandescent bulbs across virtually all applications, with technological advances meaning they are now often even smaller than the lamps they replace.

- Long rated life from 6 000 to 15 000 hours
- Flicker free, instant on light with fast warm-up
- Environmentally friendly with low mercury content
- Special option – high switching cycles up to 100 000
- Up to 80% energy savings vs. traditional incandescent on our 'A' energy labeled products



# GE Compact Fluorescent Lamps Integrated

## Product overview



### T3 Mini

Cap: E27, E14, B22  
Wattages: 9 – 23W  
Colours: 2700 – 6500K  
Rated life: 10 000 h



### T3 Mini Economy

Cap: E27, E14, B22  
Wattages: 9 – 23W  
Colours: 2700K  
Rated life: 6 000 – 7 000 h



### GLS T2/T3

Cap: E27, E14, B22  
Wattages: 8 – 20W  
Colours: 2700 – 4000K  
Rated life: 6 000 – 8 000 h



### Spherical T2

Cap: E27, E14, B22  
Wattages: 5 – 7W  
Colours: 2700 – 4000K  
Rated life: 6 000 – 8 000 h



### Candle T2/T3

Cap: E27, E14, B22  
Wattages: 7 – 11W  
Colours: 2700 – 4000K  
Rated life: 6 000 – 8 000 h

Stick

Decor



**LongLast™**

### LongLast™ Spiral T2

Cap: E27, B22  
Wattages: 8 – 23W  
Colours: 2700 – 4000K  
Rated life: 15 000 h



### Spiral T2

Cap: E27, E14, B22  
Wattages: 8 – 23W  
Colours: 2700 – 6500K  
Rated life: 8 000 – 10 000 h



### Spiral T3

Cap: E27  
Wattages: 11 – 20W  
Colours: 2700 – 6500K  
Rated life: 8 000 h



### Genura

Cap: E27  
Wattages: 23W  
Colours: 2700 – 3000K  
Rated life: 15 000 h

Spiral

Reflector



CFL Integrated

CFL Integrated







Halogen

Halogen



Halogen Lamps



# GE Halogen Lamps

Low voltage Halogen lamps for outstanding colour rendering



Our range of low voltage Halogen reflector lamps provides an attractive choice of compact, high output light sources with a wide scope for creative lighting. Combining very high light quality, intensity and control with efficient use of energy, these lamps are ideal for applications where space is at premium.

GE Lighting low voltage Halogen reflector lamps feature an advanced, computer designed reflector gives a smooth beam and outstanding light output compared to similar lamps. Ideal for downlighting and accent lighting applications, they offer precise beam control, high efficacy, excellent white light and cool beam characteristics.

- Up to 43% energy savings vs. conventional MR16 lamps
- Instant on, full light output at start-up
- Crisp white light, CCT up to 3000K
- 100% dimmable for additional cost savings
- Outstanding colour rendering, close to natural light (100%CRI)
- Environmentally friendly with no mercury or lead



100% DIMMABLE FOR ADDITIONAL COST SAVINGS



UP TO 30% ENERGY SAVINGS VS. CONVENTIONAL LAMPS



OUTSTANDING COLOUR RENDERING, CLOSE TO NATURAL LIGHT (100%CRI)

## MR16 ranges

Our MR16 Halogen Reflector Lamps feature special technologies – including patented GE reflector coating and multiple layers of a very durable, thin interference film – to deliver more light for the same power input and outstanding colour rendering throughout a working rated life of up to 6 000 hours.

## Decor HaloGLS

Our Decor range is available in a choice of styles (GLS, candle, spherical) and bases to enable immediate retrofit replacement of traditional lamps and deliver the immediate benefits of instant-on, crisp white light plus full compatibility with dimming switches.



From 1 September 2016 a new European Ecodesign regulation entered into force, which phased out all mains voltage halogen reflectors and also part of the low voltage reflectors. After this date only the high performing low voltage Halogen Reflector Lamps can be placed on the EU market.

You can find various LED lamp alternatives for all the impacted halogen reflector types.



# GE Halogen Lamps

## Product overview



**MR11**  
 Cap: GU4  
 Wattages: 12 – 35W  
 Volts: 12V  
 Rated life: 2 000 – 3 500 h



**Precise™ Bright 5000 MR16**  
 Cap: GU5.3  
 Wattages: 20 – 50W  
 Volts: 12V  
 Beam Spread: 18 – 60°  
 Rated life: 5 000 h

### Low Voltage Reflectors



**GLS**  
 Cap: E27, B22  
 Wattages: 20 – 100W  
 Volts: 230, 240V  
 Rated life: 2 000 h




**Candle**  
 Cap: E14, E27, B15, B22  
 Wattages: 20 – 42W  
 Volts: 230, 240V  
 Rated life: 2 000 h




**Spherical**  
 Cap: E14, B15, E27, B22  
 Wattages: 20 – 42W  
 Volts: 230, 240V  
 Rated life: 2 000 h

### Decor


Halogen



**Mains Voltage Capsule G9**  
 Cap: G9  
 Wattages: 20 – 42W  
 Volts: 230, 240V  
 Rated life: 1 000 – 2 000 h



**Low voltage capsule – Transversal Filament**  
 Cap: G4 or GY6.35  
 Wattages: 5 – 100W  
 Volts: 6, 12, 24V  
 Rated life: 100 – 4 000 h



**Low voltage capsule – Axial Filament**  
 Cap: G4 or GY6.35  
 Wattages: 10 – 100W  
 Volts: 6, 12V  
 Rated life: 2 000 – 4 000 h

### Capsules



**Tubular T38**  
 Cap: E40  
 Wattage: 1000  
 Volts: 230, 240V  
 Rated life: 2 000 h

### Tubular

Halogen



**Linear 117 mm**  
 Cap: R7s  
 Wattages: 130 – 330W  
 Volts: 230, 240V  
 Rated life: 2 000 h



**Linear 78 mm**  
 Cap: R7s  
 Wattages: 100W  
 Volts: 230, 240V  
 Rated life: 2 000 h



**Linear - High Watt**  
 Cap: R7s  
 Wattages: 1000 – 2000W  
 Volts: 230, 240V  
 Rated life: 2 000 h

### Linear



Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Candela (cd)	Beam Angle (°)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Open/Closed
<b>MR11</b>																
1	20	12	GU4	M251/FTC/CG	93010671*	205	840	20	2800	4 000	35.3	40	21.4	C	10	closed
1	20	12	GU4	M262/FTD/CG	93010622	170	490	26	2800	4 000	35.3	40	21.6	B	10	closed
1	35	12	GU4	M266/FTF/CG	93010615	430	2 070	20	2900	4 000	35.3	40	38.1	B	10	closed

\* Will be phased out

**Product Description - explanation**  
For further information check the glossary

**M62** / **FTD** / **CG** / **A** / **FL**

- Class M**: Numerical index, industry code specifying lamp type
- FTD - ANSI code**: Industry code specifying lamps type defined by the American National Standard Institute
- CG - Closed design**
- A - A-line (GLS shape)**, **C - Candle Shape**, **S - Spherical Shape**
- FL - Flood Beam Angle**, **SP - Spot Beam Angle**



1

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Candela (cd)	Beam Angle (°)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Open/Closed	Model
<b>Precise™ Bright 5000 MR16</b>																
20	12	GU5.3	M69/BAB	88231	210	480	36	2900	5 000	50.7	46	20.9	B	10	open	2
20	12	GU5.3	M269/BAB/CG	88235	205	450	36	2900	5 000	50.7	50.5	20.9	C	10	closed	3
35	12	GU5.3	M81/FMW	88229	450	1 390	36	2900	5 000	50.7	46	37.3	B	10	open	2
35	12	GU5.3	M281/FMW/FL/CG	93031671	370	1 300	36	2900	5 000	50.7	46	35.0	C	10	closed	3
50	12	GU5.3	M58/EXN	88234	720	2 250	36	2900	5 000	50.7	46	53.9	B	10	open	2
50	12	GU5.3	M250/EXZ/CG	88237	675	4 750	18	2900	5 000	50.7	50.5	53.9	C	10	closed	3
50	12	GU5.3	M258/EXN/CG	88239	680	2 100	36	2900	5 000	50.7	50.5	53.9	C	10	closed	3
50	12	GU5.3	M280/FNV/CG	88238	750	950	60	2900	5 000	50.7	50.5	53.9	B	10	closed	3
50	12	GU5.3	M80/FNV	88232	770	1 070	60	2900	5 000	50.7	46	53.9	B	10	open	2

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Colour	Candela (cd)	Beam Angle (°)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>MR16 Mains Alutech™ - Coloured</b>															
50	240	GU10	Q50MR16/240/FL	12995*	Blue	600	36	2700	1 500	51	55	51.2	D	10	4
50	240	GU10	Q50MR16/240/FL	13003*	Yellow	600	36	2700	1 500	51	55	51.2	D	10	4

\* Will be phased out

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>Mains Voltage Capsule G9</b>													
20	230	G9	SHORTG9 20W CL 230V	98415	235	2800	1 000	13	43	21.4	D	10	5
20	240	G9	SHORTG9 20W CL 240V	98441	235	2800	1 000	13	43	21.2	D	10	5
30	240	G9	SHORTG9 30W CL 230V	93039930	405	2800	2 000	13	43	34	D	10	5
30	230	G9	SHORTG9 30W CL 240V	93025905	405	2800	2 000	13	43	34	D	10	5
42	230	G9	SHORTG9 42W CL 230V	64126	630	2800	2 000	13	43	43	D	10	5

\* Will be phased out



2

3

4

5



Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>HaloCandle **</b>													
1	20	230	E14	20W HALO C CL E14 230V	98402	235	2900	2 000	36	100	21.5	D	10
1	30	230	E14	30W HALO C CL E14 230V	98398	405	2900	2 000	36	100	31.7	D	10
1	42	230	E14	42W HALO C CL E14 230V	76575	630	2900	2 000	36	100	43.1	D	10
2	30	230	E27	30W HALO C CL E27 230V	98396	405	2900	2 000	36	100	31.7	D	10
2	42	230	E27	42W HALO C CL E27 230V	76573	630	2900	2 000	36	100	43.1	D	10
1	20	240	E14	20W HALO C CL E14 240V	98399	235	2900	2 000	36	100	21.2	D	12
1	30	240	E14	30W HALO C CL E14 240V	98392	405	2900	2 000	36	100	31.6	D	12
1	42	240	E14	42W HALO C CL E14 240V	76569	630	2900	2 000	36	100	43.7	D	12
2	30	240	E27	30W HALO C CL E27 240V	98391	405	2900	2 000	36	100	31.6	D	12
2	42	240	E27	42W HALO C CL E27 240V	76568	630	2900	2 000	36	100	43.7	D	12
3	30	240	B15	30W HALO C CL B15 240V	98394	405	2900	2 000	36	100	31.6	D	12
3	42	240	B15	42W HALO C CL B15 240V	76571	630	2900	2 000	36	100	43.7	D	12
4	20	240	B22	20W HALO C CL B22 240V	98400	235	2900	2 000	36	100	21.2	D	12
4	30	240	B22	30W HALO C CL B22 240V	98393	405	2900	2 000	36	100	31.6	D	12
3	42	240	B22	42W HALO C CL B22 240V	76570	630	2900	2 000	36	100	43.7	D	12

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>HaloSpherical **</b>													
5	20	230	E14	20W HALO S CL E14 230V	98390	235	2900	2 000	45	78	21.5	D	10
5	30	230	E14	30W HALO S CL E14 230V	98384	405	2900	2 000	45	78	31.7	D	10
5	42	230	E14	42W HALO S CL E14 230V	76553	630	2900	2 000	45	78	43.1	D	10
5	20	240	E14	20W HALO S CL E14 240V	98385	235	2900	2 000	45	78	21.2	D	12
5	30	240	E14	30W HALO S CL E14 240V	98378	405	2900	2 000	45	78	31.6	D	12
7	42	240	E14	42W HALOS CL E14 240V	76548	630	2900	2 000	45	78	43.7	D	12
6	20	230	E27	20W HALO S CL E27 230V	98388	235	2900	2 000	45	78	21.5	D	10
6	30	230	E27	30W HALO S CL E27 230V	98382	405	2900	2 000	45	78	31.7	D	10
6	42	230	E27	42W HALO S CL E27 230V	76551	630	2900	2 000	45	78	43.1	D	10

\* Will be phased out  
\*\* Will be banned in the EU from Sept/2018



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>HaloSpherical **</b>													
30	240	B15	30W HALO S CL B15 240V	98380*	405	2900	2 000	45	78	31.6	D	12	9
30	240	E27	30W HALO S CL E27 240V	98377	405	2900	2 000	45	78	31.6	D	12	8
42	240	E27	42W HALOS CL E27 240V	76547	630	2900	2 000	45	78	43.7	D	12	8
20	240	B22	20W HALO S CL B22 240V	98386	235	2900	2 000	45	78	21.2	D	12	10
30	240	B22	30W HALO S CL B22 240V	98379	405	2900	2 000	45	78	31.6	D	12	10
42	240	B22	42W HALOS CL B22 240V	76549	630	2900	2 000	45	78	43.7	D	12	10

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>Tubular T38</b>													
1000	230	E40	Halo T38/1000W/E40/230	32108	21 000	2900	2 000	38	280	1008.89	D	10	11
1000	240	E40	Halo T38/1000W/E40/240	32109	21 000	2900	2 000	38	280	1018.43	D	10	11

\* Will be phased out  
\*\* Will be banned in the EU from Sept/2018





Incandescent

Incandescent



Incandescent Lamps





# Incandescent Lamps

Specialised Lamps for special applications

Incandescent lamps designed to satisfy specialised requirements

Recent years have seen the use of Incandescent Lamps phased out across most applications as new technologies have superseded them. Across the EMEA region, this has been driven by legislation based on the EU Ecodesign Directive, legislation that covers all energy using products sold in the domestic, commercial and industrial sectors.

We have been at the forefront of this change, developing new technologies that operate with greater efficiency, less cost and less environmental impact than ever before. We invented Incandescent technology and we know how to replace it.

Today, the Ecodesign requirements allow exemption for a limited number of Incandescent Lamp types and we continue to supply high quality products for these highly specialised applications:

- Pygmy for oven, freezer and sewing machine
- Infrared reflector
- Low Voltage GLS
- Coloured decorative lamps



FOR SPECIAL ENVIRONMENTS



FOR INFRARED APPLICATIONS



COLOURED LAMPS



As a member of ELC (European Lamp Companies Federation), we are fully committed to this regulation and to offering a complete range of new, energy efficient products to replace old Incandescent lamps.



# GE Incandescent Lamps

## Product overview



### Standard

Cap: E27, B22 or E40  
Wattages: 25 – 300W  
Finish: Clear or Frosted  
Rated life: 1 000 h



### Low Volt

Cap: E27  
Wattages: 25 – 100W  
Voltage: 24V  
Finish: Clear or Frosted  
Rated life: 1 000 h



### R39

Cap: E14  
Wattages: 25 – 30W  
Rated life: 1 000 h



### R63

Cap: E27  
Wattages: 40W  
Rated life: 1 000 h



### Coloured R50, R63, R80

Cap: E27, E14  
Wattages: 40 – 60W  
Rated life: 1 000 h

GLS

Reflector



### Standard

Cap: E14, E27 or B22  
Wattages: 15 – 60W  
Finish: Clear or Frosted  
Rated life: 1 000 h



### Oven

Cap: E14 or E27  
Wattages: 25, 40W  
Finish: Clear  
Rated life: 300 h



### Coloured

Cap: E14, E27  
Wattages: 15W  
Finish: 5 colours  
Rated life: 1 000 h



### Infrared Hard Glass

Cap: E27  
Wattages: 100 – 275W  
Finish: Clear, Red or Satin  
Rated life: 5 000 h

Spherical

Infrared Reflector



### Standard

Cap: E14, E27  
Wattages: 25 – 60W  
Finish: Opal, Frosted or Clear  
Rated life: 1 000 h



### Standard and Appliance

Cap: E14  
Wattages: 15 – 25W  
Finish: Clear  
Rated life: 1 000 h

Candle

Pygmy

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Standard GLS – Clear</b>												
1	25	240	E27	25A1/CL/E27	19944*	225	1000	50	88.5	25	E	1/10/120
1	40	240	E27	40A1/CL/E27	84755*	410	1000	50	88.5	40	E	1/10/120
1	60	240	E27	60A1/CL/E27	84757*	700	1000	50	88.5	60	E	1/10/120
1	60	240	E27	60A1/CL/E27**	19947*	700	1000	50	88.5	60	E	1/10/120
1	75	240	E27	75A1/CL/E27	84758*	930	1000	50	88.5	75	E	1/10/120
1	100	240	E27	100A1/CL/E27	84759*	1330	1000	50	88.5	100	E	1/10/120
1	150	230	E27	150A65/CL/E27	84774*	2160	1000	65	123	150	E	1/20
1	150	230	E27	150A65/CL/E27**	22566*	2160	1000	65	123	150	E	1/20
1	200	230	E27	200A1/CL/E27	84777*	3040	1000	80	142	200	E	1/20
1	200	230	E27	200A1/CL/E27**	91127*	3040	1000	80	142	200	E	1/20
1	300	230-240	E27	300A1/CL/E27**	91226*	4850	1000	90	168	300	E	1/20
1	60	240	B22	60A1/CL/B22**	19962*	700	1000	50	88.5	60	E	1/10/120
1	75	240	B22	75A1/CL/B22**	19965*	930	1000	50	88.5	75	E	1/10/120

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Standard GLS – Frosted</b>												
2	40	240	E27	40A1/F/E27	19952*	410	1000	50	88.5	40	E	1/10/120
2	60	240	E27	60A1/F/E27	19954*	700	1000	50	88.5	60	E	1/10/120
2	100	240	E27	100A1/F/E27**	19956*	1330	1000	50	88.5	100	E	1/10/120

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Low Volt GLS – Clear ***</b>												
1	25	24	E27	25A1/CL/E27 24V	35178	320	1000	60	104.5	25.5	D	1/10/100
1	40	24	E27	40A1/CL/E27 24V	91876	580	1000	60	104.5	44.5	D	1/10/100
1	60	24	E27	60A1/CL/E27 24V	91877	930	1000	60	104.5	64	D	1/10/100
1	100	24	E27	100A1/CL/E27 24V	35174	1740	1000	60	104.5	107.4	D	1/10/100

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Low Volt GLS – Frosted</b>												
2	60	24	E27	60A1/F/E27 24V	91875	930	1000	60	104.5	64.1	D	1/10/100
2	100	24	E27	100A1/F/E27 24V**	91873	1740	1000	60	104.5	106.7	D	1/10/100

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Spherical – Clear</b>												
3	25	240	E14	25D1/CL/E14**	19775*	210	1000	45	74	25	E	1/10/100
3	25	230	E27	25D1/CL/E27	84795*	210	1000	45	69.5	25	E	1/10/50
3	40	240	E14	40D1/CL/E14	84752*	400	1000	45	74	40	E	1/10/100
3	40	240	E27	40D1/CL/E27	84808*	400	1000	45	69.5	40	E	1/10/50
3	40	230	E27	40D1/CL/E27**	90565*	400	1000	45	69.5	40	E	1/10/50
3	60	240	E14	60D1/CL/E14	84754*	660	1000	45	74	60	E	1/10/100
3	60	230	E27	60D1/CL/E27	84769*	660	1000	45	69.5	60	E	1/10/50

\* Not CE compliant product  
 \*\* Will be delisted  
 \*\*\* Will be banned in the EU from Sept/2018

**Product Description - explanation**  
 For further information check the glossary

**15** | **A1** | **/** | **FR** | **/** | **E27**

Identifies lamp wattage

Identifies the lamp type:  
 A1=GLS, C1=Candle, Rxx=Reflector/IR = Infrared (xx=diameter), P1=Pygmy, D1=Spherical

Identifies the finish of the lamp:  
 F/FR = Frosted  
 CL = Clear  
 O/SL = Opal  
 R/Y/G/B = Colour options



Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Spherical – Frosted</b>												
4	25	240	E14	25D1/FR/E14**	19777*	210	1000	45	74	25	E	1/10/100
4	40	230	E27	40D1/F/E27	90567*	400	1000	45	69.5	40	E	1/10/50
4	40	240	E14	40D1/FR/E14	84791*	400	1000	45	74	40	E	1/10/100
4	60	240	E14	60D1/FR/E14	84793*	660	1000	45	74	60	E	1/10/100
4	60	240	E27	60D1/FR/E27	84810*	660	1000	45	69.5	60	E	1/10/50
<b>Spherical Oven - Clear</b>												
5	25	230	E27	25D1/CL/E27	12513	140	300	45	71	25	E	1/10/100
5	40	230	E14	40D1/CL/E14	12462	320	300	45	74	40	E	1/10/50
5	40	230	E27	40D1/CL/E27	12515	320	300	45	71	40	E	1/10/100

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Colour	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Coloured Spherical</b>												
6	15	230	E27	15D1/R/E27**	90531*	Red	1000	45	69.5	14.3	-	1/10/50
6	15	230	E14	15D1/Y/E14**	90526*	Yellow	1000	45	74	14.3	-	1/10/50
6	15	230	E27	15D1/Y/E27**	90527*	Yellow	1000	45	69.5	14.3	-	1/10/50
6	15	230	E27	15D1/G/E27**	91521*	Green	1000	45	69.5	14.3	-	1/10/50
6	15	230	E27	15D1/B/E27**	91522*	Blue	1000	45	69.5	14.3	-	1/10/50

\* Not CE compliant product  
 \*\* Will be delisted



# Incandescent Lamps

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Candle - Clear</b>												
1	25	240	E14	25C1/CL/E14	84763*	210	1 000	35	97	25	E	1/10/50
1	40	240	E14	40C1/CL/E14	84770*	400	1 000	35	97	40	E	1/10/50
1	60	240	E14	60C1/CL/E14	84772*	660	1 000	35	97	60	E	1/10/50
1	40	240	E27	40C1/CL/E27**	84781*	400	1 000	35	93	40	E	1/10/100
1	60	240	E27	60C1/CL/E27**	84782*	660	1 000	35	93	60	E	1/10/100
<b>Candle - Frosted</b>												
2	25	240	E14	25C1/FR/E14	91680*	210	1 000	35	97	25	E	1/10/50
2	40	230	E14	40C1/SL/E14	84765*	360	1 000	35	97	40	E	1/10/50
2	40	240	E14	40C1/FR/E14	84805*	400	1 000	35	97	40	E	1/10/50
2	60	240	E14	60C1/FR/E14	84806*	660	1 000	35	97	60	E	1/10/50
2	40	240	E27	40C1/FR/E27**	84787*	400	1 000	35	93	40	E	1/10/100
2	60	240	E27	60C1/FR/E27**	84789*	660	1 000	35	93	60	E	1/10/100
2	40	230	E14	40C1/SL/E14**	90482*	360	1 000	35	97	40	E	1/10/50

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Beam Angle (°)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Reflector - R39</b>													
3	30	230	E14	30R39/E14**	84804*	80	65	1 000	39	64.5	30.5	E	1/10/100
3	30	240	E14	30R39/E14**	84812*	80	65	1 000	39	64.5	30.5	E	1/10/100
<b>Reflector - R50</b>													
3	25	230	E14	25R50/E14**	84814*	200	35	1 000	50	86	25	E	1/10/50
3	40	230	E14	40R50/E14**	84773*	300	35	1 000	50	86	40.3	E	1/10/50
3	40	230	E14	40R50/E14**	84818*	300	35	1 000	50	86	40.3	E	1/10/50
3	60	230	E14	60R50/E14**	84768*	600	35	1 000	50	86	60.2	E	1/10/50
3	60	230	E14	60R50/E14**	84802*	600	35	1 000	50	86	60.2	E	1/10/50
<b>Reflector - R63</b>													
4	40	230	E27	40R63/E27**	84799*	250	35	1 000	63.5	100	40.3	E	1/10/40
4	60	230	E27	60R63/E27**	84767*	410	35	1 000	63.5	100	60.2	E	1/10/40
4	60	230	E27	60R63/E27	84800*	410	35	1 000	63.5	100	60.2	E	1/10/40
<b>Reflector - R80</b>													
4	60	230	E27	60R80S/E27**	92839*	450	35	1 000	80	109.5	60.7	E	1/10
4	75	230	E27	75R80S/E27	84817*	600	35	1 000	80	109.5	75	E	1/10
4	100	230	E27	100R80S/E27**	92860*	800	35	1 000	80	109.5	100	E	1/10

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\*\* Will be delisted



1 2 3 4

# Incandescent Lamps



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Colour	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>Coloured Reflector - R50</b>												
40	230	E14	40R50/R/E14**	91386	Red	1 000	50	86	39.2	N/A	1/25	5
40	230	E14	40R50/Y/E14**	91388	Yellow	1 000	50	86	39.2	N/A	1/25	5
40	230	E14	40R50/G/E14**	91389	Green	1 000	50	86	39.2	N/A	1/25	5
40	230	E14	40R50/B/E14**	91387	Blue	1 000	50	86	39.2	N/A	1/25	5
<b>Coloured Reflector - R63</b>												
40	230	E27	40R63/R/E27**	91532	Red	1 000	63.5	100	39.4	N/A	1/25	6
40	230	E27	40R63/Y/E27**	91531	Yellow	1 000	63.5	100	39.4	N/A	1/25	6
40	230	E27	40R63/G/E27**	91533	Green	1 000	63.5	100	39.4	N/A	1/25	6
40	230	E27	40R63/B/E27**	91530	Blue	1 000	63.5	100	39.4	N/A	1/25	6
<b>Coloured Reflector - R80</b>												
60	230	E27	60R80/Y/E27**	91527*	Yellow	1 000	80	109.5	57.3	N/A	1/40	6

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5 6

# Incandescent Lamps

Model	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>Infrared Reflector Hard Glass - Clear</b>												
1	150	230-240	E27	150R/IR/CL/E27	28720	-	5 000	125	173	-	-	1/9
1	250	230-240	E27	250R/IR/CL/E27	28724	-	5 000	125	173	-	-	1/9
1	275	230-240	E27	275R/IR/CL/E27	32569	-	5 000	125	173	-	-	1/9
<b>Infrared Reflector Hard Glass - Red front</b>												
2	100	230	E27	100R95/IR/R/E27**	92365*	-	6 000	95	129	-	-	1/32
2	150	240	E27	150R/IR/R/E27	91372	-	5 000	125	173	-	-	1/10
2	250	240	E27	250R/IR/R/E27	91391	-	5 000	125	173	-	-	1/10
<b>Infrared Reflector Hard Glass - Satin</b>												
2	150	240	E27	150/IR/F/E27	91288	-	5 000	125	173	-	-	1/10
2	250	240	E27	250R/IR/F/E27	91390	-	5 000	125	173	-	-	1/10
<b>Pygmy Freezer - Clear</b>												
3	15	230	E14	3C P1/CL/E14**	12511	85	1 000	28	60	-	E	1/10/100
3	15	230	E14	15P1/CL/E14	12512	85	1 000	28	60	15.6	E	1/10/50
3	15	240	E14	15P1/CL/E14	84811	85	1 000	25	55	-	E	1/10/50
3	15	240	E14	15P1/CL/E14	91950	85	1 000	25	55	15.3	E	1/10/50
3	25	230	E14	25P1/CL/E14	84807	190	1 000	28	60	24.8	E	1/10/50
<b>Pygmy Oven - Clear</b>												
3	15	230-240	E14	15P1/RS/CL/E14	84790	85	1 000	22.5	48	15.1	E	300
3	25	230	E14	25P1/OVEN25/CL/E14	43381	160	1 000	25	55	23.6	E	1/50
3	25	230-240	E14	25P1/OVEN/T25/CL	43381	160	1 000	25	55	23.6	E	250
<b>Pygmy Sewing machine</b>												
3	15	240	B15	15P1/CL/SBC 200/250V 28 SEWM	31831	85	1 000	28	60	-	E	1/50
3	25	240	E14	25P1/CL/SES 200/250V 28 SEWM	31851	80	1 000	28	60	-	E	1/50

\* Not CE compliant product

\*\* Will be delisted



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3



## Specialty Lamps



# Specialty Lamps

Our leading role in the development of all kinds of lighting technologies enables us to offer advanced, high performance solutions for specialised applications as diverse as film studios, rock concerts, airport runways and even fly traps! Following are our main areas of expertise:

## Entertainment

We are a leading supplier to the entertainment industry, with a range of lamp technologies sold under the SHOWBIZ® brand including incandescent, halogen, metal halide and low energy compact fluorescent. Our ranges encompass everything from low watt to 24 000W products with bases to fit most known fixtures, and are used in applications such as:

- Film and broadcast (including studio and location)
- Events and concert tours
- Club and disco
- Theatre
- Specialist projection (e.g. photographic studio)

## Horticulture

Artificial photosynthesis lighting plays an important role in improving the yield and quality of greenhouse crops, and for controlling day-night lengths to suit the needs of particular flowering plants. Our Lucalox™ Photosynthesis Lamp (PSL) range offers a number of important advantages:

- Properly balanced blue and red to optimise growth
- Improves the yield and quality of greenhouse crops
- Optimum light and PAR (Photosynthetically Active Radiation) output
- More PAR on average compared to standard HPS
- Wide range 250 – 750W with 230 and 400 V options (operated on electronic ballast)

## Special applications

We have a choice of lamp technologies – fluorescent/halogen, low/high watt, cap options – to meet the needs of a diverse range of special applications including:

- Health & safety (bacterial destruction, shatter protection)
- Insect control (e.g. fly traps in food preparation areas)
- Industrial heating (radiant heat for applications such as paint drying)
- Airfields (lamps for runways and taxiway lighting)



ENTERTAINMENT



HORTICULTURE



SPECIAL APPLICATIONS



# Specialty Lamps / Entertainment Lamps

## Product overview



### Cinema Studio Biax™

Wattage: 55W  
Lumens: 2 400 - 4 100  
CCT: 3200 & 5600K  
Rated life: Up to 8 000 h



### Single Ended Hot Restrike

Wattages: 125 - 18 000W  
Lumens: 9 800 - 1 650 000  
CCT: 6000K  
Rated life: Up to 750 h



### Single Ended Halogen

Wattage: 1 250 - 24 000W  
Volts: 230 - 240V  
Lumens: 13 000 - 800 000  
CCT: 3050 - 3400K  
Rated life: Up to 500 h



### PAR

Range: PAR36, 46, 56, 64  
Wattage: Up to 1 200W  
Candelas: Up to 765 000  
Rated life: Up to 4 000 h

Film and Broadcast

Club and Disco



### Double ended halogen

Cap: R7s  
Wattages: 500 - 2 000W  
Rated life: 75 - 400 h



### Single ended halogen HPL

Cap: G9.5/Heat Sink  
Wattages: 375 - 750W  
Rated life: 300 - 2 000 h



### Single ended halogen

Cap: G9.5  
Wattages: 575 - 6 750W  
Rated life: 300 - 2 000 h



### CSS/CSI/CID

Cap: G38  
Wattages: 400 - 1 000W  
Rated life: 500 - 3 500 h

Theatre

Projection and photography



### Single Ended Cold Start

Wattage: Up to 1 200W  
Lumens: Up to 110 000  
CCT: 6500 - 9000K  
Rated life: 800 - 3 000 h

Event and Tour









Model	Wattage (W)	Volts	Cap	Product description	Product Code	Lumens	CCT (K)	LIF Code	ANSI Code	Rated life (h)	Length (mm)	Operating position	EEC	Outer qty
<b>Single Ended Halogen</b>														
1	10 000	120	G38	DTY-Q10M/T24/4CL 120	24886	290 000	3200	-	-	500	410	BD45	-	1
1	5000	240	G38	HX5000 240V	71379	133 000	3200	-	-	200	270	U	C	6
2	5000	230	G38	CP29 230V	88875	13 500	3200	CP29	-	375	279	BDTH	C	12
1	5000	240	G38	CP29 240V	88876	13 000	3200	CP29	-	375	279	BDTH	C	12
3	10 000	220-230	G38	OT CP83 220-230V 10000W BX 1/1 MIJ	12036	280 000	3200	CP83	-	500	405	BDTH	C	1
3	10 000	240	G38	OT CP83 240V 10000W BX 1/1 MIJ	12037	280 000	3200	CP83	-	500	405	BDTH	C	1
4	12 000	120	G38	Q12MT26/4CL 120V 120	48770	420 000	3400	-	-	150	409.957	BD45	-	1
4	12 000	230	GX38	Q12MT26/CL 230V	48771	400 000	3400	-	-	130	410	BD45	B	1
4	20 000	208	G38	BCM Q20MT32/4CL 208	48772	580 000	3200	-	-	400	560	BD45	-	1
4	12 000	240	GX38	Q12MT26/CL 240V	48779	400 000	3400	-	-	130	410	BD45	C	1
5	20 000	240	GX38	BCM Q20MT32/4CL 240	48774	580 000	3200	-	BCM	400	560	BD45	C	1
6	24 000	240	GX38	Q24MT32/CL 240V	48777	800 000	3400	-	-	150	560	BD45	B	1
7	1250+1250	230-240	GX38q	CP30 230- 240V	88877	27 000 + 27 000	3200	CP30	-	300	220	BD45	D	1
7	1250+2500	230-240	GX38q	CP58 230-240V	88878	27 000 + 59 000	3200	CP58	-	300	220	BD45	C	1
7	1250+650	230-240	GX38q	CP105 1250/650W 230-240V	88880	27 000 + 13 000	3050	CP105	-	250	220	BD45	D	1
8	1000	230	GY9.5	GAB 230V 1000W	93082618	25 000	3200	-	GAB	250	88	BD	C	12
8	1000	240	GY9.5	GAD 240V 1000W	93082619	25 000	3200	-	GAD	250	88	BD	C	12



1 2 3 4 5 6 7 8

Wattage (W)	Volts	Cap	Product description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Length (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer quantity	Model
<b>Discharge - Single Ended Cold Start</b>													
250	95	GY9.5	CSD 250/2 SE	10744	18 000	8500	3 000	108	U	A	275.00	10	9
575	95	GX9.5	CSR575/2/SE	15378*	48 000	7800	1 000	125	U	A	632.50	10	10
575	97	GX9.5	CSR575/2/SE	69064	46 000	7200	1 000	125	U	A	632.50	10	10
700	70	G22	CSR700/2/SE	49491	55 000	6500	1 000	155	U	A	770.00	10	11
1200	100	G22	CSR1200/2/SE	49490	110 000	7000	800	175	U	A+	1320.00	6	12
575	97	GX9.5	CSR575/2/T/SE	49492*	42 000	7600	1 000	125	U	A	632.5	10	10



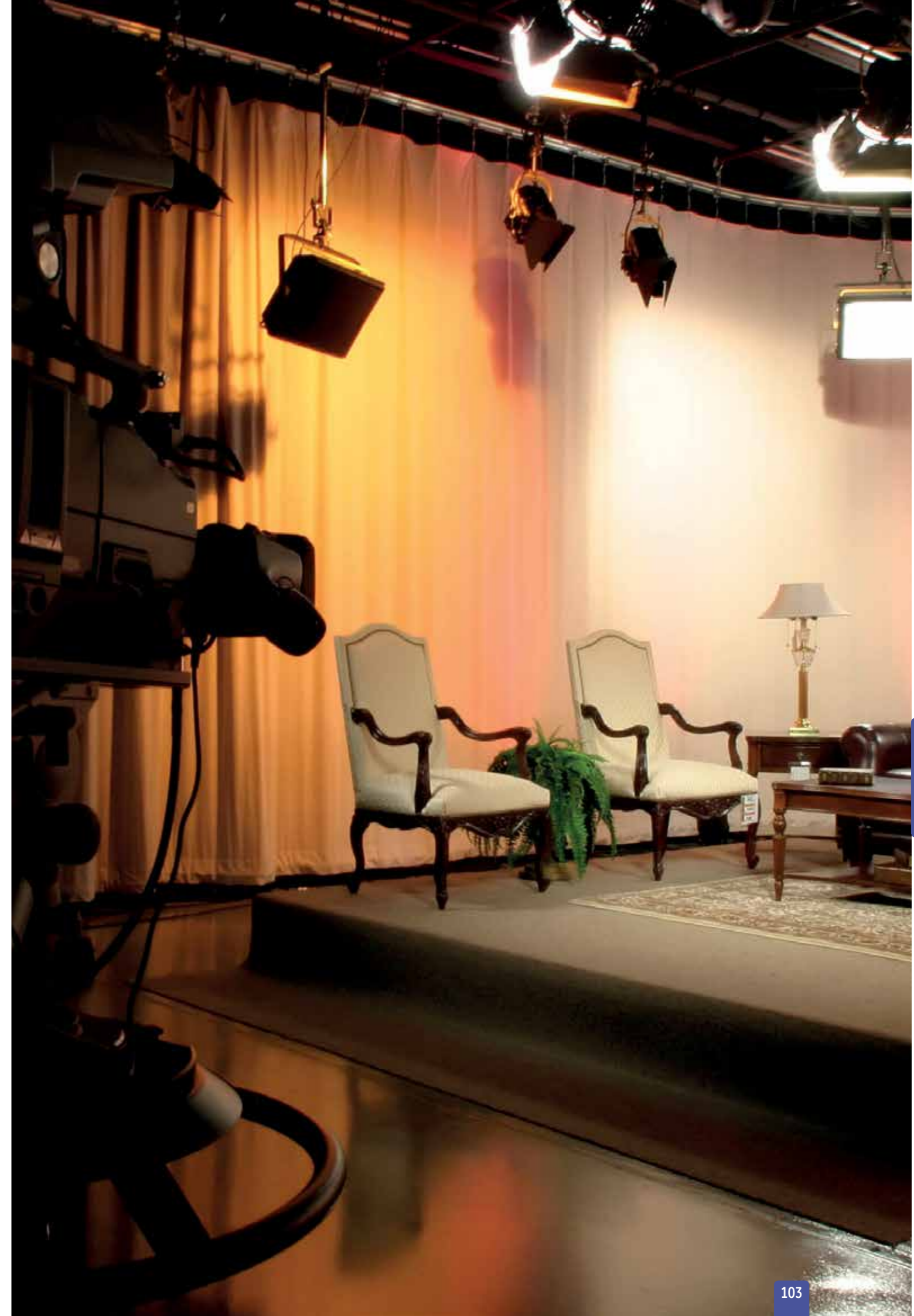
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# Specialty Lamps / Entertainment Lamps

Brand cross reference

SKU	GE Lighting	Osram	Philips
<b>Discharge - Single Ended Hot Restrike</b>			
48461	CSR125/SE/HR	HMI125W	MSR125/HR
93011465	CSR200/SE/HR/UV-C	HMI200W/SE	MSR200/HR
93011463	CSR800/SE/HR/UV-C	HMI800W/SEL	-
27764	CSR 1200 SE/HR/UV- C	HMI1200W/SE	MSR1200/HR
77390	CSR 1800/SE/HR	HMI1800W/SE/XS	-
40482	CSR 2500/SE/HR/UV-C	HMI2500W/SE	MSR2500/HR
27765	CSR 4000SE/HR/UV- C	HMI4000W/SE	MSR4000/HR
40492	CSR 6000/SE/HR/UV-C	HMI6000W/SE	MSR6000/HR
22496	CSR18000/SE/HR	HMI18000W/SE	MSR18000/HR
48453	CSR1200/DE	HMI1200W/GS	MSI1200
48456	CSR6000/DE	HMI6000W	MSI6000
48457	CSR12000/DE	HMI12000W/GS	MSI12000
48459	CSR18000/DE	HMI18000W	-
<b>Discharge - Single Ended Cold Start</b>			
10744	CSD 250/2 SE	HSD250/80	MSD250/2
49492	CSR575/2/T/SE	HSR575/2	MSR575/2
49491	CSR700/2/SE	HSR700/2	MSR700/2
49490	CSR1200/2/SE	HSR1200/2	MSR1200/2
<b>Discharge - CSR Turn and Lock (TAL)</b>			
78718	CSR700/TAL/PGJX28	HTI 700W/75/P28	MSR 700/2 MiniFastFit
<b>Discharge - Double Ended Hot Restrike</b>			
45231	CSR575/SS/DE/75	-	-
22493	CSR700/S/DE/60	HTI700W/D4/60	-
41357	CSR700/S/DE/72	HTI700W/D4/75	MSR700/SA/2/DE
21849	CSR 1200/SA	HTI1200W/SE	MSR1200/SA





**250W**  
 Lamp volts: 115V  
 Current: 2.7A  
 Wattage: 250W  
 100 h lumens: 33 000  
 100 h PAR: 430 μmole/sec  
 Packing: 12



**400W**  
 Lamp volts: 110V  
 Current: 4.3A  
 Wattage: 420W  
 100 h lumens: 56 500  
 100 h PAR: 710 μmole/sec  
 Packing: 12 or 63



**600W**  
 Lamp volts: 115V  
 Current: 6.0A  
 Wattage: 615W  
 100 h lumens: 90 000  
 100 h PAR: 1080 μmole/sec  
 Packing: 12 or 63



**750W**  
 Lamp volts: 115V  
 Current: 7.4A  
 Wattage: 755W  
 100 h lumens: 112 000  
 100 h PAR: 1320 μmole/sec  
 Packing: 12 or 63

Single Ended 230V



**600W EL**  
 Lamp volts: 200V  
 Current: 3.6A  
 Wattage: 620W  
 100 h lumens: 85 000  
 100 h PAR: 1120 μmole/sec  
 Packing: 12 or 63  
 (Electronic ballast)

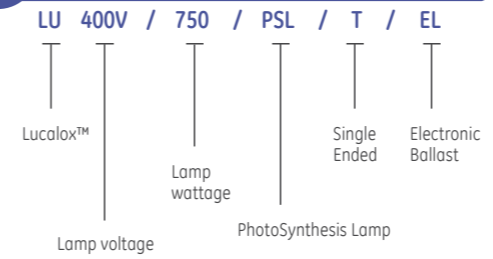


**750W EL**  
 Lamp volts: 205V  
 Current: 4.4A  
 Wattage: 765W  
 100 h lumens: 104 000  
 100 h PAR: 1390 μmole/sec  
 Packing: 12 or 63  
 (Electronic ballast)

Single Ended 400V

Volts	Current (A)	Wattage (W)	Product Description	Product Code (12 pack)	Product Code (63 pack)	Max Length (mm)	Arc gap (mm)	LCL C (mm)	Diameter (mm)	Cap	100 hour lumens (Lumens)	100 hour PAR (μmole/sec)	Bulb glass	Operating position	Model
<b>230V - E40 Cap</b>															
115	2.7	250	LU250W/PSL/T/E40	88665	-	260	64	158	48	E40/45	33 000	430	Hard	Universal	1
110	4.3	420	LU400W/PSL/T/E40	17106	44304	292	87	175	48	E40/45	56 500	710	Hard	Universal	2
115	6.0	615	LU600W/PSL/T/E40	17107	44305	292	125	169	48	E40/45	90 000	1080	Hard	Universal	1
115	7.4	755	LU750W/PSL/T/E40	17108	-	293	130	178	51	E40/45	112 000	1320	Hard	Universal	3
<b>400V - E40 Cap</b>															
200	3.6	620	LU400V/600W/PSL/T/E40/EL	63919	63922	292	124.5	169	48	E40/45	85 000	1120	Hard	Universal	4
205	4.4	765	LU400V/750W/PSL/T/2/E40/ EL 1/12	43438	43437	293	143	175	51	E40/45	104 000	1390	Hard	Universal	3

**Product Description - explanation**  
 For further information check the glossary



# Specialty Lamps / Special Solutions Lamps

## Product overview



### Black Light T8

Lamp volts: 55V  
Wattage: 15W  
Cap: G13  
Rated life: 7 500 h  
Packing: 25



### covRguard™ Polylux XLR™

Wattages: 18 - 58W  
Colours: White and Cool White  
CRI (Ra): 80+  
Rated life: 15 000 h  
Packing: 25

## Health and Safety



### UVA Blacklight Biax™

Lamp volts: 60V  
Wattage: 9W  
Cap: G23  
Rated life: 167 h  
Packing: 10



### UVA Blacklight Biax™ L

Lamp volts: 106V  
Wattage: 36W  
Cap: 2G11  
Rated life: 1 280 h  
Packing: 10

## Insect Control



### Quartz Heat

Lamp volts: 120 - 600V  
Wattage: 500 - 3800W  
Cap: Slv, R7s, CER  
Rated life: 5 000 h  
Packing: 6, 12

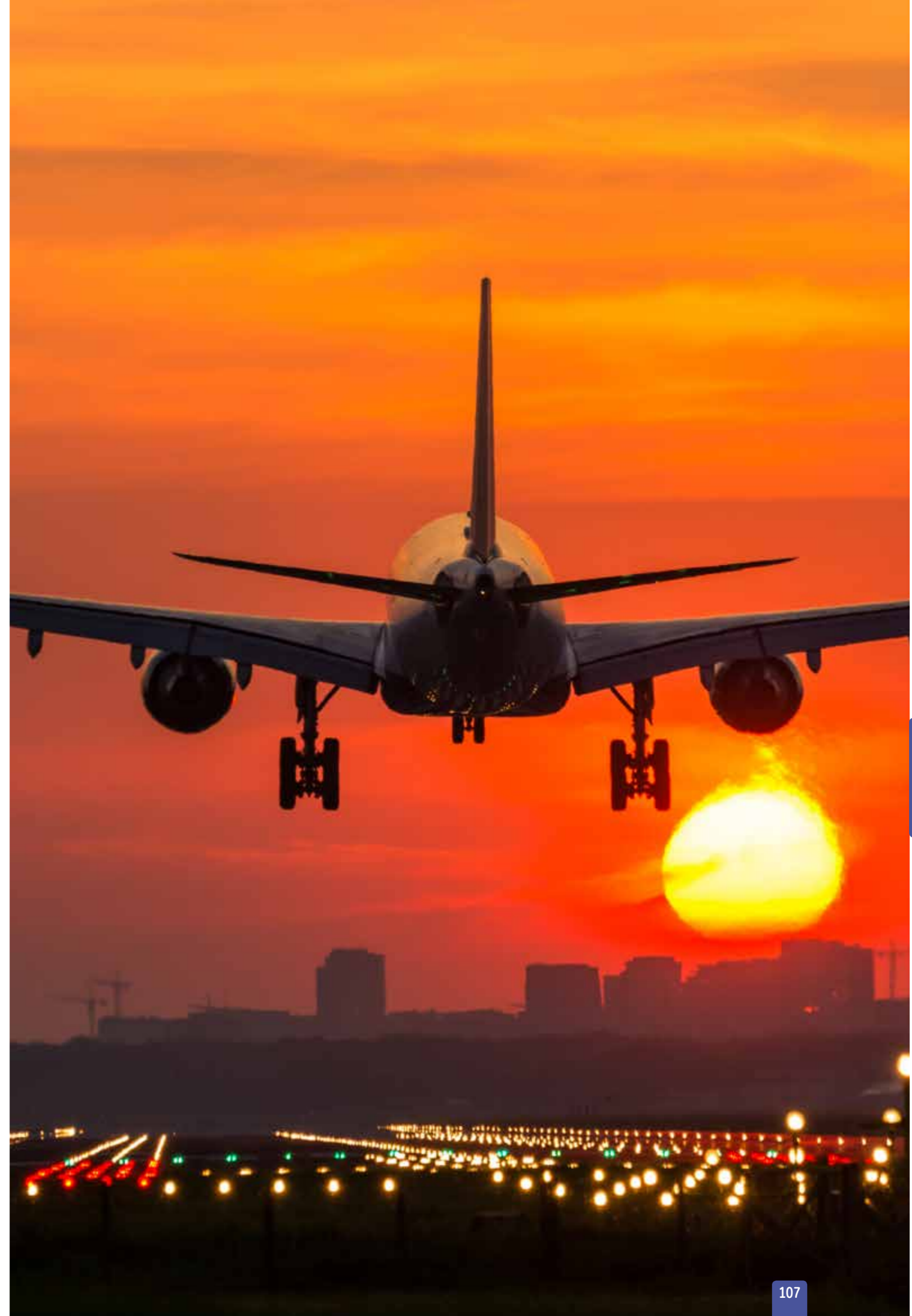


### Airfield

Lamp volts: 6.6A to 120V  
Wattage: 30 - 1000W  
Cap: Various  
Rated life: 30 - 1 000 h  
Packing: Various

## Industrial Heating

## Airfield



# Specialty Lamps / Special Solutions Lamps

## Insect Control

Model	Wattage (W)	Volts	Cap	Product Description	Product Code	Initial UVA Irradiance (mW/cm <sup>2</sup> @ 20cm)	Peak Wavelength (nm)	Rated life (h)	Length (mm)	Pack Qty
<b>UVA Blacklight Biax™ - Internal Starter</b>										
2	9	60	G23	F9BX BL G23	42935	440	368	167	440	10
<b>UVA Blacklight Biax™ L - External Starter</b>										
-	36	106	2G11	F36BX BL 2G11	42940	1280	368	1 280	421.8	10

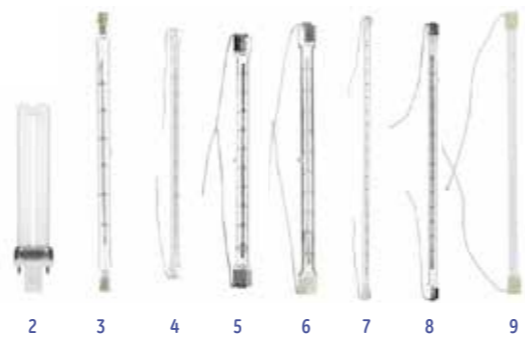
## Industrial Heating

Model	Wattage (W)	Volts	Cap	Product Description	Product Code	CCT (K)	Rated life (h)	Length (mm)	Pack Qty
<b>Quartz Heat</b>									
3	500	120	R7S	QH500T3/CL/7	21787	2400	5 000	220.5	12
4	1000	230-250	Slv	QH1000T3/CL	22357	2400	5 000	351	12
5	1200	144	Slv	QH1200T3/CL	22531	2450	5 000	223.8	12
6	1200	144	Slv	QH1200T3/CL/HT	22532	2450	5 000	223.8	12
6	1600	230-250	R7S	QH1600T3/CL/7	22691	2400	5 000	498.4	12
7	1600	230-250	Slv	QH1600T3/CL	22688	2400	5 000	503	12
8	2000	230-250	Slv	QH2M/T3/CL/HT	22790	2450	5 000	350.8	12
9	2000	230-250	CER	QH2MT3/CL/HT/R	12716	2450	5 000	352.5	12
7	2500	460-500	Slv	QH2500T3/CL	22838	2400	5 000	731	12
6	3650	480	Slv	QH3650/CL/5	10872	2500	5 000	1057	6
6	3800	550-600	Slv	QH3800/CL	22875	2500	5 000	1062	6
6	6000	480	Special	QH6MT3/CL/HT 480	23843	3250	100	300.5	12
-	2500	400	Special	QH2500MT3/CL/HT/R	28126	2450	5000	381.5	12
-	3000	400	Special	QH3MT3/CL/HT/R	28127	2450	5000	381.5	12
-	2000	240	Special	QH2M/T3/HT-GT 230	80848	2450	5000	350.8	12
-	525	120	Special	Q500T8/1CL 20A	88616	3200	500	108	12
-	3800	550-600	Slv	QH3800/CL	22875	2500	5 000	1062	6

**Product Description - explanation**  
For further information check the glossary

**F15T8 / BL 368**

(F) Identifies the lamp as Fluorescent  
(15T8) Identifies the lamp's wattage and diameter  
(BL) Identifies product type



# Specialty Lamps / Special Solutions Lamps



## Airfield

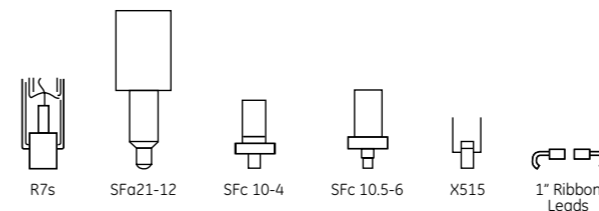
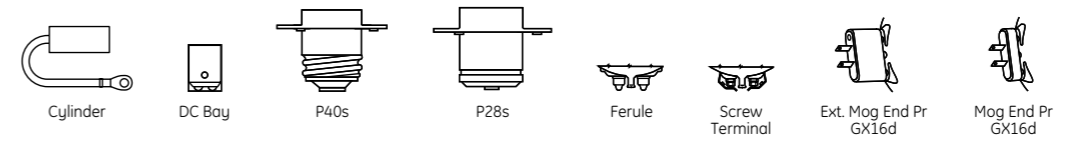
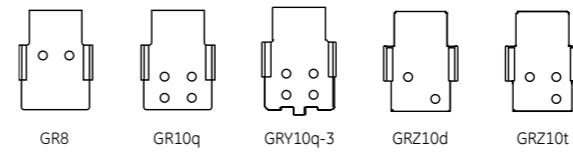
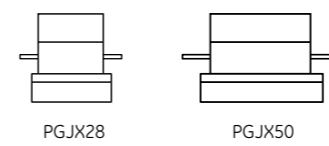
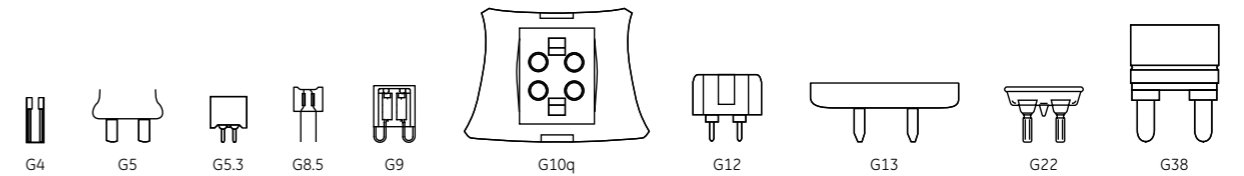
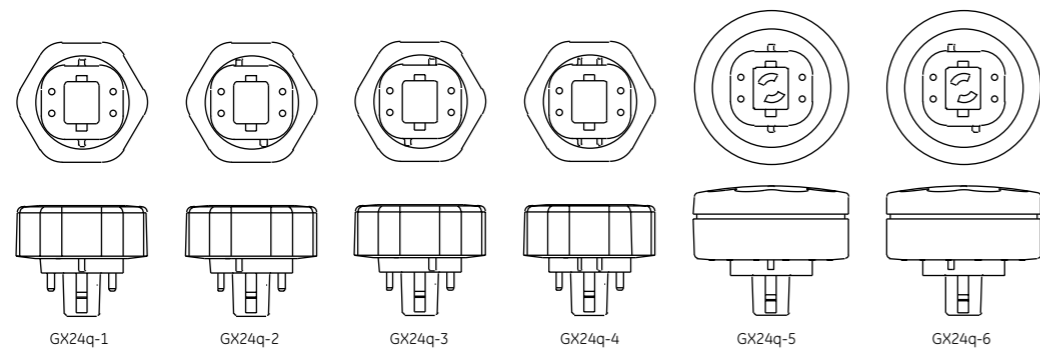
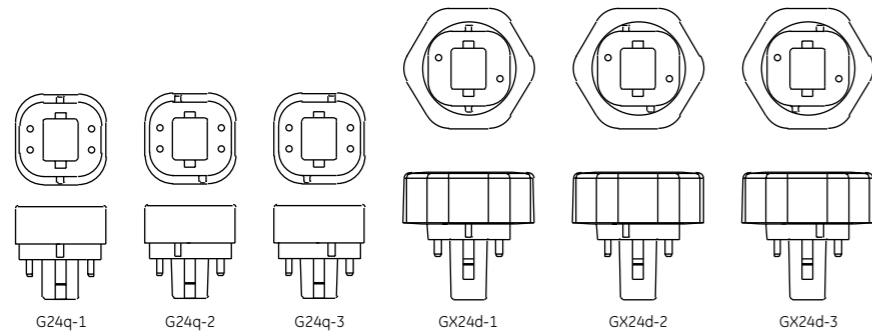
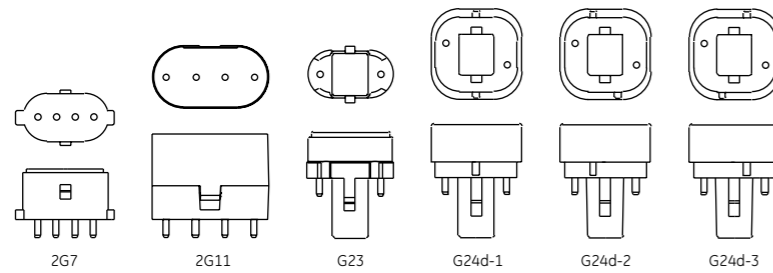
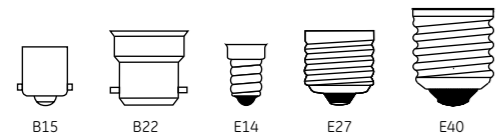
Wattage (W)	Volts	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Length (mm)	Pack Qty	Model
<b>Aircraft and airfield Lighting</b>									
45	6.6	Special	TU Q6,6A/T2 1/21CL BULK MIH	26930	710	1000	60	100	-
13	-	G5	5113WW 13W 1/24	28178	790	7500	525	24	-
65	-	Special	TU Q65T2 1/2/1CL MIH	32917	1500	1000	60	100	-
1000	120	Special	ETT UNIT 120	38311	30 000	70	95.25	24	-
100	10	Special	1978X 10	38545	1634	2000	54.6	10	-
100	28	Special	1970X 28	41938	1700	1000	57.1	10	-
45	6.6A	Mycalex cap & Prefocus collar	AF6/2 6.6A 45W	88420	760	600	54	100	10
100	6.6A	Mycalex cap & Prefocus collar	AF 6/5T 6.6A 100W	88417	2 100	600	60	100	11
200	6.6A	Mycalex cap & Prefocus collar	AF7/2 6.6A 200W	88413	4 800	600	54	100	12
200	6.6A	Special 1" Ribbon Leads	Q6.6A/T4/5CL	23857	5 000	500	76	12	13
300	20A	Mog End Pr GX16d	Q20A/PAR56/C	15482*	NA	500	127	12	14
1000	120	G38 Mog BiPost	IM T20BP	88525	22 000	500	241	12	25

\*Will be phased out



# Cap Drawings

All cap drawings are a guide, if further technical details are required please contact your nearest sales office.







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