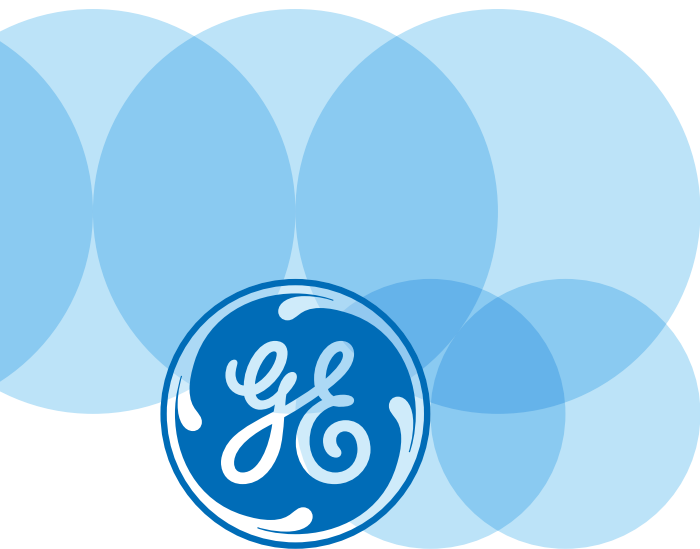


# Spectrum

Lamp product catalogue 2015/16



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**  
November 2015

[www.gelighting.com](http://www.gelighting.com)



and General Electric are both registered trademarks  
of the General Electric Company

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# GE works on things that matter

Every single day, all around the world, GE is helping its customers find solutions to the toughest environmental challenges.

As such, at GE Lighting we have long pioneered advanced lighting technologies with a knowledge and technical expertise that spans more than 100 years providing a foundation for future innovation.

With lighting accounting for 20% of our global energy demand, mounting legislation and environmental pressures - now more than ever this heritage and capability is absolutely crucial.

GE Lighting continues to bring new technologies to the market to meet the global demands for high quality and low energy lighting.



# LED Innovation *for a sustainable future*



Never before in its more than 120 year history has the craftsmanship of City of London iconic Tower Bridge been so beautifully revealed as it is today, thanks to more than 2.5 km of flexible, architectural LED lighting provided by GE Lighting.

[gelifighting.com/eu](http://gelifighting.com/eu)



As a Worldwide Partner of the Olympic Games, GE is the exclusive provider of a wide range of innovative products and services that are integral to the successful Games.



# LED Lamp Solutions



## LEDs you can trust

**More than 15 years** of experience in manufacturing and selling high quality LED solutions

**Up to 90%** energy savings compared to conventional lamps

**Up to 50,000 hours** rated L70 life on LED Precise™ GU10 6W

**Reduced** maintenance and related costs

**Outstanding** lumen performance and lumen/watt efficiency.

**Low UV and IR** (ultraviolet and infrared)



Home



Office



Hospitality



Retail



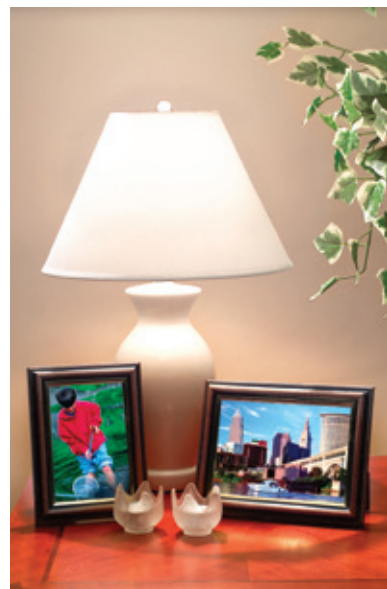


# LED EnergySmart™ GLS 7W, 11W, 14W Omni-directional

GE's latest range of retro-fit GLS lamps offers 40 watt, 60 watt & 75 watt equivalent outputs, with new lower Wattage ratings, and improved uniformity of light distribution. Lightweight, and with a smooth heat sink and attractive shape, this new range is perfect for all general purpose lighting. They fit into standard fittings and provide instant full brightness when turned on, as well as dimming down to ~20%.



- Dimmable 7W, 11W, 14W replacements for 40W, 60W, 75W
- 470, 810, 1100 lumens
- Extra Warm White 2700K colour temperature
- E27, B22 cap types



## LED Precise™ GU10 6W Constant Color™

GE's newest premium LED GU10 Dimmable lamps provide improved aesthetics with a COB Glare-free design and Smooth heat-sink, as well as market-leading Efficiency, Life-time and Light Quality. This range replaces Halogen 50W GU10, offering Best-in-class Colour Consistency (< 4 Macadam steps SDCM), 50000 hours L70 life, and A+ Energy Class with up to 78Lm/W. The high performance dimming and compatibility also allows quiet dimming on leading edge and trailing edge dimmer types.



- 2700K, 3000K, 4000K available
- 360, 380, 470 lumens
- 25° and 35° beam angles
- Dimming (100%~20%) and compatible on leading/trailing edge dimmers
- 50,000 hours L70 life
- Colour consistency within 4 steps on Macadam ellipse



# Gleneagles Hotel, UK

## Our Customer

The renowned Gleneagles Hotel, set in 850 acres of Perthshire countryside, is a member of The Leading Hotels of the World.

## The Challenge

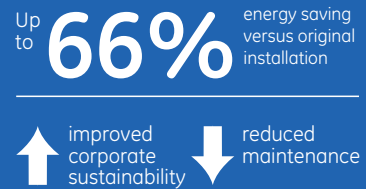
Five star hotel Gleneagles wanted to replace traditional incandescent and halogen lamps, with energy efficient solution that improves the quality of light & highlights established.

## Our Solution

Replacing incandescent and halogen lamps with LED GU10 & LED GLS Energy Smart lamps ensures a high efficiency & reducing running costs from £4625 to £1156 in just under a year.

### Key Benefits

- Improved energy saving up to 66%
- Reduced maintenance costs
- Improved corporate sustainability
- Exceptional combination of aesthetics and economy



“After working closely with GE Lighting – we now have an efficient lighting scheme that has reduced energy use whilst meeting expectations for a high quality light output.”

*Bernard Murphy,*  
General Manager of The Gleneagles Hotel

## LED Precise™ MR16 7W Constant Color™

Introducing GE's newest range of premium LED MR16 Dimmable lamps, with attractive COB glare-free design in 35w replacement, and standard IEC-size dimensions to fit regular downlight fixtures. The new smooth heat sink combined with the aesthetic optical lens provides a very desirable look for any MR16 downlight or track fittings. This range is dimmable on leading edge and trailing edge dimmers, and has very wide compatibility on existing 12V transformers.



- 2700K, 3000K, 4000K colour temperature
- 370, 390, 430 lumens
- 25°, 35° beam angles
- 45,000h L70 life, 90,000 switch cycles
- Improved compatibility on 12V transformers
- Dimmable on leading edge and trailing edge dimmers



# Hotel Adlon Kempinski, Germany

## Our Customer

Hotel Adlon Kempinski in Berlin is leading the league for Germany. The Adlon was first opened in 1907 and soon became “the” spot in Berlin and one of the leading hotels worldwide.

## The Challenge

The expectation was to replace the original halogen lighting to reduce the carbon footprint and to cut down on energy consumption of the hotel. Additionally, superior lighting quality and ease of replacement were key.

## Our Solution

Some 7000 of GE’s MR16 7W Energy Smart dimmable LED lamps were installed in 384 suites of the five star hotel. The lamps are available as a 35W and 50W halogen equivalent in multiple colour temperatures and suitable for track and recessed lighting.

### Key Benefits

- 25,000 operating hours
- 5 times longer lifetime
- 140.000 kWh savings per year
- 80% energy savings
- Reduced carbon footprint
- Refinancing within one year



**80%** reduced energy consumption

**5 times longer lifetime**

**1** year payback      ↓ reduced carbon footprint

“Aside from high quality and reliability, the new lighting solution had to fit into the aesthetics of the hotel without compromising the look and original design characteristics. Therefore, we tested a variety of products for months and finally the hotel selected the product that best meets these requirements.”

*Oliver Voges,  
Key Account Manager  
at OBETA electro (GE distributor)*

## LED EnergySmart™ Decorative 4.5W & 6W Candle, Spherical and Globe

Create a mood and save energy with GE's new and extended range of Decorative LED lamps. Available in 25W and 40W equivalent outputs, in Soft White and Sparkling Clear finish, with better light distribution in chandeliers, to re-create traditional aesthetics of clear Halogen/Incandescent lighting. Widely dimmable and with 20000 hours L70 life and in Extra Warm White 2700K colour, these are the ideal replacements for any decorative lighting fitting.



Sparkling clear and soft white finishes:

- Candle, Bent Tip, Spherical & Globe
- 270 & 470 lumens
- Extra Warm White 2700K
- 20,000 hours life
- Dimmable

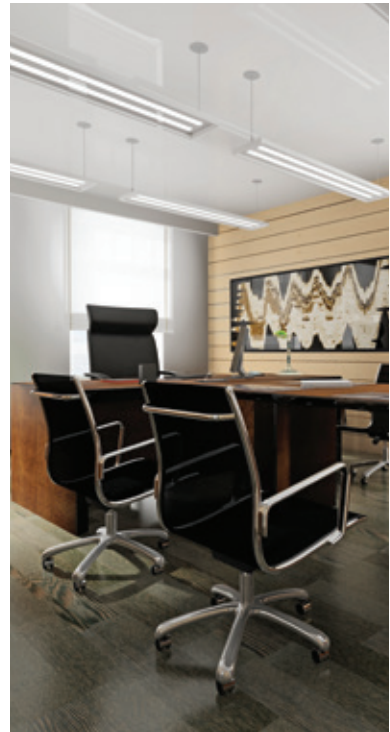
# LED T8 Tube 60cm to 150cm Lamps

The GE LED T8 range offers safe, reliable and affordable energy saving alternatives to traditional Fluorescent T8 lamps.

Designed for general lighting applications, GE LED T8 Premium Universal tubes can be quickly fitted onto both electronic and electromagnetic control gears, while GE LED T8 Basic tubes can retrofit Fluorescent T8 lamps in electromagnetic installations.



- Outstanding efficiency up to 120 lumens per Watt (LPW)
- Choice of three color temperatures: 3000K, 4000K and 6500K
- Long lifetime: up to 50,000 hours (L70)
- High Power Factor: 0.9<
- Wide 130-150° light distribution
- Compatible with existing installations



## Switching from Watts to Lumens

Traditional light bulbs are being phased out and modern light technologies use different amounts of power to achieve the same amount of light. Instead of referring to watts, we now need to measure and compare light in terms of lumens.

Our LEDs can be used everywhere, from general to mood lighting and spotlighting. To assist in selecting the appropriate LED replacement for your existing Incandescent or halogen bulb, GE packaging shows relevant product lumens compared to the old wattages.



## New packaging structure aligned to GE's brand hierarchy

We've made selecting the right product easier than ever, with LED retrofit lamp ranges for every requirement. Need premium performance with optimum aesthetics? Take a look at our Precise™ range. For mainstream applications and an outstanding combination of performance and efficiency, choose our EnergySmart™ range. And when economy is the No.1 requirement, there's our affordable GE LED Start range.



- Directional only
- Navy colour & Precise Trademark
- Diamond icon



- Directional & Non-directional
- Silver colour & Energy Smart Trademark
- Diamond icon



- Directional & Non-directional
- Silver colour
- No diamond icon



# Selector

## Precise™

## Energy Smart™

## Start

LED GU10



### Precise™ GU10 Dimmable

Cap: GU10  
Wattage: 6W  
Voltage: 220-240V  
Beam Spread: 25-35°  
Rated life: 50,000 Hrs



### EnergySmart™ GU10 Dimmable

Cap: GU10  
Wattage: 5.5W, 3.5W  
Voltage: 220-240V  
Beam Spread: 35°  
Rated life: 25,000 Hrs



### Start GU10

Cap: GU10  
Wattage: 4.5W, 3W  
Voltage: 220-240V  
Beam Spread: 35°  
Rated life: 15,000 Hrs

LED MR16 GU5.3



### Precise™ MR16 Dimmable

Cap: GU5.3  
Wattage: 7W  
Voltage: 12V  
Beam Spread: 25-35°  
Rated life: 45,000 Hrs



### EnergySmart™ MR16

Cap: GU5.3  
Wattage: 7W, 6.5W, 6W  
Voltage: 12V  
Beam Spread: 25-35°  
Rated life: 25,000 Hrs

LED R111



### EnergySmart™ R111

Cap: G53  
Wattage: 12W, 7W  
Voltage: 12V  
Beam Spread: 25-35°  
Rated life: 30,000 Hrs

LED PAR



### EnergySmart™ PAR38, PAR30, PAR20

Cap: E27  
Wattage: 18W, 12W, 7W  
Voltage: 90-240V  
Beam Spread: 25-35°  
Rated life: 40,000 Hrs

LED R50



### Energy Smart™ PAR16/R50

Cap: E14, E27  
Wattage: 3.5W  
Voltage: 220-240V  
Beam Spread: 35°  
Rated life: 25,000 Hrs



### Start R50

Cap: E14  
Wattage: 3W  
Voltage: 100-240V  
Beam Spread: 35°  
Rated life: 15,000 Hrs

# LED Solutions

Precise™

Energy Smart™

Start

LED GLS



**EnergySmart™  
Omni Dimmable**

Cap: E27, B22  
Wattage: 14W, 11W, 7W  
Voltage: 220-240V  
Rated life: 25,000 Hrs



**Start GLS**

Cap: E27, B22  
Wattage: 16W, 13W,  
10W, 7W  
Voltage: 100-240V  
Rated life: 25,000 Hrs

LED Candle



**EnergySmart™  
Candle Dimmable**

Cap: E14, E27, B22, B15  
Wattage: 6W, 4.5W  
Voltage: 220-240V  
Finish: Clear, White  
Life: 20,000 Hrs



**Start Candle**

Cap: E14, E27  
Wattage: 4.5W  
Voltage: 100-240V  
Finish: White  
Life: 15,000 Hrs

LED Spherical, Globe



**EnergySmart™  
Spherical Dimmable**

Cap: E14, E27, B22  
Wattage: 6W, 4.5W  
Voltage: 220-240V  
Finish: Clear, White  
Life: 20,000 Hrs



**Start Spherical**

Cap: E14, E27  
Wattage: 4.5W  
Voltage: 100-240V  
Finish: White  
Life: 15,000 Hrs

LED T8 Tube



**LED T8  
Premium Universal**

Cap: G13  
Wattage: 9W, 18W, 25W  
Voltage: 100-277V  
Life: 40,000 Hrs



**LED T8 Basic**

Cap: G13, G13 Rot  
Wattage: 8W, 10W, 16W,  
20W, 27W  
Voltage: 100-240V  
Life: 40,000 Hrs



**LED T8 Start**

Cap: G13  
Wattage: 18W  
Voltage: 100-240V  
Life: 50,000 Hrs

# Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. LED lamp and system life is expressed as L70 – the point in time when light output has fallen to 70% of its initial value.

## Watts:

Energy Used – Nominal Watts.

To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

## Cap:

The type of cap fitted. See page 148-149 for cap drawings

## Product code:

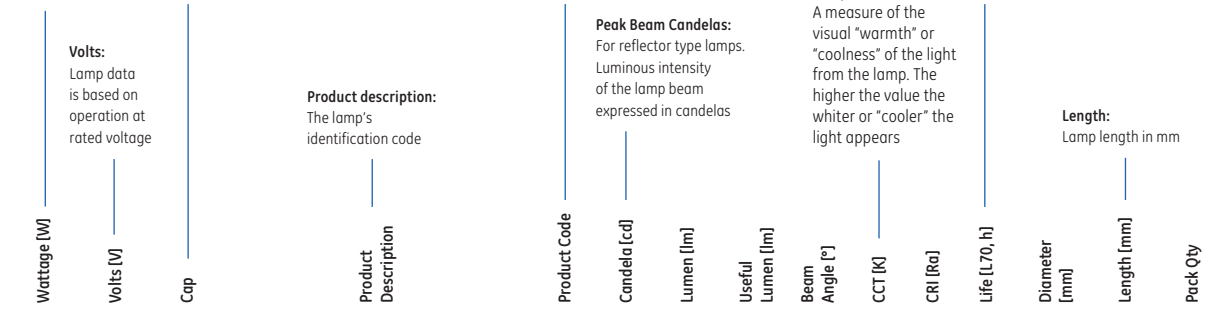
It is important to use this code when ordering to ensure that you receive the exact product you require

## Additional parameters:

**Forward Voltage (Vf) Typical (V):** Typical voltage drop across the LED when driven at 350mA. Value will vary at different drive currents.

**Track Angle:** LED Cove is available with 3 mounting options, at 0, 15 and 30 degrees to the horizontal surface.

**Life (L70, h):** LED lamp and system life is expressed as L70 – the point in time when light output has fallen to 70% of its initial value



**Volts:** Lamp data is based on operation at rated voltage

**Product description:** The lamp's identification code

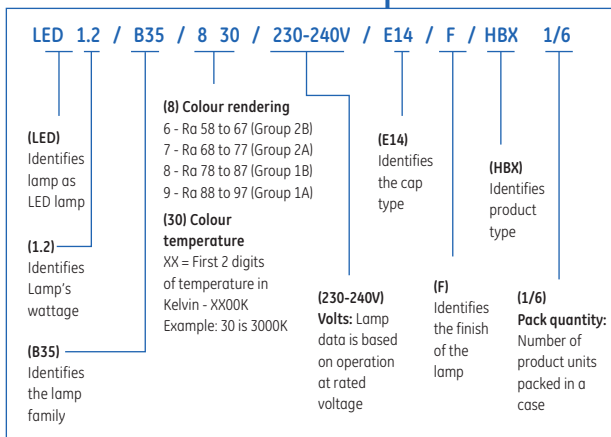
**Peak Beam Candelas:** For reflector type lamps. Luminous intensity of the lamp beam expressed in candelas

**CCT [K]:** Colour Temperature – Kelvins. A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears

**Length:** Lamp length in mm

## LED Energy Smart™ Range – PAR30 dimmable

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Useful Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life (L70, h)	Diameter [mm]	Length [mm]	Pack Qty
10	220-240	E27	LED10DP30S/827/20/E27	79409	3450	450	410	20	2700	80	50000	97	99	6
10	220-240	E27	LED10DP30S/827/35/E27	79410	1100	450	410	35	2700	80	50000	97	99	6
10	220-240	E27	LED10DP30S/830/20/E27	79411	3720	500	480	20	3000	80	50000	97	99	6
10	220-240	E27	LED10DP30S/830/35/E27	79412	1130	500	480	35	3000	80	50000	97	99	6



**LED**

**1.2**

**/ B35**

**/ 8 30**

**/ 230-240V**

**/ E14**

**/ F**

**/ HBX**

**1/6**

**(LED)** Identifies lamp as LED lamp

**(1.2)** Identifies Lamp's wattage

**(B35)** Identifies the lamp family

**(8) Colour rendering**  
6 - Ra 58 to 67 (Group 2B)  
7 - Ra 68 to 77 (Group 2A)  
8 - Ra 78 to 87 (Group 1B)  
9 - Ra 88 to 97 (Group 1A)

**(30) Colour temperature**  
XX = First 2 digits of temperature in Kelvin - XX00K  
Example: 30 is 3000K

**(230-240V) Volts:** Lamp data is based on operation at rated voltage

**(E14)** Identifies the cap type

**(F)** Identifies the finish of the lamp

**(HBX)** Identifies product type

**(1/6) Pack quantity:** Number of product units packed in a case

**Lumens:** Initial Lumens - light output at 100 hours

**Beam Spread Degrees:** For reflector type lamps. The angle of the cone of light produced by a reflector lamp at 50% of its intensity

**Diameter:** Bulb diameter in mm

**CRI [Ra]:** Colour Rendering Index. An indication of the ability of the lamp to render object colours in a normal, natural way. The higher the number (0-100), the better the colour appearance

**Pack quantity:** Number of product units packed in a case

# LED Solutions

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Lumen (lm)	Useful Lumen (lm)	Beam Angle (°)	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	Pack Qty	EEC
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## LED Precise™ GU10 Constant Color™ 50W Dimmable



6	220-240	GU10	LED6D/GU10G/827/220-240V/FL BX 1/10H	84565	1500	380	360	25	2700	80	50000	50,2	57	10	A+
6	220-240	GU10	LED6D/GU10G/827/220-240V/WFL BX 1/10H	84567	1000	380	360	35	2700	80	50000	50,2	57	10	A+
6	220-240	GU10	LED6D/GU10G/830/220-240V/FL BX 1/10H	84568	1600	400	380	25	3000	80	50000	50,2	57	10	A+
6	220-240	GU10	LED6D/GU10G/830/220-240V/WFL BX 1/10H	84572	1100	400	380	35	3000	80	50000	50,2	57	10	A+
6	220-240	GU10	LED6D/GU10G/840/220-240V/FL BX 1/10H	84574	1900	490	470	25	4000	80	50000	50,2	57	10	A+
6	220-240	GU10	LED6D/GU10G/840/220-240V/WFL BX 1/10H	84577	1200	490	470	35	4000	80	50000	50,2	57	10	A+

## LED Energy Smart™ GU10 35W & 50W Dimmable



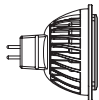
3,5	220-240	GU10	LED3.5D/GU10G/827/220-240V/35/BX 1/8	84611	550	250	240	35	2700	80	25000	50	54	8	A+
3,5	220-240	GU10	LED3.5D/GU10G/830/220-240V/35/BX 1/8	84612	550	260	250	35	3000	80	25000	50	54	8	A+
3,5	220-240	GU10	LED3.5D/GU10G/840/220-240V/35/BX 1/8	84615	550	270	260	35	4000	80	25000	50	54	8	A++
3,5	220-240	GU10	LED3.5D/GU10G/827/220-240V/35/BL 1/8	84617	550	250	240	35	2700	80	25000	50	54	8	A+
5,5	220-240	GU10	LED5.5D/GU10G/827/220-240V/35/BX 1/8	84619	800	380	360	35	2700	80	25000	50	54	8	A+
5,5	220-240	GU10	LED5.5D/GU10G/830/220-240V/35/BX 1/8	84620	800	400	380	35	3000	80	25000	50	54	8	A+
5,5	220-240	GU10	LED5.5D/GU10G/840/220-240V/35/BX 1/8	84622	800	420	400	35	4000	80	25000	50	54	8	A+
5,5	220-240	GU10	LED5.5D/GU10G/827/220-240V/35/BL 1/8	84623	800	380	360	35	2700	80	25000	50	54	8	A+

## LED Start GU10 35W & 50W



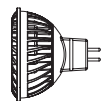
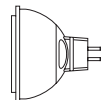
3	100-240	GU10	LED3/GU10/827/100-240V/35/BX 1/8	84602	550	240	230	35	2700	80	15000	50	54	8	A++
3	100-240	GU10	LED3/GU10/830/100-240V/35/BX 1/8	84605	550	250	240	35	3000	80	15000	50	54	8	A++
3	100-240	GU10	LED3/GU10/840/100-240V/35/BX 1/8	84608	550	270	250	35	4000	80	15000	50	54	8	A++
3	100-240	GU10	LED3/GU10/827/100-240V/35/TWBX	84610	550	240	230	35	2700	80	15000	50	54	8	A++
4,5	100-240	GU10	LED4.5/GU10/827/100-240V/35/BX 1/8	34921	800	360	345	35	2700	80	15000	50	54	8	A+
4,5	100-240	GU10	LED4.5/GU10/830/100-240V/35/BX 1/8	34943	800	380	365	35	3000	80	15000	50	54	8	A++
4,5	100-240	GU10	LED4.5/GU10/840/100-240V/35/BX 1/8	34942	800	400	385	35	4000	80	15000	50	54	8	A++

## LED Precise™ MR16 Constant Color™ 35W & 50W Dimmable



7	12	GU5.3	LED7D/MR16GD/827/12V/25 BX1/8	84635	1800	400	370	25	2700	80	45000	50	51	8	A
7	12	GU5.3	LED7D/MR16GD/827/12V/35 BX1/8	84639	1000	400	370	35	2700	80	45000	50	51	8	A
7	12	GU5.3	LED7D/MR16GD/830/12V/25 BX1/8	84640	1900	420	390	25	3000	82	45000	50	51	8	A
7	12	GU5.3	LED7D/MR16GD/830/12V/35 BX1/8	84645	1100	420	390	35	3000	82	45000	50	51	8	A
7	12	GU5.3	LED7D/MR16GD/840/12V/25 BX1/8	84647	2100	460	430	25	4000	83	45000	50	51	8	A
7	12	GU5.3	LED7D/MR16GD/840/12V/35 BX1/8	84651	1200	460	430	35	4000	83	45000	50	51	8	A
7	12	GU5.3	LED7XD/MR16D/827/12V/25 BX1/8	60962	2400	500	470	25	2700	80	45000	50	48	8	A+
7	12	GU5.3	LED7XD/MR16D/827/12V/35 BX1/8	60963	1400	500	470	35	2700	80	45000	50	48	8	A+
7	12	GU5.3	LED7XD/MR16D/830/12V/25 BX1/8	60964	2500	530	490	25	3000	82	45000	50	48	8	A+
7	12	GU5.3	LED7XD/MR16D/830/12V/35 BX1/8	60965	1500	530	490	35	3000	82	45000	50	48	8	A+
7	12	GU5.3	LED7XD/MR16D/840/12V/35 BX1/8	60966	1600	570	540	35	4000	83	45000	50	48	8	A+

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Lumen (lm)	Useful Lumen (lm)	Beam Angle (°)	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	Pack Qty	EEC
<b>LED Energy Smart™ MR16 35W &amp; 50W</b>															
6	12	GU5.3	LED6/MR16/827/12V/GU5.3/WFL BX 1/8	84624	1150	430	400	35	2700	80	25000	50	48	8	A+
6	12	GU5.3	LED6/MR16/830/12V/GU5.3/WFL BX 1/8	84627	1200	460	420	35	3000	80	25000	50	48	8	A+
6	12	GU5.3	LED6/MR16/840/12V/GU5.3/WFL BX 1/8	84628	1300	500	470	35	4000	80	25000	50	48	8	A+
6	12	GU5.3	LED6/MR16/830/12V/GU5.3/WFL/BL 1/8	84629	1200	460	420	35	3000	80	25000	50	48	8	A+
6,5	12	GU5.3	LED6.5/MR16/865/12V/GU5.3/WFL BX 1/8	84630	1300	500	480	35	6500	80	25000	50	48	8	A+
7	12	GU5.3	LED7/MR16/827/12V/GU5.3/WFL BX 1/8	84632	1400	530	500	35	2700	80	25000	50	48	8	A+
7	12	GU5.3	LED7/MR16/830/12V/GU5.3/WFL BX 1/8	84633	1400	550	510	35	3000	80	25000	50	48	8	A+
7	12	GU5.3	LED7/MR16/840/12V/GU5.3/WFL BX 1/8	84634	1500	590	550	35	4000	80	25000	50	48	8	A+



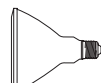
### LED Energy Smart™ R111 50W & 75W

7	12	G53	LED7/R111/827/12V/G53/20 BX 1/10	60462	2500	450	420	20	2700	80	30000	111	59	10	A
7	12	G53	LED7/R111/827/12V/G53/35 BX 1/10	11518	1100	450	420	35	2700	80	30000	111	59	10	A
7	12	G53	LED7/R111/830/12V/G53/20 BX 1/10	60465	2600	470	430	20	3000	80	30000	111	59	10	A
7	12	G53	LED7/R111/830/12V/G53/35 BX 1/10	11529	1200	470	430	35	3000	80	30000	111	59	10	A
12	12	G53	LED12/R111/827/12V/G53/20 BX 1/10	60600	3100	750	700	20	2700	80	30000	111	59	10	A
12	12	G53	LED12/R111/827/12V/G53/35 BX 1/10	11540	1400	750	700	35	2700	80	30000	111	59	10	A
12	12	G53	LED12/R111/830/12V/G53/20 BX 1/10	60601	3200	800	730	20	3000	80	30000	111	59	10	A
12	12	G53	LED12/R111/830/12V/G53/35 BX 1/10	11543	1500	800	730	35	3000	80	30000	111	59	10	A



### LED Energy Smart™ PAR/Reflector 35W Dimmable, 75W, 100W & 140W

7	90-240	E27	LED7/R63/827/90-240V/35/E27 BX 1/6	13509	1100	500	450	35	2700	84	40000	63	89	6	A+
7	90-240	E27	LED7/R63/830/90-240V/35/E27 BX 1/6	13513	1200	550	500	35	3000	84	40000	63	89	6	A+
12	90-240	E27	LED12/P30S/827/90-240V/35/E27 BX 1/6	13514	2500	900	850	35	2700	84	40000	97	95	6	A+
12	90-240	E27	LED12/P30S/830/90-240V/35/E27 BX 1/6	13398	2700	1000	950	35	3000	84	40000	97	95	6	A+
12	90-240	E27	LED12/P38/827/90-240V/25/E27 BX 1/6	13385	4000	900	850	25	2700	84	40000	123	132	6	A+
18	90-240	E27	LED18/P38/827/90-240V/25/E27 BX 1/6	13387	7000	1300	1200	25	2700	84	40000	123	132	6	A
3,5	220-240	E14	LED3.5D/R50G/827/E14/220-240V/35BX1/8	84618	550	250	240	35	2700	80	25000	50	54	8	A+
3,5	220-240	E27	LED3.5D/R50G/827/E27/220-240V/35BX1/8	93010611	550	250	240	35	2700	80	25000	50	54	8	A+



### LED Start PAR/Reflector 35W

3	100-240	E14	LED3/R50/827//E14/100-240V/35/BX1/8	84609	550	240	230	35	2700	80	15000	50	54	8	A++
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### LED Energy Smart™ GLS OMNI 40W, 60W & 75W Dimmable

7	220-240	E27	LED7D/GLS OMNI/827/220-240V/E27 HBX	93010067	-	470	-	-	2700	80	25000	60	109	6	A+
7	220-240	B22	LED7D/GLS OMNI/827/220-240V/B22 HBX	93010268	-	470	-	-	2700	80	25000	60	108	6	A+
11	220-240	E27	LED11D/GLS OMNI/827/220-240V/E27 HBX	93010267	-	810	-	-	2700	80	25000	60	109	6	A+
11	220-240	B22	LED11D/GLS OMNI/827/220-240V/B22 HBX	93010312	-	810	-	-	2700	80	25000	60	108	6	A+
14	220-240	E27	LED14D/GLS OMNI/827/220-240V/E27 HBX	96547	-	1100	-	-	2700	80	25000	67	134	6	A+
14	220-240	B22	LED14D/GLS OMNI/827/220-240V/B22 HBX	96548	-	1100	-	-	2700	80	25000	67	133	6	A+



# LED Solutions

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Lumen (lm)	Useful Lumen (lm)	Beam Angle [°]	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	Pack Qty	EEC
<b>LED Start GLS 40W, 60W, 75W &amp; 100W</b>															
7	100-240	E27	LED7/A60/827/100-240V/E27/F HBX1/6	71107	-	470	-	-	2700	80	25000	60	109	6	A+
7	100-240	B22	LED7/A60/827/100-240V/B22/F HBX1/6	71109	-	470	-	-	2700	80	25000	60	108	6	A+
10	100-240	E27	LED10/A60/827/100-240V/E27/F HBX1/6	71110	-	810	-	-	2700	80	25000	60	109	6	A+
10	100-240	B22	LED10/A60/827/100-240V/B22/F HBX1/6	71112	-	810	-	-	2700	80	25000	60	108	6	A+
13	100-240	E27	LED13/A67/827/100-240V/E27/F HBX1/6	71113	-	1055	-	-	2700	80	25000	67	140	6	A+
13	100-240	B22	LED13/A67/827/100-240V/B22/F HBX1/6	71130	-	1055	-	-	2700	80	25000	67	141	6	A+
16	100-240	E27	LED16/A67/827/100-240V/E27/F HBX1/6	71134	-	1300	-	-	2700	80	25000	67	140	6	A+
16	100-240	B22	LED16/A67/827/100-240V/B22/F HBX1/6	71140	-	1300	-	-	2700	80	25000	67	141	6	A+
7	100-240	E27	LED7/A60/865/100-240V/E27/F HBX 1/6	71141	-	500	-	-	6500	80	25000	60	109	6	A+
10	100-240	E27	LED10/A60/865/100-240V/E27/F HBX 1/6	71153	-	850	-	-	6500	80	25000	60	109	6	A+
13	100-240	E27	LED13/A67/865/100-240V/E27/F HBX 1/6	71154	-	1150	-	-	6500	80	25000	67	141	6	A+
16	100-240	E27	LED16/A67/865/100-240V/E27/F HBX1/6	71162	-	1500	-	-	6500	80	25000	67	141	6	A+
7	100-240	E27	LED7/A60/827/100-240V/E27/F/1/6 BL	84693	-	470	-	-	2700	80	25000	60	109	6	A+
7	100-240	B22	LED7/A60/827/100-240V/B22/F/1/6 BL	84697	-	470	-	-	2700	80	25000	60	108	6	A+
10	100-240	E27	LED10/A60/827/100-240V/E27/F/1/6 BL	84694	-	810	-	-	2700	80	25000	60	109	6	A+
10	100-240	B22	LED10/A60/827/100-240V/B22/F/1/6 BL	84695	-	810	-	-	2700	80	25000	60	108	6	A+

## LED Energy Smart™ Candle 25W & 40W Dimmable

4,5	220-240	E27	LED4.5D/B35/827/E27/220-240V/FR	18488	-	270	-	-	2700	80	20000	35	95	10	A+
4,5	220-240	E27	LED4.5D/B35/827/E27/220-240V/CL	18490	-	270	-	-	2700	80	20000	35	95	10	A+
4,5	220-240	E14	LED4.5D/B35/827/E14/220-240V/FR	18500	-	270	-	-	2700	80	20000	35	101	10	A+
4,5	220-240	E14	LED4.5D/B35/827/E14/220-240V/CLS	18503	-	270	-	-	2700	80	20000	35	101	10	A+
4,5	220-240	B22	LED4.5D/B35/827/B22/220-240V/FR	18549	-	270	-	-	2700	80	20000	35	93,5	10	A+
4,5	220-240	B22	LED4.5D/B35/827/B22/220-240V/CLS	18552	-	270	-	-	2700	80	20000	35	93,5	10	A+
4,5	220-240	B15	LED4.5D/B35/827/B15/220-240V/CLS	18555	-	270	-	-	2700	80	20000	35	99,5	10	A+
4,5	220-240	E14	LED4.5D/B35BT/827/E14/220-240V/FR	18568	-	270	-	-	2700	80	20000	35	113	6	A+
4,5	220-240	E27	LED4.5D/B35/827/E27/220-240V/FR BL	84699	-	270	-	-	2700	80	20000	35	98,5	10	A+
4,5	220-240	E14	LED4.5D/B35/827/E14/220-240V/FR BL	84700	-	270	-	-	2700	80	20000	35	104	10	A+
4,5	220-240	E14	LED4.5D/B35/827/E14/220-240V/CL BL	84704	-	270	-	-	2700	80	20000	35	104	10	A+
6	220-240	E27	LED6D/B38/827/E27/220-240V/FR 1/10	84537	-	470	-	-	2700	80	20000	38	106	10	A+
6	220-240	E27	LED6D/B38/827/E27/220-240V/CLS 1/10	84547	-	470	-	-	2700	80	20000	38	106	10	A+
6	220-240	E14	LED6D/B38/827/E14/220-240V/FR 1/10	84549	-	470	-	-	2700	80	20000	38	112	10	A+
6	220-240	E14	LED6D/B38/827/E14/220-240V/CLS 1/10	84550	-	470	-	-	2700	80	20000	38	112	10	A+
6	220-240	B22	LED6D/B38/827/B22/220-240V/CLS 1/10	84551	-	470	-	-	2700	80	20000	38	106	10	A+
6	220-240	B22	LED6D/B38/827/B22/220-240V/FR 1/10	93012021	-	470	-	-	2700	80	20000	38	106	10	A+

## LED Energy Smart™ Spherical 25W & 40W Dimmable

4,5	220-240	E27	LED4.5D/P45/827/E27/220-240V/FR	18606	-	270	-	-	2700	80	20000	45	72	6	A+
4,5	220-240	E27	LED4.5D/P45/827/E27/220-240V/CLS	18607	-	270	-	-	2700	80	20000	45	72	6	A+
4,5	220-240	E14	LED4.5D/P45/827/E14/220-240V/FR	18613	-	270	-	-	2700	80	20000	45	78	6	A+
4,5	220-240	E14	LED4.5D/P45/827/E14/220-240V/CLS	18614	-	270	-	-	2700	80	20000	45	78	6	A+
4,5	220-240	B22	LED4.5D/P45/827/B22/220-240V/FR	18616	-	270	-	-	2700	80	20000	45	70	6	A+
4,5	220-240	E27	LED4.5D/G80/827/E27/220-240V/FR	18660	-	270	-	-	2700	80	20000	80	110	4	A+
4,5	220-240	B22	LED4.5D/G80/827/B22/220-240V/FR	18663	-	270	-	-	2700	80	20000	80	108	4	A+
4,5	220-240	E27	LED4.5D/G125/827/E27/220-240V/CLS 1/4	70690	-	270	-	-	2700	80	20000	125	162,5	4	A+
4,5	220-240	E27	LED4.5D/P45/827/E27/220-240V/FR BL	84705	-	270	-	-	2700	80	20000	45	74	6	A+
4,5	220-240	E14	LED4.5D/P45/827/E14/220-240V/FR BL	84707	-	270	-	-	2700	80	20000	45	80	6	A+
6	220-240	E27	LED6D/P45/827/E27/220-240V/FR 1/6	84552	-	470	-	-	2700	80	20000	45	90	6	A+
6	220-240	E27	LED6D/P45/827/E27/220-240V/CLS 1/6	84553	-	470	-	-	2700	80	20000	45	90	6	A+
6	220-240	E14	LED6D/P45/827/E14/220-240V/FR 1/6	84554	-	470	-	-	2700	80	20000	45	92	6	A+
6	220-240	E14	LED6D/P45/827/E14/220-240V/CLS 1/6	84555	-	470	-	-	2700	80	20000	45	92	6	A+



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Lumen (lm)	Useful Lumen (lm)	Beam Angle (°)	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	Pack Qty	EEC
4,5	100-240	E14	LED4.5/B35/827/E14/220-240V/FR 1/10	84556	-	350	-	-	2700	80	15000	35	102	10	A+
4,5	100-240	E27	LED4.5/B35/827/E27/220-240V/FR 1/10	84557	-	350	-	-	2700	80	15000	35	96	10	A+
4,5	100-240	E14	LED4.5/B35/827/E14/220-240V/FR TWBX	84559	-	350	-	-	2700	80	15000	35	102	10	A+
4,5	100-240	B22	LED4.5/B35/827/B22/100-240V/FR 1/10	93012747	-	350	-	-	2700	80	15000	35	96	10	A+



### LED Start Spherical 30W

4,5	100-240	E14	LED4.5/P45/827/E14/220-240V/FR 1/6	84560	-	350	-	-	2700	80	15000	45	78	6	A+
4,5	100-240	E27	LED4.5/P45/827/E27/220-240V/FR 1/6	84564	-	350	-	-	2700	80	15000	45	72	6	A+
4,5	100-240	B22	LED4.5/P45/827/B22/100-240V/FR 1/6	93012748	-	350	-	-	2700	80	15000	45	72	6	A+



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Life (L70, h)	Diameter (mm)	Length (mm)	EEC	Pack Qty
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### LED T8 Premium Universal

9	100-277	G13	LED 9/T8 PPU 2ft/830/100-277V BX1/10	93012544	970	3000	80<	40,000	28	600	A+	15
9	100-277	G13	LED 9/T8 PPU 2ft/840/100-277V BX1/10	93012545	1080	4000	80<	40,000	28	600	A+	15
9	100-277	G13	LED 9/T8 PPU 2ft/865/100-277V BX1/10	93012543	1080	6500	80<	40,000	28	600	A+	15
18	100-277	G13	LED 18/T8 PPU 4ft/830/110-277V BX1/10	93011778	1944	3000	80<	40,000	28	1200	A+	15
18	100-277	G13	LED 18/T8 PPU 4ft/840/110-277V BX1/10	93011780	2160	4000	80<	40,000	28	1200	A+	15
18	100-277	G13	LED 18/T8 PPU 4ft/865/110-277V BX1/10	93011779	2160	6500	80<	40,000	28	1200	A+	15
25	100-277	G13	LED 25/T8 PPU 5ft/830/100-277V BX1/10	93012541	2700	3000	80<	40,000	28	1500	A+	15
25	100-277	G13	LED 25/T8 PPU 5ft/840/100-277V BX1/10	93012542	3000	4000	80<	40,000	28	1500	A+	15
25	100-277	G13	LED 25/T8 PPU 5ft/865/100-277V BX1/10	93012380	3000	6500	80<	40,000	28	1500	A+	15



### LED T8 Basic

8	100-240	G13	LED 8/T8 BP 2ft/830/100-240V BX1/15	93011198	700	3000	80<	40,000	28	600	A+	15
8	100-240	G13	LED 8/T8 BP 2ft/840/100-240V BX1/15	93011195	800	4000	80<	40,000	28	600	A+	15
8	100-240	G13	LED 8/T8 BP 2ft/865/100-240V BX1/15	93011196	800	6500	80<	40,000	28	600	A+	15
10	100-240	G13	LED 10/T8 BP 2ft/830/100-240V BX1/15	93011296	950	3000	80<	40,000	28	600	A+	15
10	100-240	G13	LED 10/T8 BP 2ft/840/100-240V BX1/15	93011197	1050	4000	80<	40,000	28	600	A+	15
10	100-240	G13	LED 10/T8 BP 2ft/865/100-240V BX1/15	93011305	1050	6500	80<	40,000	28	600	A+	15
16	100-240	G13	LED 16/T8 BP 4ft/830/100-240V BX1/15	93011304	1450	3000	80<	40,000	28	1200	A+	15
16	100-240	G13	LED 16/T8 BP 4ft/840/100-240V BX1/15	93011303	1600	4000	80<	40,000	28	1200	A+	15
16	100-240	G13	LED 16/T8 BP 4ft/865/100-240V BX1/15	93011302	1600	6500	80<	40,000	28	1200	A+	15
20	100-240	G13	LED 20/T8 BP 4ft/830/100-240V BX1/15	93011301	1850	3000	80<	40,000	28	1200	A+	15
20	100-240	G13	LED 20/T8 BP 4ft/840/100-240V BX1/15	93011200	2050	4000	80<	40,000	28	1200	A+	15
20	100-240	G13	LED 20/T8 BP 4ft/865/100-240V BX1/15	93011199	2050	6500	80<	40,000	28	1200	A+	15
27	100-240	G13	LED 27/T8 BP 5ft/830/100-240V BX1/15	93011309	3000	3000	80<	40,000	28	1500	A+	15
27	100-240	G13	LED 27/T8 BP 5ft/840/100-240V BX1/15	93011310	3000	4000	80<	40,000	28	1500	A+	15
27	100-240	G13	LED 27/T8 BP 5ft/865/100-240V BX1/15	93011311	3000	6500	80<	40,000	28	1500	A+	15
27	100-240	G13 Rot	LED 27/T8 BPR 5ft/830/100-240V BX1/15	93011312	3000	3000	80<	40,000	28	1500	A+	15
27	100-240	G13 Rot	LED 27/T8 BPR 5ft/840/100-240V BX1/15	93011313	3000	4000	80<	40,000	28	1500	A+	15
27	100-240	G13 Rot	LED 27/T8 BPR 5ft/865/100-240V BX1/15	93011314	3000	6500	80<	40,000	28	1500	A+	15
27	100-240	G13	LED 27/T8 VP 5ft/830/100-240V BX1/15	93011306	2500	3000	80<	40,000	28	1500	A+	15
27	100-240	G13	LED 27/T8 VP 5ft/840/100-240V BX1/15	93011307	2700	4000	80<	40,000	28	1500	A+	15
27	100-240	G13	LED 27/T8 VP 5ft/865/100-240V BX1/15	93011308	2700	6500	80<	40,000	28	1500	A+	15

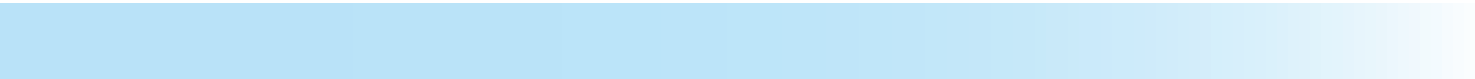


# LED Solutions

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
<b>LED T8 Start</b>												
18	220-240	G13	LED 18/T8 1200MM/840/220-240V BX1/30	<b>90455</b>	1550	4000	80<	50,000	28	1200	A+	30
18	220-240	G13	LED 18/T8 1200MM/865/220-240V BX1/30	<b>90456</b>	1650	6500	80<	50,000	28	1200	A+	30









# High Intensity Discharge Lamps



## Boost sales with brilliant, true colour

Maximised performance and energy efficiency

Exceptional colour rendering throughout lamp life

Flexibility in form and size

Outstanding in-store experience

Attract customers and win sales

GE ConstantColor™ Ceramic Metal Halide (CMH) lighting brings the world to life in glorious colour. Our unique lamps are the lighting of choice across the retail sector – from general display to light and colour-critical applications such as fresh produce, jewellery or fashion retail. GE ConstantColor™ CMH presents merchandise in the best possible light.



# New ConstantColor™ CMH Precise™

## Quality of Light

The CMH Precise™ range is an innovative lighting solution specifically designed with retail needs in mind. The range allows retailers to choose the best option that meets their visual requirements.

- Outstanding colour of Precise™ through the life of the lamp
- Further reduced lamp to lamp variance and colour shift over time
- New technology platform

## Efficiency

Precise™ is a cost effective solution that offers direct retrofit in existing installations with longer life and more lumens over useful life. The range offers flexibility in form and size to meet challenging design requirements in various retail environments.

- Very efficient, up to 110LPW and offers better lumen maintenance with 30% more lumens at 15,000 hours life than standard lamps
- Reduced maintenance cycles and spot replacements with 25% more lamp service life (18,000 hours rated)
- Lamps can be used with a range of existing electronic ballasts available from GE and other major manufacturers validated by GE



## John Lewis, UK – vibrant & sustainable

### Our Customer

A household name in the UK, John Lewis department stores operate throughout the UK and are owned by the John Lewis Partnership. The retailer's flagship store on Oxford Street is the largest branch in the partnership and was one of the first stores to benefit from a retrofit with GE Lighting lamps.

### The Challenge

Upgrading existing CMH accent installation to enhance retail displays and optimize merchandising illumination.

### Our Solution

Replacing original installation with upgraded performance 35W & 70W CMH Ultra lamps.

### Key Benefits

- Superior colour rendering and improved lighting quality
- 50%+ reduction in energy consumption
- Improved look & feel
- Long maintenance cycle



**50%** savings of energy  
**Reduced maintenance**  
↑ bright light and appearance    ↑ long service life

“By specifying GE Lighting’s CMH Ultra range, visually the stores and merchandise appears more vibrant in colour, energy and maintenance costs are reduced and sustainability is optimised.”

*Barry Ayling,  
Lighting Design Manager  
at John Lewis Partnership*

# Hamley's, UK – colourful & efficient

## The Challenge

Replace traditional halogen lamps with an efficient, high quality solution that provides superb colour rendering & quality of light.

## Our Solution

GE's ConstantColor™ CMH Supermini lamps offer superior illumination, exceptional colour rendering and higher efficiency.

### Key Benefits

- Superior colour rendering
- Extended maintenance cycles
- Long term cost savings
- Superior illumination

Up to **25%** longer lifetime  
**Reduced maintenance**  
↑ superior colour rendering **4x** more efficient



"The ConstantColor CMH Ultra lamps from GE Lighting provided us with the next generation in retail lighting, with the quality of light, colour and efficiency all optimised. These light sources offer superior illumination, conveying the quality of our goods and also a richness of colour, which is so important in an environment designed with children in mind."

*Keane Herman,*  
*Operations Manager*  
*for Hamleys Regent Street*

## ConstantColor™ CMH AR111

### Better Performance

GE's ConstantColor™ CMH AR111 are an ideal choice for energy-efficient accent and display lighting. The decorative design provides excellent beam control with low glare and superb overall light quality. Outstanding light output compared to similar solutions and premium colour rendering and consistency. Now, anyone with critical colour needs can enjoy the excellent savings that ConstantColor™ CMH AR111 lamps provide. ConstantColor™ CMH AR111 lamps offer substantial benefits that make them the clear choice for specification into new stores, or re-lamping existing store fixtures.



### Features

- 35W & 70W versions with three different beam angles
- High Color Rendering Index
- Twist and Lock GX8.5 base provides secure positioning
- Lower thermal and energy output than tungsten halogen lamps
- Compatible with both electronic and magnetic HID ballasts

### Key Benefits

- is the energy saving alternative to conventional halogen glare free applications
- delivers high lumen package, up to 3100 lumens, to replace 75W and 100W halogen in a compact design with low glare
- 75W halogen replaced by 35W CMH, 100W substituted with 70W CMH delivering 30%-53% energy savings
- provides 25%-49% more light than their halogen counterparts and have 3-4 times more service life (assuming L80)
- offers high color rendering index: 88 & 91





## Cut costs, save energy, improve light quality

Comfort and security

delivering a light closer to natural daylight

Improved safety

colours are more real, objects are better illuminated

Retrofit replacement

white light solutions for HPS and MH lamps\*

Enhancement and beautification

with advanced white light solutions

Long service life

with existing fixture and gear

It is generally observed that white light makes it easier for drivers to recognize shapes and colour, particularly in the peripheral vision. For pedestrians white light promotes a feeling of security and confidence, much more than under yellow or orange street lighting.



\*additional ballast needed for mercury replacements

# ConstantColor™ CMH StreetWise™



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™ ceramic metal halide lamps are an excellent white light energy efficient choice, offering:

- Very efficient, up to 111LPW
- Direct retrofit to sodium sockets (ballast needed for mercury repl.)
- Outstanding Lumen Maintenance – 80% at 12,000hrs
- B10 life 12,000hrs / 16,000hrs, B50% 24,000hrs
- Wide range – 50/70/100/150W
- Dimmable (except 50W on EM) to achieve further energy saving
- Standard base for simplicity
- System flexibility – operates on both Electronic and Electro-magnetic ballasts
- Horizontal burning position, vertical validation available for 70W & 100W
- Lowest cost new system – Standard base, standard ballast, standard optics

## When to specify StreetWise™

In applications where lighting class reduction using lamps above Ra8 60 can be considered, StreetWise™ is a clear leader. Its excellent Ra8 value of 70 provides improved colour rendering over similar systems of comparable life and efficiency.



## Bristol City, UK – efficient & safe

### The Challenge

Replace the street lighting for one of the short-listed cities for the 2014 Green Capital Award with a new solution which makes the pedestrians feel safer and reduce the carbon footprint of the city.

### Our Solution

GE Lighting has upgraded the street lighting in Bristol to deliver an energy efficient, white light solution with higher efficiency CMH Streetwise™ lamps.



### Key Benefits

- Safer roads with white light
- Better facial recognition
- 24,000 hour rated lifetime
- 4.2M KWH and £500,000 saving per year
- Reduced CO<sub>2</sub> emissions
- High lumen maintenance
- Dimmable solution

↓ Reduced energy consumption and CO<sub>2</sub> emission

### White light solution

↑ dimmable light    ↑ safer roads

“We are delighted with the street lighting upgrade to GE’s StreetWise™ ceramic metal halide lamps. Along with other energy reduction projects financed with interest free loans from Salix & Seels the overall result is astounding and will not only make our streets safer but will enable Bristol to save 4.2M kWh and £500,000 per year on our energy bills as well as a reduction in CO<sub>2</sub> emissions.”

*Robbie Park,  
Principal Lighting Officer  
for Bristol City Council*

# Selector

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



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

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



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

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



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

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



**Double Ended (TD)**

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

ConstantColor™ CMH (Ceramic Metal Halide) Reflectors



**MR16 Precise™, and Standard**

Cap: GX10  
Wattages: 20-35W  
Colours: 830, 930, 942  
Rated life: 10,000-18,000Hrs



**AR111**

Cap: GX8.5  
Wattages: 35-70W  
Colours: 930  
Rated life: 12,000Hrs



**PAR20**

Cap: E27  
Wattages: 20-35W  
Colours: 830, 942  
Rated life: 10,000-12,000Hrs



**PAR30**

Cap: E27  
Wattages: 20-70W  
Colours: 830, 942  
Rated life: 10,000-13,000Hrs

ConstantColor™ CMH (Ceramic Metal Halide) Elliptical and Tubular



**Open Rated Elliptical**

Cap: E27  
Wattages: 70-150W  
Colours: 942  
Finish: Clear or Diffuse  
Rated life: 10,000-15,000Hrs



**Elliptical**

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



**StreetWise™**

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



**Tubular**

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



**Open Rated Tubular**

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

# High Intensity Discharge Lamps

## CMH Ballasts



### 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

## Arcstream Metal Halide

Operates on suitable metal halide/high pressure sodium ballast and metal halide ignitor



### Single Ended

Cap: G12  
Wattages: 70-150W  
Colours: 3000-4200K  
CRI: 70-80  
Rated life: 6,000Hrs



### Double Ended

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



### Double Ended Coloured

Cap: RX7s-24  
Wattages: 150W  
Colours: Green, Blue, Orange, Magenta  
Rated life: 6,000Hrs



### Tubular

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



### Elliptical

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

## Multi-Vapour Metal Halide

Operates from CWA Control Gear



### Standard - Elliptical

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



### High Output - Elliptical

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

## Kolorarc™ Metal Halide

Operates from suitable mercury or metal halide ballast rated 3.5A and metal halide ignitor



### Tubular

Cap: E40  
Wattages: 400W  
Colours: 6000K  
CRI: 90  
Finish: Clear  
Rated life: 14,000Hrs



### Elliptical

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

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



**Linear**

Cap: RX7s - spec  
Wattages: 1500-2000W  
Colours: 5200K  
CRI: 65  
Rated life: 6,000Hrs



**Tubular Clear**

Cap: E40  
Wattages: 1000-2000W  
Colours: 4000-6000K  
CRI: 65-93  
Rated life: 2,000 -8,000Hrs



**Internal Ignitor**

Cap: E40  
Wattages: 2000W  
Colours: 4000-6000K  
CRI: 65-93  
Rated life: 2,000-5,000Hrs

**Lucalox™**  
High Pressure Sodium



**Lucalox™ XO Superlife**

Cap: E27, E40  
Wattages: 50-400W  
Feature: Extra high lumen output and Twin Arc tubes for extra life  
Finish: Tubular Clear or Elliptical Diffuse  
Rated life: 40,000 -60,000Hrs



**Lucalox™ XO**

Cap: E27, E40  
Wattages: 50-600W  
Feature: Extra high lumen output  
Finish: Tubular Clear or Elliptical Diffuse  
Rated life: 32,000 -40,000Hrs



**Lucalox Superlife**

Cap: E40  
Wattages: 250-400W  
Feature: Twin Arc tubes for extra life  
Finish: Elliptical Diffuse  
Rated life: 55,000Hrs



**Lucalox™ Standard**

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



**Lucalox Start**

Cap: E27, E40  
Wattages: 70-400W  
Finish: Tubular clear  
Rated life: 12,000-24,000Hrs



**Lucalox™ Internal Ignitor**

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

**Mercury Lamps**



**Kolorlux™ Mercury Standard\***

Cap: E27, E40  
Wattages: 50-400W  
Rated life: 16,000-20,000Hrs

\* only direct shipment



**Kolorlux™ Mercury Start\***

Cap: E27  
Wattages: 125W  
Rated life: 12,000 Hrs

\* only direct shipment



**Mixed Light\***

Cap: E27, E40  
Wattages: 160-500W  
Voltage: 230-240V or 240-250V  
Rated life: 8,000Hrs

\* only direct shipment

# High Intensity Discharge Lamps

## Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

### Watts:

Energy Used – Nominal Watts. To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

### Cap:

The type of cap fitted. See page 148-149 for cap drawings

**Nominal Volts:** Lamp data is based on operation at rated voltage

**Product description:** The lamp's identification code

**Lumens:** Initial Lumens - light output at 100 hours

**Operating position:**  
U - Universal  
HOR - Horizontal  
BU - Base Up  
VBU - Vertical Base Up

### Additional parameters:

#### CCT [K]: Colour Temperature - Kelvins

A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.

#### CRI [Ra]: Colour Rendering Index

An indication of the ability of the lamp to render object colours in a normal, natural way. The higher the number (0-100), the better the colour appearance.

#### Life (Horizontal):

Rated average life in horizontal burning position

**EEC:** Energy Efficiency Class

**Diameter:** Bulb diameter in mm

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

### ConstantColor™ - CMH Supermini

20	90	GU6.5	CMH20/T/UVC/830/GU6.5	40399	1615	830	U	12,000	12,000*	52	13	21.78	A+	12
35	90	GU6.5	CMH35/T/UVC/930/GU6.5	88656	3400	930	U	10000*	10,000*	52	13	44.24	A+	12

### CMH 70 / T / UVC / U / 9 30 / G12 ULTRA

**(70)** Identifies Lamp's wattage

**(UVC)** UV Control

**(U)** Operating Position

**(G12):** Identifies the cap type

#### (CMH) Product Family

CMH -  
ConstantColor™ CMH  
ARC - Arcstream™  
KRC - Kolorarc™  
MPR/MVR - Multi-Vapor™  
SPL - Sportlight™  
LU - Lucalox™  
H - Mercury  
ML - Blended Light  
BLS - Ballast

#### (T) Identifies the lamp format.

TD - Double Ended  
E - Elliptical Clear  
D - Elliptical Diffused  
L - Linear  
PARxx - PAR + size  
T - Tubular Clear

#### (9) Colour rendering

6 - nom 60, min 57 (Group 2B)  
7 - nom 70, min 67 (Group 2A)  
8 - nom 80, min 77 (Group 1B)  
9 - nom 90, min 87 (Group 1A)

#### (30) Colour temperature

XX = First 2 digits of temperature in Kelvin - XX00K  
Example: 30 is 3000K

**Colour:** Combination of colour rendering and colour temperature

**Length:** Lamp length in mm

**Energy Consumption:** kWh/1000h

#### Product code:

It is important to use this code when ordering to ensure that you receive the exact product you require

#### Life (Vertical):

Rated average life in vertical burning position

#### Pack quantity:

Number of product units packed in a case





## ConstantColor™ CMH 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
<b>ConstantColor™ – CMH Supermini</b>														
20	95	GU6.5	CMH20/TC/UVC/830/GU6.5	40399	1615	830	U	12,000	12,000	52	13	21.93	A	12
35	90	GU6.5	CMH35/T/UVC/930/U/GU6.5 PRECISE™	67685	4000	930	U	18,000	18,000	52	13	42.90	A+	12
35	93	GU6.5	CMH35/T/UVC/U/930/GU6.5 ULTRA*	76122	3500	930	U	16,500	16,500	52	13	43.05	A+	12
35	90	GU6.5	CMH35/T/UVC/930/GU6.5	88656	3400	930	U	10,000	10,000	52	13	42.40	A+	12
35	95	GU6.5	CMH35/T/UVC/942/GU6.5	88657	3400	942	U	12,000	12,000	52	13	42.36	A	12

\* Will be phased out

## ConstantColor™ – CMH Single Ended Mini

20	90	G8.5	CMH20/TC/UVC/U/830/G8.5 PLUS	39858	1650	830	U	12,000	12,000	85	14.5	21,78	A	12
35	90	G8.5	CMH35/T/UVC/U/830/G8.5 Plus	43273	3400	830	U	16,500	16,500	85	14.5	43,40	A+	12
35	90	G8.5	CMH35/TC/UVC/U942/G8.5	26348	3200	942	U	18,000	18,000	85	14.5	44,24	A	12
35	90	G8.5	CMH35/TC/UVC/U/930/G8.5 PRECISE™	67683	4000	930	U	18000	18000	85	14.5	42,90	A+	12
35	93	G8.5	CMH35/TC/U/UVC/930/G8.5 ULTRA*	76120	3600	930	(ECG)/V60 (EM)	16,500	16,500	85	14.5	43,08	A+	12
70	90	G8.5	CMH70/TC/UVC/U/942/G8.5	26349	6200	942	U	15,000	15,000	85	14.5	80,43	A	12
70	85	G8.5	CMH70/TC/UVC/U/830/G8.5 PLUS	67698	7000	830	U	15,000	15,000	85	14.5	79,20	A+	12
70	85	G8.5	CMH70/TC/UVC/U/930/G8.5 PRECISE™	67681	7800	930	U	18000	18000	85	14.5	80,30	A+	12
70	86	G8.5	CMH70/TC/UVC/U/930/G8.5 ULTRA WHITE*	63595	6700	930	U	18,000	18,000	85	14.5	80,61	A+	12
70	86	G8.5	CMH70/TC/UVC/U/930/G8.5 ULTRA*	96751	6200	930	U	18,000	18,000	85	14.5	79,94	A+	12

\* Will be phased out

## ConstantColor™ – CMH Single Ended

20	90	G12	CMH20/T/UVC/U/830/G12 PLUS	42708	1650	830	U	12 000	12 000	90	14,5	21,78	A	12
35	90	G12	CMH35/T/UVC/U/830/G12 PLUS	43272	3400	830	U	16 500	16 500	90	14,5	43,37	A+	12
35	90	G12	CMH35/T/UVC/U/930/G12 PRECISE™	67684	4000	930	U	18 000	18 000	90	14,5	42,9	A+	12
35	93	G12	CMH35/T/UVC/930/G12 ULTRA*	76121	3600	930	U (ECG)/V60 (EM)	16 500	16 500	90	14,5	43,06	A+	12
35	90	G12	CMH35/T/UVC/U/942/G12	92141	3200	942	U	18 000	18 000	90	14,5	44,57	A	12
70	90	G12	CMH70/T/UVC/U/830/G12 Plus	67699	7000	830	U	15 000	15 000	90	19	76,48	A+	12
70	90	G12	CMH70/T/UVC/U/942/G12	20013	6000	942	U	15 000	15 000	90	19	80,09	A+	12
70	85	G12	CMH70/T/UVC/U/930/G12 PRECISE™	67682	7800	930	U	18 000	18 000	90	19	80,3	A+	12
70	86	G12	CMH70/T/UVC/U/930/G12 ULTRA WHITE*	63596	6600	930	U	18 000	18 000	90	19	80,3	A+	12
70	86	G12	CMH70/T/UVC/U/930/G12 ULTRA *	96752	6400	930	U	18 000	18 000	90	19	80,08	A+	12
150	90	G12	CMH150/T/UVC/U/830/G12	20012	14000	830	U	12 000	12 000	100	19	160,27	A+	12
150	90	G12	CMH150/T/UVC/U/942/G12	20014	13000	942	U	12 000	12 000	100	19	164,22	A	12

\* Will be phased out

## ConstantColor™ - CMH Double Ended

35	90	RX7s	CMH35/TD/UVC/830/RX7s	43278	3400	830	HOR±45°	-	15,000	118	21	41,99	A	12
70	90	RX7s	CMH70/TD/UVC/830/RX7s	36910	7000	830	HOR±45°	-	15,000	118	21	80,73	A+	12
70	90	RX7s	CMH70/TD/UVC/942/RX7s	38698	6200	942	HOR±45°	-	15,000	118	21	79,42	A+	12
150	96	RX7s-24	CMH150/TD/UVC/830/RX7s-24	36912	14500	830	HOR±45°	-	15,000	135	27	158,73	A+	12
150	96	RX7s-24	CMH150/TD/UVC/942/RX7s-24	38692	12500	942	HOR±45°	-	15,000	135	27	155,26	A+	12



# High Intensity Discharge Lamps

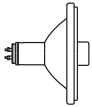
Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Candela (cd)	Beam Angle [°]	Colour	Operating position	Rated life (Vertical) (h)	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
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## ConstantColor™ - CMH MR16



20	95	GX10	CMH20/MR16/UVC/830/GX10/SP	40400	9000	12	830	U	12,000	12,000	54.5	51	21.73	A	12
20	95	GX10	CMH20/MR16/UVC/830/GX10/FL GX10	40401	2900	25	830	U	12,000	12,000	54.5	51	21.70	A	12
20	95	GX10	CMH20/MR16/UVC/830/GX10/WFL GX10	42691	1500	40	830	U	12,000	12,000	54.5	51	21.76	A	12
35	93	GX10	CMH35/MR16/U/930/GX10/SP PRECISE™	67686	18000	12	930	U	18,000	18,000	54.5	51	39.20	A	12
35	93	GX10	CMH35/MR16/U/930/GX10/FL PRECISE™	67687	7300	25	930	U	18,000	18,000	54.5	51	39.20	A	12
35	93	GX10	CMH35/MR16/U/930/GX10/WFL PRECISE™	67697	3700	40	930	U	18,000	18,000	54.5	51	39.20	A	12
35	90	GX10	CMH35/MR16/UVC/930/GX10/SP GX10	88658	16000	12	930	U	10,000	10,000	54.5	51	42.21	A	12
35	90	GX10	CMH35/MR16/UVC/930/GX10/FL GX10	88659	5500	25	930	U	10,000	10,000	54.5	51	42.17	A	12
35	90	GX10	CMH35/MR16/UVC/930/GX10/WFL GX10	88660	3000	40	930	U	10,000	10,000	54.5	51	42.21	A	12
35	90	GX10	CMH35/MR16/UVC/942/GX10/SP GX10	88661	16000	12	942	U	12,000	12,000	54.5	51	42.26	A	12
35	90	GX10	CMH35/MR16/UVC/942/GX10/FL GX10	88662	5500	25	942	U	12,000	12,000	54.5	51	42.24	A	12
35	90	GX10	CMH35/MR16/UVC/942/GX10/WFL GX10	88663	3000	40	942	U	12,000	12,000	54.5	51	42.20	A	12

## ConstantColor™ - CMH AR111



35	90	GX8.5	CMH35/R111/UVC/930/GX8.5/SP10	99989	44000	10	930	U	12,000	12,000	95	111	34.32	A	6
35	90	GX8.5	CMH35/R111/UVC/930/GX8.5/FL24	99990	10000	24	930	U	12,000	12,000	95	111	34.32	A	6
35	90	GX8.5	CMH35/R111/UVC/930/GX8.5/FL40	99991	5000	40	930	U	12,000	12,000	95	111	34.32	A	6
70	95	GX8.5	CMH70/R111/UVC/930/GX8.5/SP10	99992	50000	10	930	U (ECG)/V60 (EM)	12,000	12,000	95	111	64.24	A	6
70	95	GX8.5	CMH70/R111/UVC/930/GX8.5/FL24	99993	18000	24	930	U (ECG)/V60 (EM)	12,000	12,000	95	111	64.24	A	6
70	95	GX8.5	CMH70/R111/UVC/930/GX8.5/FL40	99994	8500	40	930	U (ECG)/V60 (EM)	12,000	12,000	95	111	64.24	A	6

## ConstantColor™ - CMH PAR 20



20	95	E27	CMH20/PAR20/UVC/830/E27/SP10	26478	13000	10	830	U	12,000	12,000	92	64	21.67	A	15
20	95	E27	CMH20/PAR20/UVC/830/E27/FL25	26481	3750	25	830	U	12,000	12,000	92	64	21.85	A	15
35	90	E27	CMH35/PAR20/UVC/830/E27/SP10	21684	22000	10	830	U	10,000	10,000	92	64	42.68	A	15
35	90	E27	CMH35/PAR20/UVC/830/E27/FL25	21685	7500	25	830	U	10,000	10,000	92	64	42.68	A	15
35	90	E27	CMH35/PAR20/UVC/942/E27/SP10	44890	19450	10	942	U	10,000	10,000	92	64	42.36	A	15
35	90	E27	CMH35/PAR20/UVC/942/E27/FL25	44919	6950	25	942	U	10,000	10,000	92	64	43.75	A	15

## ConstantColor™ - CMH PAR 30



20	95	E27	CMH20/PAR30/UVC/830/E27/SP10	26497	19800	10	830	U	12,000	12,000	124	95.5	21.73	A	6
20	95	E27	CMH20/PAR30/UVC/830/E27/FL25	26518	4900	25	830	U	12,000	12,000	124	95.5	21.71	A	6
35	90	E27	CMH35/PAR30/UVC/830/E27/SP10	21689	39600	10	830	U	10,000	10,000	124	95.5	43.46	A	6
35	90	E27	CMH35/PAR30/UVC/830/E27/FL 25	21690	11000	25	830	U	10,000	10,000	124	95.5	43.35	A	6
35	90	E27	CMH35/PAR30/UVC/942/E27/SP10	44939	36700	10	942	U	10,000	10,000	124	95.5	43.70	A	6
35	90	E27	CMH35/PAR30/UVC/942/E27/FL25	44942	10200	25	942	U	10,000	10,000	124	95.5	43.54	A	6
70	90	E27	CMH70/PAR30/UVC/830/E27/SP15	21683	42800	15	830	U	13,000	13,000	124	95.5	81.79	A	6
70	90	E27	CMH70/PAR30/UVC/830/E27/FL40	21682	10000	40	830	U	13,000	13,000	124	95.5	81.72	A	6
70	90	E27	CMH70/PAR30/UVC/942/E27/SP15	74620	33500	15	942	U	10,000	10,000	124	95.5	82.62	A	6
70	90	E27	CMH70/PAR30/UVC/942/E27/FL40	74619	9000	40	942	U	10,000	10,000	124	95.5	82.62	A	6

## ConstantColor™ - CMH Elliptical Clear



70	97	E27	CMH70/E/UVC/U/830/E27/C	97982	6300	-	830	U	15,000	15,000	138	54	77.70	A+	6
100	102	E27	CMH100/E/UVC/U/830/E27/C	97984	9200	-	830	U	15,000	15,000	138	54	110.92	A+	6

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
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### ConstantColor™ - CMH Elliptical Clear, Open Rated

150	95	E27	CMH150/UVC/O/U/942/E27/C	43285	13200	942	U	15,000	15,000	138	55	163.27	A	6
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### ConstantColor™ - CMH Elliptical Diffuse

70	97	E27	CMH70/E/UVC/U/830/E27/D	97979	6000	830	U	15,000	15,000	138	54	78.85	A	6
100	102	E27	CMH100/E/UVC/U/830/E27/D	97985	8700	830	U	10,000	10,000	138	54	110.37	A+	6
250	117	E40	CMH250/E/UVC/U/830/E40/D	10591	23500	830	U	24,000	24,000	227	90	289.38	A+	12
400	120	E40	CMH400/E/UVC/U/830/E40/D	13087	39000	830/836	U	20,000	20,000	282	120	453.86	A+	6



### ConstantColor™ - CMH Elliptical Diffuse, Open Rated

70	97	E27	CMH70/UVC/O/U/940/E27/D	43282	5300	940	U	15,000	15,000	138	54	83.98	A	6
150	95	E27	CMH150/UVC/O/U/940/E27/D	43286	12300	940	U	15,000	15,000	138	55	164.63	A	6

### ConstantColor™ - CMH Tubular Clear StreetWise

50	80	E27	CMH50/TT/UVC/730/E27 STREETWISE ECG	64982	5000	730	HOR±15	-	24,000	156	39	55.00	A+	12
50	85	E27	CMH50/TT/UVC/730/E27 STREETWISE EM	77400	4500	730	HOR±15	-	24,000	156	39	57.20	A+	12
70	95/90	E27	CMH70/TT/UVC/730/E27 STREETWISE	77401	7640/7100	730	HOR±15/VBU	20,000	24,000	156	39	78.10	A+	12
100	100/95	E40	CMH100/TT/UVC/730/E40 STREETWISE	77399	10900/10300	730	HOR±15/VBU	20,000	24,000	211	48	107.80	A+	12
150	100	E40	CMH150/TT/UVC/730/E40 STREETWISE	77402	16200	730	HOR±15	-	24,000	211	48	165.00	A+	12



### ConstantColor™ - CMH Tubular Clear

70	95	E27	CMH70/TT/UVC/830/E27	38752	6400	830	U	15,000	20,000	156	37	80.71	A+	12
100	109	E40	CMH100/TT/UVC/830/E40	92478	9200	830	U	10,000	15,000	209	48	110.28	A+	12
150	95	E40	CMH150/UVC/T/U/842/E40	21514	14500	842	U	15,000	15,000	209	48	160.27	A+	12
150	100	E40	CMH150/TT/UVC/830/E40	38749	14000	830	U	15,000	20,000	209	48	164.51	A+	12
250	117	E40	CMH250/TT/UVC/U/830/E40	10589	25000	830	U	24,000	24,000	260	48	288.20	A+	12
250	110	E40	KRC250/CMH/830/T/H/E40	20302	20000	830	HOR	-	24,000	260	48	241.52	A	12
250	107	E40	CMH250/T/U/942/E40	62356	25000	942	U	16,000*	16,000*	260	48	285.53	A+	12
400	120	E40	CMH400/TT/UVC/U/830/E40	13067	41000	830/836	U	20,000	20,000	278	60	454.14	A+	12



\*830 in horizontal burning position, 836 in vertical burning position

### ConstantColor™ - CMH Tubular Clear, Open Rated

150	100	E40	CMH150/UVC/O/T/U/830/E40	21516	14000	830	U	12,000	12,000	209	48	161.06	A+	12
150	100	E40	CMH150/UVC/O/T/U/942/E40	21517	14000	942	U	12,000	12,000	209	48	163.36	A	12



### CMH Standard Ballast

35	220-240	BLS/E/35W/CMH	61487	integral	350	10
35	220-240	BLS/E/35W/CMH /R CC	61488	remote cable clamp	370	10
70	220-240	BLS/E/70W/CMH	61376	integral	350	10



### CMH Miniature Ballast

20	220-240	BLS/E/20W/CMH	78711	integral	165	12
20	220-240	BLS/E/20W/CMH/R/CC	78712	remote cable clamp	180	12
35	220-240	BLS/E/35W/CMH	78714	integral	165	12
35	220-240	BLS/E/35W/CMH/R/CC	78715	remote cable clamp	180	12



# High Intensity Discharge Lamps

## Metal Halide 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
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### Arcstream™ Single Ended RG-2



150	95	G12	ARC150/G12/830*	88654	12000	3000	80	U	6,000	6,000	76	21.5	165.00	A	10
150	95	G12	ARC150/G12/842*	88655	11500	4200	80	U	6,000	6,000	76	21.5	165.00	A	10

WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product. / \* Will be phased out.

### Arcstream™ Single Ended UVC



70	95	G12	ARC70/T/U/730/G12*	97286	5200	3000	70	U	6,000	6,000	87	23	77.00	A	10
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\* Will be phased out.

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)	Weighted Energy Cons. (kWh/1000h)	Energy Efficiency Class (EEC)	Pack Qty
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### Arcstream™ Double Ended UVC



70	95	RX7s	ARC70/UVC/TD/730/Rx7s	34530	5500	3000	75	HOR±45°	12,000	114	19	82.50	A	12
70	95	RX7s	ARC70/UVC/TD/742/Rx7s	34536	5500	4200	75	HOR±45°	12,000	114	22	82.50	A	12
150	95	RX7s-24	ARC150/UVC/TD/732/Rx7s-24	34527	12000	3200	75	HOR±45°	12,000	132	22	165.00	A	12
150	95	RX7s-24	ARC150/UVC/TD/742/Rx7s-24	34535	12000	4200	75	HOR±45°	12,000	132	25	165.00	A	12

### Arcstream™ Double Ended RG-3



150	95	RX7s-24	ARC150/AQUA/TD/865/Rx7s-24	35284	11000	6500	85	HOR±45°	8,000	132	25	165.00	A	12
150	110	RX7s-24	ARC150/TD/952/Rx7s-24	93772	11000	5200	90	HOR±45°	8,000	132	25	165.00	A	12
250	114	Fc2	ARC250/TD/832/Fc2	30099	20000	3200	75	HOR±45°	12,000	163	25	275.00	A	12
250	115	Fc2	ARC250/TD/842/Fc2	30101	20000	4200	75	HOR±45°	8,000	163	25	275.00	A	12

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

Colour	Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Operating position	Rated life (Horizontal) (h)	Length (mm)	Diameter (mm)	Weighted Energy Cons. (kWh/1000h)	Energy Efficiency Class (EEC)	Pack Qty
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### Arcstream™ Double Ended Coloured UVC



green	150	95	RX7s-24	ARC150/UVC/TD/GREEN/RX7S-24	12181	HOR±45°	6,000	132	25	165.00	B	12
blue	150	95	RX7s-24	ARC150/UVC/TD/BLUE/RX7S-24	12182	HOR±45°	6,000	132	25	165.00	C	12
magenta	150	95	RX7s-24	ARC150/UVC/TD/MAGENTA/RX7S-24	12184	HOR±45°	6,000	132	25	165.00	B	12

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)	Weighted Energy Cons. (kWh/1000h)	Energy Efficiency Class (EEC)	Pack Qty
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### Arcstream™ Tubular Clear



250	100	E40	ARC250/T/H/960/E40	32664	19000	6000	90	HOR±45°	-	12,000	220	47	299.58	A	12
250	100	E40	ARC250/T/H/960/E40 MIC	93010351	19111	6000	90	HOR±45°	-	12,000	220	47	287.10	A	12
250	100	E40	ARC250/T/VBU/960/E40	32665	19000	6000	90	BU±45°	12,000	-	220	47	295.64	A	12
250	112	E40	ARC250/T/H/742/E40	42357	21000	4200	70	HOR±15°	-	12,000	220	48	294.89	A	12
400	105	E40	ARC400/T/H/742/E40	42369	35000	4200	70	HOR±15°	-	12,000	260	47	444.20	A	12

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

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>Arcstream™ Elliptical Diffuse</b>															
250	100	E40	ARC250/D/H/740/E40	16870	19500	4000	70	HOR±15°	-	14,000	227	90	294.12	A	10
250	100	E40	ARC250/D/H/960/E40	30047	17000	6000	90	HOR±45°	-	12,000	227	91	294.94	B	12
250	100	E40	ARC250/D/VBU/960/E40	32666	17000	6000	90	VBU±45°	12,000	-	227	90	294.71	A	12

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

175**	132	E40	MVR175/U/40*	85973	13600	4000	55	U	10,000	10,000	211	90	192.50	A	10
250**	133	E40	MVR250/U/40*	85952	20800	4200	65	U	10,000	10,000	211	90	274.89	A	12
400**	135	E40	MVR400/U/40*	85944	40000	4000	65	U	20,000	20,000	292	117	440.00	A+	6
1000**	V250 H245	E40	MVR1000/U/40	85924	108000	4000	65	U	15,000	15,000	390	178	1188.00	A+	6

\*Non EU Product

\*\*Performance data claimed for vertical position

### Multi-Vapor™ Elliptical Diffuse

175**	132	E40	MVR175/C/U/40*	85974	12900	3900	55	U	10,000	10,000	211	90	192.50	A	10
250**	133	E40	MVR250/C/U/40*	85953	20000	3900	70	U	10,000	10,000	211	90	275.00	A	12
400**	135	E40	MVR400/C/U/40	85951	40000	3700	70	U	20,000	20,000	292	117	440.00	A+	6

\*Non EU Product

\*\*Performance data claimed for vertical position

### Multi-Vapor™ High Output Elliptical Clear

250	133	E40	MVR250/VBU/40	86004	22000	4200	65	VBU±15°	10,000	-	216	89	275.00	A	12
400	135	E40	MVR400/VBU/40	86000	41000	4000	65	VBU±15°	20,000	-	295	117	440.00	A+	6

### Multi-Vapor™ High Output Elliptical Diffuse

250	133	E40	MVR250/C/VBU/40	86009	20000	4000	65	VBU±15°	10,000	-	216	89	275.00	A	12
400*	135	E40	MPR400/C/VBU/0/40	85906	38000	3200	70	VBU±15°	20,000	-	295	117	440.00	A+	6
400	135	E40	MVR400/C/VBU/40	85977	40000	3700	70	VBU±15°	20,000	-	295	117	440.00	A+	6

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 example, if the lamp is located near combustible material or in an area which is unoccupied for extended periods, an enclosed fixture which can contain fragments of hot quartz or glass is recommended. For more information contact your fixture manufacturer.

### Kolorarc™ Tubular Clear

400	130	E40	KRC400/T/H/960/E40	30052	28400	6000	90	HOR±45°	-	14,000	270	58	418.43	A	12
400	130	E40	KRC400/T/VBU/960/E40	30704	27000	6000	90	VBU±45°	14,000	-	270	58	404.76	A	12

### Kolorarc™ Elliptical Clear

400	135	E40	KRC400/E/VBU/645/E40 *	16871	33500	4500	65	VBU±30°	14,000	-	286	122	413.23	A	10
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\* Will be phased out

### Kolorarc™ Elliptical Diffuse

400	130	E40	KRC400/D/H/960/E40 *	10834	26800	6000	90	HOR±45°	-	14,000	282	121	408.00	B	6
400	130	E40	KRC400/D/VBU/960/E40	10837	25400	6000	90	VBU±45°	14,000	-	282	121	405.66	A	6
400	135	E40	KRC400/D/VBU/740/E40	16872	33500	4000	70	VBU±30°	14,000	-	286	122	412.21	A	10
400	135	E40	KRC400/D/H/740/E40 *	16875	38000	4000	70	HOR±15°	-	14,000	286	120	419.74	A+	10

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)

\* Will be phased out

# High Intensity Discharge Lamps

## Metal Halide Lamps (continued)

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>Sportlight™ Linear</b>															
1500	250	RX7SM	SPL1500/L/H/652/Rx7SM	16920	120000	5200	65	HOR±15°	-	6,000	256	24	1672.00	A	1
2000	230	spec.	SPL2000/L/H/651/SPEC	16922	200000	5200	65	HOR±15°	-	6,000	311	26	2339.36	A	1



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>Sportlight™ Tubular Clear</b>															
1000	120	E40	SPL1000/T/H/960/E40	88882	80000	6000	93	HOR±60°	-	8,000	334	65	1147.07	A	4
2000	125	E40	SPL2000/220V/T/H/640/E40	36078	189000	4000	65	HOR±75°	-	2,000	430	102	2090.00	A+	4
2000	225	E40	SPL2000/380V/T/H/960/E40	30102	170000	6000	93	HOR±60°	-	5,000	430	102	2294.78	A	4



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>Sportlight™ Internal Ignitor</b>															
2000	225	E40	SPL2000/380V/I/T/H/960/E40	30103	170000	6000	93	HOR±60°	-	5,000	430	101	2291.96	A	4
2000	235	E40	SPL2000/380V/I/T/H/640/E40	33148	190000	4000	65	HOR±75°	-	2,000	430	101	2182.21	A+	4



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

Internal Ignitor

## High Pressure Sodium

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 Superlife Tubular Clear</b>															
70	90	E27	LU 70/XO/SBV/T/E27	88258	6600	2000	25	U	50,000	156	39	83.06	A+	25	
100	100	E40	LU 100/XO/SBV/T/E40	88256	10500	2000	25	U	60,000	211	48	110.24	A+	12	
150	100	E40	LU 150/XO/SBV/T/E40	78737	17500	2000	25	U	60,000	211	48	168.90	A+	12	
250	100	E40	LU 250/XO/SBV/T/E40	78738	33000	2000	25	U	55,000	260	48	288.68	A+	12	
400	100	E40	LU 400/XO/SBV/T/E40	78739	55800	2000	25	U	55,000	283	48	450.56	A++	12	



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 Superlife Elliptical Diffuse</b>															
50	85	E27	LU50/85/XO/SBV/D/E27	97238	3500	2000	25	U	40,000	156	72	58.30	A	12	
70	90	E27	LU70/XO/SBV/D/E27	88257	6000	2000	25	U	50,000	156	71	80.28	A	12	
100	100	E40	LU100/XO/SBV/D/E40	88255	10000	2000	25	U	60,000	186	75	113.30	A+	12	




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>															
50	85	E27	LU50/85/XO/T/27	93373	4400	2100	25	U	35,000	156	39	59.63	A	25	
70	90	E27	LU70/90/XO/T/27	93375	6600	2100	25	U	40,000	156	39	80.43	A+	25	
100	100	E40	LU100/100/XO/T/40	93376	10700	2100	25	U	40,000	211	48	111.89	A+	12	
150	100	E40	LU150/150/XO/T/40	93377	17500	2100	25	U	40,000	211	48	168.30	A+	12	
250	100	E40	LU250/XO/T/40	93378	33200	2100	25	U	40,000	260	48	285.73	A+	12	
400	100	E40	LU400/XO/T/40	93269	56500	2100	25	U	32,000	292	48	448.34	A++	12	
600	115	E40	LU600/XO/T/40	93270	88500	2100	25	U	32,000	292	48	667.21	A++	12	



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>															
50	85	E27	LU50/85/XO/D/27	45696	3600	2100	25	U	35,000	156	72	58.31	A	12	
70	90	E27	LU70/90/XO/D/27	45697	6000	2100	25	U	40,000	156	72	83.83	A	12	
100	100	E40	LU100/100/XO/D/40	93379	10200	2100	25	U	40,000	186	76	112.19	A+	12	
150	100	E40	LU150/100/XO/D/40	93380	16900	2100	25	U	40,000	227	91	170.14	A+	12	
250	100	E40	LU250/XO/D/40	93381	31200	2100	25	U	40,000	227	91	285.67	A+	12	
400	105	E40	LU400/XO/D/40	93296	54000	2100	25	U	32,000	292	122	443.02	A+	6	



External Ignitor, Internal Ignitor

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™ Superlife Elliptical Diffuse</b> 														
250	100	E40	LU250/SBY/D/E40*	35590**	26000	2000	25	U	55,000	227	91	275.65	A+	12
400	105	E40	LU400/SBY/D/E40*	35591	48000	2000	25	U	55,000	282	122	456.21	A+	6

\* Non EU product / \*\* Will be phased out

### Lucalox™ Standard Tubular Clear

70	90	E27	LU 70/90/MO/T/E27	46221	6100	2000	25	U	28,500	156	39	77.98	A+	25
100	100	E40	LU100/100/MO/T/40	93767	9600	2000	25	U	28,500	211	48	107.57	A+	12
150	100	E40	LU150/100/HO/T/E40	97241	17500	2000	25	U	24,000	283	48	172.70	A+	12
150	100	E40	LU150/100/40*	44244	15300	2000	25	U	28,500	211	48	163.71	A+	12
250	100	E40	LU250/T/40*	22453	28500	2000	25	U	28,500	260	48	276.78	A+	12
250	100	E40	LU250/HO/T/E40 MIC	93010296	32500	2000	25	U	24,000	260	48	283.42	A+	12
400	100	E40	LU400/HO/T/E40	97240	56500	2000	25	U	24,000	260	48	444.40	A++	12
400	100	E40	LU400/T/40*	11678	48000	2000	25	U	28,500	278	48	431.83	A+	12
1000	250	E40	LU1000/40	85886	130000	2100	22	U	24,000	383	79	1100.00	A+	6
1000	110	E40	LU1000/110/T/40	45751	130000	2000	25	U	24,000	374	68	1067.10	A++	4

\* Non EU product

### Lucalox™ Standard Elliptical Diffuse

70	90	E27	LU70/90/MO/D/E27	46217	5750	2000	25	U	28,500	156	72	77.79	A	12
100	100	E40	LU100/100/MO/D/40*	93766	9200	2000	25	U	28,500	186	76	114.72	A+	12
150	100	E40	LU150/100/D/40*	44245	14500	2000	25	U	28,500	227	91	163.68	A+	12
250	100	E40	LU250/D/40*	44052	26000	2000	25	U	28,500	227	91	276.44	A+	12
400	105	E40	LU400/D/40*	44057	48000	2000	25	U	28,500	282	122	444.01	A+	6

\* Non EU product

### Lucalox™ Internal Ignitor Elliptical Clear



70	90	E27	LU 70/90/MO/I/E27	46209	6100	2000	25	U	17,500	156	72	79.39	A+	12
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### Lucalox™ Internal Ignitor Elliptical Diffuse

50	85	E27	LU50/85/MO/D/I/E27*	88556**	3300	2000	25	U	12,000	156	72	56.22	A	12
70	90	E27	LU70/90/MO/D/I/E27	46186	5750	2000	25	U	17,500	156	72	78.17	A	12

\* Non EU product

\*\* Will be phased out

 External Ignitor,  Internal Ignitor



# High Intensity Discharge Lamps

## High Pressure Mercury 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
<b>Kolorlux™ Mercury Standard</b>														
50	95	E27	OT H50/27 1/24 MIC DS*	65206	1800	4000	40	U	16,000	130	55	57.27	B	24
80	115	E27	OT H80/27 1/24 MIC DS*	64992	3800	4000	45	U	20,000	156	70	90.73	B	24
125	125	E27	H125/27 1/24 MIC DS*	62360	6300	4000	45	U	20,000	170	75	141.64	B	24
250	130	E40	H250/40 1/12 MIC DS*	62361	13000	4000	40	U	20,000	227	90	275.58	B	12
400	135	E40	OT H400/40 1/12 MIC DS*	63674	22500	4000	40	U	20,000	292	120	441.21	B	12

\* Non EU product, only full cntr order

## Kolorlux™ Mercury Start

125	125	E27	H125/E27/GE/START 1/24 MIC DS*	62359	5800	4000	40	U	12,000	178	76	139.53	B	24
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\* Non EU product, only full cntr order

## Mixed Light

160	230-240	E27	OT ML 230-240V 160W E27 GE 1/24 MIC DS*	63675	3100	4200	52	VBU±30	8,000	170	76	185.34	D	24
250	230-240	E40	OT ML 230-240V 250W E40 GE 1/12 MIC DS*	63678	5500	3800	52	U	8,000	227	91	277.44	C	12
250	230-240	E27	OT ML 230-240V 250W E27 GE 1/12 MIC DS*	63677	5500	3800	52	U	8,000	227	91	277.44	C	12
500	230-240	E40	OT ML 230-240V 500W E40 GE 1/10 MIC DS*	63676	14000	3800	45	U	8,000	292	121	545.37	B	10

\* Non EU product, only full cntr order



# Brand cross reference

The following pages show GE and alternative brand Order Codes. These cross references are provided as a quick guide and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues and website.

GE	OSRAM	PHILIPS	Havells Sylvania	Venture
<b>ConstantColor CMH™</b>				
CMH50/TT/UVC/730/E27 STREETWISE	-	CDO-TT 50W/828 E27	-	-
CMH35/T/UVC/930/GU6.5	HCI-TF 35/930 WDL PB GU6.5	-	-	-
CMH35/T/UVC/930/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/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/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/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/PAR20/UVC/830/E27/SP10	-	-	-	-
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	-	-
CMH35/PAR30/UVC/830/E27/SP10	HCI-PAR30 35W/830 WDL PB SP 10D	CDM-R 35W/830 E27 PAR30L10D	-	-
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	-	-
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/C	HCI-ET 70W/830 WDL PB	CDM-ET 70W /830 E27	-	-
CMH100/E/UVC/U/830/E27/C	-	CDM-ET 100W /830 E40	-	-
CMH150/UVC/O/U/942/E27/C	HCI-E/P 150W/942 NDL PBMO CL E27	-	-	-
CMH70/E/UVC/U/830/E27/D	HCI-E/P 70W/830 NDL PB COE27	CDO-ET Coated 70W/828 E27	-	-
CMH70/UVC/O/U/940/E27/D	HCI-E/P 70W/942 NDL Coated E27	-	-	-
CMH100/E/UVC/U/830/E27/D	HCI-E/P 100W/830 WDL PB Coated E27	CDO-ET Coated 100W/828 E40	-	-
CMH150/UVC/O/U/940/E27/D	HCI-E/P 150W/942 NDL PB MO E27	CDO-ET Coated 150W/828 E40	-	-
CMH250/E/UVC/U/830/E40/D	HCI-E 250W/830 WDL PB E40	-	-	-
CMH400/E/UVC/U/830/E40/D	-	-	-	-
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	-	-
CMH70/R111/UVC/930/GX8.5/SP10	-	CDM-R111 70W/830 GX8.5 10D	-	-
CMH70/R111/UVC/930/GX8.5/FL24	-	CDM-R111 70W/830 GX8.5 24D	-	-
CMH70/R111/UVC/930/GX8.5/FL40	-	CDM-R111 70W/830 GX8.5 40D	-	-
CMH70/TT/UVC/830/E27	HCI-T/P 70W/830 WDL PB E27	-	-	CM-PLUS TT 70W/U/UVS/830
CMH70/TT/UVC/730/E27 STREETWISE	-	CDO-TT 70W /828 E27	-	-
CMH100/TT/UVC/830/E40	HCI-TT 100/830 WDL PB E40	-	-	CM-PLUS TT 100W/U/UVS/830
CMH100/TT/UVC/730/E40 STREETWISE	-	CDO-TT 100W /828 E27	-	-
CMH150/TT/UVC/830/E40	HCI-T/P 150W/830 WDL PB E40	-	-	CM-PLUS TT 150W/U/UVS/830
CMH150/TT/UVC/730/E40 STREETWISE	-	CDO-TT 150W/828 E40	-	-
CMH150/UVC/T/U/842/E40	HCI-TT 150/830 WDL PB E40	-	-	CM-PLUS TT 150W/U/UVS/942
CMH150/UVC/O/T/U/830/E40	HCI-T/P 150W/830 NDL PB E40	-	-	-
CMH150/T/UVC/O/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/TT/H/E40	-	-	-	-
CMH400/TT/UVC/U/830/E40	-	-	-	-

# High Intensity Discharge Lamps

GE	OSRAM	PHILIPS	Havells Sylvania	Venture
<b>Arcstream™</b>				
ARC70/T/U/730/G12	HQI T 70/WDL	-	HSI-T 70W/WDL	-
ARC70/T/U/742/G12	HQI T 70/NDL	-	HSI-T 70W/NDL	-
ARC150/G12/830	HQI T 150/WDL	-	HSI-T 150W/WDL	HIT 150W/G12/UVS/3K
ARC150/G12/842	HQI T 150/NDL	-	HSI-T 150W/NDL	HIT 150W/G12/UVS/4K
ARC70/UVC/TD/730/Rx7s	HQI TS 70/WDL UVS	-	HSI-TD 75W/WDL 3K UVS	MH-DE 70W/UVS/3K
ARC70/UVC/TD/742/Rx7s	HQI TS 70/NDL UVS	-	HSI-TD 75W/NDL 4K UVS	MH-DE 70W/UVS/4K
ARC150/UVC/TD/732/Rx7s-24	HQI TS 150/WDL UVS	-	HSI-TD 150W/WDL 3K UVS	MH-DE 150W/UVS/3K
ARC150/UVC/TD/742/Rx7s-24	HQI TS 150/NDL UVS	-	HSI-TD 150W/NDL 4K UVS	MH-DE 150W/UVS/4K
ARC150/TD/952/Rx7s-24	HQI TS 150/D UVS	-	HSI-TD 150W/D 5K UVS	-
ARC150/UVC/AQUA/TD/865/Rx7s-24	-	-	-	MH-DE 150W/UVS/FS/6K
ARC250/TD/832/Fc2	HQI TS 250/WDL UVS	-	HSI-TD 250W/NDL 3K UVS	MH-DE 250W/UVS/3K/Fc2
ARC250/TD/842/Fc2	HQI TS 250/NDL UVS	-	HSI-TD 250W/NDL 4K UVS	MH-DE 250W/UVS/4K/Fc2
ARC150/UVC/TD/GREEN/RX7S-24	-	-	-	MH-DE 150W/UVS/GDX
ARC150/UVC/TD/BLUE/RX7S-24	-	-	-	MH-DE 150W/UVS/BDX
ARC150/UVC/TD/ORANGE/RX7S-24	-	-	-	-
ARC150/UVC/TD/MAGENTA/RX7S-24	-	-	-	MH-DE 150W/UVS/MDX
ARC250/T/VBU/960/E40	HQI-T 250/D*	-	HSI-T 250W / 6K*	-
ARC250/T/H/960/E40	-	-	HSI-T 250W / 6K*	-
ARC400/T/H/742/E40	HQI-T 400/N*	MASTER HPI-T Plus 400W/645 E40 1SL*	HSI-TSX 400W*	HIT 400W/U/EURO/4K*
ARC250/D/H/740/E40	-	MASTER HPI Plus 250W/745 BU E40 1SL*	HSI-SX 250W/CO*	-
ARC250/D/H/960/E40	HQI-E 250/D*	-	-	-
ARC250/D/VBU/960/E40	HQI-E 250/D*	MASTER HPI Plus 250W/767 BU E40 1SL*	-	-
<b>Kolorarc™</b>				
KRC400/T/H/960/E40	HQI-BT 400/D*	-	HSI-T 400W / 6K*	HIT 400W/U/LU/6.5K*
KRC400/T/VBU/960/E40	HQI-BT 400/D*	-	HSI-T 400W / 6K*	HIT 400W/U/LU/6.5K*
KRC400/E/VBU/645/E40	HQI-E 400/N CLEAR*	-	HSI-HX 400W CL*	HIE 400W/BU/EURO/4K*
KRC400/D/VBU/740/E40	HQI-E 400/N*	MASTER HPI Plus 400W/745 BU E40 1SL*	HSI-HX 400W CO*	HIE 400W/C//DU/4.5K*
KRC400/D/H/740/E40	HQI-E 400/N*	-	HSI-HX 400W CO*	HIE 400W/C/U/EURO/4K*
KRC400/D/VBU/960/E40	-	MASTER HPI Plus 250W/767 BU E40 1SL*	-	-
KRC400/D/H/960/E40	-	-	-	-
<b>Multi-vapor™</b>				
MVR250/U/40	-	-	-	-
MVR400/U/40	-	-	-	-
MVR1000/U/40	-	-	-	HIE 1000W/U/4K*
MVR250/C/U/40	-	-	-	-
MVR400/C/U/40	-	-	-	-
MVR400/VBU/40	-	-	-	-
MVR400/C/VBU/40	-	-	-	-
MVR400/C/VBU/O/40	-	-	-	-
<b>Sportlight™</b>				
SPL1500/L/H/652/Rx75M	-	-	-	-
SPL2000/L/H/654	-	-	-	-
SPL2000/T/H/960/E40	HQI-T 2000/D*	-	-	-
SPL2000/I/T/H/640/E40	HQI-T 2000 /N*	HPI-T 2000W/642 E40 380V CRP*	HSI-T 2000W-S4K 380V/I*	-
SPL2000/I/T/H/960/E40	HQI-T 2000 /D/I*	-	-	-
SPL1000/T/H/960/E40 1/4	HQI-T 1000/D*	-	-	-
<b>Mixed Light</b>				
ML 160/230-240V E27	HWL 160 235V	ML 160W E27 235-245	HSB-BW 160W 230V E27	-
ML 160/240-250V	HWL 160 240V	ML 160W E27 235-245	HSB-BW 160W 240	-
ML 250/230-240V E40	HWL 250 235V	ML 250W E27 225-235	HSB-BW 250W 240V E40	-
ML 250/230-240V E27	-	ML 250W E40 225-235	HSB-BW 250W 240V E27	-
ML 250/ 240-250V E40	HWL 250 240V	ML 250W E40 235-245	HSB-BW 250W 240	-
ML 500/230-240V E40	HWL 500 235V	ML 500W E40 225-235	HSB-BW 500W 240V E40	-



# Brand cross reference

GE	OSRAM	PHILIPS	Havells Sylvania	Venture
<b>Lucalox™ Standard</b>				
LU70/90/D/27	NAV-E 70/E	SON E 70W	SHP 70W/CO-E	-
LU100/100/MO/D/40	NAV-E 100	SON E 100W	SHP 100W	-
LU150/100/D/40	NAV-E 150	SON E 150W	SHP 150W	-
LU250/D/40	NAV-E 250	SON E 250W	SHP 250W	-
LU400/D/40	NAV-E 400	SON E 400W	SHP 400W	-
LU70/90/T12/27	NAV-T 70	SON-T 70W	SHP-T 70W	-
LU100/100/MO/T/40	NAV-T 1000	SON-T 100W	-	-
LU150/100/T /40	NAV-T 150	SON-T 150W	SHP-T 150W	-
LU250/T/40	NAV-T 250	SON-T 250W	SHP-T 150W	-
LU400/T/40	NAV-T 400	SON-T 400W	SHP-T 400W	-
LU1000/110/T/40	NAV-T 1000	SON-T 1000W	SHP-T 1000W	-
<b>Lucalox™ XO</b>				
LU50/85/XO/D/27	NAV-T 50 SUPER 4Y	-	SHP S 50W	-
LU70/90/XO/D/27	NAV-T 70 SUPER 4Y	MASTER SON PIA PLUS 70W	SHP S 70W	-
LU100/100/XO/D/40	NAV-E 100 SUPER 4Y	MASTER SON PIA PLUS 100W	SHP S 100W	-
LU250/XO/D/40	NAV-E 250 SUPER 4Y	MASTER SON PIA PLUS 250W	SHP S 250W	-
LU400/XO/D/40	NAV-E 400 SUPER 4Y	MASTER SON PIA PLUS 400W	SHP S 400W	-
LU50/85/XO/T/27	NAV-T 50 SUPER 4Y	MASTER SON-T PIA PLUS 50W	SHP TS 50W	-
LU70/90/XO/T/27	NAV-T 70 SUPER 4Y	MASTER SON-T PIA PLUS 70W	SHP TS 70W	-
LU100/100/XO/T/40	NAV-T 100 SUPER 4Y	MASTER SON-T PIA PLUS 100W	SHP TS 100W	-
LU150/150/XO/T/40	NAV-T 150 SUPER 4Y	MASTER SON-T PIA PLUS 150W	SHP TS 150W	-
LU250/XO/T/40	NAV-T 250 SUPER 4Y	MASTER SON-T PIA PLUS 250W	SHP TS 250W	-
LU400/XO/T/40	NAV-T 400 SUPER 4Y	MASTER SON-T PIA PLUS 400W	SHP TS 400W	-
LU600/XO/T/40	NAV-T 600 SUPER 4Y	MASTER SON-T PIA PLUS 600W	SHP TS 600W	-
<b>Lucalox™ I</b>				
LU50/85/D/I/27	NAV-E 50/I	SON 50W I	SHP 50W/CO-I	-
LU70/90/D/I/27	NAV-E 70/I	SON 70W I	SHP 70W/CO-I	-
LU70/90/I/27	-	-	SHP 70W/CL-I	-
<b>Lucalox™ E-Z lux</b>				
LUH110/D/27 - SHx	NAV-E 110	SON-H Pro 110W	SHx 110W E27	-
<b>Lucalox™ SUPERLIFE</b>				
LU70/90/XO/SBY/T12/E27	-	-	SHP-TS 70W TWinarc	-
LU100/100/XO/SBY/T/E40	-	-	SHP-TS 100W TWinarc	-
LU150/XO/SBY/T/E41	-	-	SHP-TS 150W TWinarc	-
LU250/XO/SBY/T/E42	-	-	SHP-TS 250W TWinarc	-
LU400/XO/SBY/T/E43	-	-	SHP-TS 400W TWinarc	-
LU50/85/XO/SBY/D/27	-	-	-	-
LU70/90/XO/SBY/D/E27	-	-	SHP-S 70W TWinarc	-
LU100/100/XO/SBY/D/E40	-	-	SHP-S 100W TWinarc	-
LU250/SBY/D/40	-	-	SHP-S 250W TWinarc	-
LU400/SBY/D/40	-	-	SHP-S 400W TWinarc	-
<b>Kolorlux Standard</b>				
H50/27	HQL 50	HPL-N 50W	HSL-BW 50W E27	-
H80/27	HQL 80	HPL-N 80W	HSL-BW 80W E27	-
H125/27	HQL 125	HPL-N 125W	HSL-BW 125W E27	-
H250/40	HQL 250	HPL-N 250W	HSL-BW 250W E40	-
H400/40	HQL 400	HPL-N 400W	HSL-BW 400W E40	-

\*Similar product, please contact your local sales representative for more details



# Linear Fluorescent Lamps



## Discover GE's LFL solutions WattMiser™ for extra energy savings LongLast™ for extra long life

**Remarkable light** distribution, less shadow than point source lamps

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**Flexibility** of wattage and length for every application

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**Up to 46,000 hours** of life with our T8 LongLast™ lamps at 12-hour burning cycles

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**85 CRI** high colour rendering and high lumen maintenance

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**5-10%** energy savings with WattMiser lamps versus traditional LFL lamps

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**Dimmability** for additional cost savings





Office



Retail



Education



Industrial



## Main application areas

### Education and Office

Classrooms and office areas need a creative and stimulating environment. Minimum glare on screens, low luminance contrasts around the desk, and energy cost reduction are just a few of the key requirements. Many schools and offices have already discovered the benefits of replacing their outdated light sources with our new-generation LFL lamps.

### Retail

LFL lamps are the perfect complement of directional light sources, as they provide an excellent level of lighting distribution. In a retail environment, directed light is indispensable to highlight the merchandise however it needs additional light sources with a good light distribution to elevate the brilliance in the entire store, so less point source lamp is needed. Directed light sources and LFL lamps together provide a perfect and economic solution for the illuminance of a retail environment.

### Industrial

For industrial and commercial environments, the use of appropriate illumination systems help promote safety in the workplace, improved productivity and reduced error rates. We recommend our LongLast lamps to cover all these needs.

# Linear Fluorescent Lamps

## T5 & T8 Watt-Miser™ For reduced electricity costs

### T5WattMiser™

T5 Watt-Miser™ uses 5% less energy than other T5 lamps in the range, with the same lumen output. T5 Watt-Miser™ is ideal for any indoor application from a single fitting to large scale installations such as offices, retail outlets and public buildings hence, very significant energy savings can be achieved.

### T5WattMiser™

- 5% energy saving with existing fittings on current controlled gear
- Reduced CO<sub>2</sub> and other greenhouse gas emissions
- Energy saving without loss of light output
- Excellent lumen maintenance
- Product life up to 36,000 hours at 12-hour burning cycle
- Complies with RoHS Directive 2011/65/EU and contains recyclable components

## T5 coating

Our T5 LFL lamps use an advanced coating technology, which improves lamp efficiency by increasing phosphor efficiency.

GE's T5 coating technology gives the option for either longer life or energy saving lamps due to the improvement in lamp performance.







All of GE's T8 range offers excellent service life and high quality light but with the addition of Watt-Miser™ technology. Cost savings of up to 10% can also be achieved with T8 WattMiser.

T8 Watt-Miser™ is ideal for retail, property management, commercial and industrial applications where lighting cycles are typically very long.

### T8 WattMiser™

- Retrofitable – with existing fittings and control gear
- Excellent colour quality – Ra 80+
- Exceptional lumen maintenance
- Product life 23,000 hours – at 12-hour burning cycle with electronic gear
- Significantly reduced CO<sub>2</sub> emission – 0.5kg/kWh
- Short payback – less than a year
- Complies with RoHS Directive 2011/65/EU and contains recyclable components

### Energy-saving example: 32W

Annual savings from a typical installation of 1000 lamps used for 4000 hours a year with energy costs of 0,1 €/kWh	Regular T8	T8 Watt-Miser™
Power at 25°C (W/lamp)	36	32
Annual energy (kWh)	144	128
Annual energy saving (kWh/lamp)	-	16
Annual energy cost saving with WattMiser™ T8 (€)	1600	
Annual replacement cost saving (€)	356	
CO <sub>2</sub> saved in a year (tons)*	6.9	

\*CO<sub>2</sub> emission per kWh 0,43 kg which can vary by country.  
Best result is achieved with optimal lamp, ballast and fitting combination used at 30°C ambient temperature.

# Linear Fluorescent Lamps

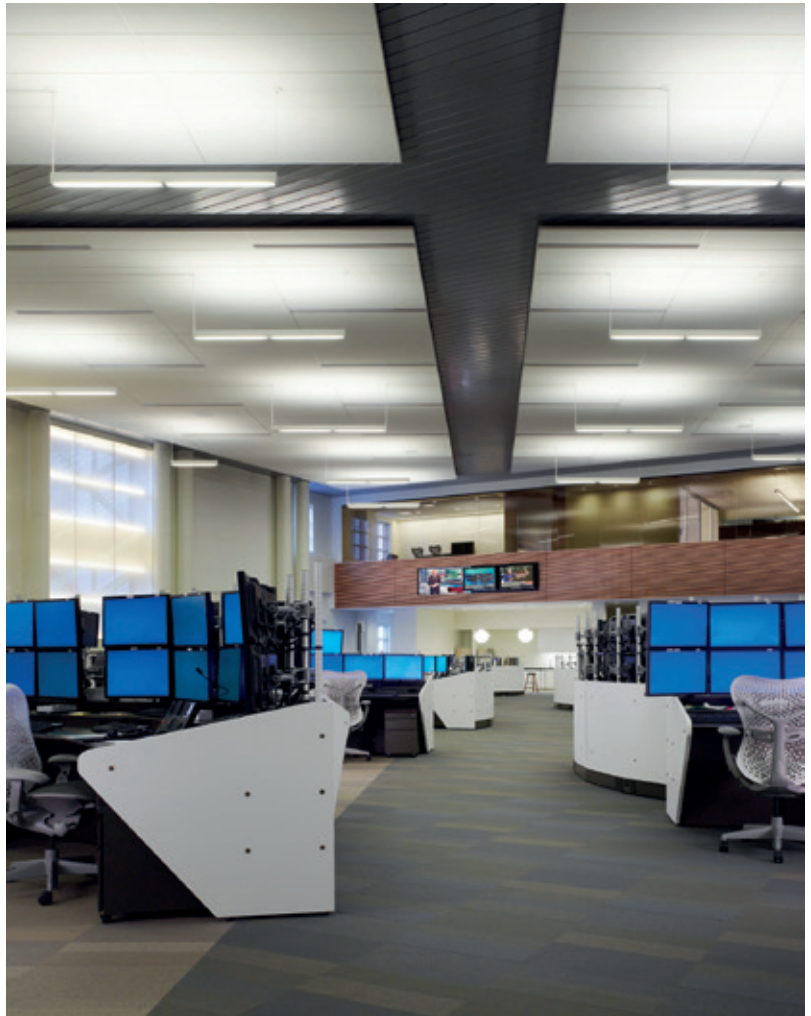
## T5&T8 LongLast™ For reduced relamping costs



All businesses look to achieve cost reductions, which is why GE's LongLast range has been designed to meet this requirement. Our LongLast lamps offer reliability and an extended service life, without compromising on other key features, such as initial lumen and lumen maintenance. LongLast lamps with extra long relamping cycles are perfect for facilities where lumiares are hard to reach. LongLast lamps also reduce the total cost of ownership and the environmental footprint of your buildings.

### T5LongLast™

- Very long and reliable product life – up to 36,000 hours at 12-hour burning cycle
- Up to 7000 lumens per lamp – same illumination with fewer fittings
- High colour quality – CRI 85Ra
- High efficiency for ongoing cost savings
- Smaller physical dimensions
- Complies with RoHS Directive 2011/65/EU and contains recyclable components



### Which to use?

T5 Watt-Miser™ or T5 LongLast™?  
Here's some help to choose.

	Rated Life 3 hour cycle	Rated Life 12 hour cycle	Energy saving
Regular T5	25,000	28,000	-
GE T5 LongLast™	30,000	36,000	-
GE T5 Watt-Miser™	25,000/30,000	30,000/36,000	5%



### T8LongLast™

- Very long reliable product life – 46,000 hours at 12-hour burning cycle with electronic gear
- Same lumen output as regular T8 and excellent lumen maintenance
- Excellent colour rendering – CRI 80+ Ra
- Can be used on existing control gears and fixtures
- Complies with RoHS Directive 2011/65/EU and contains recyclable components



# Linear Fluorescent Lamps

## T5 Tubes Long



### High Efficiency Watt-Miser™

Wattages: 13-33W  
 Colours: Warm White to Cool White  
 CRI [Ra]: 85  
 Rated life: 25,000Hrs



### High Output Watt-Miser™

Wattages: 21-76W  
 Colours: Warm White to Cool White  
 CRI [Ra]: 85  
 Rated life: 25,000(30,000)hrs



### High Efficiency LongLast™

Wattages: 14-35W  
 Colours: Extra Warm White to Daylight  
 CRI [Ra]: 85  
 Rated life: 30,000Hrs



### High Output LongLast™

Wattages: 24-80W  
 Colours: Warm White to Daylight  
 CRI [Ra]: 85  
 Rated life: 30,000Hrs

## T5 Tubes Short



### Specfill Triphosphor

Wattages: 6-8W  
 Colours: Cool White and Daylight  
 CRI [Ra]: 80+  
 Rated life: 8,000Hrs



### Specfill Standard

Wattages: 6-8W  
 Colours: Cool White and White  
 CRI [Ra]: 52-60  
 Rated life: 8,000Hrs



### Triphosphor

Wattages: 8-13W  
 Colours: Extra Warm White to Cool White  
 CRI [Ra]: 80+  
 Rated life: 5,000Hrs



### Standard

Wattages: 4-13W  
 Colours: Warm White to Cool White  
 CRI [Ra]: 51-58  
 Rated life: 5,000Hrs

## Circular Tubes



### T5 Circline™

Wattages: 22-55W  
 Colours: Extra Warm White to Daylight  
 CRI [Ra]: 82  
 Rated life: 12,000Hrs

# Selector

## T8 Tubes



### Watt-Miser™

Wattages: 16-51W  
Colours: Warm White  
to Daylight  
CRI [Ra]: 80+  
Rated life: 15,000Hrs



### Polylux XLR™ LongLast™

Wattages: 18-58W  
Colours: Warm White  
and Cool White  
CRI [Ra]: 80+  
Rated life: 28,000Hrs



### Polylux XLR™

Wattages: 15-70W  
Colours: Extra Warm  
White to Daylight  
CRI [Ra]: 80+  
Rated life: 15,000Hrs

## T8 Shatter-proof



### covRguard™ Polylux XLR™

Wattages: 18-58W  
Colour: Cool White  
CRI [Ra]: 80+  
Rated life: 15,000Hrs

## Starters



### Glow Starters

For wattages: 4-125W

Where "Rated Life" or "Average Rated Life" is stated, we refer to the industry standard definition of how many hours of operation on standard electromagnetic gear 50% of a given installation will exceed (at 3-hours burning cycle). Rated Average Life for all linear fluorescent products is provided on standard electromagnetic gear except for T5 long tubes and T5 Circline tubes.

# Linear Fluorescent Lamps

## Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where "Life" or "Average Rated Life" is stated, we refer to the industry standard definition of how many hours of operation on standard electromagnetic gear 50% of a given installation will exceed. Rated Average Life for all linear fluorescent products is provided on standard electromagnetic ballast except for T5 long tubes and T5 Circline tubes.

### Additional parameters:

**Cap:** The type of cap fitted. See the "Cap Drawings" chapter for more information.

#### Watts:

Energy Used – To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

**Diameter:**  
Tube diameter in mm

**Length:**  
Lamp length (cap to cap) in mm

**Product description:**  
Lamp reference – describes the lamp's main characteristics

**Initial Lumen (at 25 or 35°C):**  
Light output after the initial 100 hours of operation

**Rated Average Life (3-hr cycle):**  
The point in time when 50% of installed lamps are still burning

**CCT:**  
Colour temperature – Kelvin [K]. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

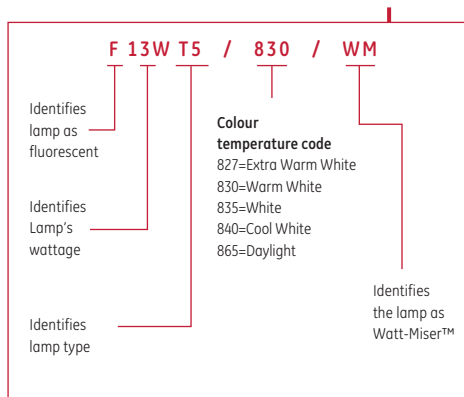
**EEC:**  
Energy Efficiency Class

**Energy Consumption:**  
kWh/1000h

Wattage [W]	Length [mm]	Diameter [mm]	Product Description	Product Code	Initial Lumen (at 35°C) [lm]	Colour Type	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	EEC	Energy Consumption [kWh]	Pack Qty
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### T5 Watt-Miser™ - High Efficiency, G5 Cap

26	1,149	16	F26W/T5/830/WM	97231	2640	Warm White	3000	85	25,000	A+	29	30
26	1,149	16	F26W/T5/840/WM	61078	2640	Cool White	4000	85	25,000	A+	29	30
33	1,449	16	F33W/T5/830/WM	79417	3320	Warm White	3000	85	25,000	A+	38	30



**Colour Type:**  
Extra Warm White  
Warm White  
White  
Natural White  
Cool White  
Northlight  
Daylight

**Product code:**  
It is important to use this code when ordering to ensure that you receive the exact product you require

**CRI:**  
Colour rendering index, the higher the number (1-100), the more natural the lit subject appears

**Pack quantity:**  
The number of lamps in one outer case

Wattage (W)	Length (mm)	Diameter (mm)	Product Description	Product Code	Initial Lumen (at 35°C) (lm)	Colour Type	CCT (K)	CRI (Ra)	Rated Average Life (3-hr cycle) (h)	EEC	Energy Consumption (kWh)	Pack Qty
13	549	16	F13W/T5/830/WM	79418	1 350	Warm White	3 000	85	25 000	A+	14	30
13	549	16	F13W/T5/840/WM	61080	1 350	Cool White	4 000	85	25 000	A+	14	30
20	849	16	F20W/T5/840/WM	61079	2 100	Cool White	4 000	85	25 000	A+	22	30
26	1 149	16	F26W/T5/830/WM	97231	2 900	Warm White	3 000	85	25 000	A+	29	30
26	1 149	16	F26W/T5/840/WM	61078	2 900	Cool White	4 000	85	25 000	A+	29	30
33	1 449	16	F33W/T5/830/WM	79417	3 650	Warm White	3 000	85	25 000	A+	36	30
33	1 449	16	F33W/T5/840/WM	61077	3 650	Cool White	4 000	85	25 000	A+	36	30

### T5 Watt-Miser™ - High Output, G5 Cap

21	549	16	F21W/T5/840/WM	61076	2,000	Cool White	4,000	85	25,000	A+	23	30
36	849	16	F36W/T5/840/WM	61075	3,500	Cool White	4,000	85	25,000	A+	39	30
46	1,449	16	F46W/T5/830/WM	97232	4,900	Warm White	3,000	85	25,000	A+	51	30
46	1,449	16	F46W/T5/840/WM	61073	4,900	Cool White	4,000	85	25,000	A+	51	30
51	1,149	16	F51W/T5/830/WM	97966	5,000	Warm White	3,000	85	30,000	A+	56	30
51	1,149	16	F51W/T5/840/WM	61074	5,000	Cool White	4,000	85	30,000	A+	56	30
76	1,449	16	F76W/T5/830/WM	97965	7,000	Warm White	3,000	85	25,000	A+	83	30
76	1,449	16	F76W/T5/840/WM	61072	7,000	Cool White	4,000	85	25,000	A+	83	30

### T5 LongLast™ - High Efficiency, G5 Cap

14	549	16	F14W/T5/827/LL	61086	1,350	Extra Warm White	2,700	85	30,000	A+	15	30
14	549	16	F14W/T5/830/LL	61087	1,350	Warm White	3,000	85	30,000	A+	15	30
14	549	16	F14W/T8/830/LL/BULK	61066	1,350	Warm White	3,000	85	30,000	A+	15	40
14	549	16	F14W/T5/835/LL	61090	1,350	White	3,500	85	30,000	A+	15	30
14	549	16	F14W/T5/840/LL	61091	1,350	Cool White	4,000	85	30,000	A+	15	30
14	549	16	F14W/T8/840/LL/BULK	61067	1,350	Cool White	4,000	85	30,000	A+	15	40
14	549	16	F14W/T5/865/LL	61088	1,250	Daylight	6,500	85	30,000	A+	15	30
21	849	16	F21W/T5/827/LL	61089	2,100	Extra Warm White	2,700	85	30,000	A+	23	30
21	849	16	F21W/T5/830/LL	61092	2,100	Warm White	3,000	85	30,000	A+	23	30
21	849	16	F21W/T5/840/LL	61093	2,100	Cool White	4,000	85	30,000	A+	23	30
21	849	16	F21W/T8/840/LL/BULK	61068	2,100	Cool White	4,000	85	30,000	A+	23	40
21	849	16	F21W/T5/865/LL	61094	1,950	Daylight	6,500	85	30,000	A+	23	30
28	1,149	16	F28W/T5/827/LL	61095	2,900	Extra Warm White	2,700	85	30,000	A+	31	30
28	1,149	16	F28W/T5/830/LL	61096	2,900	Warm White	3,000	85	30,000	A+	31	30
28	1,149	16	F28W/T5/830/LL/BULK	61069	2,900	Warm White	3,000	85	30,000	A+	31	40
28	1,149	16	F28W/T5/840/LL	61102	2,900	Cool White	4,000	85	30,000	A+	31	30
28	1,149	16	F28W/T5/840/LL/BULK	61070	2,900	Cool White	4,000	85	30,000	A+	31	40
28	1,149	16	F28W/T5/865/LL	61098	2,700	Daylight	6,500	85	30,000	A+	31	30
35	1,449	16	F35W/T5/827/LL	61099	3,650	Extra Warm White	2,700	85	30,000	A+	38	30
35	1,449	16	F35W/T5/830/LL	61100	3,650	Warm White	3,000	85	30,000	A+	38	30
35	1,449	16	F35W/T5/835/LL	61101	3,650	White	3,500	85	30,000	A+	38	30
35	1,449	16	F35W/T5/840/LL	61103	3,650	Cool White	4,000	85	30,000	A+	38	30
35	1,449	16	F35W/T5/840/LL/BULK	61071	3,650	Cool White	4,000	85	30,000	A+	38	40
35	1,449	16	F35W/T5/865/LL	61104	3,400	Daylight	6,500	85	30,000	A+	38	30

T5 LongLast™ range was formerly called Starcoat™ range after the GE's T5 coating technology.

# Linear Fluorescent Lamps

Wattage (W)	Length (mm)	Diameter (mm)	Product Description	Product Code	Initial Lumen (at 35°C) (lm)	Colour Type	CCT (K)	CRI (Ra)	Rated Average Life (3-hr cycle) (h)	EEC	Energy Consumption (kWh)	Pack Qty
<b>T5 LongLast™ - High Output, G5 Cap</b>												
24	549	16	F24W/T5/830/LL	61105	2,000	Warm White	3,000	85	30,000	A+	25	30
24	549	16	F24W/T5/835/LL	61106	2,000	White	3,500	85	30,000	A+	25	30
24	549	16	F24W/T5/840/LL	61097	2,000	Cool White	4,000	85	30,000	A+	25	30
24	549	16	F24W/T5/840/LL/BULK	61081	1,750	Cool White	4,000	85	30,000	A+	25	40
24	549	16	F24W/T5/865/LL	61107	1,900	Daylight	6,500	85	30,000	A	25	30
39	849	16	F39W/T5/830/LL	61108	3,500	Warm White	3,000	85	30,000	A+	42	30
39	849	16	F39W/T5/840/LL	61109	3,500	Cool White	4,000	85	30,000	A+	42	30
39	849	16	F39W/T5/840/LL/BULK	61082	3,500	Cool White	4,000	85	30,000	A+	42	40
49	1,449	16	F49W/T5/830/LL	61119	4,900	Warm White	3,000	85	30,000	A+	54	30
49	1,449	16	F49W/T5/835/LL	61121	4,900	White	3,500	85	30,000	A+	54	30
49	1,449	16	F49W/T5/840/LL	61122	4,900	Cool White	4,000	85	30,000	A+	54	30
49	1,449	16	F49W/T5/840/LL/BULK	61084	4,900	Cool White	4,000	85	30,000	A+	54	40
49	1,449	16	F49W/T5/865/LL	78707	4,650	Daylight	6,500	85	30,000	A+	54	30
54	1,149	16	F54W/T5/830/LL	61110	5,000	Warm White	3,000	85	30,000	A+	59	30
54	1,149	16	F54W/T5/840/LL	61111	5,000	Cool White	4,000	85	30,000	A+	59	30
54	1,149	16	F54W/T5/840/LL/BULK	61083	5,000	Cool White	4,000	85	30,000	A+	59	40
54	1,149	16	F54W/T5/865/LL	61118	4,750	Daylight	6,500	85	30,000	A+	59	30
80	1,449	16	F80W/T5/830/LL	78708	7,000	Warm White	3,000	85	30,000	A	89	30
80	1,449	16	F80W/T5/840/LL	78709	7,000	Cool White	4,000	85	30,000	A	89	30
80	1,449	16	F80W/T5/840/LL/BULK	61085	7,000	Cool White	4,000	85	30,000	A	89	40

T5 LongLast™ range was formerly called Starcoat™ range after the GE's T5 coating technology.

## T5 Miniature - Specfill Triphosphor - Emergency Lighting, G5 Cap

6	212.1	16	F6W/T5/840/SPECFILL/IND	40327	300	Cool White	4,000	80+	8,000	A	6	100
8	288.3	16	F8W/T5/840/SPECFILL/IND	40331	460	Cool White	4,000	80+	8,000	A	8	100
8	288.3	16	F8W/T5/865/SPECFILL/IND	45034	430	Daylight	6,500	80+	8,000	A	8	100

## T5 Miniature - Specfill Standard - Emergency Lighting, G5 Cap

6	212.1	16	F6W/T5/33/SPECFILL/IND	40307	260	Cool White	4,000	60	8,000	A	6	100
8	288.3	16	F8W/T5/35/SPECFILL	27027	375	White	3,500	54	8,000	B	8	25
8	288.3	16	F8W/T5/35/SPECFILL/IND	91451	375	White	3,500	54	8,000	B	8	100
8	288.3	16	F8W/T5/33/SPECFILL	27011	375	Cool White	4,000	60	8,000	B	8	25
8	288.3	16	F8W/T5/33/SPECFILL/IND	91450	375	Cool White	4,000	60	8,000	B	8	100

## T5 Miniature - Triphosphor, G5 Cap

8	288.3	16	F8W/T5/827/IND	37008	460	Extra Warm White	2,700	80+	5,000	A	8	100
8	288.3	16	F8W/T5/840/IND	37009	460	Cool White	4,000	80+	5,000	A	8	100
13	516.9	16	F13W/T5/827	39447	970	Extra Warm White	2,700	80+	5,000	A	14	25



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]	EEC	Energy Consumption [kWh]	Pack Qty
4	135.9	16	F4W/T5/35	39446	130	White	3,500	54	5,000	B	5	25
4	135.9	16	F4W/T5/33	39441	130	Cool White	4,000	60	5,000	B	5	25
6	212.1	16	F6W/T5/35	39442	260	White	3,500	54	5,000	B	6	25
6	212.1	16	F6W/T5/33	39445	260	Cool White	4,000	60	5,000	B	6	25
8	288.3	16	F8W/T5/29	37754	380	Warm White	2,900	52	5,000	B	8	25
8	288.3	16	F8W/T5/35	37756	380	White	3,500	54	5,000	B	8	25
8	288.3	16	F8W/T5/33	37755	380	Cool White	4,000	60	5,000	B	8	25
13	516.9	16	F13W/T5/29	39437	830	Warm White	2,900	52	5,000	B	14	25
13	516.9	16	F13W/T5/35	39439	830	White	3,500	54	5,000	B	14	25
13	516.9	16	F13W/T5/33	39440	830	Cool White	4,000	60	5,000	B	14	25

### T5 Circline™ – 2Gx13 Cap

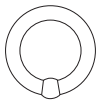
22	230	16	FC22W/T5/830	75709	1,900	Warm White	3,000	82	12,000	A	25	10
22	230	16	FC22W/T5/840	75720	1,900	Cool White	4,000	82	12,000	A	25	10
40	305	16	FC40W/T5/830	75712	3,300	Warm White	3,000	82	12,000	A	45	10
40	305	16	FC40W/T5/840	75713	3,300	Cool White	4,000	82	12,000	A	45	10
55	305	16	FC55W/T5/830	75717	4,200	Warm White	3,000	82	12,000	A	61	10
55	305	16	FC55W/T5/840	75718	4,200	Cool White	4,000	82	12,000	A	61	10

### T8 Watt-Miser™ – G13 Cap

16	589.8	26	F16W/T8/830/WM	62524	1,300	Warm White	3,000	80+	15,000	A	20	25
16	589.8	26	F16W/T8/840/WM	62525	1,300	Cool White	4,000	80+	15,000	A	20	25
16	589.8	26	F16W/T8/860/WM	62526	1,230	Daylight	6,400	80+	15,000	A	20	25
32	1,199.4	26	F32W/T8/830/WM	62527	2,750	Warm White	3,000	80+	15,000	A	37	25
32	1,199.4	26	F32W/T8/840/WM	62528	2,750	Cool White	4,000	80+	15,000	A	37	25
32	1,199.4	26	F32W/T8/860/WM	62529	2,600	Daylight	6,400	80+	15,000	A	38	25
51	1,500	26	F51W/T8/830/WM	62570	4,320	Warm White	3,000	80+	15,000	A	59	25
51	1,500	26	F51W/T8/840/WM	62569	4,320	Cool White	4,000	80+	15,000	A	59	25
51	1,500	26	F51W/T8/860/WM	62568	4,120	Daylight	6,400	80+	15,000	A	60	25

### T8 Polylux XLR™ LongLast™ – G13 Cap

18	589.8	26	F18W/T8/830/LL	62567	1350	Warm White	3,000	80+	28,000	A	22	25
18	589.8	26	F18W/T8/840/LL	62568	1350	Cool White	4,000	80+	28,000	A	22	25
36	1,199.4	26	F36W/T8/830/LL	62565	3350	Warm White	3,000	80+	28,000	A	42	25
36	1,199.4	26	F36W/T8/840/LL	62564	3350	Cool White	4,000	80+	28,000	A	42	25
58	1,500	26	F58W/T8/830/LL	62563	5200	Warm White	3,000	80+	28,000	A	67	25
58	1,500	26	F58W/T8/840/LL	62562	5200	Cool White	4,000	80+	28,000	A	67	25



# Linear Fluorescent Lamps

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]	EEC	Energy Consumption [kWh]	Pack Qty
15	437.4	26	F15W/T8/830/POLYLUX	62546	950	Warm White	3,000	80+	15,000	B	19	25
15	437.4	26	F15W/T8/835 POLYLUX	62530	950	White	3,500	80+	15,000	B	19	25
15	437.4	26	F15W/T8/840/POLYLUX	23249	950	Cool White	4,000	80+	15,000	B	19	25
15	437.4	26	F15W/T8/860/POLYLUX	62544	900	Daylight	6,400	80+	15,000	B	18	25
18	589.8	26	F18W/T8/827/POLYLUX	62560	1,350	Extra Warm White	2,700	80+	15,000	A	22	25
18	589.8	26	F18W/T8/830/POLYLUX	62559	1,350	Warm White	3,000	80+	15,000	A	22	25
18	589.8	26	F18W/T8/835/POLYLUX	62534	1,350	White	3,500	80+	15,000	A	22	25
18	589.8	26	F18W/T8/840/POLYLUX	62558	1,350	Cool White	4,000	80+	15,000	A	22	25
18	589.8	26	F18W/T8/860/POLYLUX	62557	1,250	Daylight	6,400	80+	15,000	A	22	25
30	894.6	26	F30W/T8/830/POLYLUX	62556	2,450	Warm White	3,000	80+	15,000	A	37	25
30	894.6	26	F30W/T8/835/POLYLUX	62533	2,450	White	3,500	80+	15,000	A	37	25
30	894.6	26	F30W/T8/840/POLYLUX	62555	2,450	Cool White	4,000	80+	15,000	A	37	25
30	894.6	26	F30W/T8/860/POLYLUX	14104	2,300	Daylight	6,400	80+	15,000	A	36	25
36	1,199.4	26	F36W/T8/827/POLYLUX	62554	3,350	Extra Warm White	2,700	80+	15,000	A	42	25
36	1,199.4	26	F36W/T8/830/POLYLUX	62553	3,350	Warm White	3,000	80+	15,000	A	42	25
36	1,199.4	26	F36W/T8/835/POLYLUX	62532	3,350	White	3,500	80+	15,000	A	42	25
36	1,199.4	26	F36W/T8/840/POLYLUX	62551	3,350	Cool White	4,000	80+	15,000	A	42	25
36	1,199.4	26	F36W/T8/860/POLYLUX	62552	3,250	Daylight	6,400	80+	15,000	A	43	25
58	1,500	26	F58W/T8/827/POLYLUX	62550	5,200	Extra Warm White	2,700	80+	15,000	A	68	25
58	1,500	26	F58W/T8/830/POLYLUX	62549	5,200	Warm White	3,000	80+	15,000	A	68	25
58	1,500	26	F58W/T8/835/POLYLUX	62531	5,200	White	3,500	80+	15,000	A	68	25
58	1,500	26	F58W/T8/840/POLYLUX	62548	5,200	Cool White	4,000	80+	15,000	A	68	25
58	1,500	26	F58W/T8/860/POLYLUX	62547	5,000	Daylight	6,400	80+	15,000	A	68	25
70	1,763.8	26	F70W/T8/835/POLYLUX	62572	6,000	White	3,500	80+	15,000	A	81	25
70	1,763.8	26	F70W/T8/840/POLYLUX	62573	6,000	Cool White	4,000	80+	15,000	A	81	25

## T8 covGuard™ PolyLux XLR™ - G13 Cap

18	589.8	26	F18W/T8/840 CVG	65222	1,300	Cool White	4,000	80+	15,000	A	22	25
36	1,199.4	26	F36W/T8/840 CVG	19114	3,250	Cool White	4,000	80+	15,000	A	42	25
58	1,500	26	F58W/T8/840 CVG	65224	5,050	Cool white	4,000	80+	15,000	A	68	25

T8 covGuard lamps can be used both in open and closed fixtures.

Wattage [W]	Volt [V]	Product Description	Rated Life (switching cycles)	Product Code	Pack Qty
<b>Starter</b>					
Single 4-65W	110-130V	155/501/4/65W/UNIV/BX	10,000	36536	250
Single 4-65W	110-130V	155/501/4/65W/UNIV/IND	10,000	36537	2,000
Series 4-8W, 15-22W	220-240V	155/200/4-22W/TANDEM/BX	10,000	36711	250
Series 4-8W, 15-22W	220-240V	155/200/4-22W/TANDEM/IND	10,000	36714	2,000
Single 75-125W	110-130V	155/800/75-125W/BX	10,000	37864	250
Single 75-115W	110-130V	155/801/75-115W/BX	10,000	37975	250
Single 75-115W	110-130V	155/801/75-115W/IND	10,000	37974	2,000
Series 4-8W, 15-22W	220-240V	155/200 4-22W/TANDEM/BX	8,000	64085	250
Series 4-8W, 15-22W	220-240V	155/200 4-22W/TANDEM/IND	8,000	64086	2,000
Single 4-65W	110-130V	155/500 4-65W/UNIV/BX	8,000	64087	250
Single 4-65W	110-130V	155/500 4-65W/UNIV/IND	8,000	64088	2,000



# Brand cross reference

The following pages show GE and alternative brand Order Codes. These cross references are provided as a quick guide and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues and website.

GE	OSRAM	PHILIPS	Havells 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/830	13W/T5/830
F13W/T5/840/WM	13W/840	13W/840	13W/T5/840
F20W/T5/840/WM	19W/830	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/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	34W/840	FHE35W/T5/840
F46W/T5/830/WM	45W/830	45W/830	FHE45W/T5/830
F46W/T5/840/WM	45W/840	45W/840	FHE45W/T5/840
F51W/T5/830/WM	50W/830	50W/830	FHE50W/T5/830
F51W/T5/840/WM	50W/840	50W/840	FHE50W/T5/840
F76W/T5/830/WM	73W/830	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</b>	<b>Master TL5 HE</b>	<b>T5 Luxline Plus FHE</b>
F14W/T5/827/LL	FH14W/827HE	14W/827	FHE14W/827
F14W/T5/830/LL	FH14W/830HE	14W/830	FHE14W/830
F14W/T5/835/LL	FH 14W/835HE	14W/835	FHE14W/835
F14W/T5/840/LL	FH14W/840HE	14W/840	FHE14W/840
F14W/T5/865/LL	FH14W/865HE	14W/865	FHE14W/860
F21W/T5/827/LL	FH21W/827HE	21W/827	FHE21W/827
F21W/T5/830/LL	FH21W/830HE	21W/830	FHE21W/830
F21W/T5/840/LL	FH21W/840HE	21W/840	FHE21W/840
F21W/T5/865/LL	FH21W/865HE	21W/865	FHE21W/860
F28W/T5/827/LL	FH28W/827HE	28W/827	FHE28W/827
F28W/T5/830/LL	FH28W/830HE	28W/830	FHE28W/830
F28W/T5/840/LL	FH28W/840HE	28W/840	FHE28W/840
F28W/T5/865/LL	FH28W/865HE	28W/865	FHE28W/860
F35W/T5/827/LL	FH35W/827HE	35W/827	FHE35W/827
F35W/T5/830/LL	FH35W/830HE	35W/830	FHE35W/830
F35W/T5/835/LL	FH35W/835HE	35W/835	FHE35W/835
F35W/T5/840/LL	FH35W/840HE	35W/840	FHE35W/840
F35W/T5/865/LL	FH35W/865HE	35W/865	FHE35W/860
<b>T5 LongLast™ High Output</b>	<b>Lumilux T5 HO</b>	<b>Master TL5 HO</b>	<b>T5 Luxline Plus FHO</b>
F24W/T5/830/LL	HO24W/830	24W/830	FHO24W/T5/830
F24W/T5/835/LL	HO24W/835	24W/835	FHO24W/T5/835
F24W/T5/840/LL	HO24W/840	24W/840	FHO24W/T5/840
F24W/T5/865/LL	HO24W/865	24W/865	FHO24W/T5/865
F39W/T5/830/LL	HO39W/830	39W/830	FHO39W/T5/830
F39W/T5/840/LL	HO39W/840	39W/840	FHO39W/T5/840
F49W/T5/830/LL	HO49W/830	49W/830	FHO49W/T5/830
F49W/T5/835/LL	-	49W/835	FHO49W/T5/835
F49W/T5/840/LL	HO49W/840	49W/840	FHO49W/T5/840
F49W/T5/865/LL	HO49W/865	49W/865	FHO49W/T5/865
F54W/T5/830/LL	HO54W/830	54W/830	FHO54W/T5/830
F54W/T5/840/LL	HO54W/840	54W/840	FHO54W/T5/840
F54W/T5/865/LL	HO54W/865	54W/865	FHO54W/T5/865
F80W/T5/830/LL	HO80W/830	80W/830	FHO80W/T5/830
F80W/T5/840/LL	HO80W/840	80W/840	FHO80W/T5/840

# Linear Fluorescent Lamps

GE	OSRAM	PHILIPS	Havells Sylvania
<b>T5 Miniature Standard</b>	<b>Energy Saver (Basic) T5 short</b>	<b>TL Mini</b>	<b>T5 Standard</b>
F4W/T5/35	-	-	F4W/135
F4W/T5/33	L4W/640	4W/33-640	F4W/133
F6W/T5/35	-	-	F6W/135
F6W/T5/33	L6W/640	6W/33-640	F6W/133
F8W/T5/29	-	-	F8W/129
F8W/T5/35	L8W/535	-	F8W/135
F8W/T5/33	L8W/640	8W/33-640	F8W/133
F13W/T5/29	-	-	F13W/129
F13W/T5/35	-	-	F13W/135
F13W/T5/33	L13W/640	13W/33-640	F13W/133
<b>T5 Miniature Triphosphore</b>	<b>Lumilux T5 short</b>	<b>Master TL Mini Super</b>	<b>T5 Luxline Plus</b>
F8W/T5/827	L8W/827	8W/830	F8W/830
F8W/T5/840	L8W/840	8W/840	F8W/840
F13W/T5/827	L13W/840	13W/840	F13W/840
<b>T5 Miniature Specfill Standard - Emergency Lighting</b>	<b>Emergency Lighting (Basic) T5 short</b>	-	<b>T5 Emergency</b>
F6W/T5/33/SPECFILL	L6W/640	-	F6W/133/SP200
F8W/T5/35/SPECFILL	-	-	-
F8W/T5/33/SPECFILL	L8W/640	-	F8W/133/SP200
<b>T5 Miniature Specfill Triphosphore - Emergency Lighting</b>	-	-	<b>T5 Emergency</b>
F6W/T5/840/SPECFILL	6W/840	-	F6W/840/SP200
F8W/T5/840/SPECFILL	8W/840	-	F8W/840/SP200
F8W/T5/865/SPECFILL	-	-	-
<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/W/M	16W/830	-	-
F16W/T8/840/W/M	16W/840	16W/840	-
F16W/T8/860/W/M	-	-	-
F32W/T8/830/W/M	32W/830	32W/830	F32W/830
F32W/T8/840/W/M	32W/840	32W/840	F32W/840
F32W/T8/860/W/M	-	-	F32W/865
F51W/T8/830/W/M	51W/830	51W/830	F51W/830
F51W/T8/840/W/M	51W/840	51W/840	F51W/840
F51W/T8/860/W/M	-	-	F51W/865
<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	-

# Brand cross reference

GE	OSRAM	PHILIPS	Havells Sylvania
T8 Polylux XLR™	Lumilux T8	Master TL-D Super 80	T8 Luxline Plus
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	15W/865	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	-	30W/835	F30W/835
F30W/T8/840/POLYLUX	L30W/840	30W/840	F30W/840
F30W/T8/860/POLYLUX	L30W/865	30W/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



## The smart way to reduce costs

**Extra energy saving** up to 12% with WattMiser™ lamps compared to regular plug-in lamps

**Up to 20,000 hours** of extended service life with LongLast™ lamps

**Wide range** of colour and wattage (2700-6500K, 5-70W)

**Dimmability** for additional cost savings

**Motion detection** available with selected drivers

**Extra low** relamping cost with LongLast™ lamps



Office



Industrial





# Biax™ D/T/Q/L LongLast™ for reduced relamping costs

GE Lighting's compact fluorescent LongLast™ lamps provide increased service life, which significantly reduces replacement and maintenance costs.

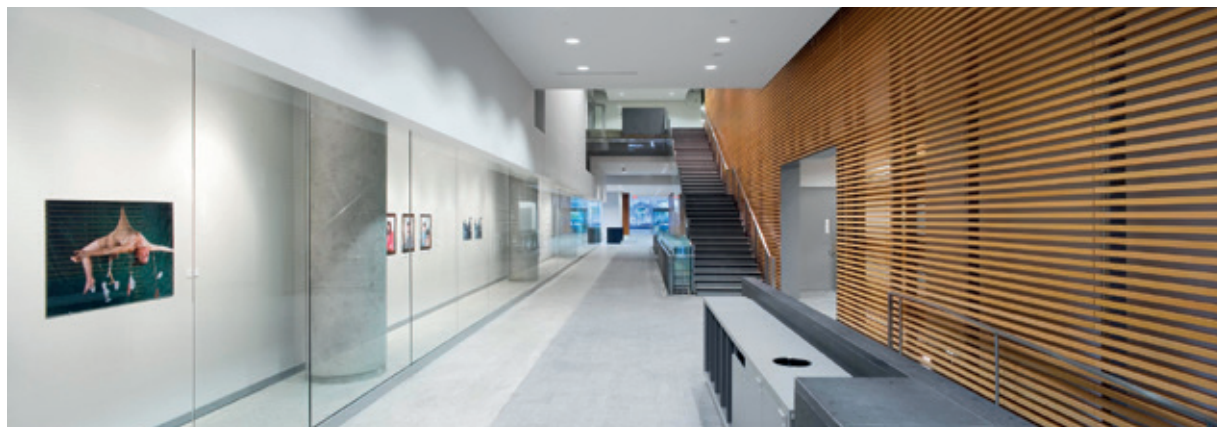
They are compact energy saving fluorescent lamps with double, triple and quad tube designs, providing an ideal light source for small fixtures and downlighters.

GE Biax™ T and Biax™ Q LongLast™ guarantees the same light output in any burning position. It can be used in both closed luminaires and outdoor applications without significant light loss due to GE Amalgam technology providing stable lumen performance within a wide colour temperature range.

**LongLast™**

- Retrofit – can be used with existing fittings and control gears\*
- Reduces replacement and maintenance costs
- Further energy saving with dimming possibilities
- Available in warm to cool colour temperatures (2700 – 6500K)

\*Recommended control gear list available in the data sheets ([www.gelighting.com/eu](http://www.gelighting.com/eu))



## 2D™ Watt-Miser™ *for reduced electricity bills*

GE 2D™ Watt-Miser™ lamps are energy saving compact fluorescent tubes formed into a '2D' shape. All types are available with a 4-pin cap, which allows the lamps to be used with conventional or electronic control gears, dimming and emergency lighting circuits.

The lamps offer additional energy savings, even when used with a standard control gear. GE 2D™ Watt-Miser™ lamps deliver market leading life performance and remarkable energy saving performance that is unique to GE Lighting.



### 2DWattMiser™

- Direct replacements for 16-21-28-38W standard 2D™ lamps
- Unique shape suitable for broad range of applications
- Interchangeable – can be used with existing fittings and control gear
- Very good for circular light distribution
- 5-12% extra energy saving compared to conventional plug-in lamps
- The only 'A' class energy 2D™ lamp on the market



# Selector

Biax™ S



### Biax™ S – 2pin

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



### Biax™ S/E – 4pin

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

Biax™ D



### Biax™ D – 2pin

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

LongLast™



### Biax™ D/E – 4pin

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

LongLast™

Biax™ T



### Biax™ T – 2pin

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

LongLast™



### Biax™ T/E – 4pin

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

LongLast™

Biax™ Q



### Biax™ Q/E – 4pin

Cap: GX24q  
Wattages: 57-70W  
Colours: 2700 - 4000K  
Rated life: 20,000Hrs

LongLast™

### Biax™ Q/E – Electronic Ballast

Volts: 220-240V  
Wattages: 57-70W

Biax™ L



### Biax™ L – 4pin

Cap: 2G11  
Wattages: 18-55W  
Colours: 2700 - 6500K  
Rated life: 10,000 - 22,500Hrs

LongLast™

2D™



### 2D™

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

WattMiser™



### Biax 2D™

Cap: GR10q, GR10q-3  
Wattages: 10-55W  
Colours: 2700 - 3500K  
Rated life: 8,000 - 10,000Hrs



### Biax™ 2D™ Integral

Cap: GR210d  
Wattages: 18W  
Colours: 2700 - 4000K  
Rated life: 10,000Hrs

WattMiser™

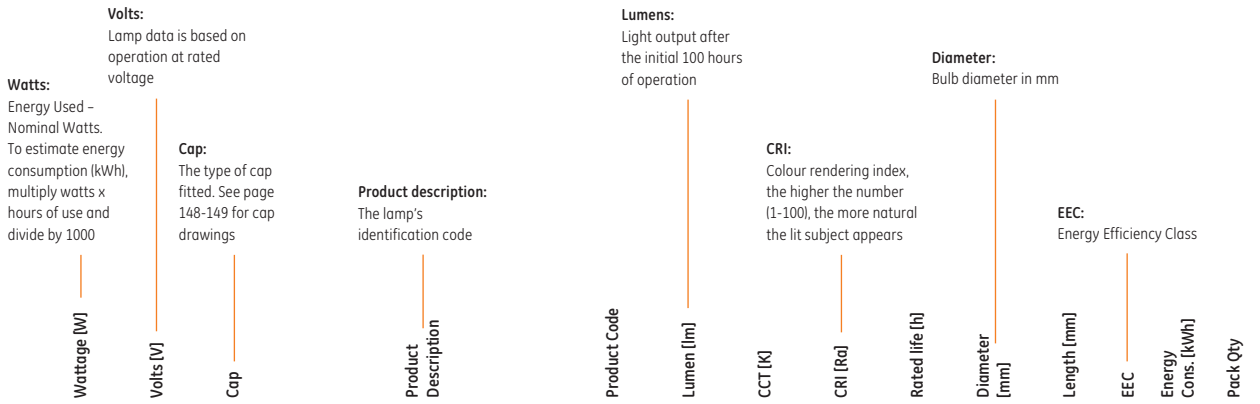
\*the 40-55W versions are LongLast types

# Compact Fluorescent Lamps Non-Integrated

## Product identification

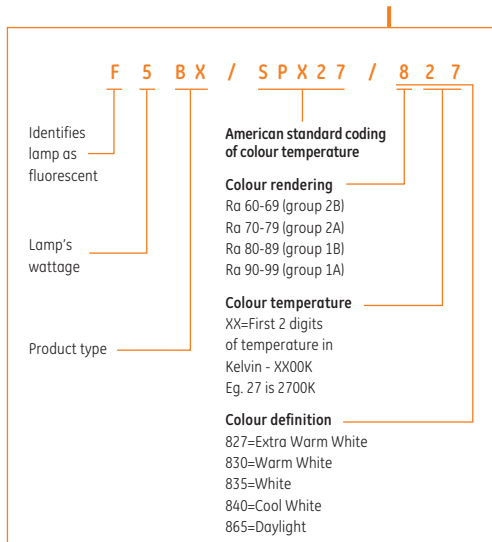
The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Rated Life is stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

All Biax™ CFL lamps are manufactured with the high quality PolyLux triphosphor technology.



### Biax™ S 2-pin, Internal Starter

5	35	G23	F5BX/SPX27/827	37654	265	2700	82	10,000	32	107.5	A	14,69	10
5	35	G23	F5BX/SPX41/840	37661	265	4000	82	10,000	32	107.5	A	14,69	10
7	47	G23	F7BX/SPX27/827	37846	425	2700	82	10,000	32	136.5	A	14,69	10



**CCT:** Colour temperature – Kelvin [K]. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

**Length:** Total length including the length of the pin in mm

**Energy Consumption:** kWh/1000h

**Product code:** It is important to use this code when ordering to ensure that you receive the exact product you require

**Rated Life:** The point in time when 50% of installed lamps are still burning with 3h cycling. With HF gear used with 12h cycling.

**Pack quantity:** Number of product units packed in a case

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CR (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Cons. (kWh)	Pack Qty
5	35	G23	F5BX/SPX27/827	37654	265	2700	82	10,000	32	107.5	B	7,15	10
5	35	G23	F5BX/SPX41/840	37661	265	4000	82	10,000	32	107.5	B	7,15	10
7	47	G23	F7BX/SPX27/827	37846	425	2700	82	10,000	32	136.5	A	9,18	10
7	47	G23	F7BX/830	38930	425	3000	82	10,000	32	136.5	A	9,18	10
7	47	G23	F7BX/SPX35/835	37659	425	3500	82	10,000	32	136.5	A	9,18	10
7	47	G23	F7BX/SPX41/840	37660	425	4000	82	10,000	32	136.5	A	9,18	10
7	47	G23	F7BX/865	38984	425	6500	82	10,000	32	136.5	A	9,18	10
9	60	G23	F9BX/827	37651	600	2700	82	10,000	32	167	A	11,05	10
9	60	G23	F9BX/830	38929	600	3000	82	10,000	32	167	A	11,05	10
9	60	G23	F9BX/SPX35/835	37652	600	3500	82	10,000	32	167	A	11,05	10
9	60	G23	F9BX/SPX41/840	37653	600	4000	82	10,000	32	167	A	11,05	10
9	60	G23	F9BX/865	38985	600	6500	82	10,000	32	167	A	11,05	10
11	91	G23	F11BX/827	37663	900	2700	82	10,000	32	237	A	14,69	10
11	91	G23	F11BX/830	38928	900	3000	82	10,000	32	237	A	14,69	10
11	91	G23	F11BX/835	37666	900	3500	82	10,000	32	237	A	14,69	10
11	91	G23	F11BX/840	37664	900	4000	82	10,000	32	237	A	14,69	10
11	91	G23	F11BX/865	38986	900	6500	82	10,000	32	237	A	14,69	10



### Biac™ S/E 4-pin, External Starter Required

5	35	2G7	F5BX/827/4P	37714	265	2700	82	15,000***	37.5	92	A	5,50	10
5	35	2G7	F5BX/840/4P	37715	265	4000	82	15,000***	37.5	92	A	5,50	10
7	47	2G7	F7BX/827/4P	37658	425	2700	82	15,000***	37.5	121	A	7,15	10
7	47	2G7	F7BX/840/4P	37716	425	4000	82	15,000***	37.5	121	A	7,15	10
9	60	2G7	F9BX/827/4P	37710	600	2700	82	15,000***	37.5	151	A+	8,80	10
9	60	2G7	F9BX/830/4P	97926	600	3000	82	15,000***	37.5	151	A+	8,80	10
9	60	2G7	F9BX/840/4P	37711	600	4000	82	15,000***	37.5	151	A+	8,80	10
11	91	2G7	F11BX/827/4P	37717	900	2700	82	15,000***	37.5	222	A+	12,10	10
11	91	2G7	F11BX/830/4P	97925	900	3000	82	15,000***	37.5	222	A+	12,10	10
11	91	2G7	F11BX/840/4P	37713	900	4000	82	15,000***	37.5	222	A+	12,10	10
11	91	2G7	F11BX/865/4P	12603	900	6500	82	15,000***	37.5	222	A+	12,10	10
11	91	2G7	F11BX/GREEN/2G7	98311	1200	GREEN	N/A	15,000***	37.5	222	N/A	N/A	10
11	91	2G7	F11BX/BLUE/2G7	98313	250	BLUE	N/A	15,000***	37.5	222	N/A	N/A	10
11	91	2G7	F11BX/RED/2G7	98314	600	RED	N/A	15,000***	37.5	222	N/A	N/A	10



### Biac™ D 2-pin, Internal Starter

10	64	G24D-1	F10DBX/T4/827/2P	70248	600	2700	82	12,000	34,4	108,5	B	12,70	10
10	64	G24D-1	F10DBX/T4/830/2P	70258	600	3000	82	12,000	34,4	108,5	B	12,70	10
10	64	G24D-1	F10DBX/T4/840/2P	70265	600	4000	82	12,000	34,4	108,5	B	12,70	10
10	64	G24D-1	F10DBX/T4/865/2P	70268	600	6500	82	12,000	34,4	108,5	B	12,70	10
10	64	G24D-1	F10DBX/T3/827/2P	78211*	600	2700	82	12,000	34,4	108	B	12,70	10
10	64	G24D-1	F10DBX/T3/830/2P	78212*	600	3000	82	12,000	34,4	108	B	12,70	10
10	64	G24D-1	F10DBX/T3/835/2P	78213**	600	3500	82	12,000	34,4	108	B	12,70	10
10	64	G24D-1	F10DBX/T3/840/2P	78214*	600	4000	82	12,000	34,4	108	B	12,70	10
10	64	G24D-1	F10DBX/T3/865/2P	78215*	600	6500	82	12,000	34,4	108	B	12,70	10
13	91	G24D-1	F13DBX/T4/827/2P	70561	900	2700	82	12,000	34,4	133	A	16,18	10
13	91	G24D-1	F13DBX/T4/830/2P	70572	900	3000	82	12,000	34,4	133	A	16,18	10
13	91	G24D-1	F13DBX/T4/840/2P	70573	900	4000	82	12,000	34,4	133	A	16,18	10
13	91	G24D-1	F13DBX/T4/865/2P	70574	900	6500	82	12,000	34,4	133	A	16,18	10
13	91	G24D-1	F13DBX/T3/827/2P	78221*	900	2700	82	12,000	34,4	139	A	16,18	10
13	91	G24D-1	F13DBX/T3/830/2P	78222*	900	3000	82	12,000	34,4	139	A	16,18	10
13	91	G24D-1	F13DBX/T3/835/2P	78223**	900	3500	82	12,000	34,4	139	A	16,18	10
13	91	G24D-1	F13DBX/T3/840/2P	78224*	900	4000	82	12,000	34,4	139	A	16,18	10
13	91	G24D-1	F13DBX/T3/865/2P	78225*	900	6500	82	12,000	34,4	139	A	16,18	10



\* will be delisted, change from T3 to T4  
 \*\* will be delisted with no direct substitute  
 \*\*\* life on electronic gear 12h-cycle

# Compact Fluorescent Lamps Non-Integrated



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Biax™ D 2-pin, Internal Starter</b>													
18	100	G24d-2	F18DBX/T4/SPX27/827	12860	1200	2700	82	12,000	34.4	154	B	22.10	10
18	100	G24d-2	F18DBX/T4/SPX30/830	12861	1200	3000	82	12,000	34.4	154	B	22.10	10
18	100	G24d-2	F18DBX/T4/SPX35/835	12863	1200	3500	82	12,000	34.4	154	B	22.10	10
18	100	G24d-2	F18DBX/T4/SPX41/840	12864	1200	4000	82	12,000	34.4	154	B	22.10	10
18	100	G24d-2	F18DBX/T4/SPX65/865	13017	1200	6500	82	12,000	34.4	154	B	22.10	10
26	105	G24d-3	F26DBX/T4/SPX27/827	35250	1800	2700	82	12,000	34.4	169.5	B	31.35	10
26	105	G24d-3	F26DBX/T4/SPX30/830	35237	1800	3000	82	12,000	34.4	169.5	B	31.35	10
26	105	G24d-3	F26DBX/T4/SPX35/835	35251	1800	3500	82	12,000	34.4	169.5	B	31.35	10
26	105	G24d-3	F26DBX/T4/SPX41/840	35252	1800	4000	82	12,000	34.4	169.5	B	31.35	10
26	105	G24d-3	F26DBX/T4/SPX65/865	35305	1710	6500	82	12,000	34.4	169.5	B	31.42	10



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Biax™ D/E LongLast™ 4-pin, External Starter Required</b>													
10	64	G24q-1	F10DBX/T4/827/4P	70553	600	2700	82	20,000***	34.4	101	A	10.45	10
10	64	G24q-1	F10DBX/T4/830/4P	70555	600	3000	82	20,000***	34.4	101	A	10.45	10
10	64	G24q-1	F10DBX/T4/840/4P	70560	600	4000	82	20,000***	34.4	101	A	10.45	10
10	64	G24q-1	F10DBX/T3/827/4P	78217*	600	2700	82	20,000***	34.4	100.5	A	10.45	10
10	64	G24q-1	F10DBX/T3/830/4P	78218*	600	3000	82	20,000***	34.4	100.5	A	10.45	10
10	64	G24q-1	F10DBX/T3/835/4P	78219**	600	3500	82	20,000***	34.4	100.5	A	10.45	10
10	64	G24q-1	F10DBX/T3/840/4P	78220	600	4000	82	20,000***	34.4	100.5	A	10.45	10
10	64	G24q-1	F10DBX/T3/865/4P	78231**	600	6500	82	20,000***	34.4	100.5	A	10.45	10
13	91	G24q-1	F13DBX/T4/827/4P	70580	900	2700	82	20,000***	34.4	125.5	A	13.75	10
13	91	G24q-1	F13DBX/T4/830/4P	70583	900	3000	82	20,000***	34.4	125.5	A	13.75	10
13	91	G24q-1	F13DBX/T4/840/4P	70584	900	4000	82	20,000***	34.4	125.5	A	13.75	10
13	91	G24q-1	F13DBX/T4/865/4P	70587	900	6500	82	20,000***	34.4	125.5	A	13.75	10
13	91	G24q-1	F13DBX/T3/827/4P	78226*	900	2700	82	20,000***	34.4	131.5	A	13.75	10
13	91	G24q-1	F13DBX/T3/830/4P	78227*	900	3000	82	20,000***	34.4	131.5	A	13.75	10
13	91	G24q-1	F13DBX/T3/835/4P	78228**	900	3500	82	20,000***	34.4	131.5	A	13.75	10
13	91	G24q-1	F13DBX/T3/840/4P	78229*	900	4000	82	20,000***	34.4	131.5	A	13.75	10
13	91	G24q-1	F13DBX/T3/865/4P	78232*	900	6500	82	20,000***	34.4	131.5	A	13.75	10
18	100	G24q-2	F18DBX/SPX27/827/4P	12865	1200	2700	82	20,000***	34.4	146.5	A	18.15	10
18	100	G24q-2	F18DBX/SPX30/830/4P	12866	1200	3000	82	20,000***	34.4	146.5	A	18.15	10
18	100	G24q-2	F18DBX/SPX35/835/4P	12869	1200	3500	82	20,000***	34.4	146.5	A	18.15	10
18	100	G24q-2	F18DBX/SPX41/840/4P	12870	1200	4000	82	20,000***	34.4	146.5	A	18.15	10
26	105	G24q-3	F26DBX/SPX27/827/4P	35247	1800	2700	82	20,000***	34.4	162	A	26.40	10
26	105	G24q-3	F26DBX/SPX30/830/4P	35235	1800	3000	82	20,000***	34.4	162	A	26.40	10
26	105	G24q-3	F26DBX/SPX35/835/4P	35248	1800	3500	82	20,000***	34.4	162	A	26.40	10
26	105	G24q-3	F26DBX/SPX41/840/4P	35236	1800	4000	82	20,000***	34.4	162	A	26.40	10
26	105	G24q-3	F26DBX/SPX65/865/4P	42798	1710	6500	82	20,000***	34.4	162	A	26.40	10



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Biax™ T 2-pin with Amalgam, Internal Starter</b>													
13	91	GX24d-1	F13TBX/827/A/2P	35940	900	2700	82	12,000	49.3	112.9	B	16.18	10
13	91	GX24d-1	F13TBX/SPX30/830/A/2P	35966	900	3000	82	12,000	49.3	112.9	B	16.18	10
13	91	GX24d-1	F13TBX/SPX41/A/2P	35941	900	4000	82	12,000	49.3	112.9	B	16.18	10
18	100	GX24d-2	F18TBX/SPX27/827/A/2P	35945	1200	2700	82	12,000	49.3	127.4	B	22.10	10
18	100	GX24d-2	F18TBX/SPX30/830/A/2P	35944	1200	3000	82	12,000	49.3	127.4	B	22.10	10
18	100	GX24d-2	F18TBX/SPX41/840/A/2P	35939	1200	4000	82	12,000	49.3	127.4	B	22.10	10
26	105	GX24d-3	F26TBX/SPX27/827/A/2P	35959	1800	2700	82	12,000	49.3	139.9	B	32.79	10
26	105	GX24d-3	F26TBX/SPX30/830/A/2P	35952	1800	3000	82	12,000	49.3	139.9	B	32.79	10
26	105	GX24d-3	F26TBX/SPX41/840/A/2P	35964	1800	4000	82	12,000	49.3	139.9	B	32.79	10

\* will be delisted, change from T3 to T4  
 \*\* will be delisted with no direct substitute  
 \*\*\* life on electronic gear 12h-cycle

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Biax™ T/E LongLast™ 4-pin with Amalgam, External Starter Required</b>													
13	91	GX24q-1	F13TBX/SPX27/827/A/4P	34391	900	2700	82	20,000**	49.3	106.2	A	13,75	10
13	91	GX24q-1	F13TBX/SPX30/830/A/4P	34395	900	3000	82	20,000**	49.3	106.2	A	13,75	10
13	91	GX24q-1	F13TBX/SPX35/835/A/4P	34400	900	3500	82	20,000**	49.3	106.2	A	13,75	10
13	91	GX24q-1	F13TBX/SPX41/840/A/4P	34387	900	4000	82	20,000**	49.3	106.2	A	13,75	10
18	100	GX24q-2	F18TBX/SPX27/827/A/4P	34392	1200	2700	82	20,000**	49.3	120.7	A	18,15	10
18	100	GX24q-2	F18TBX/SPX30/830/A/4P	34396	1200	3000	82	20,000**	49.3	120.7	A	18,15	10
18	100	GX24q-2	F18TBX/SPX35/835/A/4P	34405	1200	3500	82	20,000**	49.3	120.7	A	18,15	10
18	100	GX24q-2	F18TBX/SPX41/840/A/4P	34385	1200	4000	82	20,000**	49.3	120.7	A	18,15	10
26	105	GX24q-3	F26TBX/SPX27/827/A/4P	34393	1800	2700	82	20,000**	49.3	133.2	A	26,40	10
26	105	GX24q-3	F26TBX/SPX30/830/A/4P	34397	1800	3000	82	20,000**	49.3	133.2	A	26,40	10
26	105	GX24q-3	F26TBX/SPX35/835/A/4P	34406	1800	3500	82	20,000**	49.3	133.2	A	26,40	10
26	105	GX24q-3	F26TBX/SPX41/840/A/4P	34381	1800	4000	82	20,000**	49.3	133.2	A	26,40	10

<b>Biax™ T/E LongLast™ 4-pin with Amalgam, External Starter Required with HF gear*</b>													
32	100	GX24q-3	F32TBX/SPX27/827/AP4P	94520	2400	2700	82	20,000**	49.3	146.2	A	35,20	10
32	100	GX24q-3	F32TBX/SPX30/830/AP4P	94521	2400	3000	82	20,000**	49.3	146.2	A	35,20	10
32	100	GX24q-3	F32TBX/SPX35/835/A/4P	94522	2400	3500	82	20,000**	49.3	146.2	A	35,20	10
32	100	GX24q-3	F32TBX/SPX41/840/A/4P	94523	2400	4000	82	20,000**	49.3	146.2	A	35,20	10
42	135	GX24q-4	F42TBX/827/A/4P	46312	3200	2700	82	20,000**	49.3	163.2	A	47,30	10
42	135	GX24q-4	F42TBX/830/A/4P	46313	3200	3000	82	20,000**	49.3	163.2	A	47,30	10
42	135	GX24q-4	F42TBX/835/A/4P	46314	3200	3500	82	20,000**	49.3	163.2	A	47,30	10
42	135	GX24q-4	F42TBX/841/A/4P	46315	3200	4000	82	20,000**	49.3	163.2	A	47,30	10

<b>Biax™ Q/E LongLast™ 4-pin with Amalgam, External Starter Required with HF gear*</b>													
57	175	GX24q-5	F57QBX/827/A/4P/LL	45213	4300	2700	82	20,000**	58.3	180.7	A	61,60	10
57	175	GX24q-5	F57QBX/830/A/4P/LL	45204	4300	3000	82	20,000**	58.3	180.7	A	61,60	10
57	175	GX24q-5	F57QBX/835/A/4P/LL	45202	4300	3500	82	20,000**	58.3	180.7	A	61,60	10
57	175	GX24q-5	F57QBX/840/A/4P/LL	45201	4300	4000	82	20,000**	58.3	180.7	A	61,60	10
70	219	GX24q-6	F70QBX/830/A/4P/LL	45208	5200	3000	82	20,000**	58.3	208.2	A	77,00	10
70	219	GX24q-6	F70QBX/835/A/4P/LL	45219	5200	3500	82	20,000**	58.3	208.2	A	77,00	10
70	219	GX24q-6	F70QBX/840/A/4P/LL	45218	5200	4000	82	20,000**	58.3	208.2	A	77,00	10

<b>Biax™L LongLast™4-pin, External Starter Required with HF gear*</b>													
40	126	2G11	F40BX/830	41171	3500	3000	82	22,500	43.8	538.8	A	44,00	25
40	126	2G11	F40BX/835	41172	3500	3500	82	22,500	43.8	538.8	A	44,00	25
40	126	2G11	F40BX/840	41173	3500	4000	82	22,500	43.8	538.8	A	44,00	25
55	101	2G11	F55BX/830	41174	4800	3000	82	22,500	43.8	538.8	A	60,50	25
55	101	2G11	F55BX/835	41260	4800	3500	82	22,500	43.8	538.8	A	60,50	25
55	101	2G11	F55BX/840	41298	4800	4000	82	22,500	43.8	538.8	A	60,50	25
55	101	2G11	F55BX/865	75695	4550	6500	82	22,500	43.8	538.8	A	60,50	25

\*Life test: If HF gear used with 12h cycling, otherwise with 3h cycling.

\*\*life on electronic gear 12h-cycle



# Compact Fluorescent Lamps Non-Integrated

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Biax™ L 4-pin, External Starter Required</b>													
18	58	2G11	F18BX/827	41087	1250	2700	82	15,000***	43.8	231.3	A	17,60	25
18	58	2G11	F18BX/830	41088	1250	3000	82	15,000***	43.8	231.3	A	17,60	25
18	58	2G11	F18BX/835	41089	1250	3500	82	15,000***	43.8	231.3	A	17,60	25
18	58	2G11	F18BX/840	41090	1250	4000	82	15,000***	43.8	231.3	A	17,60	25
24	87	2G11	F24BX/827	41128	1800	2700	82	15,000***	43.8	326.8	A	24,20	25
24	87	2G11	F24BX/830	41134	1800	3000	82	15,000***	43.8	326.8	A	24,20	25
24	87	2G11	F24BX/835	41145	1800	3500	82	15,000***	43.8	326.8	A	24,20	25
24	87	2G11	F24BX/840	41155	1800	4000	82	15,000***	43.8	326.8	A	24,20	25
34	120	2G11	F34BX/830	41163	2800	3000	82	15,000***	43.8	538.8	A+	33,00	25
34	120	2G11	F34BX/835	41166	2800	3500	82	15,000***	43.8	538.8	A+	33,00	25
34	120	2G11	F34BX/840	41167	2800	4000	82	15,000***	43.8	538.8	A+	33,00	25
36	106	2G11	F36BX/827	41307	2900	2700	82	15,000***	43.8	421.8	A+	36,52	25
36	106	2G11	F36BX/830	41168	2900	3000	82	15,000***	43.8	421.8	A+	36,52	25
36	106	2G11	F36BX/835	41169	2900	3500	82	15,000***	43.8	421.8	A+	36,52	25
36	106	2G11	F36BX/840	41170	2900	4000	82	15,000***	43.8	421.8	A+	36,52	25
36	106	2G11	F36BX/865	75694	2750	6500	82	15,000***	43.8	421.8	A	36,52	25



## 2D™ Watt-Miser™

16	103	GR8	F162D/827	41744*	1100	2700	82	12,000	138	142	A	18,74	20
16	103	GR8	F162D/835	41745*	1100	3500	82	12,000	138	142	A	18,74	20
16	103	GR10q	F162D/827/4P	41746*	1100	2700	82	12,000	138	142	A	15,40	20
16	103	GR10q	F162D/830/4P	75066**	1100	3000	82	12,000	138	142	A	15,40	20
16	103	GR10q	F162D/835/4P	41747*	1100	3500	82	12,000	138	142	A	15,40	20
16	103	GR8	F162D/860	41749*	1050	6000	82	12,000	138	142	A	18,78	20
16	103	GR8	F162D/T4/827/2P GE HB 1/10 WM	85135	1100	2700	82	12,000	138	142	A	18,74	10
16	103	GR8	F162D/T4/835/2P GE HB 1/10 WM	85138	1100	3500	82	12,000	138	142	A	18,74	10
16	103	GR10q	F162D/T4/827/4P GE HB 1/10 WM	85141	1100	2700	82	12,000	138	142	A	15,40	10
16	103	GR10q	F162D/T4/835/4P GE HB 1/10 WM	85142	1100	3500	82	12,000	138	142	A	15,40	10
16	103	GR8	F162D/T4/860/2P GE HB 1/10 WM	85140	1050	6000	82	12,000	138	142	A	18,78	10
21	103	GR10q	F212D/827/4P	41794*	1375	2700	82	12,000	138	142	A	20,90	20
21	103	GR10q	F212D/835/4P	41806*	1375	3500	82	12,000	138	142	A	20,90	20
21	103	GR10q	F212D/860/4P	41808*	1305	6000	82	12,000	138	142	A	20,90	20
21	103	GR10q	F212D/T4/827/4P GE HB 1/10 WM	85143	1375	2700	82	12,000	138	142	A	20,9	10
21	103	GR10q	F212D/T4/835/4P GE HB 1/10 WM	85144	1375	3500	82	12,000	138	142	A	20,9	10
21	103	GR10q	F212D/T4/860/4P GE HB 1/10 WM	85145	1305	6000	82	12,000	138	142	A	20,9	10
28	108	GR8	F282DT5/827/2P	10546*	2150	2700	82	15,000	202	204	A	31,71	20
28	108	GR10q	F282DT5/827/4P	10547*	2150	2700	82	15,000	202	204	A	26,95	20
28	108	GR10q	F282DT5/830/4P	75068*	2150	3000	82	15,000	202	204	A	26,95	20
28	108	GR10q	F282DT5/835/4P	10567*	2150	3500	82	15,000	202	204	A	26,95	20
28	108	GR10q	F282DT5/840/4P	10548*	2150	4000	82	15,000	202	204	A	26,95	20
28	108	GR8	F282D/T5/827/2P GE HB 1/10 WM	85109	2150	2700	82	15,000	202	204	A	31,71	20
28	108	GR10q	F282D/T5/827/4P GE HB 1/10 WM	85118	2150	2700	82	15,000	202	204	A	26,95	20
28	108	GR10q	F282D/T5/830/4P GE HB1/10 WM	85120	2150	3000	82	15,000	202	204	A	26,95	20
28	108	GR10q	F282D/T5/835/4P GE HB 1/10 WM	85130	2150	3500	82	15,000	202	204	A	26,95	20
28	108	GR10q	F282D/T5/840/4P GE HB 1/10 WM	85132	2150	4000	82	15,000	202	204	A	26,95	20



\* will be delisted, pack change from blister to hanging box

\*\* will be delisted with no direct substitute

\*\*\*life on electronic gear 12k-cycle





Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Diameter [mm]	Length [mm]	EEC	Energy Cons. [kWh]	Pack Qty
<b>2D™ Watt-Miser™</b>													
38	110	GR10q	F382DT5/827/4P	10550*	3020	2700	82	15000	202	204	A	37,95	20
38	110	GR10q	F382DT5/830/4P	75067**	3020	3000	82	15000	202	204	A	37,95	20
38	110	GR10q	F382DT5/835/4P	10566*	3020	3500	82	15000	202	204	A	37,95	20
38	110	GR10q	F382D/T5/827/4P GE HB 1/10 WM	85133	3020	2700	82	15,000	202	204	A	37,95	10
38	110	GR10q	F382D/T5/835/4P GE HB 1/10 WM	85134	3020	3500	82	15,000	202	204	A	37,95	10
38	110	GR10q	F382D/T5/860/4P LEG HB 1/10 WM	85151	2860	6000	82	15,000	202	204	A	37,95	10
55	98	GR10q3	F552D/T5/827/4P A LEG HB 1/10	85148	3900	2700	82	10,000	202	204	A	61,6	10
55	98	GR10q3	F552D/T5/830/4P A/T LEG HB 1/10	85149	3900	3000	82	10,000	202	204	A	61,6	10
55	98	GR10q3	F552D/T5/835/4P A LEG HB 1/10	85150	3900	3500	82	10,000	202	204	A	61,6	10

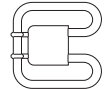
### Biax™ 2D™

10	60	GR10q	F10W/2D/827/4P	88105	650	2700	82	8,000	92	95	A	10,45	20
10	60	GR10q	F10W/2D/835/4P	88106	650	3500	82	8,000	92	95	A	10,45	20
55	98	GR10q-3	F552D/T5/827/A/4P	78337*	3900	2700	82	10,000	202	204	A	61,60	20
55	98	GR10q-3	F552D/T5/830/4P	78339*	3900	3000	82	10,000	202	204	A	61,60	20
55	98	GR10q-3	F552D/T5/835/A/4P	78340*	3900	3500	82	10,000	202	204	A	61,60	20



### Biax™ 2D™ Watt-Miser™ with Integral Control Gear

18	220-240	GRZ10d	FLE18W2D/827 GRZ10D	18122***	1200	2700	82	10,000	138	142	A	16,00	10
18	220-240	GRZ10d	FLE18W2D/835 GRZ10D	18123***	1200	3500	82	10,000	138	142	A	16,00	10
18	220-240	GRZ10d	FLE18W2D/840 GRZ10D	18120***	1200	4000	82	10,000	138	142	A	16,00	10



Wattage [W]	Volts [V]	Product Description	Product Code	Diameter [mm]	Length [mm]	Pack Qty
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### Biax™ Q/E Electronic Ballast

57-70	220-240	BLS/E/1X57-70W/QBX220-240V	13248	79	123	12
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\* will be delisted, pack change from blister to hanging box

\*\* will be delisted with no direct substitute

\*\*\* will be delisted in 2015 no substitute

# Compact Fluorescent Lamps Non-Integrated

The following pages show GE and alternative brand Order Codes. These cross references are provided as a quick guide and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues and website.

GE			OSRAM	PHILIPS	Havells Sylvania
	<b>Biax™S 2pin</b>	<b>Colour temperature</b>	<b>Dulux S</b>	<b>Master PL-S 2</b>	<b>Lynx-S</b>
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	-	-	
	<b>Biax™S/E 4pin</b>		<b>Dulux-SE</b>	<b>Master PL-S 4</b>	<b>Lynx - SE</b>
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	-	-	-	-
	<b>Biax™D 2pin</b>		<b>Dulux-D</b>	<b>Master PL-C</b>	<b>Lynx-D</b>
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
	F10DBX/865	6500	DULUX D 10W/865	-	Lynx D 10W/860
13W	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
	F13DBX/865	6500	DULUX D 13W/865	-	Lynx D 13W/860
18W	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/860
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
	F26DBX/835	3500	DULUX D 26W/835	PL-C 26W/835/2P	Lynx D 26W/835

# Brand cross reference

GE			OSRAM	PHILIPS	Havells Sylvania
Biax™D/E 4pin			Dulux-DE	Master PL-C	Lynx-DE
		Colour temperature			
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
	F13DBX/865/4P/EOL	6500	-	-	Lynx DE 13W/860
18W	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	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
	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/860
Biax™T 2pin			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 4pin			Dulux T/E Plus	Master PL-T 4pin	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	-	-	-
	F13TBX/840/A/4P/EOL	4000	DULUX T/E 13W/840	PL-T 13W/840/4P	-
18W	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
	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
26W	F26TBX/827/A/4P/EOL	2700	DULUX T/E 26W/827	PL-T 26W/827/4P	-
	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	-	-	-
	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

# Compact Fluorescent Lamps Non-Integrated

GE		OSRAM		PHILIPS		Havells Sylvania	
	Biax™D/E 4pin	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	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		
26W	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		
	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/860		
Biax™T 2pin			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 4pin			Dulux T/E Plus	Master PL-T 4pin	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	-		
32W	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		
42W	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	-	-	-		
42W	F32TBX/840/A/4P/EOL	4000	DULUX T/E 32W/840	PL-T 32W/840/4P	Lynx TE 32W/840		
	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		

# Brand cross reference

GE			OSRAM	PHILIPS	Havells Sylvania
	<b>Biax™Q/E 4pin</b>	<b>Colour temperature</b>	<b>Dulux T/E</b>	<b>PL-T</b>	<b>Lynx- TE</b>
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	-	-	-
	<b>Biax™L 4pin</b>		<b>Dulux-L</b>	<b>PL-L</b>	<b>Lynx L &amp; Lynx-LE</b>
18W	F18BX/827	2700	DULUX L 18W/827	-	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
	<b>Biax™ 2D 2pin</b>			<b>PL-Q 2pin</b>	<b>Lynx-Q (GR8 base) 2 pin</b>
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	-	-
	<b>Biax™ 2D 4pin</b>			<b>PL-Q 4pin</b>	<b>Lynx-QE 4 pin</b>
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



## Save money on energy bills and maintain quality

**Longer life** from 6,000 to 15,000 hours

**Quick start** Flicker-free and fast warm-up

**Fit almost everywhere** stick, spiral, small incandescent shapes

**Environmentally friendly** solutions – with reduced mercury content

**Special options** high switching cycles up to 100,000

**Energy efficient and economic** 80% efficiency vs. traditional incandescent \*

GE Lighting's integrated compact fluorescent lamps combine energy saving benefits with high quality lighting.

Integrated compact fluorescent lamps are suitable for a variety of applications, available in decor incandescent sizes and look-a-like shapes, with both ES and BC caps.

Outstanding light quality is guaranteed throughout the life of the lamps with colour temperatures from 2600 to 6500K.



Home



Office



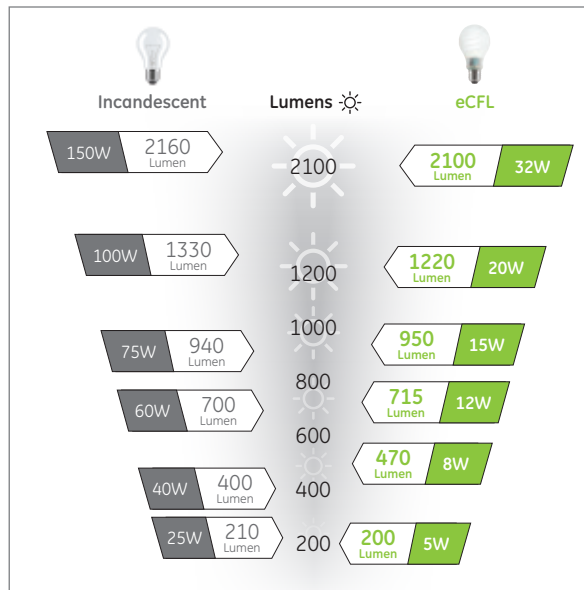
\*from our 'A' energy labelled products



# Switching from Watts to Lumens

Traditional light bulbs are being phased out as modern light technologies use different amounts of power to achieve the same amount of light. Instead of referring to watts anymore, we now need to measure and compare light in terms of lumens.

Save money on bills yet lose nothing in quality with GE's new electronic compact fluorescent (eCFL) lamps. Ideal for ambient light, eCFLs combine energy saving benefits with high quality lighting.



## Quick guide to GE Lighting packaging

The diagram illustrates the layout of GE lighting packaging with the following labeled sections:

- Product information box**: Located at the top left of the packaging.
- Cap type**: Points to the top of the lamp.
- Clear Image of lamp and base**: Points to the central image of the lamp.
- Product symbol**: Points to the bottom of the lamp image.
- Wattage comparison**: Located at the top right, comparing the lamp's wattage to a standard incandescent bulb.
- Lumen output and colour temperature**: Located in the middle right, providing technical specifications.
- Energy rating illustration**: Points to the energy efficiency scale (A+, A, B, C, D, E).
- Rated life in hours**: Points to the expected lifespan of the lamp.
- Energy consumption**: Points to the energy-saving features and metrics.
- Safety and warning notices**: Points to the bottom section containing safety instructions.

## LongLast™ Spiral T2

The LongLast™ T2 Spiral Compact Fluorescent Lamp (CFL) is the smallest size long life CFL lightbulb on the market.

This unique lamp offers excellent light quality over its 15,000 hours rated life and can be used in indoor or outdoor applications.

With continuing technological advancements and miniaturisation, today's T2 CFL lamps are even smaller than the incandescent lamps that they replace to ensure that they are discreet – yet high performing.

**LongLast™**

- 15,000 hours rated life
- Small dimensions
- Fast warm-up
- 20,000 high switching cycle endurance
- Low mercury content <1 mg
- 'A' energy class

### Product range:

**LongLast™ T2 Spiral lamps are available in a full range of:**

- 8, 12, 15, 20 and 23 wattages
- E27 and B22 caps
- Warm (2700K) and Cool (4000K) colours



## Stick T3 Mini

The T3 10,000 hours Mini stick range offers low energy consumption in a compact size, along with additional benefits such as instant light-on and fast warm-up. Stick shaped lamps provide an energy saving alternative for almost all applications where incandescent bulbs are currently used – ensuring excellent light quality and reliable energy savings.



- 10,000 hours rated life
- Fast warm-up
- Instant switch on feature
- 'A' energy class
- Small dimensions

### Product range:

Stick T3 Mini 10,000 hours lamps are available in:

- 9W, 11W, 15W, 20W and 23W
- E14, E27, B22 caps
- Warm (2700K), Cool (4000K) and Daylight (6500K) colours

# Compact Fluorescent Lamps Integrated

## Stick



### T3 Mini

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



### T3 Mini Economy

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

## Spiral



### LongLast T2

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



### T2

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



### T3

Cap: E27  
Wattages: 11-20W  
Colours: 2700-6500K  
Rated life: 8,000Hrs



### T4 High Power Factor (HPF)

Cap: E27  
Wattages: 32W  
Colours: 2700K  
Rated life: 10,000Hrs

# Selector

## Decor



### GLS T2/T3

Cap: E27, E14, B22  
Wattages: 8-20W  
Colours: 2700K  
Rated life: 6,000Hrs



### Spherical T2

Cap: E27, E14, B22  
Wattages: 5-7W  
Colours: 2700K  
Rated life: 6,000Hrs



### Candle T2/T3

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

## Globe



### Globe T3

Cap: E27  
Wattages: 20-23W  
Colours: 2700K  
Rated life: 8,000Hrs

## Reflector



### Genura

Cap: E27  
Wattages: 23W  
Colours: 2700-3000K  
Rated life: 15,000Hrs

# Compact Fluorescent Lamps Integrated

## Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where "rated life" or "median life" are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

### Watts:

Energy Used – Nominal Watts.

To estimate energy consumption (kWh), multiply watts x hours of use and divide by 1000

### Cap:

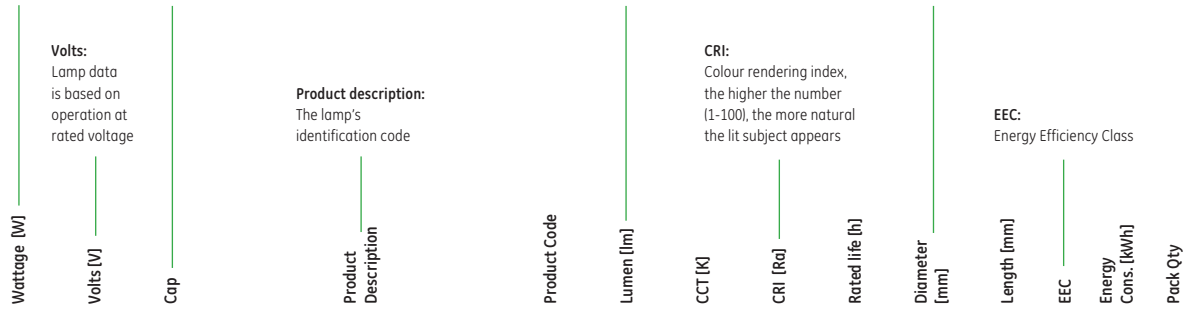
See cap drawings in the end of the catalogue.

### Lumens:

Light output after the initial 100 hours of operation

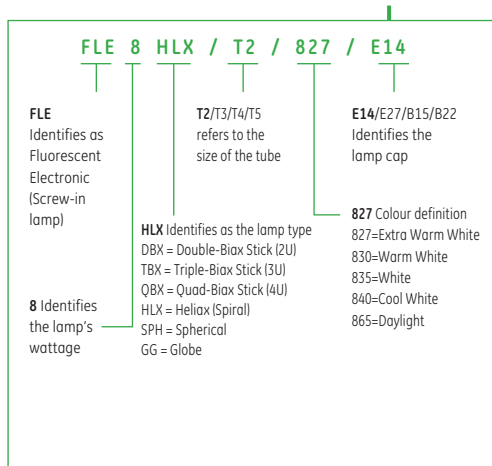
### Diameter:

Bulb diameter in mm



### Stick T3 Mini - 10,000 hours

9	220-240	B22	FLE9TBX/T3/827/B22	71100	470	2700	82	10 000	110	45	A	9	8
9	220-240	E27	FLE9TBX/T3/827/E27	71297	470	2700	82	10 000	111	45	A	9	8
9	220-240	E14	FLE9TBX/T3/827/E14	71298	470	2700	82	10 000	120	45	A	9	8



### CCT:

Colour temperature – Kelvin [K]. The visual warmth or coolness of the light. The higher the number the whiter or cooler the light appears

### Length:

Lamp length in mm

### Energy Consumption:

kWh/1000h

### Product code:

It is important to use this code when ordering to ensure that you receive the exact product you require

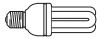
### Rated life:

The point in time when 50% of installed lamps are still burning

### Pack quantity:

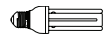
Number of product units packed in a case

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Length (mm)	Diameter (mm)	EEC	Energy Cons. (kWh)	Pack Qty
9	220-240	B22	FLE9TBX/T3/827/B22	71100	470	2700	82	10,000	110	45	A	9	8
9	220-240	E27	FLE9TBX/T3/827/E27	71297	470	2700	82	10,000	111	45	A	9	8
9	220-240	E14	FLE9TBX/T3/827/E14	71298	470	2700	82	10,000	120	45	A	9	8
9	220-240	E27	FLE9TBX/T3/840/E27	71299	470	4000	82	10,000	111	45	A	9	10
9	220-240	E27	FLE9TBX/T3/865/E27	71300	450	6500	82	10,000	111	45	A	9	10
9	220-240	E14	FLE9TBX/T3/865/E14	71382	450	6500	82	10,000	120	45	A	9	10
11	220-240	E27	FLE11TBX/T3/827/E27	71117	590	2700	82	10,000	123	45	A	11	8
11	220-240	B22	FLE11TBX/T3/827/B22	71118	590	2700	82	10,000	122	45	A	11	8
11	220-240	E14	FLE11TBX/T3/827/E14	71296	590	2700	82	10,000	132	45	A	11	8
11	220-240	E27	FLE11TBX/T3/840/E27	71500	590	4000	82	10,000	123	45	A	11	10
11	220-240	E27	FLE11TBX/T3/865/E27	71125	560	6500	82	10,000	123	45	A	11	8
11	220-240	E14	FLE11TBX/T3/865/E14	71501	560	6500	82	10,000	132	45	A	11	10
11	220-240	E14	FLE11TBX/T3/827/E14	89864	590	2700	82	10,000	132	45	A	11	10
15	220-240	E27	FLE15TBX/T3/827/E27	89863	850	2700	82	10,000	134	45	A	14	10
15	220-240	E27	FLE15TBX/T3/827/E27	71116	850	2700	82	10,000	134	45	A	14	8
15	220-240	E27	FLE15TBX/T3/840/E27	72375	850	4000	82	10,000	134	45	A	14	10
15	220-240	E27	FLE15TBX/T3/865/E27	72376	810	6500	82	10,000	134	45	A	15	10
20	220-240	E27	FLE20TBX/T3/827/E27	72379	1185	2700	82	10,000	146	45	A	18	8
20	220-240	B22	FLE20TBX/T3/827/B22	72380	1185	2700	82	10,000	145	45	A	18	8
20	220-240	E27	FLE20TBX/T3/840/E27	72381	1155	4000	82	10,000	146	45	A	18	10
20	220-240	E27	FLE20TBX/T3/865/E27	72382	1155	6500	82	10,000	146	45	A	18	10
23	220-240	B22	FLE23QBX/T3/827/B22	71119	1400	2700	82	10,000	152	51	A	22	8
23	220-240	E27	FLE23QBX/T3/827/E27	71124	1400	2700	82	10,000	153	51	A	22	8
23	220-240	E27	FLE23QBX/T3/840/E27	72383	1400	4000	82	10,000	153	51	A	22	8

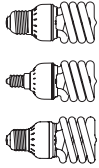


### Stick T3 Mini Economy - 6,000-7,000 hours

9	220-240	B22	FLE9DBX/T3/827/B22	72384	435	2700	82	7,000	123	40	A	9	8
9	220-240	E14	FLE9DBX/T3/827/E14	72386	435	2700	82	7,000	123	40	A	9	8
11	220-240	E27	FLE11DBX/T3/827/E27	75474	600	2700	82	7,000	142	45	A	10	10
11	220-240	E27	FLE11DBX/T3/827/E27	61502	600	2700	80	6,000	142	44,5	A	N/A	10
11	220-240	B22	FLE11DBX/T3/827/B22	75477	600	2700	82	7,000	141	45	A	10	8
11	220-240	E27	FLE11DBX/T3/827/E27	75663	600	2700	82	7,000	142	45	A	10	8
11	220-240	E27	FLE11DBX/T3/827/E27	14101	600	2700	82	7,000	142	45	A	10	18
15	220-240	E27	FLE15TBX/T3/827/E27	71108	820	2700	82	7,000	136	45	A	14	10
20	220-240	E27	FLE20TBX/T3/827/E27	34133	1152	2700	82	7,000	154	45	A	19	18
20	220-240	E27	FLE20TBX/T3/827/E27	71115	1152	2700	82	7,000	154	45	A	19	10
20	220-240	B22	FLE20TBX/T3/827/B22	72385	1152	2700	82	7,000	153	45	A	19	8



# Compact Fluorescent Lamps Integrated



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Length (mm)	Diameter (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>LongLast™ Spiral T2 – 15,000 hours</b>													
8	220-240	E27	FLE8HLX/T2/827/E27	71126	470	2700	82	15,000	88	45	A	8	8
12	220-240	E27	FLE12HLX/T2/827/E27	98887	715	2700	80	15,000	98	52	A	N/A	6
13	220-240	B22	FLE13HLX/T2/827/B22	75801	750	2700	82	15,000	97.5	45	A	13	6
13	220-240	E27	FLE13HLX/T2/827/E27	75800	750	2700	82	15,000	98.5	45	A	13	6
15	220-240	E27	FLE15HLX/T2/827/E27	72390	950	2700	82	15,000	101.5	52	A	15	6
15	220-240	E27	FLE15HLX/T2/827/E27	98888	950	2700	80	15,000	98	52	A	N/A	6
15	220-240	E27	FLE15HLX/T2/840/E27	71127	950	4000	82	15,000	101.5	52	A	15	6
15	220-240	E27	FLE15HLX/T2/865/E27	93010294	900	6500	82	15,000	101.5	52	A	15	6
20	220-240	E27	FLE20HLX/T2/827/E27	72391	1250	2700	82	15,000	110	56	A	20	6
20	220-240	E27	FLE20HLX/T2/827/E27	98889	1220	2700	80	15,000	118	56	A	N/A	6
23	220-240	E27	FLE23HLX/T2/827/E27	72392	1500	2700	82	15,000	117	56	A	22	6

## Spiral T2 – 8,000-10,000 hours



8	220-240	E14	FLE8HLX/T2/827/E14	85637	470	2700	82	8,000	93	46	A	8	8
8	220-240	E27	FLE8HLX/T2/827/E27	85638	470	2700	82	8,000	90	46	A	8	10
8	220-240	E14	FLE8HLX/T2/865/E14	85633	430	6500	82	8,000	93	46	A	8	8
8	220-240	E27	FLE8HLX/T2/865/E27	85634	430	6500	82	8,000	90	46	A	8	8
12	220-240	E14	FLE12HLX/T2/827/E14	85639	715	2700	82	10,000	102	46	A	11	6
12	220-240	E27	FLE12HLX/T2/827/E27	85640	715	2700	82	10,000	100	46	A	11	6
12	220-240	B22	FLE12HLX/T2/827/B22	85641	715	2700	82	10,000	99	46	A	11	6
12	220-240	E27	FLE12HLX/T2/865/E27	85635	665	6500	82	10,000	100	46	A	11	10
12	220-240	E27	FLE12HLX/T2/840/E27	84058	700	4000	82	10,000	100	46	A	12	10
12	220-240	E14	FLE12HLX/T2/827/E14	89865	715	2700	82	10,000	102	46	A	11	10
12	220-240	E14	FLE12HLX/T2/865/E14	93010291	665	6500	82	10,000	102	46	A	12	10
15	220-240	E27	FLE15HLX/T2/865/E27	85636	900	6500	82	10,000	107	50	A	15	10
15	220-240	E27	FLE15HLX/T2/827/E27	85642	950	2700	82	10,000	107	50	A	15	10
15	220-240	B22	FLE15HLX/T2/827/B22	85643	950	2700	82	10,000	106	50	A	15	6
15	220-240	B22	FLE15HLX/T2/827/B22	89867	950	2700	82	10,000	106	50	A	15	10
15	220-240	E27	FLE15HLX/T2/827/E27	34175	950	2700	82	10,000	107	50	A	15	18
15	220-240	E27	FLE15HLX/T2/840/E27	84063	950	4000	82	10,000	107	50	A	15	10
15	220-240	E27	FLE15HLX/T2/827/E27	89866	950	2700	82	10,000	107	50	A	15	10
15	220-240	E27	FLE15HLX/T2/827/E27	93010343	950	2700	82	10,000	107	50	A	15	60
15	220-240	E27	FLE15HLX/T2/865/E27	93010772	900	6500	82	10,000	107	50	A	15	60
20	220-240	E27	FLE20HLX/T2/827/E27	85644	1220	2700	82	10,000	108	55	A	19	6
20	220-240	B22	FLE20HLX/T2/827/B22	85645	1220	2700	82	10,000	107	55	A	19	10
20	220-240	E27	FLE20HLX/T2/840/E27	85646	1200	4000	82	10,000	108	55	A	19	6
20	220-240	E27	FLE20HLX/T2/865/E27	85647	1200	6500	82	10,000	108	55	A	19	6
20	220-240	E27	FLE20HLX/T2/827/E27	89868	1220	2700	82	10,000	108	55	A	19	10
23	220-240	E27	FLE23HLX/T2/827/E27	85648	1450	2700	82	10,000	115	60	A	22	10
23	220-240	B22	FLE23HLX/T2/827/B22	85649	1450	2700	82	10,000	114	60	A	22	10
23	220-240	E27	FLE23HLX/T2/840/E27	85650	1380	4000	82	10,000	115	60	A	22	6
23	220-240	E27	FLE23HLX/T2/865/E27	85651	1380	6500	82	10,000	115	60	A	23	6



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Cons. [kWh]	Pack Qty
<b>Spiral T3 – 8,000-10,000 hours</b>													
11	220-240	E27	FLE11HLX/T3/827/E27	89746	580	2700	82	8,000	112	42	A	10.31	10
11	220-240	E27	FLE11HLX/T3/865/E27	89740	560	6500	82	8,000	112	42	A	10.71	10
20	220-240	E27	FLE20HLX/T3/827/E27	89748	1200	2700	82	8,000	124	59	A	19.50	10
20	220-240	E27	FLE20HLX/T3/865/E27	89739	1152	6500	82	8,000	124	59	A	19.10	10
20	220-240	E27	FLE20HLX/T3/840/E27	93010063	1200	4000	82	10,000	127	59	A	20	10
20	220-240	E27	FLE20HLX/T3/827/E27	93010066	1200	2700	82	10,000	127	59	A	20	10
20	220-240	E27	FLE20HLX/T3/865/E27	93010074	1152	6500	82	10,000	127	59	A	20	10
23	220-240	E27	FLE23HLX/T3/827/E27	93010064	1450	2700	82	10,000	134	59	A	23	10
23	220-240	E27	FLE23HLX/T3/840/E27	93010065	1380	4000	82	10,000	134	59	A	23	10
23	220-240	E27	FLE23HLX/T3/865/E27	93010073	1380	6500	82	10,000	134	59	A	23	10
24	220-240	E27	FLE24HLX/T3/827/E27	89743	1700	2700	82	8,000	135	59	A	24.67	10
24	220-240	E27	FLE24HLX/T3/865/E27	89745	1650	6500	82	8,000	135	59	A	24.86	10

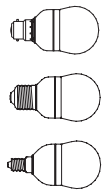


Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Cons. [kWh]	Pack Qty
<b>Spiral T4 High Power Factor (HPF) – 10,000 hours</b>													
32	220-240	E27	FLE32HLX/T4/827E27/HPF	93010562	2100	2700	82	10,000	171	66	A	32	6



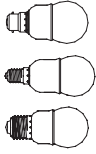
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Cons. [kWh]	Pack Qty
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<b>GLS T2/T3 – 6,000 hours</b>													
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Cons. [kWh]	Pack Qty
8	220-240	E14	FLE8GLS/T2/827/E14	88178	370	2700	80	6,000	103,5	52,5	A	N/A	
8	220-240	E27	FLE8GLS/T2/827/E27	88180	370	2700	80	6,000	100	52,5	A	N/A	
12	220-240	E14	FLE12GLS/T2/827/E14	88177	625	2700	80	6,000	113,5	56	A	N/A	
12	220-240	E27	FLE12GLS/T2/827/E27	88209	625	2700	80	6,000	110	56	A	N/A	
15	220-240	E27	FLE15GLS/T3/827/E27	88176	830	2700	80	6,000	121	61	A	N/A	
15	220-240	B22	FLE15GLS/T3/827/B22	88175	830	2700	80	6,000	120	61	A	N/A	



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Cons. [kWh]	Pack Qty
<b>GLS T2/T3 – 8,000 hours</b>													
8	220-240	E14	FLE8GLS/T2/827/E14	33773	370	2700	82	8,000	100,5	51,5	A	8	8
8	220-240	E27	FLE8GLS/T2/827/E27	33777	370	2700	82	8,000	97	51,5	A	8	8
12	220-240	E14	FLE12GLS/T2/827/E14	33925	625	2700	82	8,000	110,5	55	A	12	6
12	220-240	E27	FLE12GLS/T2/827/E27	33927	625	2700	82	8,000	107	55	A	12	6
12	220-240	B22	FLE12GLS/T2/827/B22	33926	625	2700	82	8,000	106	55	A	12	6
12	220-240	E27	FLE12GLS/T2/827/E27	33906	625	2700	82	8,000	107	55	A	12	10
15	220-240	E27	FLE15GLS/T3/827/E27	33768	830	2700	82	8,000	118	60	A	15	10
15	220-240	E27	FLE15GLS/T3/827/E27	33772	830	2700	82	8,000	118	60	A	15	6
15	220-240	B22	FLE15GLS/T3/827/B22	33769	830	2700	82	8,000	117	60	A	15	6
20	220-240	E27	FLE20GLS/T3/827/E27	73273	1160	2700	82	8,000	145	65	A	19	6

# Compact Fluorescent Lamps Integrated

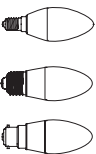


Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Length (mm)	Diameter (mm)	EEC	Pack Qty
<b>Spherical T2 – 6,000 hours</b>												
5	220-240	B22	FLE5SPH/T2/827/B22	88841	200	2700	80	6,000	88	45	A	8
7	220-240	E14	FLE7SPH/T2/827/E14	88842	310	2700	80	6,000	100	45	A	8
7	220-240	B22	FLE7SPH/T2/827/B22	88844	310	2700	80	6,000	88	45	A	8
7	220-240	E27	FLE7SPH/T2/827/E27	75313	310	2700	80	6,000	89	45	A	8

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Length (mm)	Diameter (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Spherical T2 – 8,000 hours</b>													
5	220-240	E14	FLE5SPH/T2/827/E14	33789	220	2700	82	8,000	96	45	A	5	8
5	220-240	B22	FLE5SPH/T2/827/B22	33790	220	2700	82	8,000	92	45	A	5	8
7	220-240	E14	FLE7SPH/T2/827/E14	33928	320	2700	82	8,000	96	45	A	7	8
7	220-240	B22	FLE7SPH/T2/827/B22	33932	320	2700	82	8,000	92	45	A	7	8
7	220-240	E27	FLE7SPH/T2/827/E27	33922	320	2700	82	8,000	93	45	A	7	8
7	220-240	E14	FLE7SPH/T2/827/E14	33909	320	2700	82	8,000	96	45	A	7	10

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Length (mm)	Diameter (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Candle T2/T3 – 6,000 hours</b>													
7	220-240	E14	FLE7CDL/T2/827/E14	75677	300	2700	80	6 000	108	37	A	N/A	8
7	220-240	B22	FLE7CDL/T2/827/B22	88856	300	2700	80	6 000	104	37	A	N/A	10
7	220-240	E14	FLE7CDL/T2/840/E14	73451	300	4000	80	6 000	108	37	A	N/A	10
11	220-240	E14	FLE11CDL/T3/827/E14	76198	580	2700	80	6 000	141	50	A	N/A	6

Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	CRI (Ra)	Rated life (h)	Length (mm)	Diameter (mm)	EEC	Energy Cons. (kWh)	Pack Qty
<b>Candle T2/T3 – 8,000 hours</b>													
7	220-240	E14	FLE7CDL/T2/827/E14	33924	320	2700	82	8 000	105	37	A	7	8
7	220-240	E27	FLE7CDL/T2/827/E27	33919	320	2700	82	8 000	103	37	A	7	8
7	220-240	B22	FLE7CDL/T2/827/B22	33941	320	2700	82	8 000	102	37	A	7	10
7	220-240	E14	FLE7CDL/T2/840/E14	33911	320	4000	82	8 000	105	37	A	7	10
7	220-240	E14	FLE7CDL/T2/827/E14	33939	320	2700	82	8 000	105	37	A	7	10
9	220-240	E14	FLE9CDL/T2/827/E14	34177	405	2700	82	8 000	113	37	A	9	18
9	220-240	E14	FLE9CDL/T2/827/E14	33757	405	2700	82	8 000	113	37	A	9	8
9	220-240	E14	FLE9CDL/T2/827/E14	63623	405	2700	82	8 000	113	37	A	N/A	8
9	220-240	E27	FLE9CDL/T2/827/E27	33763	405	2700	82	8 000	110,5	37	A	9	8
9	220-240	E27	FLE9CDL/T2/827/E27	63624	405	2700	82	8 000	110,5	37	A	N/A	8
9	220-240	B15	FLE9CDL/T2/827/B15	33767	405	2700	82	8 000	111,5	37	A	9	8
9	220-240	B22	FLE9CDL/T2/827/B22	33765	405	2700	82	8 000	109,5	37	A	9	8
11	220-240	E14	FLE11CDL/T2/827/E14	33749	560	2700	82	8 000	126	39,5	A	11	6



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	CCT [K]	Lumen [lm]	Candela [Cd]	Beam Angle [°]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Consumption [kWh]	Pack Qty
<b>Reflector Genura R80 - 15,000 hours</b>															
23	220-240	E27	EFL23W/827/R80/E27	82174	2700	580	270	100	80	15,000	130	83	B	22.50	6
23	220-240	E27	EFL23W/830/R80/E27	92246	3000	580	270	100	80	15,000	130	83	B	22.50	6



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Rated life [h]	Length [mm]	Diameter [mm]	EEC	Energy Consumption [kWh]	Pack Qty
<b>Globe T3 - 8,000 hours</b>													
20	220-240	E27	FLE20GG/827/E27	73274	1160	2700	82	8 000	145	89	A	19	6
20	220-240	E27	FLE20GG/827/E27	96780	1152	2700	80	8 000	145	89	A	N/A	6
23	220-240	E27	FLE23GG/827/E27	73413	1371	2700	82	8 000	150	100	A	21	6
23	220-240	E27	FLE23GG/827/E27	96793	1371	2700	82	8 000	150	100	A	N/A	6





# Halogen Lamps



# Halogen Lamps

## Instant powerful bright light. Invented in 1958 by GE.

Up to 30% energy savings compared to conventional lamps

Instant re-start full light output immediately

Crisp white light, CCT up to 3000K

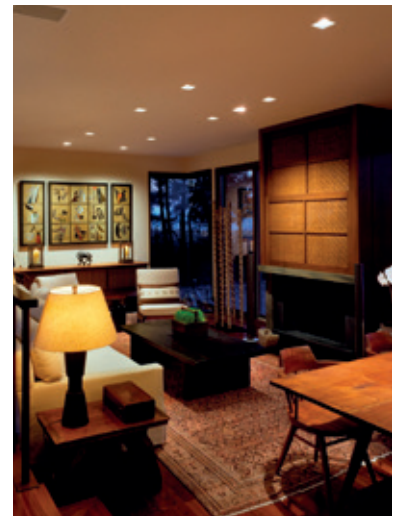
100% dimmable for additional cost savings

Remarkable colour rendering, close to natural light (100% CRI)

0% mercury and lead Environmentally friendly technology

Halogen lights are the ideal replacement for inefficient incandescent lamps, as their way of operation is exactly the same but they have a smaller physical size.

GE halogen lighting is perfect for accent, display and general lighting in a wide variety of commercial, industrial and residential uses.



Home



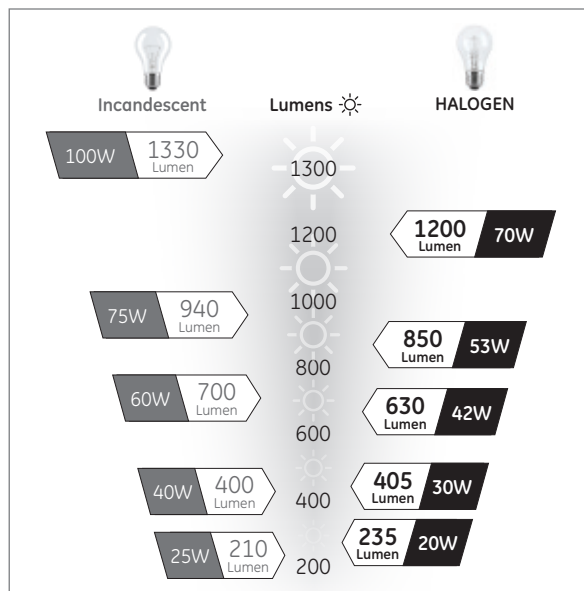
Hospitality

# Switching from Watts to Lumens

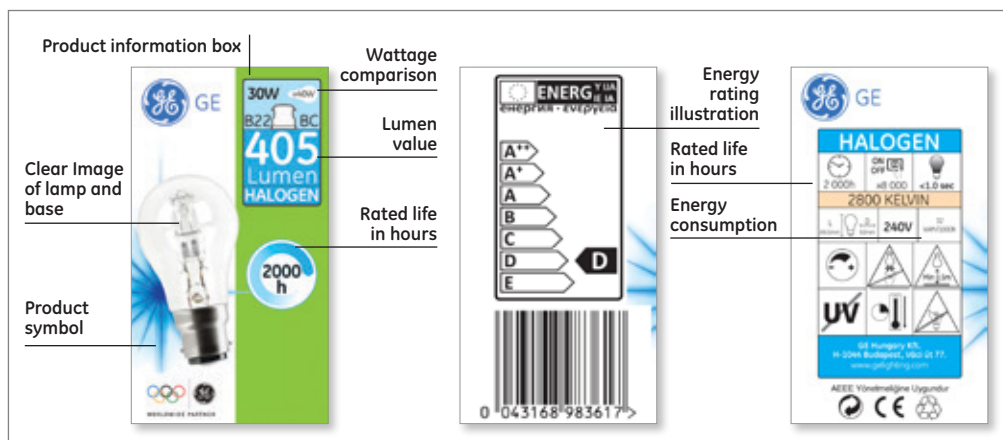
Traditional light bulbs are being phased out and modern light technologies use different amounts of power to achieve the same amount of light. Instead of referring to watts anymore, we now need to measure and compare light in terms of lumens.

GE's halogen lamps look just the same as traditional bulbs, with the same bright quality light, but cut down on energy consumption by up to 30%.

Available in standard candle, spherical and reflector shapes, our lamps create a stunning light, and can also be used with dimming switches for a cosier atmosphere.



## Quick guide to GE Lighting packaging



# Halogen Lamps

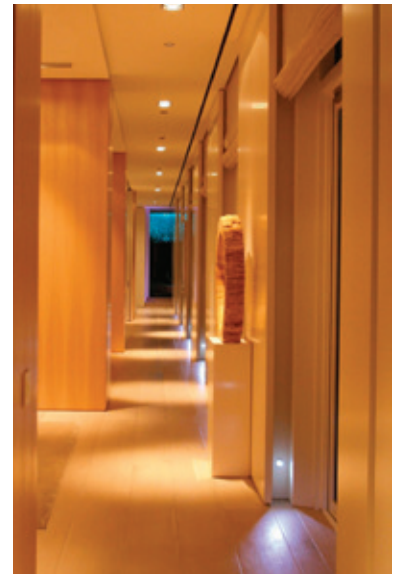
## Precise™ ConstantColor™ MR16 IR *Energy efficient low voltage halogen reflector lamps with dichroic mirror*

GE's halogen IR (infrared) range of low voltage reflector lamps provide up to 43% energy savings over conventional MR16 lamps and – with the addition of the patented GE reflector coating technology – unparalleled colour rendering throughout life.

Incandescent and halogen lamps lose approximately 76% of the input energy by radiating heat, and convert only 8% into useful light. The Precise™ IR halogen capsule has multiple layers of very durable, thin, interference film which redirects heat back onto the lamp filament. This allows it to give off more visible light for the same input power.



- Up to 43% energy savings compared to standard products
- very good white light and cool beam characteristics
- Long 5000 hour life, 2.5x longer than standard MR16's
- UV control reduces fading and discolouration





# Decor HaloGLS

## *Familiar shape and light*

GE's retrofit halogen lamp range is a direct replacement for regular incandescent lamps offering a crisp white light.



- EEH lamps are 100% retrofit
- Last twice as long as incandescent lamps
- Can be used with dimming switches
- Instant-on, full light output at start-up
- Environmentally friendly with no lead and mercury



# Halogen Lamps

## Low Voltage Reflectors



**MR11**  
 Cap: GU4  
 Wattages: 12-35W  
 Volts: 12  
 Rated life: 2,000 - 3,500Hrs



**Precise™  
 ConstantColor™  
 MR16 IR**  
 Cap: GU5.3  
 Wattages: 20-45W  
 Volts: 12  
 Rated life: 5,000Hrs



**Precise™ MR16 IR**  
 Cap: GU5.3  
 Wattages: 20-35W  
 Volts: 12  
 Rated life: 5,000Hrs



**Precise™  
 ConstantColor™  
 MR16**  
 Cap: GU5.3  
 Wattages: 20-71W  
 Volts: 12  
 Rated life: 4,000-6,000Hrs



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



**MR16 Start**  
 Cap: GU5.3  
 Wattages: 20-50W  
 Volts: 12  
 Rated life: 2,000Hrs



**AR111 Aluminium  
 Reflector**  
 Cap: G53  
 Wattages: 35-75W  
 Volts: 12  
 Rated life: 2,000-3,000Hrs

## Mains Voltage Reflectors



**MR16 Mains  
 Alutech™**  
 Cap: GU10  
 Wattages: 20-50W  
 Volts: 230-240  
 Rated life: 2,000Hrs



**MR16 Mains  
 Alutech™ -  
 Coloured**  
 Cap: GU10  
 Wattages: 50W  
 Volts: 240  
 Rated life: 1,500Hrs



**PAR Reflector 16,  
 20, 25, 30**  
 Cap: E27  
 Wattages: 50-100W  
 Volts: 230, 240  
 Rated life: 2,000-3,000Hrs

## Capsules



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



**Low voltage  
 capsule - Trans-  
 versal Filament**  
 Cap: G4 or GY6.35  
 Wattages: 5-100W  
 Volts: 6, 12, 24  
 Rated life: 100-4,000Hrs



**Low voltage  
 capsule - Axial  
 Filament**  
 Cap: G4 or GY6.35  
 Wattages: 10-100W  
 Volts: 6, 12  
 Rated life: 2,000-4000Hrs

# Selector

## Linear



### Linear 117 mm

Cap: R7s  
Wattages: 130-330W  
Volts: 230, 240  
Rated life: 2,000Hrs



### Linear 78 mm

Cap: R7s  
Wattages: 100W  
Rated life: 2,000Hrs



### Linear - High Watt

Cap: R7s  
Wattages: 1000-2000W  
Rated life: 2,000Hrs

## Decor



### GLS

Cap: E27, B22  
Wattages: 20-100W  
Volts: 230, 240  
Rated life: 2,000Hrs



### Candle

Cap: E14, E27, B15, B22  
Wattages: 20-42W  
Volts: 230, 240  
Rated life: 2,000Hrs



### Spherical

Cap: E14, B15, E27, B22  
Wattages: 20-42W  
Volts: 230, 240  
Rated life: 2,000Hrs



### Reflector

Cap: E14, E27  
Wattages: 28-70W  
Rated life: 2,000Hrs

## Tubular



### Tubular T38

Cap: E40  
Wattage: 1000  
Volts: 230, 240  
Rated life: 2,000

# Halogen Lamps

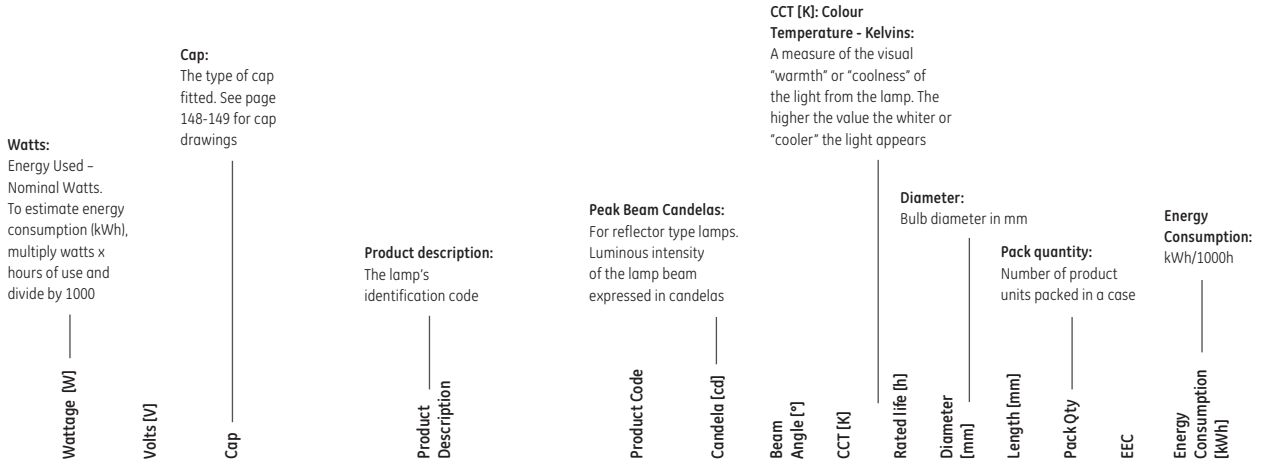
## Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Rated Life is stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

Additional parameters:

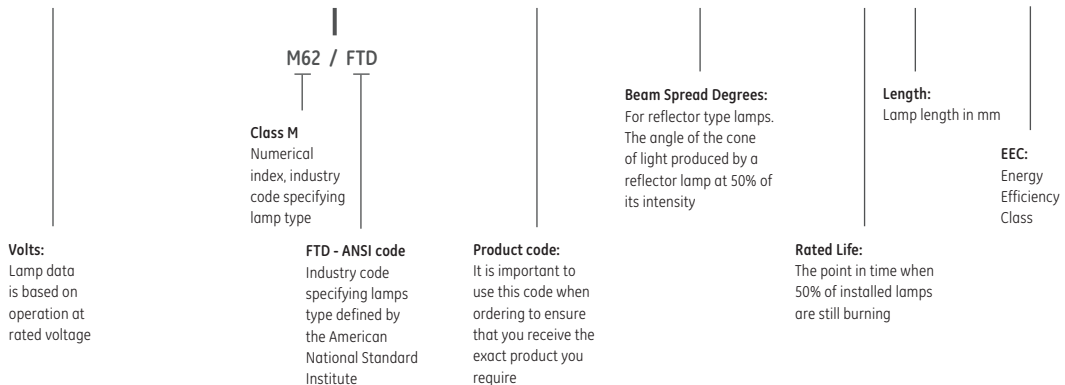
**Lumens:** Light output

**Open/Closed:** Open/closed design



### Precise™ MR11 - Open

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle (°)	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
12	12	GU4	M264/FTA/CG	19639	3960	8	2900	2,000	35.3	45	10	B	13,28
20	12	GU4	M251/FTC/CG	19636	1800	17	2900	3,500	35.3	45	10	C	20,96
20	12	GU4	M251/FTC/CG	93010671	840	20	2800	4,000	35.3	40	10	C	21,35



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]	Open/Closed
12	12	GU4	M264/FTA/CG	19639	120	3960	8	2900	2 000	35,3	45	10	B	13,28	closed
20	12	GU4	M251/FTC/CG	93010671	205	840	20	2 800	4 000	35,3	40	10	C	21,35	closed
20	12	GU4	M262/FTD/CG	93010622	170	490	26	2 800	4 000	35,3	40	10	B	21,56	closed
20	12	GU4	FTD/M262/CG	17200	205	490	26	2900	2 000	35,3	40	10	C	21,12	closed
35	12	GU4	M266/FTF/CG	19627	430	2070	21	2900	3 500	35,3	45	10	C	38,34	closed
35	12	GU4	M266/FTF/CG	93010615	430	2070	20	2 900	4 000	35,3	40	10	B	38,05	closed
35	12	GU4	M199/FTH	19634	430	1300	26	2900	3 500	35,3	40	10	C	38,34	open
35	12	GU4	FTF/M199/CG	17201	315	1150	26	2900	2 000	35,3	40	10	D	37,08	closed



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
20	12	GU5.3	Q20MR16HIR/CCG36 CE	99638	300	1000	36	2900	5 000	50	46	10	B	22,84
35	12	GU5.3	Q35MR16HIR/CCG10CE	99639	520	12000	10	2950	5 000	50	46	10	B	39,01
35	12	GU5.3	Q35MR16HIR/CCG36 CE	99640	560	2000	36	2950	5 000	50	46	10	B	39,02
45	12	GU5.3	Q45MR16HIR/CCG36 CE	99641	860	2300	36	3000	5 000	50	46	10	B	50,26



### Precise™ MR16 IR

20	12	GU5.3	MR16 IR 20W 12V FL	77657	270	1000	36	2900	5 000	50	50,5	10	B	22,47
35	12	GU5.3	MR16 IR 35W 12V FL	77658	560	2000	36	2950	5 000	50	50,5	10	B	38,27



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]	Open/Closed
20	12	GU5.3	BAB/CG 12V CE	99630	220	475	40	2900	5000	50	46	10	B	20,30	closed
35	12	GU5.3	FMW/CG 12V CE	99631	450	1000	40	3000	5000	50	46	10	B	38,10	closed
50	12	GU5.3	FNV/CG 12V CE	99632	720	850	55	3050	6000	50	46	10	B	54,41	closed
50	12	GU5.3	EXN/CG 12V CE	99633	760	1500	40	3050	6000	50	46	10	B	54,24	closed
50	12	GU5.3	EXZ/CG 12V CE	99634	720	2900	25	3050	6000	50	46	10	B	54,29	closed
50	12	GU5.3	EXT/CG 12V CE	99635	680	8400	14	3050	6000	50	46	10	C	54,26	closed
71	12	GU5.3	EYC/CG 12V CE	99636	1050	2000	42	3050	4000	50	46	10	C	76,82	closed
71	12	GU5.3	EYJ/CG 12V CE	99637	1050	4550	25	3050	4000	50	46	10	C	76,57	closed



# Halogen Lamps

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]	Open/Closed
<b>Precise™ Bright 5000 MR16</b>															
20	12	GU5.3	M69/BAB	88231	210	480	36	2900	5,000	50.7	46	10	B	20,83	open
20	12	GU5.3	M269/BAB/CG	88235	205	450	36	2900	5,000	50.7	50.5	10	C	20,83	closed
35	12	GU5.3	M81/FMW	88229	450	1390	36	2900	5,000	50.7	46	10	B	37,26	open
50	12	GU5.3	M58/EXN	88234	720	2250	36	2900	5,000	50.7	46	10	B	53,83	open
50	12	GU5.3	M250/EXZ/CG	88237	675	4750	18	2900	5,000	50.7	50.5	10	C	53,83	closed
50	12	GU5.3	M258/EXN/CG	88239	680	2100	36	2900	5,000	50.7	50.5	10	C	53,83	closed
50	12	GU5.3	M280/FNV/CG	88238	750	950	60	2900	5,000	50.7	50.5	10	B	53,83	closed
50	12	GU5.3	M80/FNV	88232	770	1070	60	2900	5,000	50.7	46	10	B	53,83	open

## MR16 Start

20	12	GU5.3	M268/ESX/CG/EC	38012	210	3150	12	2900	2,000	50	46	20	B	21,43	closed
20	12	GU5.3	M269/BAB/CG/EC	38006	205	450	36	2900	2,000	50	46	20	B	21,08	closed
20	12	GU5.3	M69/BAB/EC	38000	225	500	36	2800	2,000	50	46	20	B	21,10	N/A
35	12	GU5.3	M81/FMW/EC	38001	430	925	36	2900	2,000	50	46	20	C	37,17	open
35	12	GU5.3	M281/FMW/CG/EC	38007	430	830	36	2900	2,000	50	46	20	C	37,09	closed
50	12	GU5.3	M249/EXT/CG/EC	38014	675	8550	12	2900	2,000	50	46	20	C	55,66	closed
50	12	GU5.3	M250/EXZ/CG/EC	39611	680	2700	24	2900	2,000	50	46	20	C	54,30	closed
50	12	GU5.3	M258/EXN/CG/EC	38011	680	1350	36	2900	2,000	50	46	20	C	53,78	closed
50	12	GU5.3	M58/EXN/EC	38002	680	1500	36	2900	2,000	50	46	20	C	53,69	open
50	12	GU5.3	M280/FNV/CG/EC	39236	680	630	55	2900	2,000	50	46	20	C	51,91	closed
50	12	GU5.3	M258/EXN/CG	40039	680	N/A	36	2900	2,000	50	46	96	C	53,78	N/A
50	12	GU5.3	M258/EXN/EC	97962	680	N/A	36	N/A	2,000	50	46	10	C	53,78	N/A

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]	
<b>AR111 - Aluminium Reflector</b>															
35	12	G53	AR111 35W12V FL	10775	290	2500	24	2900	2,000	111	67	10	D	36,90	
50	12	G53	AR111 50W12V FL	10767	510	3500	24	2900	3,000	111	67	10	D	52,31	
50	12	GU5.3	M258/EXN/CG/AL	88215	680	1800	36	2900	2,000	50	46	10	C	55,19	

## MR16 Mains Alutech™

20	230	GU10	Q20MR16/230/FL	10898	90	200	36	2700	2,000	51	55	10	D	20,55
35	230	GU10	Q35MR16/230/FL	10896	200	400	36	2700	2,000	51	55	10	D	35,56
50	230	GU10	Q50MR16/230/FL	92729	340	600	36	2700	2,000	51	55	10	D	50,71
50	120	GU10	Q50MR16/CD/120/FL	67679	320	N/A	36	2800	2,000	50	55	5	D	53,00
20	240	GU10	Q20MR16/240/FL	10859	90	200	36	2700	2,000	51	55	10	D	20,80
35	240	GU10	Q35MR16/240/FL	10857	200	400	36	2700	2,000	51	55	10	D	36,30
50	240	GU10	Q50MR16/240/FL	92730	340	600	36	2700	2,000	51	55	10	D	51,20

\*Can't be sold in EU, Turkey and EFTA.

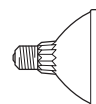
Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	EEC	Energy Consumption [kWh]	Pack Qty
Red	50	240	GU10	Q50MR16/240/FL	12988	N/A	600	36	2700	1,500	51	55	D	51,2	10
Blue	50	240	GU10	Q50MR16/240/FL	12995	N/A	600	36	2700	1,500	51	55	D	51,2	10
Yellow	50	240	GU10	Q50MR16/240/FL	13003	N/A	600	36	2700	1,500	51	55	D	51,2	10

### MR16 Mains Alutech™ – coloured



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
50	230	E27	50PAR20/230/FL	40362	350	1000	25	2800	2,000	64.5	91	15	D	50,10
50	240	E27	50PAR20/240/FL	40365	350	1000	25	2800	2,000	64.5	91	15	D	50,30
75	240	E27	75PAR25/240/FL	92165	670	1300	25	2800	3,000	81	108	15	D	76,00
75	230	E27	75PAR30/230/FL	40349	650	2000	30	2800	2,000	97	90.5	15	D	74,30
75	240	E27	75PAR30/240/SP	40367	650	6200	10	2800	2,000	97	90.5	15	D	75,48
75	240	E27	75PAR30/240/FL	40361	650	2000	30	2800	2,000	97	90.5	15	D	75,20
100	230	E27	100PAR30/230/FL	32484	980	3100	30	2800	3,000	97	90.5	15	D	101,80
100	240	E27	100PAR30/240/FL	32482	980	3100	30	2800	3,000	97	90.5	15	D	100,70

### PAR Reflector






Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
20	230	G9	SHORTG9 20W CL 230V	98415	235	2800	1,000	13	43	10	D	21,36
20	240	G9	SHORTG9 20W CL 240V	98441	235	2800	1,000	13	43	10	D	21,14
33	240	G9	SHORTG9 33W CL 240V	97278	460	2800	2,000	13	43	10	D	34,00
33	230	G9	SHORTG9 33W CL 230V	97279	460	2800	2,000	13	43	10	D	33,94
42	230	G9	SHORTG9 42W CL 230V	64126	630	2800	2,000	13	43	10	D	42,93



### Mains voltage capsule G9





# Halogen Lamps

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]	
<b>Low voltage capsule - Transversal Filament</b>													
	10	6	G4	M29/Q10 G4**	34720	180	2800	100	9	33	20	B	11,15
	10	6	G4	M29/Q10 G4**	93010694	180	3000	100	8	33	20	B	11,15
	20	6	G4	M30/ESB/Q20 G4**	34718	450	2900	100	9	33	20	B	22,57
	20	6	G4	M34/FHE/Q20 G4	34719	350	2900	2 000	9	33	20	C	22,71
	5	12	G4	M9/H5 G4	42959	60	2800	2 000	9	33	20	B	5,37
	10	12	G4	M11/H10 G4	34674	140	2800	2 000	9	33	20	C	10,77
	20	12	G4	M35/Q20 G4	93010624	400	3200	250	9	33	20	B	20,82
	20	12	G4	M47/Q20 G4	34715 / 93010692	380	2900	2 000	9	33	100	C	22,61
	35	12	GY6.35	M95/Q35/GY6.35	34708	550	2900	3 000	11	44	100	C	38,10
	50	12	GY6.35	M32/Q50 GY6.35	34702	930	2900	4 000	11	44	100	C	55,84
	75	12	GY6.35	M313/Q75/GY6.35	34682	1350	2900	2 000	11	44	20	D	85,59
	100	12	GY6.35	M28/Q100 GY6.35	34676	2200	2900	3 000	11	44	100	C	110,40
	100	24	GY6.35	M67/Q100 GY6.35 24V	34663	2000	2900	2 000	11	44	100	D	104,66

## Low voltage capsule - Axial Filament

	10	12	G4	Q10T2,5/12V G4	93010695	120	2800	2 000	9	33	20	B	22,57
	20	12	GY6.35	M76/Q20/GY6.35	34712	300	2900	3 000	11	44	100	C	22,71
	20	12	G4	Q20T2,5/12V G4	35710 / 93010683	320	2900	2 000	9	33	20	B	5,37
	20	12	GY6.35	Q20T3/12V GY6.35	35696	300	2900	2 000	11	44	20	C	10,77
	35	12	GY6.35	M75/Q35/GY6.35	34710	600	2900	4 000	11	44	100	B	22,06
	35	12	GY6.35	Q35T3/12V GY6.35	35699	600	2900	2 000	11	44	20	C	22,61
	50	12	GY6.35	M74/Q50/GY6.35	34703	900	2900	4 000	11	44	100	C	38,10
	50	12	GY6.35	Q50T3/12V GY6.35	35700	900	2900	2 000	11	44	20	C	55,84
	75	12	GY6.35	Q75T3/12V GY6.35	35701	1350	2900	2 000	11	44	20	D	85,59
	75	12	GY6.35	M73/Q75/GY6.35	34683	1350	2900	4 000	11	44	20	C	110,40
	100	12	GY6.35	M180/Q100/GY6.35	34664	2150	2900	4 000	11	44	20	D	104,66

\*\* Projector lamp

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]	
<b>Linear 78mm</b>													
	100	230	R7s	K12 C100W 230V R7S 78MM	63519	1800	2900	1 000	8	80,1	10	D	104,20
	100	240	R7s	K12 C100W 240V R7S 78MM	76530 / 63525	1800	2900	1 000	8	80,1	10	D	104,30
<b>Linear 117mm</b>													
	330	230	R7s	K1 C330W 230V R7S 117MM	64967	7000	3000	2,000	10	119	10	D	349,41
	200	230	R7s	K9 C200W 230V R7S 117MM	64968	4000	3000	2,000	8	119	10	D	210,60
	330	240	R7s	K1 C330W 240V R7S 117MM	64970	7000	3000	2,000	8	119	10	D	351,10
	200	240	R7s	K9 C200W 240V R7S 117MM	64971	4000	3000	2,000	8	119	10	D	212,67
	130	230	R7s	K11 C130W 230V R7S 117MM	64973	2440	2900	2,000	8,8	119	10	D	136,53
	130	240	R7s	K11 C130W 240V R7S 117MM	64974	2440	2900	2,000	8,8	119	10	D	137,93

\*Notice: Please note that the rated life of those lamps under this SKU number placed on the market on or before 31 August 2013 can be either 1,000 hours or 2,000 hours. The rated life of those lamps placed on the market on or after 1 September 2013 is exclusively 2,000 hours.





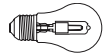
Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Rated life (h)	Diameter (mm)	Length (mm)	Pack Qty	EEC	Energy Consumption (kWh)
1000	230	R7s	K4 1000W 230V R7S 189MM BX	29180	21000	3 000	2 000	10	190,5	10	D	1008,0
1000	240	R7s	K4 1000W 240V R7S 189MM BX	29181	21000	3 000	2 000	10	190,5	10	D	1018,9
1000	230	R7s	K10 1000W 230V R7S 254MM BX	43711	21000	3 000	2 000	6	254	6	D	980,1
1000	240	R7s	K10 1000W 240V R7S 254MM BX	43712	21000	3 000	2 000	6	189	6	D	1050
1500	230	R7s	K5 1500W 230V R7S 254MM BX	29184	32000	3 000	2 000	10	255,5	10	D	1539,4
1500	240	R7s	K5 1500W 240V R7S 254MM BX	29187	32000	3 000	2 000	10	255,5	10	D	1504,1
2000	230	R7s	K8 2000W 230V R7S 331MM BX	30886	44000	3 000	2 000	10	332,2	10	D	1996,1

## GLS

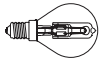
20	230	E27	20W HALO A CL E27 230V	98410	235	2800	2 000	50	89,5	10	D	21,46
30	240	B22	30W HALO A CL B22 240V	98361	405	2800	2 000	50	89,5	8	D	31,53
30	230	E27	30W HALO A CL E27 230V	98362	405	2800	2 000	50	89,5	10	D	31,70
30	240	E27	30W HALO A CL E27 240V	98406	405	2800	2 000	50	89,5	8	D	31,53
42	240	B22	42W HALO A CL B22 240V	62575	630	2800	2 000	50	89,5	8	D	43,65
42	230	E27	42W HALO A CL E27 230V	63613	630	2800	2 000	50	89,5	10	D	43,03
42	240	E27	42W HALO A CL E27 240V	79422	630	2800	2 000	50	89,5	8	D	43,65
42	230	B22	42W HALO A CL B22 230V	63615	630	2800	2 000	50	89,5	10	D	43,03
53	240	B22	53W HALO A CL B22 240V	64993	850	2900	2 000	50	89,5	8	D	56,35
53	230	E27	53W HALO A CL E27 230V	63959	850	2900	2 000	50	89,5	10	D	54,96
53	240	E27	53W HALO A CL E27 240V	63961	850	2900	2 000	50	89,5	8	D	56,35
70	240	B22	70W HALO A CL B22 240V	62576	1200	2900	2 000	50	89,5	8	D	73,33
70	230	E27	70W HALO A CL E27 230V	63612	1200	2900	2 000	50	89,5	10	D	72,45
70	240	E27	70W HALO A CL E27 240V	79423	1200	2900	2 000	50	89,5	8	D	73,33
70	230	B22	70W HALO A CL B22 230V	99934	1200	2800	2 000	50	89,5	10	D	72,45
100	230	E27	100W HALO A CL E27 230V	97246	1800	2900	2 000	50	89,5	10	D	102,56
100	240	E27	100W HALO A CL E27 240V	97243	1800	2900	2 000	50	89,5	8	D	102,08
100	240	B22	100W HALO A CL B22 240V	97244	1800	2900	2 000	50	89,5	8	D	102,08
100	230	E27	100W HALO A CL B22 230V	97247	1800	2800	2 000	50	89,5	10	D	102,56

## Candle

20	230	E14	20W HALO C CL E14 230V	98402	235	2900	2,000	36	100	10	D	21,46
30	230	E14	30W HALO C CL E14 230V	98398	405	2900	2,000	36	100	10	D	31,70
42	230	E14	42W HALO C CL E14 230V	76575	630	2900	2,000	36	100	10	D	43,03
30	230	E27	30W HALO C CL E27 230V	98396	405	2900	2,000	36	100	10	D	31,70
42	230	E27	42W HALO C CL E27 230V	76573	630	2900	2,000	36	100	10	D	43,03
20	240	E14	20W HALO C CL E14 240V	98399	235	2900	2,000	36	100	12	D	21,15
30	240	E14	30W HALO C CL E14 240V	98392	405	2900	2,000	36	100	12	D	31,53
42	240	E14	42W HALO C CL E14 240V	76569	630	2900	2,000	36	100	12	D	43,65
30	240	E27	30W HALO C CL E27 240V	98391	405	2900	2,000	36	100	12	D	31,53
42	240	E27	42W HALO C CL E27 240V	76568	630	2900	2,000	36	100	12	D	43,65
30	240	B15	30W HALO C CL B15 240V	98394	405	2900	2,000	36	100	12	D	31,53
42	240	B15	42W HALO C CL B15 240V	76571	630	2900	2,000	36	100	12	D	43,65
20	240	B22	20W HALO C CL B22 240V	98400	235	2900	2,000	36	100	12	D	21,15
30	240	B22	30W HALO C CL B22 240V	98393	405	2900	2,000	36	100	12	D	31,53
42	240	B22	42W HALO C CL B22 240V	76570	630	2900	2,000	36	100	12	D	43,65



# Halogen Lamps



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
20	230	E14	20W HALO S CL E14 230V	98390	235	2900	2,000	45	78	10	D	21,46
30	230	E14	30W HALO S CL E14 230V	98384	405	2900	2,000	45	78	10	D	31,70
42	230	E14	42W HALO S CL E14 230V	76553	630	2900	2,000	45	78	10	D	43,03
20	230	E27	20W HALO S CL E27 230V	98388	235	2900	2,000	45	78	10	D	21,46
30	230	E27	30W HALO S CL E27 230V	98382	405	2900	2,000	45	78	10	D	31,70
42	230	E27	42W HALO S CL E27 230V	76551	630	2900	2,000	45	78	10	D	43,03
20	240	E14	20W HALO S CL E14 240V	98385	235	2900	2,000	45	78	12	D	21,15
30	240	E14	30W HALO S CL E14 240V	98378	405	2900	2,000	45	78	12	D	31,53
42	240	E14	42W HALOS CL E14 240V	76548	630	2900	2,000	45	78	12	D	43,65
30	240	E27	30W HALO S CL E27 240V	98377	405	2900	2,000	45	78	12	D	31,53
42	240	E27	42W HALOS CL E27 240V	76547	630	2900	2,000	45	78	12	D	43,65
30	240	B15	30W HALO S CL B15 240V	98380	405	2900	2,000	45	78	12	D	31,53
20	240	B22	20W HALO S CL B22 240V	98386	235	2900	2,000	45	78	12	D	21,15
30	240	B22	30W HALO S CL B22 240V	98379	405	2900	2,000	45	78	12	D	31,53
42	240	B22	42W HALOS CL B22 240V	76549	630	2900	2,000	45	78	12	D	43,65



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
28	240	E14	28W HALO R50 E14 240V	76544	155	220	35	2900	2 000	50	86	8	E	28,87
30	240	E14	30W HALO R50 E14 240V	14357	155	220	25	2900	2 000	50	86	8	D	31,13
28	230	E14	28W HALO R50 E14 230V	76546	155	220	35	2900	2 000	50	86	10	E	28,58
30	230	E14	30W HALO R50 E14 230V	14352	155	220	25	2900	2 000	50	86	10	D	30,79
42	240	E27	42W HALO R63 E27 240V	95116	280	530	30	2900	2 000	63,5	101	6	D	43,51
42	230	E27	42W HALO R63 E27 230V	95121	280	530	30	2900	2 000	63,5	101	10	D	44,54
42	230	E27	42W HALO R80 E27 230V	95119	285	650	30	2900	2 000	80	121	10	D	43,13
70	230	E27	70W HALO R80 E27 230V	60456	500	1125	30	2900	2 000	80	121	10	D	73,9
70	240	E27	70W HALO R80/E27 240V	60460	500	1125	30	2800	2 000	80	116	10	D	73,94
42	240	E27	42W HALO R80 E27 240V	95117	285	230	80	2900	2 000	80	121	6	D	44,2



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	CCT [K]	Rated life [h]	Diameter [mm]	Length [mm]	Pack Qty	EEC	Energy Consumption [kWh]
1000	230	E40	Halo T38/1000W/E40/230	32108	21000	2900	2,000	38	280	10	D	1008,89
1000	240	E40	Halo T38/1000W/E40/240	32109	21000	2900	2,000	38	280	10	D	1018,43







# Incandescent



## We invented incandescent technology. We know how to replace it.

From Thomas Edison's first commercially viable light bulb to the first X-ray machines, we've continued to innovate what has yet to be imagined.

GE was born from the invention of the world's first affordable incandescent lamp. More than a century later, our lighting business still brings light to the world, helping to advance new technologies, that operate with more efficiency, less cost and less environmental impact than ever before.



Since March 2009 a regulation was adopted in all EU countries and inefficient non-directional lamps have been gradually phased out from the EU market.

GE Lighting, as member of ELC (European Lamp Companies Federation), is fully committed to this regulation and has a complete range of new energy efficient products to replace old incandescent lamps.



Home

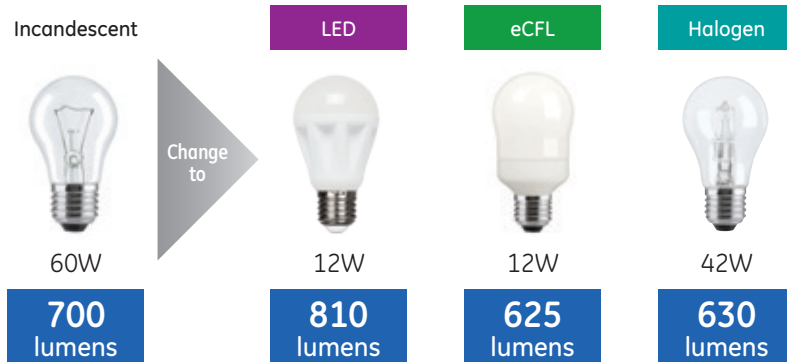
# Switching from Watts to Lumens

## How to choose your light bulb strength

Traditional light bulbs are being phased out and modern light technologies use different amounts of power to achieve the same amount of light. Instead of referring to watts anymore, we now need to measure and compare light in terms of lumens.

## What are Lumens?

A lumen (lm) is a measure of the total 'amount' of visible light emitted by a source; the higher the number, the brighter the light. Choosing the right kind of light bulb depends on the strength and type of light you want.



This chart shows an example how the wattage of traditional 60W incandescent bulb with 700 lumens equals a 42W Halogen bulb emitting 630 lumens. This is equivalent to a 12W eCFL bulb emitting 625 lumens or a 12W LED bulb emitting 810 lumens.

## The way forward

GE offers the very best options on the market, in a wide variety of fittings, shapes and sizes. Many have the option of warm light and are even dimmable. Most also switch on instantly.

Energy efficient light bulbs use less electricity than standard bulbs to do the same job. One energy saving light bulb could save around £2.50 a year, depending on how long you use your lights every day, and last around 10 times\* longer.

\*Source: Energy Saving Trust



# Incandescent Lamps

## GLS



### Standard

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



### Low Volt

Cap: E27  
Wattages: 25-100W  
Voltage: 24V  
Finish: Clear or Frosted  
Rated life: 1,000Hrs



### Rough Service

Cap: E27 or B22  
Wattages: 40-100W  
Voltage: 120, 230-240V  
Finish: Frosted  
Rated life: 1,500-3,000Hrs



### Traffic Light

Cap: E27  
Wattages: 60-100W  
Finish: Clear  
Rated life: 3,000Hrs

## Spherical



### Standard

Cap: E14, E27 or B22  
Wattages: 40-60W  
Finish: Clear or Frosted  
Rated life: 1,000Hrs



### Coloured

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



### Oven

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

## Candle



### Standard

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



### Twisted

Cap: E14  
Wattages: 16-60W  
Finish: Clear or Frosted  
Rated life: 1,000Hrs



# Selector

## Reflector



### R39

Cap: E14  
Wattages: 25-30W  
Rated life: 1,000Hrs



### R50

Cap: E14  
Wattages: 25-60W  
Rated life: 1,000Hrs



### R63

Cap: E27  
Wattages: 40-60W  
Rated life: 1,000Hrs



### R80

Cap: E27  
Wattages: 40-100W  
Rated life: 1,000Hrs



### R95

Cap: E27  
Wattages: 75-150W  
Rated life: 1,000Hrs



### Coloured R50, R63, R80

Cap: E14, E27  
Wattage: 40-60W  
Rated life: 1,000Hrs

## Infrared Reflector



### Infrared Hard Glass

Cap: E27  
Wattages: 150-275W  
Beam: Clear, Red or  
Satin  
Rated life: 5,000Hrs

## Pygmy



### Standard and Appliance

Cap: E14, B22  
Wattages: 15-25W  
Finish: Clear  
Rated life: 1,000Hrs

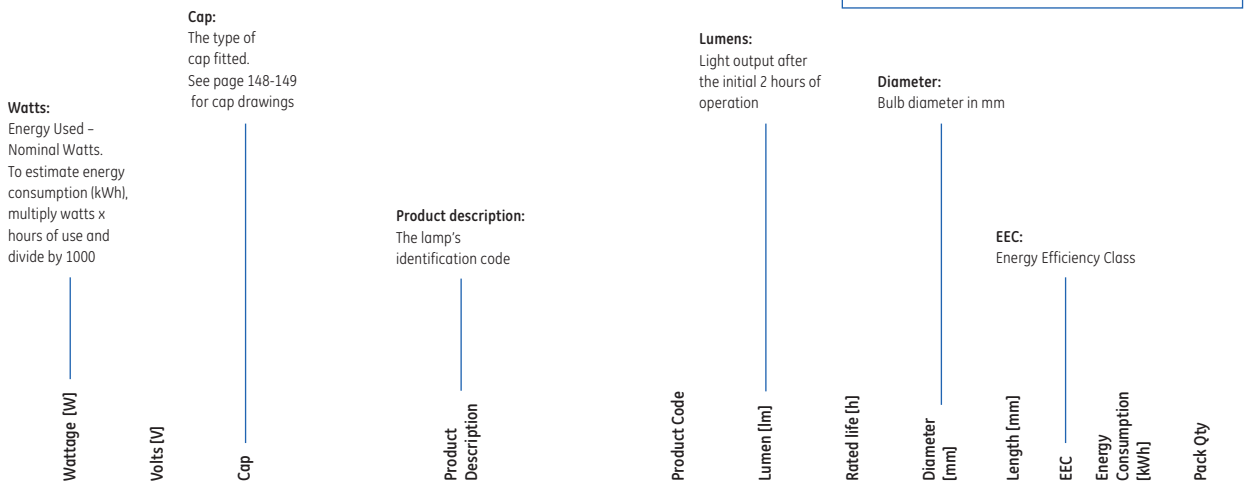
# Incandescent Lamps

## Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Rated Life is stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

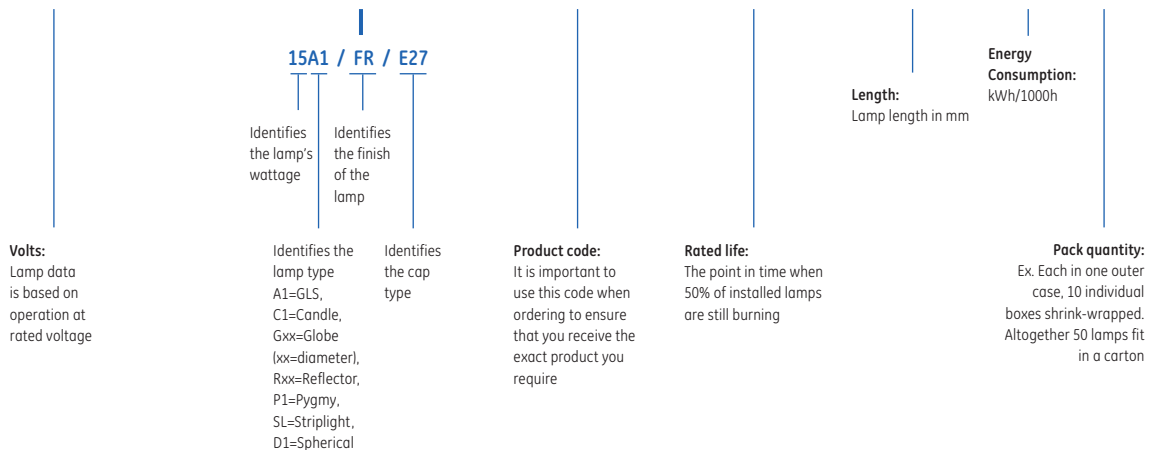
### Additional parameters:

**Beam Spread Degrees:** For reflector type lamps. The angle of the cone of light produced by a reflector lamp at 50% of its intensity  
**Peak Beam Intensity:** For reflector type lamps. Luminous intensity of the lamp beam expressed in candelas

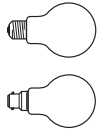


### Low Volt GLS - Frosted

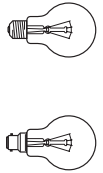
60	24	E27	60A1/F/E27 24V	91875	930	1,000	60	104.5	D	64.08	1/10/100
100	24	E27	100A1/F/E27 24V	91873	1740	1,000	60	104.5			1/10/100



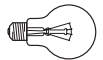
Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Consumption (kWh)	Pack Qty
<b>Standard GLS - Frosted</b>											
40	240	E27	40A1/F/E27	19952*	410	1,000	50	88.5	E	40,00	1/10/120
60	240	E27	60A1/F/E27	19954*	700	1,000	50	88.5	E	60,00	1/10/120
100	240	E27	100A1/F/E27	19956*	1330	1,000	50	88.5	E	100,00	1/10/120
60	230	B22	60A1/F/B22	21663*	710	1,000	50	88.5	E	60,00	1/10/60



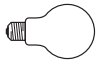
<b>Standard GLS - Clear</b>											
25	240	E27	25A1/CL/E27	19944*	225	1,000	50	88.5	E	25,00	1/10/120
40	240	E27	40A1/CL/E27	19946*	410	1,000	50	88.5	E	40,00	1/10/120
60	240	E27	60A1/CL/E27	19947*	700	1,000	50	88.5	E	60,00	1/10/120
75	240	E27	75A1/CL/E27	19948*	930	1,000	50	88.5	E	75,00	1/10/120
100	240	E27	100A1/CL/E27	19949*	1330	1,000	50	88.5	E	100,00	1/10/120
150	230	E27	150A65/CL/E27	22566*	2160	1,000	65	123	E	150,00	1/20
200	230	E27	200A1/CL/E27	91127*	3040	1,000	80	142	E	200,00	1/20
300	230-240	E27	300A1/CL/E27	91226*	4850	1,000	90	168	E	300,00	1/20
300	230-240	E40	300A1/CL/E40	91724*	4850	1,000	90	180	E	300,00	1/20
40	240	B22	40A1/CL/B22	19958*	410	1,000	50	88.5	E	40,00	1/10/120
60	240	B22	60A1/CL/B22	19962*	700	1,000	50	88.5	E	60,00	1/10/120
75	240	B22	75A1/CL/B22	19965*	930	1,000	50	88.5	E	75,00	1/10/120
100	240	B22	100A1/CL/B22	19967*	1330	1,000	50	88.5	E	100,00	1/10/120



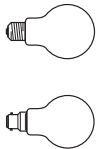
<b>Low Volt GLS - Clear</b>											
25	24	E27	25A1/CL/E27 24V	35178	320	1,000	60	104.5	D	25.42	1/10/100
40	24	E27	40A1/CL/E27 24V	91876	580	1,000	60	104.5	D	44.49	1/10/100
60	24	E27	60A1/CL/E27 24V	91877	930	1,000	60	104.5	D	64.00	1/10/100
100	24	E27	100A1/CL/E27 24V	35174	1740	1,000	60	104.5	D	107.39	1/10/100



<b>Low Volt GLS - Frosted</b>											
60	24	E27	60A1/F/E27 24V	91875	930	1,000	60	104.5	D	64.08	1/10/100
100	24	E27	100A1/F/E27 24V	91873	1740	1,000	60	104.5	D	106.64	1/10/100



<b>Rough Service GLS - Frosted</b>											
60	120	E27	60A1/P/VRS/E27	31546	450	1,500	60	105	E	57.52	1/20
100	120	E27	100A1/P/GRS/E27	31573	820	3,000	60	105	E	99.01	1/20
40	230-240	E27	40A1/F-RS/E27	91228	250	2,500	60	105	E	40.81	1/20
60	230-240	E27	60A1/F-RS/E27	91229	450	2,500	60	105	E	62.05	1/20
100	230-240	E27	100A1/F-RS/E27	91227	880	2,500	60	105	E	98.79	1/20
60	120	B22	60A1/P/VRS/B22	31535	450	1,500	60	103.5	E	58.06	1/20
100	120	B22	100A1/P/GRS/B22	31560	820	3,000	60	103.5	E	98.19	1/20



\*Can't be sold in EU, Turkey and EFTA

# Incandescent Lamps



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Rated life [h]	Diameter [mm]	Length [mm]	EEC	Energy Consumption [kWh]	Pack Qty
70	230	E27	70A1/CL/E27	35238	420	3,000	60	105	E	67.67	1/10/100
60	230	E27	60A1/CL/E27/TSR	35239	380	3,000	60	105	E	59.60	1/10/100
100	230	E27	100A65/CL/E27	22620	880	3,000	60	105	E	100.23	1/10

## Spherical - Clear



25	240	E14	25D1/CL/E14	19775*	210	1,000	45	74	E	25,00	1/10/100
40	240	E14	40D1/CL/E14	19782*	400	1,000	45	74	E	40,00	1/10/100
60	240	E14	60D1/CL/E14	19784*	660	1,000	45	74	E	60,00	1/10/100
15	230	E27	15D1/CL/E27	91917*	100	1,000	45	69,5	E	15,00	1/10/50
25	230	E27	25D1/CL/E27	90564*	210	1,000	45	69,5	E	25,00	1/10/50
40	230	E27	40D1/CL/E27	90565*	400	1,000	45	69,5	E	40,00	1/10/50
60	230	E27	60D1/CL/E27	91593*	660	1,000	45	69,5	E	60,00	1/10/50
15	230	B22	15D1/CL/B22	91911*	100	1,000	45	70	E	15,00	1/10/50



## Spherical - Frosted



25	240	E14	25D1/FR/E14	19777*	210	1,000	45	74	E	25,00	1/10/100
40	240	E14	40D1/FR/E14	19778*	400	1,000	45	74	E	40,00	1/10/100
60	240	E14	60D1/FR/E14	19786*	660	1,000	45	74	E	60,00	1/10/50
40	230	E27	40D1/F/E27	90567*	400	1,000	45	69,5	E	40,00	1/10/50
60	230	E27	60D1/F/E27	90568*	660	1,000	45	69,5	E	60,00	1/10/50



Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Rated life [h]	Diameter [mm]	Length [mm]	EEC	Energy Consumption [kWh]	Pack Qty
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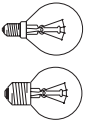
## Coloured Spherical



Red	15	230	E14	15D1/R/E14	90525	N/A	1,000	45	74	N/A	14.21	1/10/50
Red	15	230	E27	15D1/R/E27	90531	N/A	1,000	45	69,5	N/A	14.21	1/10/50
Orange	15	230	E27	15D1/ORANGE/E27	90528	N/A	1,000	45	69,5	N/A	14.21	1/10/50
Yellow	15	230	E14	15D1/Y/E14	90526	N/A	1,000	45	74	N/A	14.21	1/10/50
Yellow	15	230	E27	15D1/Y/E27	90527	N/A	1,000	45	69,5	N/A	14.21	1/10/50
Green	15	230	E14	15D1/G/E14	92004	N/A	1,000	45	74	N/A	14.21	1/10/50
Green	15	230	E27	15D1/G/E27	91521	N/A	1,000	45	69,5	N/A	14.21	1/10/50
Blue	15	230	E14	15D1/B/E14	92001	N/A	1,000	45	74	N/A	14.21	1/10/50
Blue	15	230	E27	15D1/B/E27	91522	N/A	1,000	45	69,5	N/A	14.21	1/10/50



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Pack Qty
<b>Spherical Oven - Clear</b>										
25	230	E27	25D1/CL/E27	12513	140	300	45	71	E	1/10/100
40	230	E14	40D1/CL/E14	12462	320	300	45	74	E	1/10/50
40	230	E27	40D1/CL/E27	12515	320	300	45	71	E	1/10/100



<b>Candle - Clear</b>										
25	240	E14	25C1/CL/E14	90478*	210	1,000	35	97	E	1/10/50
40	240	E14	40C1/CL/E14	91673*	400	1,000	35	97	E	1/10/50
60	240	E14	60C1/CL/E14	91677*	660	1,000	35	97	E	1/10/50
40	240	E27	40C1/CL/E27	10879*	400	1,000	35	93	E	1/10/100
60	240	E27	60C1/CL/E27	10880*	660	1,000	35	93	E	1/10/100



<b>Candle - Frosted</b>										
25	240	E14	25C1/FR/E14	91680*	210	1,000	35	97	E	1/10/50
40	240	E14	40C1/FR/E14	91682*	400	1,000	35	97	E	1/10/50
60	240	E14	60C1/FR/E14	91683*	660	1,000	35	97	E	1/10/50



<b>Candle - Opal</b>										
25	230	E14	25C1/SL/E14	90483*	180	1,000	35	97	E	1/10/50
40	230	E14	40C1/SL/E14	90482*	360	1,000	35	97	E	1/10/50
60	230	E14	60C1/SL/E14	90481*	600	1,000	35	97	E	1/10/50
25	230	E27	25C1/O/E27	10875*	180	1,000	35	93	E	1/10/50
40	230	E27	40C1/O/E27	10877*	360	1,000	35	93	E	1/10/50
60	230	E27	60C1/O/E27	10878*	600	1,000	35	93	E	1/10/50



<b>Decor Candle - Twisted Clear</b>										
40	230	E14	40TC1/CL/E14	10827*	400	1,000	35	97	E	1/10/50
60	230	E14	60TC1/CL/E14	10828*	660	1,000	35	97	E	1/10/50





<b>Decor Candle - Twisted Frosted</b>										
25	230	E14	25TC1/F/E14	10831*	210	1,000	35	97	E	1/10/50
40	230	E14	40TC1/F/E14	10832*	400	1,000	35	97	E	1/10/50
60	230	E14	60TC1/F/E14	10833*	660	1,000	35	97	E	1/10/50




\*Can't be sold in EU, Turkey and EFTA


# Incandescent Lamps


	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Candela [cd]	Beam Angle [°]	Rated life [h]	Diameter [mm]	Length [mm]	EEC	Energy Consumption [kWh]	Pack Qty	
	<b>Reflector - R39</b>														
	25	230	E14	25R39/E14	91523*	N/A	65	65	1,000	39	64.5	E	25.86	1/10/100	
	30	230	E14	30R39/E14	91524*	N/A	80	65	1,000	39	64.5	E	30.46	1/10/100	


	<b>Reflector - R50</b>														
	25	230	E14	25R50/E14	92373*	N/A	200	35	1,000	50	86	E	24.98	1/10/50	
	40	230	E14	40R50/E14	92366*	N/A	300	35	1,000	50	86	E	40.22	1/10/50	
	60	230	E14	60R50/E14	91327*	N/A	600	35	1,000	50	86	E	60.20	1/10/50	


	<b>Reflector - R63</b>														
	40	230	E27	40R63/E27	91079*	N/A	250	35	1,000	63.5	100	E	40.30	1/10/40	
	60	230	E27	60R63/E27	91080*	N/A	410	35	1,000	63.5	100	E	60.62	1/10/40	

	<b>Reflector - R80</b>														
	40	230	E27	40R80S/E27	92858*	N/A	200	35	1,000	80	109,5	E	40.38	1/10	
	60	230	E27	60R80S/E27	92839*	N/A	450	35	1,000	80	109,5	E	60.62	1/10	
	75	230	E27	75R80S/E27	92859*	N/A	600	35	1,000	80	109,5	N/A	75.00	1/10	
	100	230	E27	100R80S/E27	92860*	N/A	800	35	1,000	80	109,5	N/A	100.00	1/10	

	<b>Reflector - R95</b>														
	100	230	E27	100R95/E27	91366*	N/A	1350	35	1,000	95	127,5	E	100.00	1/32	
	150	230	E27	150R95/E27	91367*	N/A	2250	35	1,000	95	127,5	E	150.00	1/32	

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Rated life [h]	Diameter [mm]	Length [mm]	EEC	Energy Consumption [kWh]	Pack Qty	
	<b>Coloured Reflector - R50</b>											
	Red	40	230	E14	40R50/R/E14	91386	1,000	50	86	N/A	39.20	1/25
	Yellow	40	230	E14	40R50/Y/E14	91388	1,000	50	86	N/A	39.20	1/25
	Green	40	230	E14	40R50/G/E14	91389	1,000	50	86	N/A	39.20	1/25
	Blue	40	230	E14	40R50/B/E14	91387	1,000	50	86	N/A	39.20	1/25

	<b>Coloured Reflector - R63</b>											
	Red	40	230	E27	40R63/R/E27	91532	1,000	63.5	100	N/A	39.36	1/25
	Yellow	40	230	E27	40R63/Y/E27	91531	1,000	63.5	100	N/A	39.36	1/25
	Green	40	230	E27	40R63/G/E27	91533	1,000	63.5	100	N/A	39.36	1/25
	Blue	40	230	E27	40R63/B/E27	91530	1,000	63.5	100	N/A	39.36	1/25

	<b>Coloured Reflector - R80</b>											
	Red	60	230	E27	60R80/R/E27	91528	1,000	80	109.5	N/A	57.25	1/40
	Yellow	60	230	E27	60R80/Y/E27	91527	1,000	80	109.5	N/A	57.25	1/40
	Green	60	230	E27	60R80/G/E27	91526	1,000	80	109.5	N/A	57.25	1/40
	Blue	60	230	E27	60R80/B/E27	91525	1,000	80	109.5	N/A	57.25	1/40

\*Can't be sold in EU, Turkey and EFTA



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	Pack Qty
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### Infrared Reflector Hard Glass - Clear

150	230-240	E27	150R/IR/CL/E27	28720	5,000	125	173	1/9
250	230-240	E27	250R/IR/CL/E27	28724	5,000	125	173	1/9
275	230-240	E27	275R/IR/CL/E27	32569	5,000	125	173	1/9



### Infrared Reflector Hard Glass - Red Front

150	240	E27	150R/IR/R/E27	91372	5,000	125	173	1/10
250	240	E27	250R/IR/R/E27	91391	5,000	125	173	1/10



### Infrared Reflector Hard Glass - Satin

150	240	E27	150/IR/F/E27	91288	5,000	125	173	1/10
250	240	E27	250R/IR/F/E27	91390	5,000	125	173	1/10
275	240	E27	275R/IR/SA/E27	32296	5,000	125	173	1/9



Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Rated life (h)	Diameter (mm)	Length (mm)	EEC	Energy Consumption (kWh)	Pack Qty
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### Pygmy - Clear

15	110	B22	15P1/CL/B22	31811	65	1,000	28	55	E	13.41	1/50
15	230	E14	15P1/CL/E14	12512	85	1,000	28	60	E	15.53	1/10/50
25	230	E14	25P1/CL/E14	91955	190	1,000	28	60	E	24.77	1/10/50
15	240	E14	15P1/CL/E14	91950	85	1,000	25	55	E	15.22	1/10/50
25	240	E14	25P1/CL/E14	34420	190	1,000	28	60	E	24.61	1/50



### Pygmy Fridge - Clear

15	230	E14	15P1/CL/E14	92046	85	1,000	25	55	E	15.21	1/10/50
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### Pygmy Oven - Clear

15	230	E14	15P1/OVEN22/CL/E14	12447	85	1,000	22.5	48	E	15.09	1/50
15	230-240	E14	15P1/RS/CL/E14	93301	85	1,000	22.5	48	E	15.04	300
25	230	E14	25P1/OVEN25/CL/E14	43381	160	1,000	25	55	E	23.59	1/50
25	230-240	E14	25P1/OVEN/T25/CL	45330	160	1,000	25	55	E	23.59	250



\*Can't be sold in EU, Turkey and EFTA





# Entertainment Solutions



## Entertainment lighting solutions

**Range of lamp technologies** incandescent, halogen, discharge and fluorescent

**Multiple applications** including Film, TV, Studio, Theatre, Disco, Event and many more

**Extensive range** from low watt up to 24,000W with a variety of bases

**Variety of bases** large range of bases to fit most known fixtures

**Performance** consistent lamp to lamp performance

**Output** up to 2.1 million lumens



# SHOWBIZ®

for stage, studio, film and event lighting



Film and Broadcast



Event and Tour



Club and Disco



Theatre



Other applications



## Main application areas

GE Lighting is a leading supplier to the entertainment industry offering a range of lamp technologies for use in applications including stage, studio, film and event lighting. GE entertainment lamps are sold under the SHOWBIZ® brand.

### Film and Broadcast

Lamps for use in film and studio production.

### Event and Tour

Lamps primarily used in events and concert tours, although some of this range may also be used in Club/Disco applications.

### Club and Disco

Lamps primarily used in clubs and discos, although some of this range may also be used in Event/Tour applications. Also, other sealed beam applications are included in this section.

### Theatre

Lamps that are primarily used in theatrical applications or indoor events.

### Other applications

While the market moves to digital solutions, GE still has range of lamps for specialist projection.

## SHOWBIZ® Film and Broadcast



GE has a wide range of halogen and metal halide lamps for use in film and broadcast lighting for both studio and location lighting. GE also offers a low energy compact fluorescent lighting solution for soft lighting in studios.

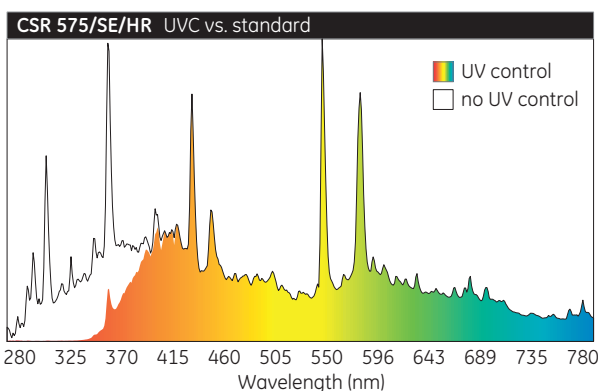
### CSR UltraViolet-Control range

With rising awareness of UV emissions, GE leads the way with its SHOWBIZ® UV-Control lamps. Using a specially designed absorbing quartz these products offer greatly reduced UV emissions over standard products with no compromise to performance - there is simply much less UV: 98% in the UVC band. GE offers the largest range of UV-Control lamps from 200W to 12,000W. The significant reduction in UV can help extend the life of components of fixtures and protect users from any light spill from the back of the fixture.

The International Commission on Illumination (CIE) defines the UV bands as UV-A (315-400nm); UV-B (280-315nm) and UV-C (100-280nm). GE uses a UV blocking titanium-cerium doped clear fused quartz for the lamp's outer jacket. This absorbs much of the UV-B and UV-C radiation while maintaining transmittance efficiency in the visible spectrum range.

### UV control

The spectra shown here are for the CSR575/SE/HR, for both standard and UV-Control lamps and shows a 98% reduction in UV-C, 99% in UV-B and a 64% reduction in UV-A across the product line.



### Performance & colour point

CSR UV-Control lamps perform just the same as the industry standard counterparts. UV-C lamps have the same high lumen output and colour rendering as standard products.

### UV-C lamp identification

GE UV-Control lamps are easy to identify. The titanium-cerium doped outer jacket quartz fluoresces blue under black light. If no black light is available the blue tint in the quartz is visible under normal lighting conditions. The lamps also have a distinctive blue base.



### Single ended hot restrike

Compact, single ended metal halide hot restrike lamps for a variety of applications requiring high luminance, reliability and excellent colour characteristics.

- Excellent colour rendering, Ra>90, and high CCT 6000K with superior colour stability
- Universal burn position with hot restrike capability
- High efficiency with excellent lumen maintenance
- Available with UV blocking



### Double ended hot restrike

Double ended compact source rare earth metal halide hot restrike lamps from GE can be used in a variety of applications requiring high luminance, reliability and excellent colour characteristics.

- Industry Standard outline with hot restrike capability
- Excellent colour rendering Ra>90 and high CCT (6000–9000K) with superior colour stability
- Dimmable with stable colour
- High efficiency with excellent lumen maintenance



### High watt halogen

Extensive range of single ended halogen lamps for use in film fixtures for location and studio use.

- Lower wattage lamps are available in the theatre section
- From 1250 to 24,000W
- Compatible with all known film fixtures
- Chromised seal protection

### Cinema fluorescent

GE offers 55W high lumen lamps called Cinema Plus and Studio Biax for TV studio and video applications. Both lamps are colour tuned to match tungsten and daylight lamp sources.

Cinema Plus is recommended for film use. This “film friendly” lamp matches the spectral sensitivity of tungsten or daylight film stock. This full-spectrum design has a CRI up to 95 and is a gel-free light source.

Studio Biax is a perfect solution for TV and Video applications where high light output, long life and great lumen maintenance are the key needs. The Studio Biax is a triphosphor lamp colour tuned to 3200°K and 5500°K to match tungsten and daylight sources in a studio setting.



## SHOWBIZ® *Event and Tour*



GE lighting has a wide range of lamps for events and tours where high light output and high colour temperature is required to give the best light effect for the performing artists and audiences.

A variety of lamps can be used for events. In this section we focus on the metal halide CSR / CSD range of lamps, however many of the sealed beam lamps in the next section are still extensively used at events and tours.

This section features the CSR TAL lamps which give users a lamp that can be changed quickly on location – just Turn And Lock.





### Single ended cold start

Compact, single ended metal halide cold start lamps for a variety of applications requiring high luminance, reliability and excellent colour characteristics.

- Excellent colour rendering Ra from 70 – 90+
- High CCT 7200 - 9000K with superior colour stability
- Universal burn position
- Dimmable with stable colour
- High efficiency with excellent lumen maintenance



### CSR TAL

These single-ended metal halide lamps are especially useful for moving-light applications that call for high colour temperatures and brighter light sources. The 'Turn And Lock' technology provides easy installation.

A very short arc gap allows for higher beam intensity. This enables good system performance, colour stability and superior lumen maintenance over life.

- Easy release base (Turn And Lock) enabling quick lamp change at events
- High lumen output



### Double ended hot restrike

Double ended compact source rare earth metal halide hot restrike lamps from GE can be used in a variety of applications requiring high luminance, reliability and excellent colour characteristics.

- Industry Standard outline with hot restrike capability
- Excellent colour rendering Ra>90 and high CCT (6000 K – 9000K) with superior colour stability
- Dimmable with stable colour
- High efficiency with excellent lumen maintenance

### CSR single ended short arc

Metal halide short arc lamps. The special chromised seal protection allows an increased maximum operating temperature at the base of 500° C for added reliability and consistent performance.

- RA 75+
- 5600 – 7200K
- Dimmable with stable colour
- High efficiency with excellent lumen maintenance



## Club and Disco



This section highlights the extensive range of GE PAR lamps available, from PAR36 to PAR64.

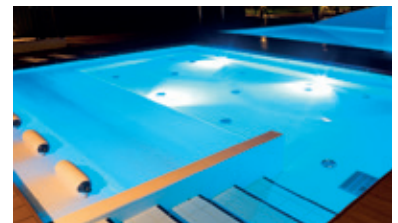
Some lamps in this section may not normally be used in night club or disco applications but they have been included to provide a full picture of all the possibilities that are available.

### Europe and USA manufacturing

GE PAR lamps provide tried and tested quality that can be relied on. The most popular 1000W types, CP60, 61, 62 are manufactured in Europe, while most of the PAR36 and PAR56 and many of the other PAR64 types are US manufactured.

### Other applications

The other applications include swimming pool lamps where the 300W PAR56 12V lamp is commonly used, locomotive lamps where the 200W PAR56 30V lamp is used, and the extensive range of ANSI PAR lamps that are used in aircraft applications.







PAR36



PAR46



PAR56



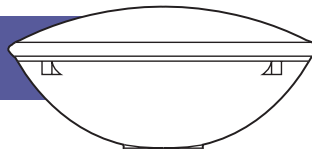
PAR64

### PAR36/46/56/64

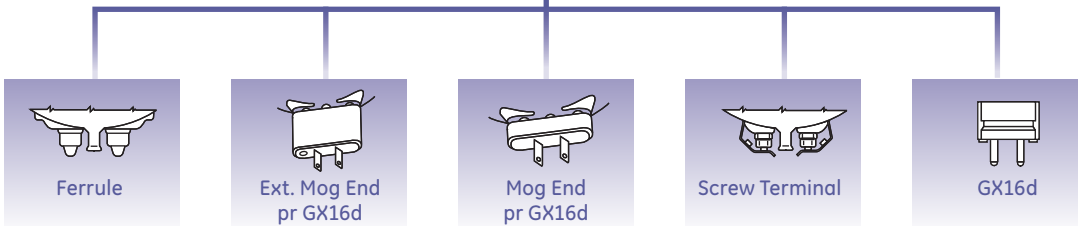
PAR lamps provide a robust and flexible design solution for a wide range of applications.

- Choice of PAR36, PAR46, PAR56 or PAR64
- 3000 K or 4200 K colour temperature
- Choice of beam widths
- Excellent colour rendering
- High efficiency combined with low operating costs
- Robust and reliable
- UV control
- Easy retrofit
- Colour consistent throughout life
- Colour blends with halogen and fluorescent

## PAR lamp caps



Cap



## Theatre



In this section we highlight GE's extensive range of halogen lamps in both single and double ended format that are primarily used in theatre applications. With the increasing number of spectacular musicals there are a number of moving lights used in theatres, so you may also find lamps in our event section.

### HPL

GE offers an extensive range of Quartzline® HPL lamps, especially designed for applications in entertainment and architectural lighting where ETC Source Four™ \* fixtures are used.

*\*Source Four™ is a registered trademark of Electronic Theatre Controls*





### Single ended halogen HPL

Developed using GE Six Sigma process, these lamps encompass modern halogen technology and high production standards.

- HPL optical system for superior field smoothness and cosine distribution
- Integral heat sink base reduces seal temperature, increases durability and maximises life
- Shock resistant filament array and patented gas chemistry minimises arc-out risk during alignment and focusing



### Single ended halogen

Quartzline® lamps designed for optimum performance in today's precision range of stage, studio and architectural luminaires.

- Full range up to 3000W
- Range of bases to meet the needs of OEMs
- Chromised seal protection up to 500°C



### Double ended halogen

Precision range of Quartzline® lamps widely used in theatre and many other applications.

- A range from 350W to 2,000W
- 3200K

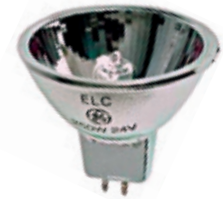


## Other applications



### Specialist Projection

While the market moves to digital solutions, GE still has range of lamps for specialist projection.



### Specialist Projection

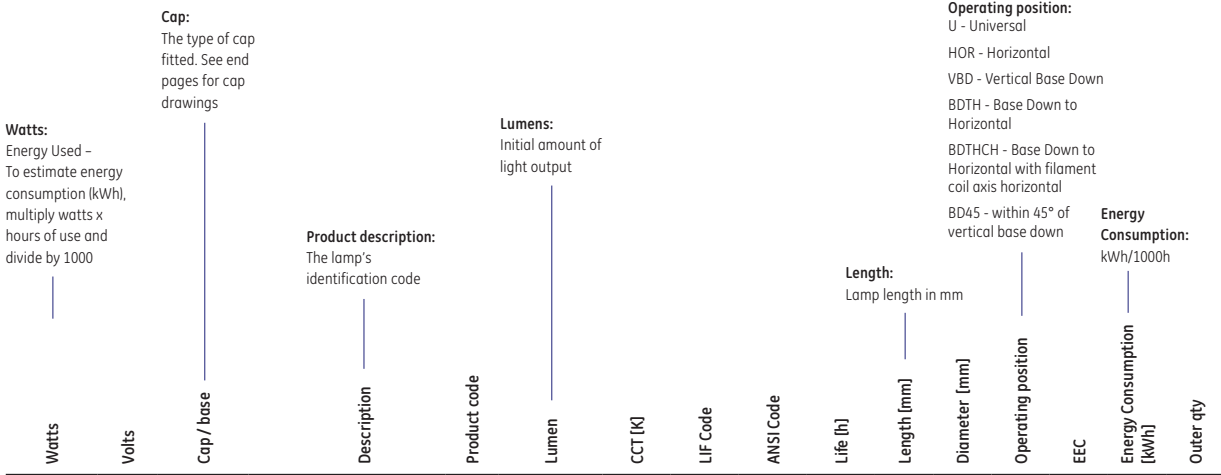
Precisely manufactured, tailored filaments which optimise source brightness, giving high performance in many applications.

High light-generating efficacy to help reduce power consumption and heat generation.

Prefocus-type caps or precision rim mounting to position the filament accurately in relation to the optics.

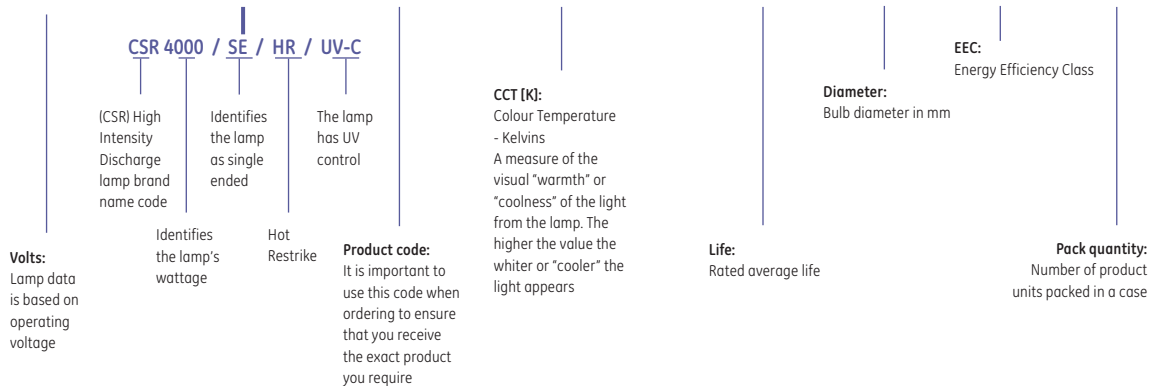
# Product identification

**Additional parameters:**  
**LIF Code:** common lamp ID within Europe  
**ANSI Code:** common lamp ID within North America



## Single Ended Halogen (Lower wattages are shown in the Theatre section)

1250+650	230-240	GX38q	CP105	1250/650W	230-240V	88880	27,000+13,000	3050	CP105	-	250	220	-	BD45	D	1919.00	1
1250+1250	230-240	GX38q	CP30	230-240V		88877	27,000+27,000	3200	CP30	-	300	220	-	BD45	D	2518.00	1



# Entertainment Lamps

## Film and Broadcast



### Single-ended hot restrike

Watts: 125-18,000W  
Lumens: 9800-1,650,000  
CCT: 6000  
Life: Up to 750h



### Double-ended hot restrike

Watts: 200-4,000W  
Lumens: 15,000-2,100,000  
CCT: 5600-6000  
Life: Up to 750h



### Cinema Studio Biax™

Watts: 55W  
Lumens: 2400-4100  
CCT: 3200 & 5600  
Life: Up to 8000h



### Single-ended halogen

Watts: 1250-24,000W  
Volts: 230-240  
Lumens: 13,000-800,000  
CCT: 3050-3400  
Life: Up to 500h

## Event and Tour



### Single ended cold start

Watts: Up to 1200W  
Lumens: Up to 110,000  
CCT: 6500-9000  
Life: 800-3000h



### TAL

Watts: Up to 1500W  
Lumens: Up to 129000  
CCT: 5600-9800  
Life: Up to 2000h



### Double-ended hot restrike

Watts: 575 - 1500W  
Lumens: Up to 130,000  
CCT: 5800 - 7500  
Life: 500 - 750h



### Short arc

Watts: 700 -1200W  
Lumens: Up to 100,000  
CCT: 5800-7500  
Life: 500-750h

## Club and Disco



### PAR

Range: PAR36, 46, 56, 64  
Watts: Up to 1200W  
Candelas: Up to 765,000  
Life: Up to 4000h

# Selector

## Theatre



### Single-ended halogen -HPL

Watts: 375-750W  
Volts: 115-240  
Cap: G9.5/Heat Sink  
Lumens: Up to 19,750



### Single-ended halogen

Watts: 500-3000W  
Volts: 115-240  
Lumens: Up to 82,000  
CCT: 2900-3200  
Life: Up to 2000h



### Double-ended quartzline

Watts: 350-2000W  
Volts: 120-240  
Lumens: Up to 57,000  
CCT: 2950-3275  
Life: Up to 400h

## Other applications



### CSS/CSI/CID

Watts: 140-1000W  
Lumens: 10,000 - 1,350,000  
CCT: 3800-5000  
Life: 500-3500h



Special purpose lamps.  
Not suitable for household illumination.

# Entertainment Lamps

## Film and Broadcast

Watts	Volts	Cap / base	Description	Product code	Lumen	CCT (K)	Life (h)	Length (mm)	Operating position	EEC	Energy Consumption [kWh]	Outer qty	Osram	Philips
<b>Discharge - Single Ended Hot Restrike</b>													<b>Cross Reference</b>	
125	80	GZX9.5	CSR125/SE/HR	48461	9800	6000	200	75	U	A	137.50	10	HMI125W	MSR125/HR
200	70	GZY9.5	CSR200/SE/HR/UV-C	93011465	16,000	6000	200	80	U	A	220.00	10	HMI200W/SE	MSR200/HR
400	67	GZZ9.5	CSR 400SE/HR/UV-C	93011462	32,000	6000	650	110	U	A	440.00	10	HMI400W/SE	MSR400/HR
575	95	G22	CSR 575/SE/HR/UV-C	69061	48,000	6000	750	145	U	A	632.50	10	HMI575W/SE	MSR575/HR
800	95	G22	CSR800/SE/HR/UV-C	93011463	64,000	6000	1000	145	U	A	880.00	6	HMI800W/SEL	-
1200	100	G38	CSR 1200 SE/HR/UV-C	27764	110,000	6000	750	200	U	A+	1320.00	6	HMI1200W/SE	MSR1200/HR
1600	150	G22	CSR 1600/SE/HR/UV-C	93011464	130,000	6000	500	175	U	A+	1760.00	6	-	-
1800	150	G38	CSR 1800/SE/HR	77390	165,000	6000	750	200	U	A+	1980.00	6	HMI1800W/SE/XS	-
2500	115	G38	CSR 2500/SE/HR/UV-C	40482	220,000	6000	500	240	U	A	2750.00	6	HMI2500W/SE	MSR2500/HR
4000	200	G38	CSR 4000SE/HR/UV-C	27765	380,000	6000	500	260	U	A+	4400.00	6	HMI4000W/SE	MSR4000/HR
6000	130	G38	CSR 6000/SE/HR/UV-C	40492	540,000	6000	300	360	U	A+	6600.00	6	HMI6000W/SE	MSR6000/HR
9000	160	G38	CSR9000/SE/HR	65852	875,000	6000	400	360	U	A+	875.00	6	HMI 9000W/ SE	MSR9000/HR
12,000	225	G38	CSR12000/SE/HR/ UV-C	97272	1,150,000	6000	300	450	U	A+	13200.00	4	HMI12000W/SE	MSR12000/HR
18,000	225	G51	CSR18000/SE/HR	22496	1,650,000	6000	250	470	U	A+	19800.00	1	HMI18000W/SE	MSR18000/HR

<b>Discharge - Double Ended Hot Restrike</b>														
1200	100	SFc 10-5-6 SI/M6	CSR1200/DE	48453	110000	6000	750	220	HOR±15°	A+	1320.00	10	HMI1200W/GS	MSI1200
2500	115	Sta21-12	CSR2500/DE	48454	240000	6000	500	355	HOR±15°	A+	2750.00	6	HMI2500W/GS	MSI2500
6000	125	25X51 Cyl 165mm	CSR6000/DE	48456	570000	6000	300	450	HOR±15°	A+	6600.00	10	HMI6000W	MSI6000
12,000	160	30x70 Cyl 165mm	CSR12000/DE	48457	1100000	6000	300	470	HOR±15°	A+	13200.00	10	HMI12000W/GS	MSI12000
18,000	225	30x70 Cyl 165mm	CSR18000/DE	48459	1650000	6000	500	500	HOR±15°	A+	19800.00	4	HMI18000W	-
24,000	270	30x70 Cyl 165mm	CSR24000/DE	78710	2100000	6000	500	500	HOR±15°	A	26400.00	1	HMI24000W/DXS	-

### Single Ended Hot Restrike

### Double Ended Hot Restrike



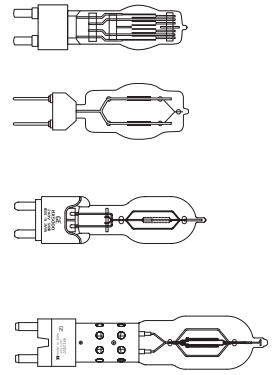


# Film and Broadcast

Watts	Volts	Cap / base	Description	Product code	Lumen	CCT (K)	LIF Code	ANSI Code	Life (h)	Length (mm)	Diameter (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer qty
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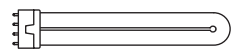
## Single Ended Halogen (Lower wattages are shown in the Theatre section)

1250+650	230-240	GX38q	CP105 1250/650W 230-240V	88880	27,000+13,000	3050	CP105	-	250	220	-	BD45	D	1919.00	1
1250+1250	230-240	GX38q	CP30 230- 240V	88877	27,000+27,000	3200	CP30	-	300	220	-	BD45	D	2518.00	1
1250+2500	230-240	GX38q	CP58 230-240V	88878	27,000+59,000	3200	CP58	-	300	220	-	BD45	C	3795.00	1
2500+2500	230-240	GX38q	CP32 230-240V	88879	59,000+59,000	3200	CP32	-	100	220	-	BD45	C	5059.00	1
5000	230	G38	CP29 230V	88875	13,500	3200	CP29	-	375	279	-	BDTH	C	5040.00	12
5000	240	G38	CP29 240V	88876	13,000	3200	CP29	-	375	279	-	BDTH	C	5040.00	12
5000	240	G38	HX5000/240V	71379	133,000	3200	-	-	200	270	65	U	C	4652.57	6
10,000	220-230	G38	CP83 220-230V	12036	280,000	3200	CP83	-	500	405	-	BDTH	C	9965.00	1
10,000	240	G38	CP83 240V	12037	280,000	3200	CP83	-	500	405	-	BDTH	C	9777.33	1
12,000	230	GX38	Q12MT26/CL 230V	48771	400,000	3400	-	-	130	410	-	BD45	B	12600.37	1
12,000	240	GX38	Q12MT26/CL 240V	48779	400,000	3400	-	-	130	410	-	BD45	C	11659.73	1
20,000	220	GX38	Q20MT32/CL 230V	48773	580,000	3200	-	BCM	400	560	-	BD45	C	18762.33	1
20,000	240	GX38	Q20MT32/CL 240V	48774	580,000	3200	-	BCM	400	560	-	BD45	C	19727.93	1
24,000	240	GX38	Q24MT32/CL 240V	48777	800,000	3400	-	-	150	560	-	BD45	B	23778.40	1



## Cinema Studio Biax™

55	-	2G11-4 PIN	F55BX/STUDIOBIAX32	41869	4100	3200	-	-	8000	55	-	U	A	60.50	10
55	-	2G11-4 PIN	F55BX/STUDIOBIAX56	41873	4100	5600	-	-	8000	55	-	U	A	60.50	10
55	-	2G11-4 PIN	F55BX/CINPLUS/32	41903	2400	3200	-	-	2000	55	-	U	B	60.50	10
55	-	2G11-4 PIN	F55BX/CINPLUS/55	41911	2400	5600	-	-	2000	55	-	U	B	60.50	10



Single Ended Halogen



G38

G51

Cinema Studio Biax™



2G11-4 PIN

# Entertainment Lamps

## Event and Tour

Watts	Volts	Cap / base	Description	Product code	Lumens	CCT (K)	Life (h)	Length (mm)	Operating position	EEC	Energy Consumption [kWh]	Outer qty	Osram	Philips
<b>Discharge - Single Ended Cold Start</b>													<b>Cross reference</b>	
250	95	GY9.5	CSD 250/2 SE	10744	18,000	8500	3000	108	U	A	275.00	10	HSD250/80	MSD250/2
575	97	GX9.5	CSR575/2/T/SE	49492	42,000	7600	1000	125	U	A	632.50	10	-	-
575	97	GX9.5	CSR575/2/SE	69064	46,000	7200	1000	125	U	A	632.50	10	HSR575/2	MSR575/2
700	70	G22	CSR700/2/SE	49491	55,000	6500	1000	155	U	A	770.00	10	HSR700/2	MSR700/2
1200	100	G22	CSR1200/2/SE	49490	110,000	7000	800	175	U	A+	1320.00	6	HSR1200/2	MSR1200/2
<b>Discharge - CSR Turn and Lock (TAL)</b>														
700	70	PGJX50	CSR700/TAL	76161	50,000	7400	750	128	U	A	770.00	4	HTI 700W/75/P50	MSR 700 FastFit
700	70	PGJX28	CSR700/TAL	78718	50,000	7400	750	122	U	A	770.00	4	HTI 700W/75/P28	MSR 700/2 MiniFastFit
<b>Discharge - Double Ended Hot Restrike</b>														
575	95	SFc 10-4 SI/M4	CSR575/S/DE/70	70979	40,000	7000	750	138	U	A	632.50	10	-	-
575	100	SFc 10-4 SI/M4	CSR575/SS/DE/75	45231	44,000	7500	500	92	HOR±15°	A	632.50	10	-	-
700	70	SFc 10-4 SI/M4	CSR700/S/DE/60	22493	59,000	6000	750	138	U	A	770.00	10	HTI700W/D4/60	-
700	70	SFc 10-4 SI/M4	CSR700/S/DE/72	41357	51,000	7200	750	138	U	A	770.00	10	HTI700W/D4/75	MSR700/SA/2/DE
1200	100	SFc 10-4 SI/M4	CSR1200/S/DE/60	22494	110,000	6000	750	138	U	A+	1320.00	10	HTI1200W/D7/60	MSR1200/SA/DE
1500	115	SFc 10-4 SI/M4	CSR1500/S/DE/60	96800	130,000	5800	500	138	HOR±15°	A	1650.00	10	HTI1500 D7/60	-
<b>Discharge - Short Arc</b>														
700	70	GY9.5	CSR 700 SA	15380	58,000	5600	500	85	U	A	770.00	10	HTI705W/SE	MSR700/SA
1200	100	GY22	CSR 1200/SA	21849	100,000	5800	750	135	U	A	1320.00	6	HTI1200W/SE	MSR1200/SA

Single Ended Cold Start



GX9.5

G22

TAL



PGJX28

PGJX50

Short Arc



GX9.5

Double Ended Hot Restrike

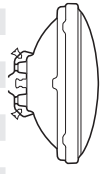
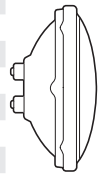


Sfc 10-4 SI/M4



# Club and Disco

Watts	Volts	Description	Product code	CCT (K)	LIF Code	ANSI Code	Cap / base	Life (h)	Candelas	Beam type	Beam 10%	Beam 50%	Length (mm)	Diameter (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer qty
<b>PAR 36</b>																		
25	5.5	25PAR36 5.5V	14553	3000	-	-	Screw Term.	1000	30,000	VNSP	-	5 x 5	69.8	114.3	U	E	26.43	12
25	12	25PAR36/WFL 12V	14555	-	-	-	Screw Term.	2000	500	WFL	49 x 41	37 x 26	69.8	114.3	U	E	26.01	12
30	12.8	4405 12.8V	24425	-	-	-	Screw Term.	100	50,000	VNSP	6 x 5	-	69.8	114.3	U	Exempt	Exempt	12
30	6.2	4511 6.2V	24663	-	-	-	Screw Term.	300	2300	-	-	-	69.8	114.3	U	Exempt	Exempt	12
30	6.4	H4515 6.4V	15133	-	-	-	Screw Term.	100	67,000	VNSP	5.5 x 4	-	69.8	114.3	U	E	31.53	12
30	6.4	4515 6.4V	24673	-	-	-	Screw Term.	100	55,000	VNSP	5 x 5	-	69.8	114.3	U	E	31.58	12
50	12.8	H7604 12.8V	43576	-	-	-	Screw Term.	100	100,000	NSP	7 x 5	-	69.8	114.3	U	Exempt	Exempt	12
50	12	50PAR36/VNSP 12V	12892	-	-	-	Screw Term.	2000	25,000	VNSP	-	6 x 6	69.8	114.3	U	E	52.11	12
50	12	50PAR36/NSP 12V	16540	-	-	-	Screw Term.	2000	9200	NSP	-	10 x 10	69.8	114.3	U	E	51.98	12
50	12	50PAR36/WFL 12V	16541	-	-	-	Screw Term.	2000	1300	WFL	48 x 41	36 x 28	69.8	114.3	U	E	51.98	12
50	12	50PAR36/WFL/H 12V	19880	3050	-	-	Screw Term.	4000	1300	WFL	-	30 x 30	69.8	114.3	U	E	51.33	12
50	28	4502 28.0V	24627	-	-	-	Screw Term.	400	10,000	WFL	40 x 7	-	69.8	114.3	U	Exempt	Exempt	12
50	28	4505 28.0V	24640	-	-	-	Screw Term.	400	45,000	NSP	11 x 5	-	69.8	114.3	U	Exempt	Exempt	12
50	28	4589 28V 50W	24873	-	-	-	Screw Terminals	400	5000	-	-	-	69.8	114.3	U	Exempt	Exempt	12
100	13	4509 13.0V	24650	-	-	-	Screw Term.	25	110,000	NSP	12 x 6	-	69.8	114.3	U	Exempt	Exempt	12
100	13	4509X 13.0V	41503	-	-	-	Screw Term.	25	110,000	NSP	12 x 6	-	69.8	114.3	U	Exempt	Exempt	12
50	28	4593 28.0V	24887	-	-	-	Screw Term.	400	1500	VWFL	80 x 30	-	69.8	114.3	U	Exempt	Exempt	12
100	28	4594 28.0V	24891	-	-	-	Screw Term.	300	70,000	NSP	13 x 7	-	69.8	114.3	U	Exempt	Exempt	12
150	28	4626 28.0V	24964	-	-	-	Screw Term.	300	25,000	WFL	40 x 9	-	69.8	114.3	U	Exempt	Exempt	12
100	28	4627 28.0V	24966	-	-	-	Screw Term.	300	3000	VWFL	80 x 30	-	69.8	114.3	U	Exempt	Exempt	12
250	28	4587 28.0V	24867	-	-	-	Screw Term.	25	4000	WFL	40 x 13	-	69.8	114.3	U	Exempt	Exempt	12
250	28	4596 28.0V	24898	3000	-	-	Screw Term.	25	150,000	NSP	11 x 12	-	69.8	114.3	U	Exempt	Exempt	12
650	120	DWE Q650PAR36/1 120V	41667	3200	-	DWE	Screw Term.	100	24,000	MFL	-	40 X 30	69.8	114.3	HOR±15°	D	692.40	12
650	120	FBO-Q650/PAR36/5 120V	41671	3400	-	FBO	Screw Term.	30	75,000	SP	-	25 X 15	69.8	114.3	HOR±15°	D	692.40	12
650	120	FCX-Q650PAR36/7 120V	41673	3200	-	FCX	Ferrule	100	24,000	MFL	-	40 X 30	69.8	114.3	HOR±15°	D	692.40	12



PAR36



# Entertainment Lamps

## Club and Disco

Watts	Volts	Description	Product code	CCT (K)	LIF Code	ANSI Code	Cap/ base	Life (h)	Candelas	Beam type	Beam 10%	Beam 50%	Length (mm)	Diameter (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer qty
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### PAR 46

50	12.8	H7635 12.8V	43591	-	-	-	Screw Terminals	100	160,000	VNSP	-	6.5 x 4	95.2	146	U	Exempt	Exempt	12
60	28	4578 28.0V	25005	-	-	-	3 Contact Lugs	800	1600	-	-	-	95.2	146	U	Exempt	Exempt	12
80	28	4579 28V 80W	25009	-	-	-	3 Contact Lugs	400	24,000	-	-	-	95.2	146	U	Exempt	Exempt	12
100	13	4537-2 13.0V	40822	-	-	-	Screw Terminals	25	200,000	SP	-	11 x 6	95.2	146	U	Exempt	Exempt	12
250	28	4551 28.0V	24795	-	-	-	Screw Terminals	25	75,000	-	-	-	95.2	146	U	Exempt	Exempt	12
250	28	4553 28.0V	24799	-	-	-	Screw Terminals	25	300,000	SP	-	11 x 12	95.2	146	U	Exempt	Exempt	12
450	16.5	4635	33284	-	-	-	Screw Terminals	25	325,000	-	-	-	95.2	146	U	Exempt	Exempt	12
450	28	4580 28.0V	24859	-	-	-	Screw Terminals	10	400,000	SP	-	13 x 14	95.2	146	U	Exempt	Exempt	12
450	28	Q4554 28.0V	37706	-	-	-	Screw Terminals	100	65,000	WFL	-	50 x 11	95.2	146	U	Exempt	Exempt	12
450	28	Q4681 28.0V	36271	-	-	-	Screw Terminals	50	310,000	SP	-	15 x 9	95.2	146	U	Exempt	Exempt	12

### PAR 56

100	12	4545 100W 12V	24768	-	-	-	Screw Terminals	100	225,000	NSP	-	9 x 5	127	177.8	U	Exempt	Exempt	12
120	12	120PAR56WFL 12V	19025	-	-	-	Screw Terminals	2000	5625	WFL	35 x 18	50 x 25	127	177.8	U	D	125.19	12
200	30	200PAR 30V	20122	-	-	-	Screw Terminals	350	270,000	SP	-	9 x 9	127	177.8	U	Exempt	Exempt	12
240	12	240PAR56/VNSP 12V	20575	-	-	-	Screw Terminals	2000	140,000	VNSP	9 x 6	7 x 10	127	177.8	U	E	260.08	12
240	12	240PAR56/WFL 12V	20577	-	-	-	Screw Terminals	2000	13,000	WFL	35 x 18	50 x 27	127	177.8	U	E	260.08	12
300	12	300PAR56/WFL 12V	23427	-	-	-	Screw Terminals	1000	-	WFL	-	-	127	177.8	U	C	309.51	12
300	120	300PAR56/NSP 120V	20803	2750	-	-	Mog End Pr GX16d	2000	68,000	NSP	10 x 8	20 x 14	127	177.8	U	E	313.36	12
300	120	300PAR56/MFL 120V	20836	2750	-	-	Mog End Pr GX16d	2000	24,000	MFL	23 x 11	34 x 19	127	177.8	U	E	318.70	12
300	120	300PAR56/WFL 120V	20849	2750	-	-	Mog End Pr GX16d	2000	11,000	WFL	37 x 18	57 x 27	127	177.8	U	E	318.70	12
300	230	300PAR56/MFL 230V	20852	-	-	-	ExMogEndPr GX16d	2000	30,000	MFL	-	-	127	177.8	U	E	293.19	12
300	230	300PAR56/NSP 230V	20853	-	-	-	ExMogEndPr GX16d	2000	40,000	NSP	-	-	127	177.8	U	E	293.19	12
300	230	300PAR56/WFL 230V	20854	-	-	-	ExMogEndPr GX16d	2000	10,000	WFL	-	-	127	177.8	U	E	293.19	12
300	240	300PAR56/NSP 240V	18676	-	-	-	ExMogEndPr GX16d	2000	40,000	NSP	-	-	127	177.8	U	E	285.58	12
300	240	300PAR56/MFL 240V	18677	-	-	-	ExMogEndPr GX16d	2000	30,000	MFL	-	-	127	177.8	U	E	285.58	12
300	240	300PAR56/WFL 240V	18678	-	-	-	ExMogEndPr GX16d	2000	10,000	WFL	-	-	127	177.8	U	E	285.58	12
500	120	Q500PAR56MFL 120V	43495	2950	-	-	Mog End Pr GX16d	4000	43,000	MFL	26 x 10	42 x 20	127	177.8	U	D	550.11	6
500	120	Q500PAR56WFL 120V	43496	2950	-	-	Mog End Pr GX16d	4000	19,000	WFL	44 x 20	66 x 34	127	177.8	U	D	550.11	6
500	120	Q500PAR56NSP 120V	43494	2950	-	-	Mog End Pr GX16d	4000	96,000	NSP	13 x 8	32 x 15	127	177.8	U	D	550.11	6

PAR46

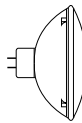
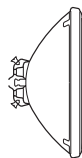


PAR56



# Club and Disco

Watts	Volts	Description	Product code	CCT (K)	LIF Code	ANSI Code	Cap / base	Life (h)	Candelas	Beam type	Beam 10%	Beam 50%	Length (mm)	Diameter (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer qty
<b>PAR 64</b>																		
250	28	4552 28.0V	40576	-	-	-	Screw Terminals	25	500,000	SP	-	7 X 8	152.4	203.2	U	Exempt	Exempt	12
600	28	4559 28.0V	40578	-	-	-	Screw Terminals	25	600,000	SP	-	11 X 12	152.4	203.2	U	Exempt	Exempt	12
600	28	Q4559 28.0V	40579	-	-	-	Screw Terminals	100	600,000	SP	-	12 X 8	152.4	203.2	U	Exempt	Exempt	12
600	28	Q4559X 28.0V	42552	-	-	-	Screw Terminals	100	765,000	SP	11x7.5	-	152.4	203.2	U	Exempt	Exempt	12
500	230	CP86 - Q500PAR64/VNSP 230V	73581	3200	CP86	-	GX16d	300	240,000	VNSP	16x13	10x7	152.4	203.2	U	D	496.62	6
500	240	CP86 - Q500PAR64/VNSP 240V	99944	3200	CP86	-	GX16d	300	240,000	VNSP	16x13	10x7	152.4	203.2	U	C	507.66	6
500	230	CP87 - Q500PAR64/NSP 230V	99945	3200	CP87	-	GX16d	300	140,000	NSP	19x16	11x9	152.4	203.2	U	D	499.88	6
500	240	CP87 - Q500PAR64/NSP 240V	99946	3200	CP87	-	GX16d	300	140,000	NSP	19x16	11x9	152.4	203.2	U	C	512.64	6
500	230	CP88 - Q500PAR64/MFL 230V	99947	3200	CP88	-	GX16d	300	65,000	MFL	32x19	21x10	152.4	203.2	U	D	498.86	6
500	240	CP88 - Q500PAR64/MFL 240V	99948	3200	CP88	-	GX16d	300	65,000	MFL	32x19	21x10	152.4	203.2	U	C	498.86	6
500	230	500PAR64/MFL 230V	39411	2700	-	-	ExMogEndPr GX16d	2000	-	MFL	21 X 10	32 x 19	152.4	203.2	U	E	504.90	12
500	230	500PAR64/WFL 230V	39414	2700	-	-	ExMogEndPr GX16d	2000	-	WFL	42 X 20	55 x 32	152.4	203.2	U	E	504.90	12
400/1000	28	4557 28/28V	40581	3350	-	-	3 Screw Terminals	25	540,000	-	-	-	152.4	203.2	U	Exempt	Exempt	12
1000	230	SUPER CP60 EXC VNS 230V	88425	3200	CP60	-	GX16d	300	352,000	VNSP	20x17	12x9	152.4	203.2	U	C	1024.70	6
1000	240	SUPER CP60 EXC VNS 240V	88551	3200	CP60	-	GX16d	300	352,000	VNSP	20x17	12x9	152.4	203.2	U	C	1036.20	6
1000	230	SUPER CP61 EXD NS 230V	88535	3200	CP61	-	GX16d	300	297,000	NSP	22x20	14x10	152.4	203.2	U	C	1030.70	6
1000	240	SUPER CP61 EXD NS 240V	88550	3200	CP61	-	GX16d	300	297,000	NSP	22x20	14x10	152.4	203.2	U	C	1039.92	6
1000	230	SUPER CP62 EXE MF 230V	88549	3200	CP62	-	GX16d	300	138,000	MFL	38x20	24x11	152.4	203.2	U	C	1061.92	6
1000	240	SUPER CP62 EXE MF 240V	88536	3200	CP62	-	GX16d	300	138,000	MFL	38x20	24x11	152.4	203.2	U	C	1037.14	6
1000	230	CP95 230V	88511	3200	CP95	-	ExMogEndPr GX16d	300	15,000	VWFL	125 x 95	70 X 70	152.4	203.2	U	C	993.02	6
1000	240	CP95 240V	88510	3200	CP95	-	ExMogEndPr GX16d	300	15,000	VWFL	125 x 95	70 X 70	152.4	203.2	U	C	999.82	6
1000	230	EXG PAR64/1000W/230V/WFL	88480	3200	-	EXG	ExMogEndPr GX16d	300	49,300	WFL	59 x 36	44 X 22	152.4	203.2	U	C	995.78	6
1000	240	EXG PAR64/1000W/240V/WFL	88479	3200	-	EXG	ExMogEndPr GX16d	300	49,300	WFL	59 x 36	44 X 22	152.4	203.2	U	C	1006.14	6
500	120	500PAR64/MFL 120V	39409	2800	-	-	ExMogEndPr GX16d	2000	37,000	MFL	23 X 11	35 x 19	152.4	203.2	U	E	549.97	12
1000	120	FFN 120V	13233	3200	-	FFN	ExMogEndPr GX16d	800	40,000	VNSP	12 X 6	24 x 10	152.4	203.2	U	E	1083.58	6
1000	120	FFP 120V	13229	3200	-	FFP	ExMogEndPr GX16d	800	330,000	NSP	14 X 7	26 x 14	152.4	203.2	U	E	1083.58	6
1000	120	FFR 120V	13228	3200	-	FFR	ExMogEndPr GX16d	800	125,000	MFL	28 X 12	44 x 21	152.4	203.2	U	E	1083.58	6
1000	120	FFS 120V	13227	3200	-	FFS	ExMogEndPr GX16d	800	40,000	WFL	48 X 24	71 x 45	152.4	203.2	U	E	1083.58	6
1000	120	Q1000PAR64NSP 120V	43497	3000	-	-	ExMogEndPr GX16d	4000	200,000	NSP	15 X 8	31 X 14	152.4	203.2	U	D	1053.24	6
1000	120	Q1000PAR64MFL 120V	43498	3000	-	-	ExMogEndPr GX16d	4000	80,000	MFL	28 X 12	45 x 22	152.4	203.2	U	D	1053.24	6
1000	120	Q1000PAR64WFL 120V	43499	3000	-	-	ExMogEndPr GX16d	4000	33,000	WFL	48 X 24	72 x 45	152.4	203.2	U	D	1053.24	6
1200	120	GFC 1200W 120V VNSP	88487	3200	-	GFC	ExMogEndPr GX16d	400	540,000	VNSP	8x10	14x16	152.4	203.2	U	D	1288.85	6



## PAR64



# Entertainment Lamps



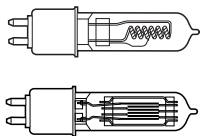
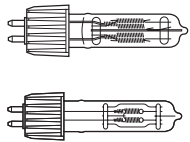
Watts	Volts	Cap / base	Description	Product code	Lumens	CCT (K)	LIF Code	ANSI Code	Life (h)	Length (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer qty
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## Single Ended Halogen - HPL (19 mm diameter)

375	115	G9.5/Heat Sink	HPL375-C 115V	88540	10,540	3050	-	-	300	106	U	C	418.52	12
375	115	G9.5/Heat Sink	HPL375-LL-C 115V	88539	8000	3200	-	-	1000	106	U	E	420.07	12
575	230	G9.5/Heat Sink	HPL 575W 230V	88478	14,900	3200	-	-	300	106	U	C	599.98	12
575	240	G9.5/Heat Sink	HPL 575W 240V	88477	14,900	3200	-	-	300	106	U	D	597.77	12
575	120	G9.5/Heat Sink	HPL 575-C 120V	88436	16,520	3250	-	-	300	106	U	C	594.55	12
575	115	G9.5/Heat Sink	HPL 575-C 115V	88438	16,520	3250	-	-	300	106	U	C	617.98	12
575	230	G9.5/Heat Sink	HPL 575W LL 230V	88476	11,780	3050	-	-	1500	106	U	D	594.48	12
575	240	G9.5/Heat Sink	HPL 575W LL 240V	88475	11,780	3050	-	-	1500	106	U	D	591.13	12
575	120	G9.5/Heat Sink	HPL 575-X LL-C 120V	88434	12,360	3050	-	-	2000	106	U	D	621.63	12
575	115	G9.5/Heat Sink	HPL 575-X LL-C 115V	88435	12,360	3050	-	-	2000	106	U	D	622.46	12
750	230	G9.5/Heat Sink	HPL 750W 230V	88474	19,750	3200	-	-	300	106	U	C	776.97	12
750	240	G9.5/Heat Sink	HPL 750W 240V	88473	19,750	3200	-	-	300	106	U	C	773.78	12
750	115	G9.5/Heat Sink	HPL 750-C 115V	88437	22,000	3250	-	-	300	106	U	C	819.39	12
750	115	G9.5/Heat Sink	HPL 750W-XLL-C 115V	88428	16,400	3050	-	-	2000	106	U	D	808.07	12
750	230	G9.5/Heat Sink	HPL 750W LL 230V	88430	15,600	3050	-	-	1500	106	U	D	771.10	12
750	240	G9.5/Heat Sink	HPL 750W LL 240V	88429	15,600	3050	-	-	1500	106	U	D	759.59	12

## Single Ended Halogen

575	115	G9.5	FLK 575W 115V G9.5	88548	16,500	3200	-	FLK	300	105	U	C	629.65	24
575	115	G9.5	HX601 FLK/LL 575W/115-120V	88452	10,000	3100	-	EHD	2000	105	U	D	611.86	50
575	115	G9.5	GLC 575W HP 115V	88423	14,500	3200	-	GLC	300	105	U	D	608.92	24
575	115	G9.5	GLA 575W HP 115V LL	88424	13,000	3050	-	GLA	1500	105	U	D	622.67	24
600	230	G9.5	GKV 600W 230V G9.5	88448	14,000	3200	-	GKV	250	105	U	C	584.62	24
600	240	G9.5	GKV 600W 240V G9.5	88447	14,000	3200	-	GKV	250	105	U	C	585.81	24
600	230	G9.5	GKV LL 230V 600W	88446	11,000	3000	-	GKV	1500	105	U	D	593.64	24
600	240	G9.5	GKV LL 240V 600W	88445	11,000	3000	-	GKV	1500	105	U	D	587.77	24
650	230-240	G9.5	FKR 230-240V	88450	15,000	3100	-	FKR	300	105	U	C	652.78	24
750	115	G9.5	GLE 115V	88426	17,400	3050	-	GLE	1500	105	U	D	817.20	24
750	120	G9.5	EHF Q750/4CL	88627	20,000	3200	-	EHF	300	105	U	C	804.03	24
750	120	G9.5	EHG Q750/CL/TP 750W 120V	88626	16,500	3000	-	FLK	300	105	U	E	801.44	24



### HPL

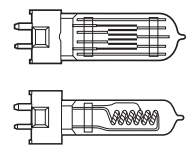
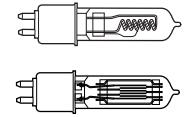
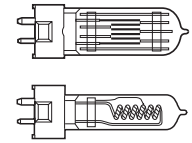


### GY9.5



# Theatre

Watts	Volts	Cap/ base	Description	Product code	Lumens	CCT [K]	LIF Code	ANSI Code	Life [h]	Length [mm]	Operating position	EEC	Energy Consumption [kWh]	Outer qty
800	230-240	G9.5	GKV 800W 230-240V	88432	20,000	3200	HX800	-	250	105	U	C	785.61	24
1000	120	G9.5	FEL Q1000/4CL 120V	88625	27,500	3200	CP77	FEL	300	105	U	C	1012.88	24
1000	230-240	G9.5	CP77 FEP 230- 240V	88449	25,000	3200	CP77	FEP	300	105	U	C	980.89	24
300	120	GY9.5	CP81 FKW 120V	88443	6900	3200	CP81	FKW	50	90	BDTH	D	322.92	24
300	230	GY9.5	CP81 FSL 230V	88433	6900	3200	CP81	FSL	150	90	BDTH	C	317.74	24
300	240	GY9.5	CP81 FSK 240V	88444	6900	3200	CP81	FSK	150	90	BDTH	D	290.29	24
500	120	GY9.5	CP82 FRG 120V	88467	13,000	3200	CP82	FRG	150	90	BDTH	C	541.56	24
500	230	GY9.5	CP82 FRH 230V	88466	12,500	3200	CP82	FRH	150	90	BDTH	C	519.00	24
500	240	GY9.5	CP82 FRJ 240V	88464	12,500	3200	CP82	FRJ	150	90	BDTH	C	523.78	24
500	230-240	GY9.5	T18 GCW 230- 240V	88465	11,000	3050	T18	GCW	400	90	BDTH	C	507.85	24
500	230-240	GY9.5	T25 230-240V	88470	11,000	3000	T25	GCW	360	90	BDTH	C	498.33	24
650	230-240	GY9.5	T27 230-240V	88469	14,500	3050	T27	GCS	400	90	BDTH	C	648.58	24
650	230-240	GY9.5	T26 GCS 230- 240V	88463	15,500	3100	T26	GCS	400	90	BDTH	C	662.84	24
650	120	GY9.5	CP89 FRK 120V	88462	16,900	3200	CP89	-	200	90	BDTH	C	722.27	24
650	230-240	GY9.5	CP89 FRM 230- 240V	88461	16,250	3200	CP89	FRM	150	90	BDTH	C	664.69	24
650	230-240	GX9.5	T12 230-240V	88431	13,500	3000	T12	-	750	110	BDTH	D	668.16	12
650	230	GX9.5	CP23 230V	72680	16,900	3200	CP23	-	100	110	BDTH	C	641.64	12
650	230-240	GX9.5	CP23 230-240V	88455	16,900	3200	CP23	-	100	110	BDTH	C	647.62	12
1000	230-240	GX9.5	CP24 230-240V	88459	26,000	3200	CP24	-	200	110	BDTH	C	1015.60	12
1000	115/120	GX9.5	T11 115-120V	88515	23,500	3050	T11	-	750	110	BDTH	D	1065.51	24
1000	230-240	GX9.5	T11 230-240V	88456	23,000	3050	T11	-	750	110	BDTH	C	1002.41	12
1000	230-240	GX9.5	T19 FWR 230-240V	88457	21,000	3050	T19	FWR	750	110	BDTH	D	991.31	12
1000	230	GX9.5	CP70 FVA 230V	88472	25,000	3200	CP70	FVA	200	110	BDTH	C	996.20	12
1000	240	GX9.5	CP70 FVA 240V	88471	25,000	3200	CP70	FVB	200	110	BDTH	C	996.80	12
1200	230-240	GX9.5	T29 FWT 230-240V	88454	29,000	3050	T29	FWT	400	110	BDTH	C	1193.38	12
1200	230-240	GX9.5	CP90 230-240V	88453	33,000	3200	CP90	-	200	110	BDTH	C	1187.33	12
2000	230	GY16	CP43 FTM 230V	96735	54,000	3200	CP43	FTM	400	145	BDTH	C	2014.80	12
2000	230-240	GY16	CP43 FTL 230-240V	88533	54,000	3200	CP43	FTL	400	145	BDTH	C	2024.69	12
2000	230-240	GY16	CP79 230-240V	88503	54,000	3200	CP79	-	350	145	BDTH	C	2034.10	12
2000	120	GY16	CP79 120V	88440	-	-	CP79	-	-	145	BDTH	C	2186.99	12
1200	80	G22	CP110 OC-1200 80V	88439	37,500	3300	-	-	300	140	BDTH	C	1303.38	12
500	120	G22	EGN 120V	88509	13,000	3200	-	EGN	150	140	BDTH	C	544.52	12
650	230-240	G22	CP39 FKH 230- 240V	88531	16,900	3200	CP39	FKH	100	140	BDTH	C	644.16	12
750	120	G22	EGR-Q750T7/4CL 120	88621	21,000	3200	-	EGR	200	127	BDTH	C	810.49	12
1000	120	G22	EGT-Q1000T7/4CL 120V	88622	28,500	3200	-	EGT	250	127	BDTH	C	1044.52	12



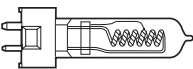
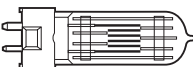
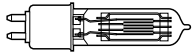
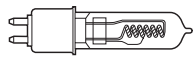
## GY16

## GY22



# Entertainment Lamps

## Theatre



Watts	Volts	Cap/ base	Description	Product code	Lumens	CCT (K)	LIF Code	ANSI Code	Life (h)	Length (mm)	Operating position	EEC	Energy Consumption (kWh)	Outer qty
1000	230	G22	CP40 FKJ 230V	88458	26,000	3200	CP40	FKJ	200	140	BDTH	C	1002.22	12
1000	240	G22	CP40 FKJ 240V	88538	26,000	3200	CP40	FKJ	200	140	BDTH	C	1008.77	12
1200	230-240	G22	CP93 230-240V	88508	33,000	3200	CP93	-	200	140	BDTH	C	1255.78	12
2000	120	G22	CP92 120V	88507	55,000	3200	CP92	-	400	175	BDTH	C	2151.38	12
2000	230-240	G22	CP92 230-240V	88506	52,000	3200	CP92	-	400	175	BDTH	C	2028.00	12
2500	230-240	G22	CP91 230-240V	88505	67,500	3200	CP91	-	400	175	BDTH	D	588.21	12
500	120	P28s	EGE-Q500/CL/P 120V	88617	10,450	2950	-	EGE	2000	152	U	D	546.37	12
500	120	P28s	BTM 120V	88546	13,000	3200	-	BTM	150	130	BDTH	C	542.61	12
500	120	P28s	BTL-Q500T6/CL/P 120V	88547	11,000	3000	-	BTL	500	133	BDTH	D	532.92	12
500	230-240	P28s	T17 FK 230- 240V	88498	9500	2950	T17	-	750	130	BDTH	D	504.08	12
500	230-240	P28s	T28 230-240V	88451	11,000	3000	T28	-	300	130	BDTH	C	510.97	12
650	230-240	P28s	T13 FKB 230- 240V	88497	13,500	3000	T13	-	750	130	BDTH	D	663.46	12
750	120	P28s	EGF-Q750/4CL/P 750W/120V	88618	20,400	3200	-	EGF	300	152	BDTH	C	801.78	12
750	120	P28s	EGG-Q750/CL/P120	88619	15,750	3000	-	EGG	2000	152	BDTH	E	801.25	12
750	120	P28s	BTN-Q750T7/CL/2P 120	88605	17,600	3050	-	BTN	500	121	BDTH	C	814.46	12
1000	230-240	P28s	T14 FK 230- 240V	88529	23,000	3050	T14	-	750	130	BDTH	C	1004.06	12
1000	230-240	P28s	FKE 230-240V	88499	23,000	3050	T15	FKE	750	160	BDTH	C	999.50	12
1000	230-240	P28s	CP52 FKN 230-240V	88496	26,000	3200	CP52	FKN	200	121	BDTH	C	1010.60	12
1000	120	P28s	BTR-Q1000T7/4CL/2P120	88607	28,500	3200	-	BTR	250	121	BDTH	C	1041.66	12
1000	120	P28s	EGK-Q1000/4/P 1000W/120V	88614	26,500	3200	-	EGK	300	152	BDTH	C	1067.31	12
1000	120	G38	CYV-Q1000T7/4CL/BP 1000W/120V	88630	28,500	3200	-	CYV	200	127	BDTH	C	1039.33	6
1500	120	G38	CXZ-Q1500T10/4CL 1500W/120V	88612	44,500	3200	-	CXZ	400	216	BDTH	C	1610.99	6
2000	120	G38	CYX-Q2000T10/4CL 120V	88610	59,000	3200	HX270	CYX	400	216	BDTH	C	2137.17	6
2000	230	G38	CP41 FKK 230V	88489	54,000	3200	CP41	FKK	400	216	BDTH	C	2020.00	12
2000	240	G38	CP41 FKK 240V	88488	54,000	3200	CP41	FKK	400	216	BDTH	C	2066.90	12
2500	230-240	G38	CP94 230-240V	88502	67,500	3200	CP94	-	400	210	BDTH	C	2507.19	12
3000	230-240	G38	HX48 230-240V	88874	82,000	3200	HX48	-	400	210	BDTH	C	2922.00	12
1000	120	E40	DKZ/DSE Q1000	19926	28,000	3200	-	DSE	750	330	U	C	995.43	10
2000	120	E40	BWF-Q2000/4CL 120V	88611	54,000	3200	-	BWF	500	191	BDTH	C	2134.31	6
2000	230-240	E40	CP59 230-240V	88512	16,500	3200	-	-	100	191	U	C	1959.30	1
1000	120	P40s	BVV-Q1MT7/4CL/MP	88631	28,500	3200	-	BVV	200	184	BDTH	C	1043.46	6
1000	120	P40s	BVT-Q1MT7/CL/MP 120V	88608	24,500	3050	-	BVT	500	184	BDTH	C	1051.41	6
1500	120	P40s	DTA 120V	88500	41,000	3200	T16	DTA	750	180	BDTH	C	1639.40	6
2000	120	P40s	BVW-Q2MT10/4CL/MP	88609	59,000	3200	-	BVW	350	215	BDTH	C	2134.31	6
2000	230-240	P40s	CP53 230-240V	88532	54,000	3200	CP53	-	400	200	BDTH	C	2066.04	12

P28s



P28s



P40s



G38

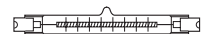
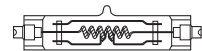
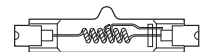
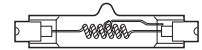


E40





Watts	Volts	Cap / base	Description	Product code	Lumens	CCT [K]	LIF Code	ANSI Code	Life [h]	Length [mm]	Operating position	EEC	Energy Consumption [kWh]	Outer qty
500	120	R7s	TU FDN Q500T3/4	23734	12,800	3200	P2/31	FDN	400	119	BDTH	C	545.90	12
500	120	R7s	TU FDF Q500T3/4CL	23735	13,250	3200	P2/30	DFD	400	119	BDTH	C	543.56	12
625	230	R7s	TU P2/10 Q625T3/4CL 220/230V	19697	16,900	3200	P2/10	-	300	189	HOR±15°	C	651.43	12
625	240	R7s	TU P2/10 Q625T3/4CL 240/250V	19698	16,900	3200	P2/10	-	300	189	HOR±15°	C	621.29	12
650	120	R7s	FAD Q650T4/CL P2/6	30325	16,500	3200	P2/6	FAD	100	80	U	C	675.27	24
750	120	R7s	TU EMD Q750T3/4	23755	19,500	3200	-	EMD	400	119	U	C	814.39	12
750	120	R7s	TU EJG Q750T3/4CL	23756	20,600	3200	-	EJG	400	119	HOR±15°	C	815.07	12
800	230	R7s	DXX800-T4-4CL 230V	36952	21,400	3200	P2/13	DXX	75	80	U	C	792.40	24
800	240	R7s	DXX 800-T4-4CL 240V	36953	21,400	3200	P2/13	DXX	75	80	U	C	788.20	24
800	240	R7s	TU P2/11 EME Q800T3/4CL 240V	23760	22,000	3200	P2/11	EME	150	119	HOR±15°	C	826.06	12
800	240	R7s	TU P2/11 EMF Q800T3/4	23761	21,400	3200	P2/11	EMF	150	119	HOR±15°	C	825.38	12
1000	120	R7s	DXW	30157	28,000	3200	-	DXW	150	95	U	C	1042.51	24
1000	120	R7s	TU FHM Q1000T3/4	23792	27,300	3200	P2/29	FHM	400	119	U	C	1083.85	12
1000	120	R7s	TU FFT Q1000T3/1CL	33280	26,400	3200	-	FFT	400	167	U	D	1087.56	12
1000	230	R7s	TU P2/7 EKM Q1MT3/4CL 220/230V	20249	28,000	3200	P2/7	EKM	300	189	HOR±15°	C	1013.60	12
1000	240	R7s	TU P2/7 EKM Q1MT3/4CL 240/250V	20253	28,000	3200	P2/7	EKM	300	189	HOR±15°	C	1007.20	12
1000	120	R7s	TU FCM P2/28 Q1000T3/4CL	23797	28,000	3200	P2/28	FCM	400	119	HOR±15°	C	1081.09	12
1250	230	R7s	TU P2/12 Q1250T3/4CL 220/230V	19695	35,000	3200	P2/12	-	300	189	HOR±15°	C	1286.30	12
1250	240	R7s	TU P2/12 Q1250T3/4CL 240/250V	19696	35,000	3200	P2/12	-	300	189	HOR±15°	C	1281.60	12
2000	230	R7s	P2/27 FEX 230V	88482	50,000	3200	P2/27	FEX	300	143	HOR±15°	C	1965.54	12
2000	240	R7s	P2/27 FEX 240V	88481	50,000	3200	P2/27	FEX	300	143	HOR±15°	C	1975.92	12
2000	120	R7s	FEY Q2000 T8/4CL	88629	57,000	3200	P2/27	FEY	400	143	HOR±15°	C	2175.97	12



R7s



# Entertainment Lamps

## Other applications

Watts	Volts	Cap / base	Description	Product code	Lumens	CCT [K]	Life [h]	Candela	BEAM TYPE	Beam 10%	Beam 50%	MP8C	Length [mm]	Operating position	EEC	Energy Consumption [kWh]	Outer qty
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### CSS

140	85	GY9.5	CSS150/CAP/50	88485	9,000	5000	1000	-	48	22	30	-	48	VBD±90	A	154.00	10
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### CSI/CID

400	100	Special	CSI400 99-0201	88495	32,000	4000±400	500	-	-	-	-	-	55	VBD±90	A	440.00	1
400	100	Special	CSI400/G22 99-0202	88412	32,000	4000±400	500	-	-	-	-	-	87	VBD±90	C	440.00	1
1000	80	G22	CSI1000/G22 99-02	88494	90,000	4000±400	500	-	-	-	-	-	115	VBD±90	A+	1100.00	1
1000	80	G38	CSI1000/PAR64/G38	88514	76,000	3800±500	3500	-	-	18	6	1,350,000	175	U	C	1100.00	1
1000	80	G38	CSI1000/PAR64/HR/G38 99-1422	88513	76,000	3800±500	3500	-	-	18	6	1,350,000	175	U	C	1100.00	1
1000	80	G22	CID1000/G22 99-0222	88493	70,000	5500±400	500	-	-	-	-	-	115	BDTH	A	1100.00	1

Watts	Volts	Cap / base	Description	Product code	Lumens	CCT [K]	LIF Code	ANSI Code	Life [h]	Application	Length [mm]	Operating position	EEC	Energy Consumption [kWh]	Outer qty
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### Specialist Projector

100	12	GY6.35	FCR A1/215 12V	14876	3500	3300	A1/215	FCR	50	-	44	BDTH	B	113.83	100
150	24	G6.35	FCS A1/216 24V Q150/G6.35-15	13598	4500	3300	A1/216	FCS	50	-	51	BDTH	B	166.07	100
250	24	G6.35	EHJ A1/223 24V Q250/G-15	14874	9000	3400	A1/223	EHJ	50	-	57	BDTH	B	273.13	100
150	230-240	G6.35	A1/248 230-240V	88492	3000	-	A1/248	-	50	-	62	BDTH	D	152.55	50
300	230-240	G6.35	A1/249 230-240V	88491	7200	-	A1/249	-	50	-	62	BDTH	C	300.35	50
500	230-240	GY9.5	A1/244 230-240V	88460	13,000	-	A1/244	-	75	-	62	BDTH	C	507.25	24

### CSI/CID

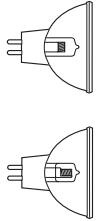




# Other applications

Watts	Volts	Cap/ base	Description	Product code	Lumens	CCT [K]	LIF Code	ANSI Code	Life [h]	Application	Length [mm]	Operating position	EFC	Energy Consumption [kWh]	Outer qty
<b>Single Ended Tungsten Halogen</b>															
250	24	G6.35	M36 24V 250W GY6.35	88516	5750	3000	M36	-	2000	-	58	BDTH	C	270.07	100
300	230-240	GY9.5	M38 230-240V	88442	5000	2900	M38	-	2000	-	80	BDTH	E	297.52	24
300	120	GY9.5	M38 120V	78343	5500	2900	M38	-	2000	-	80*	BDTH	E	322.43	24
500	230-240	GY9.5	M40 230-240V	88468	8500	2900	M40	-	2000	-	85	BDTH	E	495.25	24
<b>Multi-Mirror® Quartzline® Projection – MR11</b>															
28	13.8	GZ4	FLT 13.8 28W	25261	-	3050	-	FLT	500	Microfilm	-	BDTH	B	29.53	10
<b>Multi-Mirror® Quartzline® Projection – MR16</b>															
50	12	GX5.3	ENL	25475	-	3050	-	ENL	4000	Fibre optics, Enlarger & Printer, Equipment, Colour printer	-	BDTH	B	53.04	10
85	13.8	GX5.3	DED 13.8V	43950	-	3150	-	DED	1000	Microfilm	-	BDTH	C	90.10	20
150	20	GX5.3	DDL 20V 150W MR16	43537	-	3150	-	DDL	500	Microfilm	-	BDTH	B	147.87	20
150	21	GX5.3	EKE 21V	35200	-	3250	-	EKE	200	8mm projection	-	BDTH	B	159.68	20
250	24	GX5.3	ELC A1/259 24V	37462	-	3400	A1/259	ELC	50	16mm, Colour printer	-	BDTH	B	263.37	20
250	24	GY5.3	ELC / 500 24V 250W	15377	-	3250	-	ELC500	500	Disco	-	BDTH	B	260.77	20
360	82	GY5.3	ENX	41705	-	3300	-	ENX	75	Overhead projection	-	BDTH	B	389.85	10
42	10.8	GX5.3	EPT 10.8V	41729	-	2900	-	EPT	8000	Fibre optics	-	BDTH	B	45.07	20

\*Diameter 24mm



## Multi-Mirror® Quartzline® Projection



## Compliance and warnings



Special purpose lamps.  
Not suitable for household illumination.

## DISCHARGE Compliance

### Standards

- IEC 60061-1: Lamp Caps and Holders together with Gauges for the Control of Interchangeability and Safety – Part 1: Lamp Caps
- CIE S 009/E:2002: Photobiological Safety of Lamps and Lamp Systems

### Directives

- CE mark: Directive 73/23/EEC, 2004/108/EC and 2006/95/EC
- RoHS II: Directive 2011/65/EU on the Restriction of the use of certain Hazardous Substances
- REACH: Directive 2006/1907/EC on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- Hg: Directive 2002/96/EC (WEEE) Article 10 (3)
- UN2911: IAEA Pub 1384-2009 Safety Sec 544 (d)
- Der Grüne Punkt: Directive 94/62/EC Packaging and Packaging Waste

## Warning

### Risk of electric shock

- Turn power off before inspection, installation or removal
- Use with enclosed fixture only

### Risk of fire

- Keep combustible materials away from lamp
- Use in enclosed fixture rated for this product

### Lamp emits UV radiation which may cause eye/skin injury. RG-3

- Avoid exposure of eyes and skin to unshielded lamp

### Unexpected lamp rupture may cause injury, fire, or property damage

- Do not exceed rated wattage or voltage
- Do not touch glass with bare hands
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Use only properly rated ballast
- Operate lamp only in specified position
- Do not store flammable materials near/below lamp
- Do not use beyond rated life
- Do not turn on lamp until fully installed

## Caution

### Risk of burn

- Allow lamp to cool before handling
- Do not turn on lamp until fully installed

### Lamp may shatter and cause injury if broken

- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container
- Do not use excessive force when installing lamp

### Cut hazard - possible jagged glass

- Wear gloves when handling
- Do not stare at light source. May be harmful to the eyes.
- Lamp contains mercury. Manage in accord with disposal laws

# HALOGEN

## Compliance

### Standards

- IEC60061-1 Lamp caps and holders together with gauges for the control of interchangeability and safety – Part 1: Lamp Caps
- IEC60432-3 Incandescent lamps - Safety specifications - Part 3: Tungsten-halogen lamps (non-vehicle)
- CIE S 009:2002 Photobiological safety of lamps and lamp systems

### Directives

- Safety (LVD): 2006/95/EC
- RoHS: Directive 2011/65/EU on Restrictions of the use of certain Hazardous Substances (RoHS)
- REACH: Directive 453/2010/EC on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
- ErP household: Directive 2009/125/EC on ecodesign requirements (of Energy-related Products) and its Implementing Measure for non-directional Household Lamps: 244/2009/EC

## Warning

These lamps are not intended for household room illumination. Their intended purpose is Stage/Studio lighting.

### Risk of electric shock

- Turn power off before inspection, installation or removal

### Risk of fire

- Keep combustible materials away from lamp
- Use in fixture rated for this product

### Pressurised lamp - unexpected rupture may cause injury, fire, or property damage

- Do not exceed 110% of rated voltage
- Do not touch glass with bare hands
- Use in enclosed fixture rated for this product
- Do not use lamp if outer glass is scratched or broken
- Operate lamp only in specified position

## Caution

### Risk of burn

- Allow lamp to cool before handling
- Turn power off before installing lamp

### Lamp emits UV radiation, IR and blue light which may cause eye/skin irritation. RG-2

- Limit unshielded exposure to less than 15 minutes per day
- Optical elements of the fixture may concentrate UV, blue light and IR radiation of the lamp. Do not stare in the direct light

### Lamp may shatter and cause injury if broken

- Wear safety glasses and gloves when handling lamp
- Do not use lamp if outer glass is scratched or broken
- Dispose of lamp in a closed container



# Architectural LED Solutions



## LEDs you can trust

**More than 15 years** of experience in designing and manufacturing high quality LED solutions

**Up to 40%** energy savings

**Up to 50,000 hours** of reliable light

**Reduced** maintenance costs

**Outstanding** and uniform performance over system life

**Easy** installation



Hospitality



Architectural



Bridges



Tower Bridge, London, UK



## LED Accent

Add additional lighting layers to highlight your spaces with GE LED Accent Lighting. Decorate objects, trim or accent pieces by skirting with even light uniformity and colour consistency. These low profile LED lighting modules work in harmony with other lighting elements and structures to provide subtle emphasis and drama to indoor design elements.



- Uniform light distribution
- Consistent colour with 3 step MacAdam ellipse binning
- Cut between every module for the right length
- Modular, low-voltage 12VDC system for easy installation
- Dimmable with GE 0-10V Dimming LED Driver or GE Dimming Module with GE LED Driver and compatible dimming controller
- IP54, dry or damp location rated
- Optional linear track for straight alignment
- Can be mounted at 0° or 30°

## LED Cove

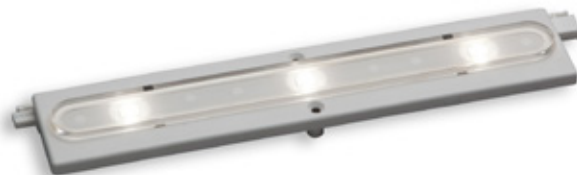


GE LED Cove provides a uniform light that can be used to draw attention to large areas and emphasise textures on vertical surfaces. Evenly distributes light over the ceiling and the upper part of walls & ceiling. Typically mounted in a cove recess.



- Precise use of light output and eliminates the socket shadows that is common when using fluorescent fixtures
- 0-10V dimmable (as low as 3%)
- Consistent colour with 3-step MacAdam ellipse colour binning
- Available in 110 degree beam angle
- IP20 rated

## Tetra AL10



This linear LED system combines versatility with superb quality of light. High colour rendering (93 CRI) and consistent colour temperatures enable it to meet the high standards of the lighting industry. Replacing fluorescent technology in a variety of retail and architectural applications, this slim and modular fixture offers multiple lengths, beam angles and mounting angles – making it easy to incorporate into a wide array of designs.

Backed by GE's reputation for LED reliability, this robust, low-voltage system is rated to perform to 50,000 hours – reducing material and labour expenses associated with fluorescent relamping. Combined with reduced energy consumption – up to 40% compared to T5 fluorescent – Tetra AL10 lowers operating costs significantly.



- Slimline
- High colour rendering
- Multiple colour temperatures (warm & neutral)
- High light levels
- Low energy consumption
- 2 fixture lengths that can be combined
- Multiple beam angles
- Multiple viewing angles
- Low weight
- Long rated life of 50,000 hours
- Low-voltage 12VDC system
- Fully dimmable: 0-10V
- No UV or IR light emitted
- Contains no lead, mercury or glass – RoHS compliant
- 5 year warranty

## Tetra® Contour

Tetra® Contour consists of a flexible LED light engine and a rigid, optically diffused light guide that can be heat formed to fit a variety of architectural needs. With a variety of colours to choose from, designers can mix and match components to create bold designs and attractive accent lighting without the typical worries of working with fragile neon glass.

Tetra® Contour is ideal for external border lighting, interior art, cove and accent lighting.



- Up to 40% more energy efficient than neon
- Low-voltage 24VDC system
- Dimmable with GE 0-10V Dimming Driver or GE Dimming Module and compatible dimming controller
- Contains no lead, mercury or glass – RoHS compliant
- Long rated life of 50,000 hours
- Multiple ANSI bin colour temperatures: red, green, blue, white & warm white
- Light guide colours: red, green, blue, white & clear
- 5 year warranty
- IP66 system rating with light guide

# Crowne Plaza Doha, Qatar

## Our Customer

With more than 4,400 properties in over 100 countries, Intercontinental Hotels Group (IHG) has some of the best-known hotel brands in the world. From the iconic family hotel, Holiday Inn, to the luxurious Crowne Plaza Doha, IHG brands are some of the most respected hotels in the industry.

## The Challenge

The team at IHG needed the exterior lighting of the hotel to be of the highest quality to complement the stunning glass facade of the buildings. At the same time, given the location of the hotel in Qatar, on the coast of the Persian Gulf where temperatures can reach heights of up to 40°C, exterior lighting has to withstand extremely high temperatures and provide a long service life to extend maintenance cycles.

## Our Solution

IHG partnered with local design firm Nouran concept and GE Lighting, and specified 2,400 metres of its Tetra Contour LED Lighting System in blue, red and warm white colour. The LED Tetra Contour is a flexible LED light engine that can be moulded on site to fit the shape of architectural features. GE's LED system was the ideal solution for the Crowne Plaza Doha due to its performance as well as aesthetic benefits.

### Key benefits

- The system provides energy saving up to 40% compared to neon lighting
- 330 degree beam angle creates the warm "glow" associated with neon
- Weather resistant
- Rated life of over 50,000 hours



## Tower Bridge, London, UK

### Our Customer

The creation of architect Sir Horace Jones and civil engineer Sir John Wolfe-Barry, Tower Bridge is arguably one of London's most famous and widely recognised landmarks. It took eight years to complete and was officially opened on 30 June 1894. The extensive restoration and refurbishment of Tower Bridge was completed in time for the London Olympics 2012 and the Queen's Jubilee celebrations.

### The Challenge

The new lighting scheme was integral to the overall project and as a listed monument, required detailed planning to ensure the aesthetics of the bridge were not altered but merely enhanced. Also, as GE was a London 2012 Sustainability Partner, a key objective of the new lighting scheme was to help improve energy efficiency.

### Our Solution

More than 2 km of GE Lighting's Tetra Contour architectural LED lighting was installed on the stone and metal work of the bridge. Supplied in 2.44 m lengths, it takes the form of a flexible LED light engine that can be moulded on site to fit the shape of architectural features. Controls have also been installed enabling the mood of the lighting to be changed to suit different occasions. GE Lighting's 90W LED Floodlights, together with other lamps and fixtures, have also been installed on and around Tower Bridge, as direct replacements for the old and inefficient system.

### Key benefits

- The system provides energy saving up to 40% compared to neon lighting
- 330 degree beam angle creates the warm "glow" associated with neon
- Weather resistant
- Rated life of over 50,000 hours



## Tetra® Powergrid

Tetra® PowerGrid is a modular LED system that replaces fluorescent in backlighting applications that require broad, uniform lighting. This unique LED system provides long life, energy efficiency and brilliant, uniform light across a variety of backlit applications.



- Uniform light distribution through specialised optic
- Consistent colour with 3 step MacAdam ellipse binning
- Cut between every module for the right length
- Modular, low-voltage 24VDC system for easy installation
- Dimmable with GE 0-10V Dimming LED Driver or GE Dimming Module with GE LED Driver and compatible dimming controller
- IP54, dry or damp location rated

LED Accent



LED Cove



Tetra® AL10



Tetra® Contour



Tetra® Powergrid

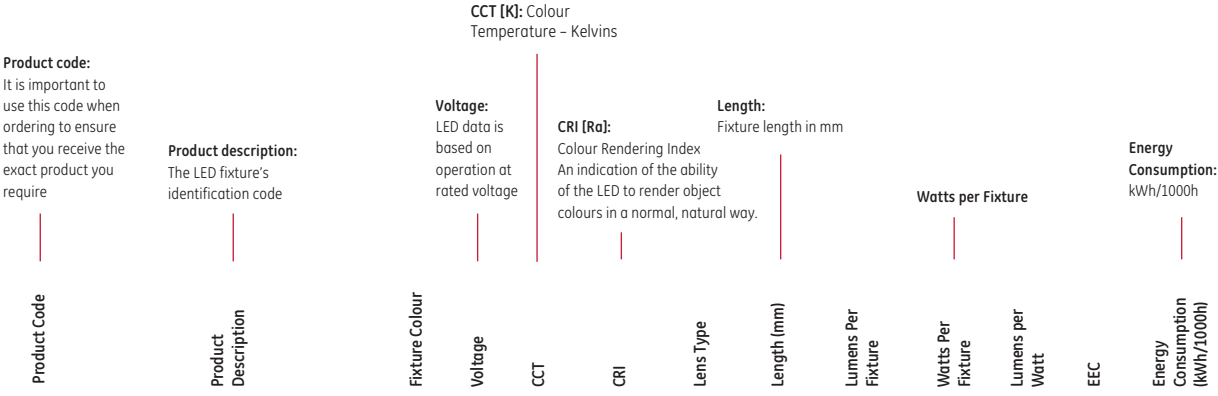


This product is intended solely for the use of non-residential architecture lighting and is not intended for use in any other applications.



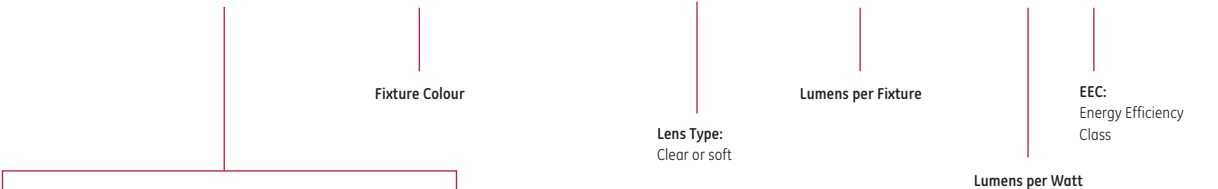
# Product identification

The following glossary of terms will help you when selecting LED fixtures in this section. Within each product line, LEDs are divided into families – within these families, LEDs are listed by wattage. The Product Description can be used as a quick reference to each product’s attributes.



## Tetra® AL10

78867	LPL-W18-060C-927	White	12	2700	93	60° clear	460	290	6.8	43	A	7.48
78858	LPL-W09-090C-927	White	12	2700	93	90° clear	230	145	3.4	43	A	3.74
78874	LPL-W18-120C-927	White	12	2700	93	120° clear	460	290	6.8	43	A	7.48



**Lens Type**  
Clear=C, Soft=D

**Lens viewing angle**  
60°=060, 90°=090, 120°=120

**CCT**  
2700K=27, 3000K=30, 4000K=40

**LPL-W09-060C-927**

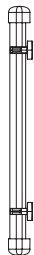
**Length**  
230mm=09, 460mm=018

**CRI**  
High>93=9

**Body Colour**  
W=White, G=Grey

Internal GE Reference Code

# Architectural LED Solutions



Bulk Pack Product Code	Bulk Pack Qty	Single Pack Product Code	Product Description	Colour	Wavelength/ Colour Temp	Viewing Angle (light engine)	Viewing Angle* (light engine w/ light guide)	Lumens per metre (light engine)	Lumens per metre (light engine w/ light guide)	Watts per metre (light engine)	Watts per metre (system)	EEC	Energy Consumption (kWh/1000h)
75481	12	62500	TETRA CONTOUR RED LED LIGHT ENGINE	Red	625nm	110	330	194	154	10.63	12.5	C	25.95
75484	6	62502	TETRA CONTOUR GREEN LED LIGHT ENGINE	Green	532nm	110	330	331	180	9.45	11.12	B	23.06
75485	6	62503	TETRA CONTOUR BLUE LED LIGHT ENGINE	Blue	467nm	110	330	75	62	9.45	11.12	N/A	N/A
75487	6	62488	TETRA CONTOUR LED LIGHT ENGINE 2700K	White	2700K	110	330	351	230	9.45	11.12	B	23.06
75488	6	62489	TETRA CONTOUR LED LIGHT ENGINE 3000K	White	3000K	110	330	384	249	9.45	11.12	B	23.06
75489	6	62491	TETRA CONTOUR LED LIGHT ENGINE 3500K	White	3500K	110	330	410	266	9.45	11.12	B	23.06
75490	6	62490	TETRA CONTOUR LED LIGHT ENGINE 4000K	White	4000K	110	330	430	279	9.45	11.12	B	23.06
75493	6	62492	TETRA CONTOUR LED LIGHT ENGINE 5000K	White	5000K	110	330	512	331	9.45	11.12	B	23.06
75486	6	62493	TETRA CONTOUR LED LIGHT ENGINE 6500K	White	6500K	110	330	472	308	9.45	11.12	B	23.06

Product Code	Pack Qty	Product Description
<b>Tetra® Contour Accessories</b>		
75529	12	TETRA CONT RED LIGHT GUIDE
75531	20	TETRA CONT RED LIGHT GUIDE END CAP
75530	20	TETRA CONT RED LIGHT GUIDE CONNECTOR
75495	20	TETRA CONT LIGHTGUIDE RED 90° INSIDE CORNER
75496	20	TETRA CONT LIGHTGUIDE RED 90° OUTSIDE CORNER
75497	20	TETRA CONT LIGHTGUIDE RED 90° PLANAR CORNER
75521	12	TETRA CONT GREEN LIGHT GUIDE
75523	20	TETRA CONT GREEN LIGHT GUIDE END CAP
75522	20	TETRA CONT GREEN LIGHT GUIDE CONNECTOR
75505	20	TETRA CONT LIGHTGUIDE GREEN 90° INSIDE CORNER
75503	20	TETRA CONT LIGHTGUIDE GREEN 90° OUTSIDE CORNER
75502	20	TETRA CONT LIGHTGUIDE GREEN 90° PLANAR CORNER
75526	12	TETRA CONT BLUE LIGHT GUIDE
75535	20	TETRA CONT BLUE LIGHT GUIDE END CAP
75527	20	TETRA CONT BLUE LIGHT GUIDE CONNECTOR
75500	20	TETRA CONT LIGHTGUIDE BLUE 90° INSIDE CORNER
75501	20	TETRA CONT LIGHTGUIDE BLUE 90° OUTSIDE CORNER
75504	20	TETRA CONT LIGHTGUIDE BLUE 90° PLANAR CORNER
75541	12	TETRA CONTOUR LIGHT GUIDE - WHITE
75532	20	TETRA CONTOUR END CAP - WHITE
75533	20	TETRA CONTOUR CONNECTOR - WHITE
75507	20	TETRA CONT LIGHTGUIDE WHITE 90° INSIDE CORNER
75499	20	TETRA CONT LIGHTGUIDE WHITE 90° OUTSIDE CORNER
75511	20	TETRACONT LIGHTGUIDE WHITE 90° PLANAR CORNER
62186	12	TETRA CONTOUR CLEAR LIGHT GUIDE
75612	1	0-10V Dimming Module; use with non-dimming GE LED Driver
75514	1	MINIMAX SUPPLY WIRE, 154.2m of 18 AWG Supply Wire (0.82mm <sup>2</sup> )
75494	20	WEATHER BOX -PAINTABLE
75537	12	Tetra Contour Silicone Bend-Aid (Reusable) 406mm
75520	50	Tetra Contour Light Guide Mounting Clip
75498	20	Tetra Contour Light Engine Mounting Clip



Light Guide Connector



Weather Box



Light Guide End Caps



Light Guide Bend-Aid



Light Guide Corners



Mounting Clips



Supply Wire



Light Guide



Product Code	Pack Qty	Product Description	Full Product Description
98603	10	GEPS24-20 PS 24VDC/20W	LED Driver (24VDC/20W) Input Voltage: 96-264VAC, Damp Location Rated
67825	10	GEPS24-100UGL-IP	LED Driver (24VDC/100W) Input Voltage: 108-305VAC, Damp Location Rated
62189	1	GE180/MV/V24T1-C LED DRIVER	LED Driver (24VDC/180W) Input Voltage: 90-305VAC, Damp Location Rated
79045	1	GE080/MV/D24T1-A LED DIM DRIVER 0-10V	0-10V Dimming LED Driver (24VDC/80W): Input Voltage 90-305VAC: Damp Location Rated
75612	1	TETRA DIMMING MODULE	0-10V Dimming Module: use with non-dimming GE LED Driver

## Tetra® Contour Drivers

Product Code	Product Description	Fixture Colour	Pack Qty	Voltage	CCT	CRI	Lens Type	Length (mm)	Lumens Per Fixture	Watts Per Fixture	Lumens per Watt	EEC	Energy Consumption (kWh/1000h)
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## Tetra® AL10

78867	LPL-W18-060C-927	White	10	12	2700	93	60° clear	460	290	6.8	43	A	7.48	*
78858	LPL-W09-090C-927	White	10	12	2700	93	90° clear	230	145	3.4	43	A	3.74	*
78874	LPL-W18-120C-927	White	10	12	2700	93	120° clear	460	290	6.8	43	A	7.48	*
78878	LPL-W18-120D-927	White	10	12	2700	93	120° soft	460	290	6.8	43	A	7.48	
78864	LPL-W09-120D-927	White	10	12	2700	93	120° soft	230	145	3.4	43	A	3.74	
78868	LPL-W18-060C-930	White	10	12	3000	93	60° clear	460	290	6.8	44	A	7.48	
78856	LPL-W09-060C-930	White	10	12	3000	93	60° clear	230	145	3.4	44	A	3.74	*
78872	LPL-W18-090C-930	White	10	12	3000	93	90° clear	460	290	6.8	44	A	7.48	
78859	LPL-W09-090C-930	White	10	12	3000	93	90° clear	230	145	3.4	44	A	3.74	*
78875	LPL-W18-120C-930	White	10	12	3000	93	120° clear	460	290	6.8	44	A	7.48	
78862	LPL-W09-120C-930	White	10	12	3000	93	120° clear	230	145	3.4	44	A	3.74	*
78879	LPL-W18-120D-930	White	10	12	3000	93	120° soft	460	290	6.8	44	A	7.48	
78865	LPL-W09-120D-930	White	10	12	3000	93	120° soft	230	145	3.4	44	A	3.74	*
78870	LPL-W18-060C-940	White	10	12	4000	93	60° clear	460	290	6.8	47	A	7.48	
78857	LPL-W09-060C-940	White	10	12	4000	93	60° clear	230	145	3.4	47	A	3.74	*
78873	LPL-W18-090C-940	White	10	12	4000	93	90° clear	460	290	6.8	47	A	7.48	
78860	LPL-W09-090C-940	White	10	12	4000	93	90° clear	230	145	3.4	47	A	3.74	*
78877	LPL-W18-120C-940	White	10	12	4000	93	120° clear	460	290	6.8	47	A	7.48	
78863	LPL-W09-120C-940	White	10	12	4000	93	120° clear	230	145	3.4	47	A	3.74	*
78880	LPL-W18-120D-940	White	10	12	4000	93	120° soft	460	290	6.8	47	A	7.48	
78866	LPL-W09-120D-940	White	10	12	4000	93	120° soft	230	145	3.4	47	A	3.74	*
78881	LPL-G09-060C-927	Grey	10	12	2700	93	60° clear	230	145	3.4	43	A	3.74	*
78890	LPL-G09-120D-927	Grey	10	12	2700	93	120° soft	230	145	3.4	43	A	3.74	*
78897	LPL-G18-090C-930	Grey	10	12	3000	93	90° clear	460	290	6.8	44	A	7.48	*
78885	LPL-G09-090C-930	Grey	10	12	3000	93	90° clear	230	145	3.4	44	A	3.74	*

\*While stock lasts

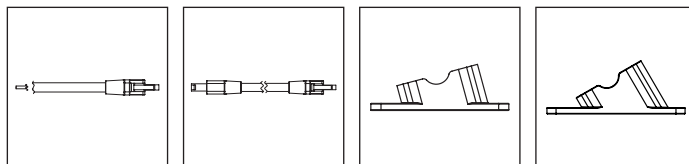


# Architectural LED Solutions

Product Code	Pack Qty	Product Description	Full Product Description
<b>Tetra® AL10 Accessories</b>			
78905	5	LC-36	Leader Cable 914 mm
78906	5	LC-120	Leader Cable 3048 mm
78907	5	JC-12	Jumper Cable 305 mm
78908	5	JC-72	Jumper Cable 1829 mm
78909	20	MB-W15	Mounting Bracket - White 15° Angle
78910	20	MB-W30	Mounting Bracket - White 30° Angle
78911	20	MB-G15	Mounting Bracket - Grey 15° Angle**
78912	20	MB-G30	Mounting Bracket - Grey 30° Angle**
62814	20	LPL-MAGNET.MOUNTING.BRACKET (WHITE.0	0 degree magnetic mounting bracket
62187	10	LPL-MT W/SHIELD [36.00]	Mounting Track with a 36 degree light shield

\*\*Available while Grey Fixtures stocks last

Product Code	Pack Qty	Product Description	Full Product Description
<b>Tetra® AL10 Drivers</b>			
67824	1	GEPS12-60UGL-IP	LED Driver 12V 60W
74914	1	GE020/G/V12T1-B	LED Driver 12V 20W
75612	10	TETRA DIMMING MODULE	TETRA DIMMING MODULE 12-24V, 0-10V DC
79044	10	GE060/MV/D12T1-A LED DIM DRIVER 0-10V	LED Driver 12V 60W



Leader Cable      Jumper Cable      15° Mounting Bracket      30° Mounting Bracket

Product Code	Pack Qty	Product Description	Input Voltage	CCT	+/- CCT	Module Lumen	LPW	CRI	Wattage per M	Length mm	Lens Type	IP Rating	Lumens per Metre
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## LED Cove

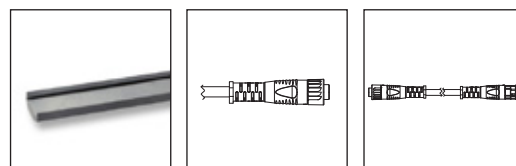
13673	10	LWW2-MO12-110-827	220-240VAC 50Hz	2700	+90/-55	350	70	80	18.5	316	100° soft	IP20	1094
13684	10	LWW2-MO12-110-840	220-240VAC 50Hz	4000	+104/-170	400	80	80	18.5	316	100° soft	IP20	1250
13675	10	LWW2-HO12-110-827	220-240VAC 50Hz	2700	+90/-88	630	63	80	31.6	316	100° soft	IP20	1969



Product Code	Product Description	Full Product Description
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## LED Cove Accessories

13687	LWW2-LC1-120	3048 mm (120") Leader Cable 1/PK
13690	LWW2-JC1-12	1219 mm (48") Jumper Cable 1/PK
13691	LWW2-JC1-48	305 mm (12") Jumper Cable 1/PK
65467	LWW1-MT48/0	1219 mm (48") Mounting Track 10/PK



Track      Leader Cable      Jumper Cable

The images are guide only, see detailed data sheet. New range available late 2015.



Product Code	Pack Qty	Product Description	Input Voltage	CCT	Wattage [W]	Lumens per Fixture [ft/m]	Min. LPW	CRI	Length [mm]	Lens Type	Application	IP Rating
10739	10	LLWSOB004CV827VQTMWWHITE	120V -277VAC/50Hz/60Hz	2700	5.0W	380 (367/1203)	76	80	320	100° soft	Cove	IP20
10740	10	LLWSOB004CV830VQTMWWHITE	120V -277VAC/50Hz/60Hz	3000	5.0W	420 (405/1329)	84	80	320	100° soft	Cove	IP20
10741	10	LLWSOB004CV835VQTMWWHITE	120V -277VAC/50Hz/60Hz	3500	5.0W	420 (405/1329)	84	80	320	100° soft	Cove	IP20
10747	10	LLWSOB004CV840VQTMWWHITE	120V -277VAC/50Hz/60Hz	4000	5.0W	430 (415/1361)	86	80	320	100° soft	Cove	IP20
10750	10	LLWHOB004CV827VQTMWWHITE	120V -277VAC/50Hz/60Hz	2700	5.0W	380 (367/1203)	76	80	320	100° soft	Cove	IP20
10754	10	LLWHOB004CV830VQTMWWHITE	120V -277VAC/50Hz/60Hz	3000	5.0W	420 (405/1329)	84	80	320	100° soft	Cove	IP20
10758	10	LLWHOB004CV835VQTMWWHITE	120V -277VAC/50Hz/60Hz	3500	5.0W	420 (405/1329)	84	80	320	100° soft	Cove	IP20
10763	10	LLWHOB004CV840VQTMWWHITE	120V -277VAC/50Hz/60Hz	4000	5.0W	430 (415/1361)	86	80	320	100° soft	Cove	IP20
10785	10	LLWSOB004WW827VQTMWWHITE	120V -277VAC/50Hz/60Hz	2700	5.0W	380 (367/1203)	76	80	320	30° x 80°	Wall Washer	IP20
10787	10	LLWSOB004WW830VQTMWWHITE	120V -277VAC/50Hz/60Hz	3000	5.0W	420 (405/1329)	84	80	320	30° x 80°	Wall Washer	IP20
10789	10	LLWSOB004WW835VQTMWWHITE	120V -277VAC/50Hz/60Hz	3500	5.0W	420 (405/1329)	84	80	320	30° x 80°	Wall Washer	IP20
10801	10	LLWSOB004WW840VQTMWWHITE	120V -277VAC/50Hz/60Hz	4000	5.0W	430 (415/1361)	86	80	320	30° x 80°	Wall Washer	IP20
10861	10	LLWHOB004WW827VQTMWWHITE	120V -277VAC/50Hz/60Hz	2700	8.0W	650 (627/2057)	81	80	320	30° x 80°	Wall Washer	IP20
10862	10	LLWHOB004WW830VQTMWWHITE	120V -277VAC/50Hz/60Hz	3000	8.0W	730 (704/2310)	91	80	320	30° x 80°	Wall Washer	IP20
10864	10	LLWHOB004WW835VQTMWWHITE	120V -277VAC/50Hz/60Hz	3500	8.0W	730 (704/2310)	91	80	320	30° x 80°	Wall Washer	IP20
10867	10	LLWHOB004WW840VQTMWWHITE	120V -277VAC/50Hz/60Hz	4000	8.0W	750 (723/2373)	94	80	320	30° x 80°	Wall Washer	IP20
10868	10	LLWSOB004GZ827VQTMWWHITE	120V -277VAC/50Hz/60Hz	2700	8.0W	650 (627/2057)	81	80	320	15° x 80°	Wall Grazer	IP20
10869	10	LLWSOB004GZ830VQTMWWHITE	120V -277VAC/50Hz/60Hz	3000	8.0W	730 (704/2310)	91	80	320	15° x 80°	Wall Grazer	IP20
10888	10	LLWSOB004GZ835VQTMWWHITE	120V -277VAC/50Hz/60Hz	3500	8.0W	730 (704/2310)	91	80	320	15° x 80°	Wall Grazer	IP20
10889	10	LLWSOB004GZ840VQTMWWHITE	120V -277VAC/50Hz/60Hz	4000	8.0W	750 (723/2373)	94	80	320	15° x 80°	Wall Grazer	IP20
10892	10	LLWHOB004GZ827VQTMWWHITE	120V -277VAC/50Hz/60Hz	2700	8.0W	650 (627/2057)	81	80	320	15° x 80°	Wall Grazer	IP20
10895	10	LLWHOB004GZ830VQTMWWHITE	120V -277VAC/50Hz/60Hz	3000	8.0W	730 (704/2310)	91	80	320	15° x 80°	Wall Grazer	IP20
10899	10	LLWHOB004GZ835VQTMWWHITE	120V -277VAC/50Hz/60Hz	3500	8.0W	730 (704/2310)	91	80	320	15° x 80°	Wall Grazer	IP20
10901	10	LLWHOB004GZ840VQTMWWHITE	120V -277VAC/50Hz/60Hz	4000	8.0W	750 (723/2373)	94	80	320	15° x 80°	Wall Grazer	IP20

Performance data is subject to amendment

Product Code	Pack Qty	Product Description	Full Product Description
10902	1	LWW2-LC2-120	GE LED Wall Washer, Leader Cable, 120in.(3048mm) With One End Cap
10903	1	LWW2-JC2-12	GE LED Wall Washer, Jumper Cable, 12in.(305mm)
10904	1	LWW2-JC2-48	GE LED Wall Washer, Jumper Cable, 48in.(1219mm)
65467	10	LWW1-MT48/0	48" (1219mm) Mounting Track 10/PK

# Architectural LED Solutions

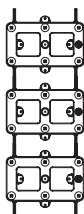


Product Code	Pack Qty	Product Description	CCT +/-	Lens	Strip W/ Module (per/m)	System W/ Module (per/m)	Lm/ Module	LPW (System)
<b>LED Accent</b>								
65456	1	NL1-140-827	2700K + 90/-40	120°	0.67 (5.49)	0.84 (6.89)	27 (68,221)	32
65457	1	NL1-140-830	3000K + 115/-25	120°	0.67 (5.49)	0.84 (6.89)	28 (70,230)	33
65458	1	NL1-140-840	4000K + 121/-151	120°	0.67 (5.49)	0.84 (6.89)	28 (70,230)	33

Please note 1 pack = 6.1 metres. Visit the GE website for new ungraded Accent \*3\* led product later in 2015.

Product Code	Pack Qty	Product Description	Full Product Description
<b>LED Accent Accessories</b>			
75514	1	MINIMAX SUPPLY WIRE	18 AWG Supply Wire ( 0.82mm <sup>2</sup> ) (152.4m)
75545	500	18-14AWG IN-LINE CONN IDC	18-14 AWG In-Line Splice Connector (0.82-2.08mm <sup>2</sup> )
65459	5	NL1-MT48/0	Mounting Track 0° or 30° Angle, 1219mm

Product Code	Pack Qty	Product Description	CCT +/-	Lens	Strip W/ Module (per/m)	System W/ Module (per/m)	Lm/ Module	LPW (System)
<b>LED Accent Drivers</b>								
75612	10	GEDM1-A			Tetra Dimming Module ( 0-10v)			
67824	10	GEPS12-60UGL-IP			LED Driver (12VDC/60W); Input Voltage: 90-264VAC; Damp Location Rated			
74914	1	GE020/G/V12T1-B			LED Driver (12VDC 20W) Input voltage: 90-264VAC, Damp Location Rated			
79044	10	GE060/MV/D12T1-A			0-10V Dimming LED Driver (12VDC/ 60W); Input Voltage 90-305VAC, Damp Location Rated			



Product Code	Pack Qty	Product Description	CCT +/-	Lens	Strip W /Module	System W /Module	Lm /Module	LPW (System)	Modules/Strip	EEC	Energy Consumption (kWh/1000h)
<b>Tetra® PowerGrid</b>											
94900	1	GEWWPG2P6-27K-A	2700K + 95 /-95	150°	3.6 W	4.2W	200	47.6	21	A+	0.16
65463	1	GEWWPG2P6-35K-A	3500K + 89/-163	150°	3.6 W	4.2W	229	55	21	A+	0.16
65464	1	GEWWPG2P6-40K-A	4000K + 121/-161	150°	3.6W	4.2W	229	55	21	A+	0.16

Visit the GE website for new ungraded Powergrid product later in 2015.

Product Code	Pack Qty	Product Description	Full Product Description
<b>Tetra® PowerGrid Accessories</b>			
75514	1	MINIMAX SUPPLY WIRE	18 AWG Supply Wire ( 0.82mm <sup>2</sup> ) (152.4m)
75545	500	18-14AWG IN-LINE CONN IDC	18-14 AWG In-Line Splice Connector (0.82-2.08mm <sup>2</sup> )
75546	100	POWERGRID END CAP	0.33-0.82mm <sup>2</sup> Wire End Caps

Product Code	Pack Qty	Product Description	Full Product Description
<b>Tetra® PowerGrid Drivers</b>			
98603	10	GEPS24-20 PS 24VDC/20W	LED Driver (24VDC/20W) Input Voltage: 96-264VAC, Damp Location Rated
67825	10	GEPS24-100UGL-IP	LED Driver (24VDC/100W) Input Voltage:108-305VAC, Damp Location Rated
62189	1	GE180/MV/V24T1-C	LED Driver (24VDC/180W) Input Voltage: 90-305VAC, Damp Location Rated
79045	10	GE080/MV/D24T1-A 0-10V	0-10V Dimming LED Driver (24VDC/80W); Input Voltage 90-305VAC; Damp Location Rated









# Specialty LED Solutions



# Infinite applications, indoors or out

**Design flexibility** for channel letters and cabinet signs

**Directs light** onto sign face

**Consistent** uniformity

**Reduced** maintenance costs

**5 years** warranty



## Tetra® miniMAX MS

The Tetra® miniMAX MS (Micro System) was created for channel letters as shallow as 38mm deep and as narrow as 13mm wide. Now even the smallest letters benefit from tremendous efficiency advancements in GE LED technology.

The Tetra® miniMAX MS maximizes LED performance by capturing otherwise wasted light and redirecting it towards the illuminated surface to create an exceptionally uniform channel letter. It optimizes each LED to allow for narrow stroke spacing, which helps reduce the amount of material needed per letter. OptiLens also helps protect the LED against moisture, humidity, damage and corrosion – for reliable performance that enhances brand image via better looking signs.



- Continuous wire through LED module uses IDC connectors vs. soldering for maximum strain relief
- Can cut between any modules
- Easy install
- Overmoulded design protects components from moisture, damage and corrosion



## PowerStrip



Tetra PowerStrip and Tetra PowerStrip DS from GE Lighting Solutions are the innovative LED systems that replace fluorescent tubes in cabinet signs resulting in reduced energy costs, improved uniformity and lower maintenance expenses.

Tetra PowerStrip is a low-voltage lighting system that does not require the construction of sockets for mounting. The easy-to-handle system eliminates the handling of fragile glass tubes and can be cut between modules for easy installation in new or retrofit signs of any size.



- Patent-pending OptiLens™ maximizes the area of light coverage by creating a wide viewing angle
- Continuous wire through LED module uses IDC connectors for maximum strain relief
- Can be cut on wire between any module
- Installation is easy with rail system and low-voltage (24V) wiring
- Overmoulded design protects against moisture, dust and damage

# Frankfurt Airport, Germany

## Our Customer

The Frankfurt Airport (Germany) is among the 10 leading airports in the world by number of passengers. In 2011, some 56 million passengers, or approximately 154,000 users a day, passed through this airport. Frankfurt Airport is also the world's largest cargo airport and one of the busiest in Europe, alongside with Charles de Gaulle in Paris and Heathrow in London.

## The Challenge

Because of the airport's importance and steady growth – in 2011 the number of passengers was up 5.5% over the previous year – its installations are always being enlarged and improved. One of the latest projects was the construction of a new illuminated arch-shaped structure with two side panels on the main entrance highway to the airport. In addition to welcoming passengers and visitors, this sign provides a new digital advertising support that is managed by the German company Media Frankfurt GmbH.

## Our Solution

The new structure, which measures 29 metres wide by 14 metres high, features GE Lighting's energy-efficient, long lasting Tetra® PowerStrip LED lighting systems. A total of 285 LED modules per sign were installed for this project; this system replaces the fluorescent light sources in applications that require broad, uniform lighting, as in the case of this large illuminated advertising panel.

### Key benefits

- **Uniform light that last 4 times longer than fluorescent lighting**
- **Energy savings exceed 60%**
- **Easier maintenance**
- **Environmentally friendly**
- **Wide range of colour temperatures makes it adaptable to any lighting environment**

## Edgestrip



Tetra EdgeStrip is engineered to install easily around the edge of cabinet signs with a 76-152 mm can depth. Tetra EdgeStrip delivers money-saving advantages over T8 fluorescent tubes while producing outstanding visual performance that protects end-user brand image.



- Up to 78% energy savings vs. T8 fluorescent tubes
- OptiLens™ technology creates an impressively even light coverage of the sign face
- Overmoulded design protects components from damage
- Continuous wire and IDC connectors for maximum strain relief
- 5-year warranty



Olympic Stadium  
Olympic Stadium

Water Polo Arena  
Aquatics Centre

Stratford Gate  
Greenway Gate  
Victoria Gate

020 700 0000  
020 700 0000  
020 700 0000



## Cool savings

**Bright uniform light** precisely where package facings are located

**Canopy and undershelf** fixtures enable complete system solution

**Cut energy costs** by up to 85% compared to fluorescent

**Reduced** relamping expenses

**Long life** with over 50,000 hours





## RH30

Listening to the needs of our retail customers, we developed the first LED lighting solution for the refrigerated display lighting category in 2004. Since then, more than 1.5 million LED refrigerated display light fixtures have been installed across the globe.

With its 50,000 hour rated life, our GE Immersion™ LED lighting reduces maintenance expenses, material costs, and the hassle of lighting disposal, creating a highly effective, environmentally friendly solution for refrigerated displays.



- Diffuses the light, inhibiting LED hot spots from appearing on merchandise
- Canopy and undershelf lighting solutions work together to produce seamless uniform illumination
- The slim profile is more discreet than fluorescent tubes, making sure customers see well-lit products and not the light source
- An adjustable clip allows for rotation of the light bar

# Specialty LED Solutions

## RV45

Immersion™ RV45 is the ultra-efficient LED solution designed to maximize energy savings in vertical refrigerated cases. By replacing fragile fluorescents with this reliable long-life LED lighting solution, retailers reduce maintenance and maximize ROI while creating a beautifully lit selling environment.

New Immersion RV45 LED refrigerated display lighting is the optimum solution for reducing energy costs. Using only 12 watts of energy per door, this innovative LED solution slashes case lighting power by up to 89% compared to T12 high output fluorescent systems. To drive even more energy savings, the system is dimmable and compatible with occupancy sensors.



- Enhanced visual appeal
- GE quality and reliability
- Easy install
- Long life
- Reduced maintenance

## RV60

GE's Immersion™ RV60 LED lighting system offers grocery and convenience store owners the next generation of energy-efficient refrigerated display lighting to help lower energy costs while enhancing the visual appeal of merchandise.

Designed to replace traditional T12 high output fluorescent lamps, GE's LED refrigerated display lighting helps retailers reduce energy usage in one of their biggest areas of consumption -- lighting vertical cases that house frozen foods, beverages, floral arrangements and more. The long-life LED lighting system is rated to perform up to 50,000 hours, contributing to significant reductions in maintenance costs as well.



- Replaces traditional T12HO fluorescents
- Uses 13 to 22 percent less energy than previous generations of vertical display lighting
- Up to 50,000 hour lifetime
- Reduced relamping costs
- Ultra-efficient LED technology to spread light evenly across food packages
- No IR, UV or mercury
- GE quality and reliability
- 5 year limited warranty

## Picard Retail Stores, France

### Our Customer

Picard is the largest French frozen food retailer chain with more than 800 supermarkets in several European cities. Since 1962, Picard has been selling food to French households and has been committed to managing resources in the most sustainable way.

### The Challenge

Picard's aim was to improve product visibility in vertical freezers while at the same time reduce energy costs and annual lighting maintenance requirements. Over a three year period, the company replaced existing fluorescent lamps with the best-in-class LED system in almost 1,200 doors throughout its French supermarkets.

### Our Solution

LED is an ideal solution for commercial refrigeration. Its lighting efficiency is superior to fluorescent lamps but with a much longer system life of 50,000 hours. Furthermore, GE Lighting's Immersion LED system does not require time to heat up and is not affected by cold environments or constant on/off switching. The quality and durability of the system is reflected in its 5 year limited warranty.

### Key benefits

- 75% reduction in energy costs
- 70% better light uniformity
- Cleaner and brighter appearance
- 85% less operating costs





GREAT OFFERS

GREAT OFFERS

ONLY £2

GREAT OFFERS

# Improved performance and signal visibility

Long lasting LED signals

Less time spent on maintenance

Dramatic saving in energy costs

Improved visibility and sighting distance under various weather conditions

Up to 90% energy saving compared to traditional incandescent solutions



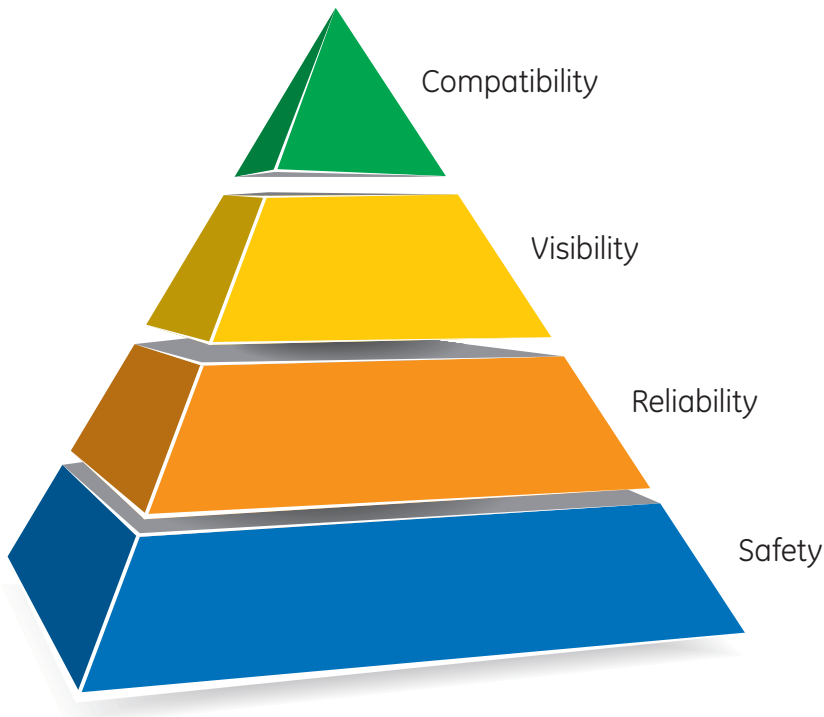
## RM4

Less is More: Few lighting applications better demonstrate the value of long-lasting LED solutions from GE Lighting - compared with traditional incandescent lamps - than our RM4 LED Signal Modules. The maintenance of commuter rail, rapid transit and freight railroad signals located in rail yards, in tunnels, on high bridges or close to energized high-voltage power lines presents serious employee hazards.

The less time spent trouble-shooting or changing lamps in such settings, the better. Installing new wayside signals with solid-state GE LED systems minimizes fall protection and power clearance concerns.



- OEM or retrofit use
- UV stabilized shell
- Compatible with most light-out detection systems
- Up to 90% energy efficiency over incandescent
- 140 mm and 200 mm models available
- GE quality and reliability



## TR3

As demand for public transportation grows, GE Lighting is ready with a rugged and reliable LED lighting solution for transit signalling applications. Designed for new or retrofit use, the TR3 LED signal outshines incandescent solutions. In addition to offering long-life, GE Lighting LED transit signals deliver superior signal visibility, brightness and major reductions in maintenance hassles and costs.



- Outstanding reliability
- Self-contained design provides protection against moisture and dust
- Easy to install and align
- Excellent appearance & visibility
- Robust LED system design enables high luminous intensity over long product life
- Meets rigorous certification and testing standards





M  
28

# Outstanding performance and maximum flexibility

**Constant reliability** 24 hours a day, 365 days a year

**Replacing incandescent** signals with high-efficiency, long-life LED systems

**Dramatic saving** in energy costs

**Reduced** maintenance costs

**Long life** with over 50,000 hours



## GTx

With every new generation of GE transportation LED lighting, outstanding performance and maximum flexibility are always part of the package. Our GTx™ LED round signal modules represent our latest generation of LED signals. After 15 years of hard earned experience, and more than 6 million units sold worldwide, we're proud to say that our latest GTx LED round signal modules consume up to 15 percent less power than our previous signal generation did just a few years ago. We have even over-moulded the electrical connectors in the GTx, to prevent water wicking through the wires.



- Up to 90% greater energy efficiency versus incandescent
- Up to 15% greater energy efficiency versus GE's previous LED signal generations
- Provides LED degradation compensation
- Multiple step and gradual dimming configuration (optional)
- Mask compatible
- Intertek ETL Verified compliant
- GE quality and reliability

## DR2

Smart Repeater. With its unique snap-on ring system for housing flexibility, universal voltage and ultra-low power consumption, the GE 100mm DR2 LED traffic signal really is the smart choice in traffic repeaters. With proven reliability and low maintenance cost compared to incandescent, DR2 Signals offer exceptional value over the long-term.



- Up to 90% energy efficiency over incandescent
- Long life of 50,000 hours plus
- Uses customizable adaptor to fit with fixtures
- Strong polycarbonate front lens
- OEM or retrofit installation
- GE quality and reliability



## Bauru municipality, Brazil

### Our Customer

Bauru, a town most famous among Brazilians as the city where soccer superstar Pelé grew up, is a busy college town and transportation hub located at the centre of São Paulo, the country's most populous state and its economic engine.

### The Challenge

Low maintenance and high energy savings are just part of the bigger picture. One key reason for selecting GE's LED signals was reduction of the "sun-phantom effect," a frequent cause of false green or false red lights that can send a wrong signal to drivers causing car accidents.

### Our Solution

In terms of savings, the new GTx LED signals will reduce energy consumption by a stunning 80% over incandescent bulbs, and will last 10 times longer. That, coupled with significant reductions on maintenance costs, is expected to save the city more than \$2 million over their 10-year lifespan, making the traffic signals superstars in their own right among city managers.

### Key benefits

- 80% reduction in energy costs
- Lasts 10 times longer compared to traditional incandescent
- Cleaner and brighter appearance



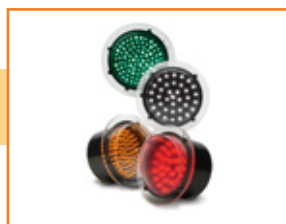
Signage



RDL



Transportation  
Rail



Transportation  
Traffic



# Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product’s attributes.

Product Lines	Part	SKU	Pack Quantity	LED Colour	Colour Temperature	Mounting	Dimensions LxWxH (mm)	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
<p><b>Product description:</b> The LED fixture's identification code</p> <p><b>Product code:</b> It is important to use this code when ordering to ensure that you receive the exact product you require</p> <p><b>CCT [K]:</b> Colour Temperature - Kelvins</p> <p><b>Length:</b> Fixture length in mm</p> <p><b>Energy Consumption:</b> kWh/1000h</p> <p><b>Voltage:</b> LED data is based on operation at rated voltage</p>											
<b>RDL Product Range</b>											
RH30 standard – horizontal	GEMT303650CAN-SY	69642	1	WHITE	5000K	CANOPY	874x34x23	1078	A	17.49	24V
	GEMT303650USL-SB	69649	10	WHITE	5000K	UNDERSHELF	874x34x23	371	A+	5.94	24V
	GEMT303650USL-SY	69648	1	WHITE	5000K	UNDERSHELF	874x34x23	371	A+	5.94	24V

LED Colour

Mounting position

Lumens per Module

EEC: Energy Efficiency Class

# Specialty LED Solutions

Product Lines	Part	SKU	LED colour	Colour Temperature	LEDs per Module	Modules per Metre	Viewing Angle	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
<b>Tetra® Product Range</b>											
<b>TETRA® miniMAX</b> 13mm min. stroke width 38mm min. Depth	GEMM71-2	13613	WHITE	7100K	3	8	150	36	A++	0.36	12V
	GEMM71-2-CS1	13614	WHITE	7100K	3	6.6	150	36	A++	0.36	12V
	GEMM50-2	13619	WARM WHITE	5000K	3	8	150	36	A++	0.36	12V
	GEMM50-2-CS1	93011542	WARM WHITE	5000K	3	6.6	150	36	A++	0.36	12V
	GEMM41-2	13620	WARM WHITE	4100K	3	8	150	34	A++	0.36	12V
	GEMM41-2-CS1	93011543	WARM WHITE	4100K	3	6.6	150	34	A++	0.36	12V
	GEMM32-2	13625	WARM WHITE	3200K	3	8	150	30	A++	0.36	12V
	GEMM32-2-CS1	93011544	WARM WHITE	3200K	3	6.6	150	30	A++	0.36	12V
	GEMMRD-1	98922	RED	625nm	3	8	150	11	NA	NA	12V
	GEMMBL-1	98919	BLUE	467nm	3	8	150	8	NA	NA	12V
GEMMGL-1	98920	GREEN	530nm	3	8	150	24	NA	NA	12V	
GEMMPO-1	98921	ORANGE	606nm	3	8	150	19	NA	NA	12V	
<b>TETRA® miniMAX Wet</b> 13mm min. stroke width 38mm min. Depth	GEMM71-W1	93011515	WHITE	7100K	3	8	150	36	A++	0.36	12V
	GEMM50-W1	93011516	WHITE	5000K	3	8	150	36	A++	0.36	12V
	GEMM41-W1	93011517	WARM WHITE	4100K	3	8	150	34	A++	0.36	12V
	GEMM32-W1	93011518	WARM WHITE	3200K	3	8	150	30	A++	0.36	12V
	GEMMRD-W1 MINIMAX WET RED	GEMMRD-W1	RED	625nm	3	8	150	10.8	NA	NA	12V
	GEMMBL-W1 MINIMAX WET BLUE	GEMMBL-W1	BLUE	427nm	3	8	150	7.6	NA	NA	12V
	GEMMGL-W1 MINIMAX WET GREEN	GEMMGL-W1	GREEN	603nm	3	8	150	18.8	NA	NA	12V
GEMMPO-W1 MINIMAX WET ORANGE	GEMMPO-W1	ORANGE	530nm	3	8	150	22.4	NA	NA	12V	
<b>TETRA® miniMAX MS</b> 13mm min. stroke width 38mm min. depth	GEMS71-1	14397	WHITE	7100K	3	8	Assym.	36	A++	0.42	12V
	GEMS50-1	14398	WARM WHITE	5000K	3	8	Assym.	36	A++	0.42	12V
	GEMS41-1	14399	WARM WHITE	4100K	3	8	Assym.	28	A++	0.42	12V
	GEMS32-1	14407	WARM WHITE	3200K	3	8	Assym.	28	A++	0.42	12V
<b>TETRA® MAX</b> 19mm min. stroke width 102mm min. height >305mm letter depth	GEMX71-2	13628	WHITE	7100K	3	6.6	150	52	A++	0.50	12V
	GEMX50-2	13629	WARM WHITE	5000K	3	6.6	150	52	A++	0.50	12V
	GEMX41-2	13633	WARM WHITE	4100K	3	6.6	150	47	A++	0.50	12V
	GEMX32-2	13637	WARM WHITE	3200K	3	6.6	150	43	A++	0.50	12V
	GEMXRD-1	98925	RED	625nm	3	6.6	150	14	NA	NA	12V
	GEMXBL-1	98923	BLUE	467nm	3	6.6	150	10	NA	NA	12V
	GEMXGL-1	98924	GREEN	530nm	3	6.6	150	30	A++	0.53	12V
	GEMXPO-1	98926	ORANGE	606nm	3	6.6	150	13	NA	NA	12V
	GEMXRC-1	98927	RED-ORANGE	618nm	3	6.6	150	12	NA	NA	12V
	GEMXYG-1	98928	AMBER	625nm	3	6.6	150	11	NA	NA	12V
	GEMXH71-2	13638	WHITE	7100K	3	6.6	150	82	A++	0.79	12V
	GEMXH50-2	13640	WARM WHITE	5000K	3	6.6	150	82	A++	0.79	12V
	GEMXH41-2	13651	WARM WHITE	4100K	3	6.6	150	75	A++	0.79	12V
GEMXH32-2	13654	WARM WHITE	3200K	3	6.6	150	68	A++	0.79	12V	
GEMXHRD-1	98929	RED	625nm	4	6.6	150	16	NA	NA	12V	



Product Lines	Part	SKU	LED colour	Colour Temperature	LEDs per Module	Modules per Metre	Viewing Angle	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
<b>TETRA® MAX Wet</b> 19mm min. stroke width >305mm letter height 102mm min. depth	GEMX71-W1	93013086	WHITE	7100K	3	6.6	150	52	A++	0.50	12V
	GEMX50-W1	93013085	WARM WHITE	5000K	3	6.6	150	52	A++	0.50	12V
	GEMX41-W1	93013074	WARM WHITE	4100K	3	6.6	150	47	A++	0.50	12V
	GEMX32-W1	93013073	WARM WHITE	3200K	3	6.6	150	43	A++	0.50	12V
	GEMXRD-W1 MAX WET RED	GEMXRD-W1	RED	625nm	3	6.6	150	14	NA	NA	12V
	GEMXBL-W1 MAX WET BLUE	GEMXBL-W1	BLUE	467nm	3	6.6	150	10	NA	NA	12V
	GEMXGL-W1 MAX WET GREEN	GEMXGL-W1	GREEN	530nm	3	6.6	150	28	NA	NA	12V
	GEMXPO-W1 MAX WET ORANGE	GEMXPO-W1	ORANGE	606nm	3	6.6	150	13	NA	NA	12V
	GEMXRC-W1 MAX WET RED ORANGE	GEMXRC-W1	RED-ORANGE	618nm	3	6.6	150	12	NA	NA	12V
	GEMXYG-W1 MAX WET AMBER	GEMXYG-W1	AMBER	589nm	3	6.6	150	11	NA	NA	12V
	GEMXH71-W1	93013055	WHITE	7100K	3	6.6	150	82	A++	0.79	12V
	GEMXH50-W1	93013072	WARM WHITE	5000K	3	6.6	150	82	A++	0.79	12V
	GEMXH41-W1	93013071	WARM WHITE	4100K	3	6.6	150	75	A++	0.79	12V
	GEMXH32-W1	93013060	WARM WHITE	3200K	3	6.6	150	68	A++	0.79	12V
GEMXHRD-W1 MAX HO WET RED	GEMXHRD-W1	RED	625nm	4	6.6	150	16	NA	NA	12V	
<b>TETRA® PowerMAX</b> 32mm min. stroke width 102mm min. height ≥915mm letter depth	GEPM71-2	13661	WHITE	7100K	3	5	150	133	A++	1.45	12V
	GEPM71-2-CS1	13665	WHITE	7100K	3	3.3	150	133	A++	1.45	12V
	GEPM50-2	13668	WARM WHITE	5000K	3	5	150	133	A++	1.45	12V
	GEPM50-2-CS1	93011545	WARM WHITE	5000K	3	3.3	150	133	A++	1.45	12V
	GEPM41-2	13669	WARM WHITE	4100K	3	5	150	120	A++	1.45	12V
	GEPM41-2-CS1	93011546	WARM WHITE	5000K	3	3.3	150	120	A++	1.45	12V
	GEPM32-2	13671	WARM WHITE	3200K	3	5	150	109	A++	1.45	12V
GEPM32-2-CS1	93011547	WARM WHITE	5000K	3	3.3	150	109	A++	1.45	12V	
<b>TETRA® PowerMAX Wet</b> 32mm min. stroke width ≥915mm letter height 102mm min. depth	GEPM71-W1	93013058	WHITE	7100K	3	5	150	133	A++	1.45	12V
	GEPM50-W1	93013059	WARM WHITE	5000K	3	5	150	133	A++	1.45	12V
	GEPM41-W1	93013057	WARM WHITE	4100K	3	5	150	120	A++	1.45	12V
	GEPM32-W1	93013056	WARM WHITE	3200K	3	5	150	109	A++	1.45	12V
<b>TETRA® PowerStrip</b> 127mm min. depth	GESS71-1*	95630	WHITE	7100K	5	3.3	140	280	A++	2.64	12V
	GESS2471-2 PSTRIP SS 7100K**	GESS2471-2	WHITE	7100K	7	3.3	140	300	A++	2.64	12V
	GESS50-1*	95631	WARM WHITE	5000K	5	3.3	140	280	A++	2.64	12V
	GESS2450-2 PSTRIP SS 5000K**	GESS2450-2	WARM WHITE	5000K	7	3.3	140	300	A++	2.64	12V
	GESS41-1*	95632	WARM WHITE	4100K	5	3.3	140	210	A++	2.64	12V
	GESS2441-2 PSTRIP SS 4100K**	GESS2441-2	WARM WHITE	4100K	7	3.3	140	300	A++	2.64	12V
	GESS32-1*	95633	WARM WHITE	3200K	5	3.3	140	210	A++	2.64	12V
	GESS2432-2 PSTRIP SS 3200K**	GESS2432-2	WARM WHITE	3200K	7	3.3	140	300	A++	2.64	12V
	GESSH71-1*	98942	WHITE	7100K	8	3.3	140	360	A+	3.99	12V
	GESS24H71-1**	93011555	WHITE	7100K	14	3.3	140	368	A+	3.99	12V
	GESSH50-1*	98943	WARM WHITE	5000K	8	3.3	140	360	A+	3.99	12V
	GESS24H50-1**	93011556	WARM WHITE	5000K	14	3.3	140	368	A+	3.99	12V
	GESSH41-1*	98944	WARM WHITE	4100K	8	3.3	140	260	A+	3.99	12V
	GESS24H41-1**	93011557	WARM WHITE	4100K	14	3.3	140	344	A+	3.99	12V
	GESSH32-1*	98945	WARM WHITE	3200K	8	3.3	140	260	A+	3.99	12V
	GESS24H32-1**	93011558	WARM WHITE	3200K	14	3.3	140	344	A+	3.99	12V

\*Phase out end of 2015/early 2016

\*\*Phase in end of 2015/ early 2016

# Specialty LED Solutions

Product Lines	Part	SKU	LED colour	Colour Temperature	LEDs per Module	Modules per Metre	Viewing Angle	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
<b>Tetra® PowerStrip DS</b> 127mm min. depth from face	GEDS71-1*	95636	WHITE	7100K	10	3.3	140	560	A++	5.14	24V
	GEDS71-2 PSTRIP DS 7100K**	GEDS71-2	WHITE	7100K	14	3.3	140	600	A++	5.14	24V
	GEDS50-1*	95637	WARM WHITE	5000K	10	3.3	140	560	A++	5.14	24V
	GEDS50-2 PSTRIP DS 5000K**	GEDS50-2	WARM WHITE	5000K	14	3.3	140	600	A++	5.14	24V
	GEDS41-1*	95638	WARM WHITE	4100K	10	3.3	140	420	A++	5.14	24V
	GEDS41-2 PSTRIP DS 4100K**	GEDS41-2	WARM WHITE	4100K	14	3.3	140	600	A++	5.14	24V
	GEDS32-1*	95639	WARM WHITE	3200K	10	3.3	140	420	A++	5.14	24V
	GEDS32-2 PSTRIP DS 3200K**	GEDS32-2	WARM WHITE	3200K	14	3.3	140	600	A++	5.14	24V
	GEDSH71-1*	98946	WHITE	7100K	16	3.3	140	720	A+	7.21	24V
	GEDSH71-2**	93011551	WHITE	7100K	28	3.3	140	735	A+	7.21	24V
	GEDSH50-1*	98947	WARM WHITE	5000K	16	3.3	140	720	A+	7.21	24V
	GEDSH50-2**	93011552	WARM WHITE	5000K	28	3.3	140	735	A+	7.21	24V
	GEDSH41-1*	98948	WARM WHITE	4100K	16	3.3	140	520	A+	7.21	24V
	GEDSH41-2**	93011553	WARM WHITE	4100K	28	3.3	140	687	A+	7.21	24V
	GEDSH32-1*	98949	WARM WHITE	3200K	16	3.3	140	520	A+	7.21	24V
GEDSH32-2**	93011554	WARM WHITE	3200K	28	3.3	140	687	A+	7.21	24V	
<b>Tetra® miniStrip</b> 76mm min. depth	GEWHBSP3	98575	WHITE	7100K	3	3.3	140	96	A++	1.21	12V
	GEWWBSP3-50K	98578	WARM WHITE	5000K	3	3.3	140	96	A++	1.21	12V
	GEWWBSP3-41K	98577	WARM WHITE	4100K	3	3.3	140	72	A++	1.21	12V
	GEWWBSP3	98576	WARM WHITE	3200K	3	3.3	140	72	A++	1.21	12V
	GEBSH71-1	98950	WHITE	7100K	3	3.3	140	120	A++	1.64	12V
	GEBSH50-1	98951	WARM WHITE	5000K	3	3.3	140	120	A++	1.64	12V
	GEBSH41-1	98952	WARM WHITE	4100K	3	3.3	140	90	A+	1.64	12V
GEBSH32-1	98953	WARM WHITE	3200K	3	3.3	140	90	A+	1.64	12V	
<b>Tetra® miniStrip DS</b> 76mm min. depth from face	GEWHBDP6	98579	WHITE	7100K	6	3.3	140	192	A++	2.42	24V
	GEWWBDP6-50K	98582	WARM WHITE	5000K	6	3.3	140	192	A++	2.42	24V
	GEWWBDP6-41K	98581	WARM WHITE	4100K	6	3.3	140	144	A+	2.42	24V
	GEWWBDP6	98580	WARM WHITE	3200K	6	3.3	140	144	A+	2.42	24V
	GEBDH71-1	98954	WHITE	7100K	6	3.3	140	240	A+	3.28	24V
	GEBDH50-1	98955	WARM WHITE	5000K	6	3.3	140	240	A+	3.28	24V
	GEBDH41-1	98956	WARM WHITE	4100K	6	3.3	140	180	A+	3.28	24V
GEBDH32-1	98957	WARM WHITE	3200K	6	3.3	140	180	A+	3.28	24V	
<b>Tetra® EdgeStrip</b> 76mm min. depth	GEWHBIP2*	98546	WHITE	7100K	2	3.3	10 x 80	200	A++	2.64	24V
	GEBI71-2 EDGESTRIP 7100**	GEBI71-2	WHITE	7100K	7	3.3	10 x 80	300	A++	2.64	24V
	GEWWBIP2-50K*	98548	WARM WHITE	5000K	2	3.3	10 x 80	200	A++	2.64	24V
	GEBI50-2 EDGESTRIP 5000**	GEBI50-2	WARM WHITE	5000K	7	3.3	10 x 80	300	A++	2.64	24V
	GEWWBIP2-41K*	98547	WARM WHITE	4100K	2	3.3	10 x 80	150	A+	2.64	24V
	GEBI41-2 EDGESTRIP 4100**	GEBI41-2	WARM WHITE	4100K	7	3.3	10 x 80	282	A++	2.64	24V
	GEWWBIP2*	61322	WARM WHITE	3200K	2	3.3	10 x 80	150	A+	2.64	24V
	GEBI32-2 EDGESTRIP 3200**	GEBI32-2	WARM WHITE	3200K	7	3.3	10 x 80	282	A++	2.64	24V
	GEBIH71-1*	98958	WHITE	7100K	2	3.3	10 x 80	410	A+	5.94	24V
	GEBIH71-2**	93011560	WHITE	7100	7	3.3	27x80	550	A++	5.94	24V
	GEBIH50-1*	98959	WARM WHITE	5000K	2	3.3	10 x 80	410	A+	5.94	24V
	GEBIH50-2**	93011561	WARM WHITE	5000	7	3.3	27x80	550	A++	5.94	24V
	GEBIH41-1*	98960	WARM WHITE	4100K	2	3.3	10 x 80	330	A	5.94	24V
	GEBIH41-2**	93011562	WARM WHITE	4100	7	3.3	27x80	500	A++	5.94	24V
	GEBIH32-1*	98961	WARM WHITE	3200K	2	3.3	10 x 80	330	A	5.94	24V
GEBIH32-2**	93011521	WARM WHITE	3200	7	3.3	27x80	500	A++	5.94	24V	

\*Phase out end of 2015/early 2016

\*\*Phase in end of 2015/ early 2016



Product Lines	Part	SKU	LED colour	Colour Temperature	LEDs per Module	Modules per Metre	Viewing Angle	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
<b>TETRA® Contour LS</b> Straight Border Lighting 15mm neon replacement	GEXNLRD-1	14035	RED/RED	625nm			330		NA	NA	24V
	GEXNLGL-1	14012	GREEN/GREEN	532nm			330		A	1.90	24V
	GEXNLBL-1	14003	BLUE/BLUE	467nm			330		NA	NA	24V
	GEXNL65-1	14036	WHITE/WHITE	6500K			330		B	3.49	24V
	GEXNL32-1	14042	WARM WHITE/WHITE	3200K			330		B	3.49	24V
<b>TETRA® Contour</b> Border & Accent Lighting 15mm neon replacement	GEXNRD-1	13966	RED	625nm			330		NA	NA	24V
	GEXNGL-1	13964	GREEN	532nm			330		A	1.67	24V
	GEXNBL-1	13962	BLUE	467nm			330		NA	NA	24V
	GEXNRC-1	13965	RED/ORANGE	618nm			330		B	2.50	24V
	GEXNYA-1	13975	AMBER	589nm			330		NA	NA	24V
	GEXN65-1	13971	WHITE	6500K			330		B	3.49	24V
	GEXN32-1	13972	WARM WHITE	3200K			330		B	3.49	24V

Product Lines	Part	SKU	Watts	Number of Outputs	Dimmable Y/N	Dimming Type	Input Voltage	Frequency	Dimensions LxWxH (mm)	Location Rating	Output Voltage
<b>TETRA® LED Drivers</b>	GEPS12-25U-EU PS 12VDC/25W	93011513	25W	1x 25W	N		108-305V	50/60Hz	133x 40 x 30.5	DRY / DAMP	12V
	GEPS12-60U-GL	98917	60W	1x60W	N		120-277V	50/60Hz	240x43x30	DRY / DAMP	12V
	GEPS12W-60M	98617	60W	1x60W	N		100-240V	50/60Hz	307x52x32	WET	12V
	GEPS12D-60	98615	60W	1x60W	Y	0 - 10V	100-277V	50/60Hz	240x43x30	DRY / DAMP	12V
	GEPS24-20	98603	20W	1x20W	N		120-240V	50/60Hz	150x37 x32	DRY / DAMP	24V
	GEPS24-25U-EU PS 24VDC/25W	93011514	25W	1X25W	N		108-305V	50/60Hz	240x43x30	DRY / DAMP	24V
	GEPS24W-80M	98607	80W	1x80W	N		100-240V	50/60Hz	307x52x32	WET	24V
	GEPS24D-80	98605	80W	1x80W	Y	0 - 10V	100-277V	50/60Hz	240x43x30	DRY / DAMP	24V
	GEPS24-100U-GL	98941	100W	1x100W	N		120-277V	50/60Hz	240x43x30	DRY / DAMP	24V
	GEPS24-180U	98602	180W	2x90W	N		100-277V	50/60Hz	392x62x40	DRY / DAMP	24V

# Specialty LED Solutions

Product Lines	Part	SKU	Pack Quantity	LED Colour	Colour Temperature	Mounting	Dimensions LxWxH (mm)	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
RH30 standard - horizontal	GEMT302430CAN-SB	69684	10	WHITE	3000K	CANOPY	604 x 34 x 23	600	A	11.44	24V
	GEMT302430CAN-SY	69682	1	WHITE	3000K	CANOPY	604 x 34 x 23	600	A	11.44	24V
	GEMT302430USL-SB	69690	10	WHITE	3000K	UNDERSHELF	604 x 34 x 23	150	A	3.96	24V
	GEMT302430USL-SY	69689	1	WHITE	3000K	UNDERSHELF	604 x 34 x 23	150	A	3.96	24V
	GEMT302435CAN-SB	69710	10	WHITE	3500K	CANOPY	604 x 34 x 23	738	A	11.44	24V
	GEMT302435CAN-SY	69709	1	WHITE	3500K	CANOPY	604 x 34 x 23	738	A	11.44	24V
	GEMT302435USL-SB	69716	10	WHITE	3500K	UNDERSHELF	604 x 34 x 23	250	A	11.44	24V
	GEMT302435USL-SY	69715	1	WHITE	3500K	UNDERSHELF	604 x 34 x 23	250	A	11.44	24V
	GEMT302440CAN-SB	69653	10	WHITE	4000K	CANOPY	604 x 34 x 23	773	A	11.44	24V
	GEMT302440CAN-SY	69652	1	WHITE	4000K	CANOPY	604 x 34 x 23	773	A	11.44	24V
	GEMT302440USL-SB	69665	10	WHITE	4000K	UNDERSHELF	604 x 34 x 23	240	A+	3.96	24V
	GEMT302440USL-SY	69664	1	WHITE	4000K	UNDERSHELF	604 x 34 x 23	240	A+	3.96	24V
	GEMT302450CAN-SB	69641	10	WHITE	5000K	CANOPY	604 x 34 x 23	737	A	11.44	24V
	GEMT302450CAN-SY	69640	1	WHITE	5000K	CANOPY	604 x 34 x 23	737	A	11.44	24V
	GEMT302450USL-SB	69647	10	WHITE	5000K	UNDERSHELF	604 x 34 x 23	245	A+	3.96	24V
	GEMT302450USL-SY	69646	1	WHITE	5000K	UNDERSHELF	604 x 34 x 23	245	A+	3.96	24V
	GEMT303630CAN-SB	69686	10	WHITE	3000K	CANOPY	874 x 34 x 23	900	A	17.49	24V
	GEMT303630CAN-SY	69685	1	WHITE	3000K	CANOPY	874 x 34 x 23	900	A	17.49	24V
	GEMT303630USL-SB	69694	10	WHITE	3000K	UNDERSHELF	874 x 34 x 23	350	A	5.94	24V
	GEMT303630USL-SY	69691	1	WHITE	3000K	UNDERSHELF	874 x 34 x 23	350	A	5.94	24V
	GEMT303635CAN-SB	69712	10	WHITE	3500K	CANOPY	874 x 34 x 23	960	A	17.49	24V
	GEMT303635CAN-SY	69711	1	WHITE	3500K	CANOPY	874 x 34 x 23	960	A	17.49	24V
	GEMT303635USL-SB	69718	10	WHITE	3500K	UNDERSHELF	874 x 34 x 23	385	A+	5.94	24V
	GEMT303635USL-SY	69717	1	WHITE	3500K	UNDERSHELF	874 x 34 x 23	385	A+	5.94	24V
	GEMT303640CAN-SB	69661	10	WHITE	4000K	CANOPY	874 x 34 x 23	1020	A	17.49	24V
	GEMT303640CAN-SY	69660	1	WHITE	4000K	CANOPY	874 x 34 x 23	1020	A	17.49	24V
	GEMT303640USL-SB	69667	10	WHITE	4000K	UNDERSHELF	874 x 34 x 23	420	A+	5.94	24V
	GEMT303640USL-SY	69666	1	WHITE	4000K	UNDERSHELF	874 x 34 x 23	420	A+	5.94	24V
	GEMT303650CAN-SB	69643	10	WHITE	5000K	CANOPY	874 x 34 x 23	1078	A	17.49	24V
	GEMT303650CAN-SY	69642	1	WHITE	5000K	CANOPY	874 x 34 x 23	1078	A	17.49	24V
	GEMT303650USL-SB	69649	10	WHITE	5000K	UNDERSHELF	874 x 34 x 23	371	A+	5.94	24V
	GEMT303650USL-SY	69648	1	WHITE	5000K	UNDERSHELF	874 x 34 x 23	371	A+	5.94	24V
	GEMT304830CAN-SB	69688	10	WHITE	3000K	CANOPY	1144 x 34 x 23	1200	A	23.65	24V
	GEMT304830CAN-SY	69687	1	WHITE	3000K	CANOPY	1144 x 34 x 23	1200	A	23.65	24V
	GEMT304830USL-SB	69696	10	WHITE	3000K	UNDERSHELF	1144 x 34 x 23	450	A	7.81	24V
	GEMT304830USL-SY	69695	1	WHITE	3000K	UNDERSHELF	1144 x 34 x 23	450	A	7.81	24V
	GEMT304835CAN-SB	69714	10	WHITE	3500K	CANOPY	1144 x 34 x 23	1300	A	23.65	24V
	GEMT304835CAN-SY	69713	1	WHITE	3500K	CANOPY	1144 x 34 x 23	1300	A	23.65	24V
	GEMT304835USL-SB	69720	10	WHITE	3500K	UNDERSHELF	1144 x 34 x 23	515	A+	7.81	24V
	GEMT304835USL-SY	69719	1	WHITE	3500K	UNDERSHELF	1144 x 34 x 23	515	A+	7.81	24V
	GEMT304840CAN-SB	69663	10	WHITE	4000K	CANOPY	1144 x 34 x 23	1400	A	23.65	24V
	GEMT304840CAN-SY	69662	1	WHITE	4000K	CANOPY	1144 x 34 x 23	1400	A	23.65	24V
	GEMT304840USL-SB	69669	10	WHITE	4000K	UNDERSHELF	1144 x 34 x 23	560	A+	7.81	24V
	GEMT304840USL-SY	69668	1	WHITE	4000K	UNDERSHELF	1144 x 34 x 23	560	A+	7.81	24V
	GEMT304850CAN-SB	69645	10	WHITE	5000K	CANOPY	1144 x 34 x 23	1440	A	23.65	24V
	GEMT304850CAN-SY	69644	1	WHITE	5000K	CANOPY	1144 x 34 x 23	1440	A	23.65	24V
	GEMT304850USL-SB	69651	10	WHITE	5000K	UNDERSHELF	1144 x 34 x 23	500	A+	7.81	24V
	GEMT304850USL-SY	69650	1	WHITE	5000K	UNDERSHELF	1144 x 34 x 23	500	A+	7.81	24V



Product Lines	Part	SKU	Pack Quantity	LED Colour	Colour Temperature	Mounting	Dimensions LxWxH (mm)	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage	
<b>RH30 100W driver</b>	GEPS6000NCMUL-SY	68593	1				273 x 42 x 28				24V	
<b>RH30 50W driver</b>	GEPS6500NCMUL-SY	68595	1				273 x 42 x 28				24V	
<b>RH30 mounting clip</b>	GEMT3000NCM1-SY	69721	1 pack of 2				27 x 26 x 30					
<b>RH30 mounting clip</b>	GEMT3000NCM1-SB	69723	1 pack of 20				27 x 26 x 30					
<b>RH30 Premium – horizontal</b>	GEMT312430CAN-SB	69698	10	WHITE	3000K	CANOPY	604 x 34 x 23	427	A	11.44	24V	
	GEMT312430CAN-SY	69697	1	WHITE	3000K	CANOPY	604 x 34 x 23	427	A	11.44	24V	
	GEMT312430USL-SB	69704	10	WHITE	3000K	UNDERSHELF	604 x 34 x 23	160	A	5.94	24V	
	GEMT312430USL-SY	69703	1	WHITE	3000K	UNDERSHELF	604 x 34 x 23	160	A	5.94	24V	
	GEMT312440CAN-SB	69671	10	WHITE	4000K	CANOPY	604 x 34 x 23	481	A	11.44	24V	
	GEMT312440CAN-SY	69670	1	WHITE	4000K	CANOPY	604 x 34 x 23	481	A	11.44	24V	
	GEMT312440USL-SB	69677	10	WHITE	4000K	UNDERSHELF	604 x 34 x 23	181	A	3.96	24V	
	GEMT312440USL-SY	69676	1	WHITE	4000K	UNDERSHELF	604 x 34 x 23	181	A	3.96	24V	
	GEMT313630CAN-SB	69700	10	WHITE	3000K	CANOPY	890 x 34 x 23	630	A	17.49	24V	
	GEMT313630CAN-SY	69699	1	WHITE	3000K	CANOPY	890 x 34 x 23	630	A	17.49	24V	
	GEMT313630USL-SB	69706	10	WHITE	3000K	UNDERSHELF	890 x 34 x 23	242	A	5.94	24V	
	GEMT313630USL-SY	69705	1	WHITE	3000K	UNDERSHELF	890 x 34 x 23	242	A	5.94	24V	
	GEMT313640CAN-SB	69673	10	WHITE	4000K	CANOPY	890 x 34 x 23	730	A	17.49	24V	
	GEMT313640CAN-SY	69672	1	WHITE	4000K	CANOPY	890 x 34 x 23	730	A	17.49	24V	
	GEMT313640USL-SB	69679	10	WHITE	4000K	UNDERSHELF	890 x 34 x 23	274	A	5.94	24V	
	GEMT313640USL-SY	69678	1	WHITE	4000K	UNDERSHELF	890 x 34 x 23	274	A	5.94	24V	
	GEMT314830CAN-SB	69702	10	WHITE	3000K	CANOPY	1160 x 34 x 23	812	A	23.65	24V	
	GEMT314830CAN-SY	69701	1	WHITE	3000K	CANOPY	1160 x 34 x 23	812	A	23.65	24V	
	GEMT314830USL-SB	69708	10	WHITE	3000K	UNDERSHELF	1160 x 34 x 23	320	A	7.81	24V	
	GEMT314830USL-SY	69707	1	WHITE	3000K	UNDERSHELF	1160 x 34 x 23	320	A	7.81	24V	
	GEMT314840CAN-SB	69675	10	WHITE	4000K	CANOPY	1160 x 34 x 23	937	A	23.65	24V	
	GEMT314840CAN-SY	69674	1	WHITE	4000K	CANOPY	1160 x 34 x 23	937	A	23.65	24V	
	GEMT314840USL-SB	69681	10	WHITE	4000K	UNDERSHELF	1160 x 34 x 23	357	A	7.81	24V	
	GEMT314840USL-SY	69680	1	WHITE	4000K	UNDERSHELF	1160 x 34 x 23	357	A	7.81	24V	
	<b>RH30 100W Driver</b>	GEPS6000NCMUL-SY	68593	1				273 x 42 x 28				24V
	<b>RH30 50W Driver</b>	GEPS6500NCMUL-SY	68595	1				273 x 42 x 28				24V
<b>RH30 Mounting Clip</b>	GEMT3000NCM1-SY	69721	1 pack of 2				27 x 26 x 30					
<b>RH30 Mounting Clip</b>	GEMT3000NCM1-SB	69723	1 pack of 20				27 x 26 x 30					

# Specialty LED Solutions

Product Lines	Part	SKU	Pack Quantity	LED Colour	Colour Temperature	Mounting	Dimensions LxWxH (mm)	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
<b>RDL Product Range</b>											
RV45 -- Vertical	GELT4E6040CTR-SB	67795	10	WHITE	4000K	CENTRE	1498 x 42 x 32	840	A	12.65	12V
	GELT4E6040CTR-SY	67792	1	WHITE	4000K	CENTRE	1498 x 42 x 32	840	A	12.65	12V
	GELT4E6040EDL-SB	67797	10	WHITE	4000K	LEFT	1502 x 39 x 37	488	A+	6.49	12V
	GELT4E6040EDL-SY	67794	1	WHITE	4000K	LEFT	1502 x 39 x 37	488	A+	6.49	12V
	GELT4E6040EDR-SB	67796	10	WHITE	4000K	RIGHT	1502 x 39 x 37	488	A+	6.49	12V
	GELT4E6040EDR-SY	67793	1	WHITE	4000K	RIGHT	1502 x 39 x 37	488	A+	6.49	12V
	GELT4E6050CTR-SB	67789	10	WHITE	5000K	CENTRE	1498 x 42 x 32	935	A+	12.65	12V
	GELT4E6050CTR-SY	67786	1	WHITE	5000K	CENTRE	1498 x 42 x 32	935	A+	12.65	12V
	GELT4E6050EDL-SB	67791	10	WHITE	5000K	LEFT	1502 x 39 x 37	542	A+	6.49	12V
	GELT4E6050EDL-SY	67788	1	WHITE	5000K	LEFT	1502 x 39 x 37	542	A+	6.49	12V
	GELT4E6050EDR-SB	67790	10	WHITE	5000K	RIGHT	1502 x 39 x 37	542	A+	6.49	12V
	GELT4E6050EDR-SY	67787	1	WHITE	5000K	RIGHT	1502 x 39 x 37	542	A+	6.49	12V
	GELT4E7040CTR-SB	67807	10	WHITE	4000K	CENTRE	1762 x 42 x 32	939	A	15.18	12V
	GELT4E7040CTR-SY	67804	1	WHITE	4000K	CENTRE	1762 x 42 x 32	939	A	15.18	12V
	GELT4E7040EDL-SB	67809	10	WHITE	4000K	LEFT	1766 x 39 x 37	599	A+	7.92	12V
	GELT4E7040EDL-SY	67806	1	WHITE	4000K	LEFT	1766 x 39 x 37	599	A+	7.92	12V
	GELT4E7040EDR-SB	67808	10	WHITE	4000K	RIGHT	1766 x 39 x 37	599	A+	7.92	12V
	GELT4E7040EDR-SY	67805	1	WHITE	4000K	RIGHT	1766 x 39 x 37	599	A+	7.92	12V
	GELT4E7050CTR-SB	67801	10	WHITE	5000K	CENTRE	1762 x 42 x 32	1166	A+	15.18	12V
	GELT4E7050CTR-SY	67798	1	WHITE	5000K	CENTRE	1762 x 42 x 32	1166	A+	15.18	12V
	GELT4E7050EDL-SB	67803	10	WHITE	5000K	LEFT	1766 x 39 x 37	686	A+	7.92	12V
	GELT4E7050EDL-SY	67800	1	WHITE	5000K	LEFT	1766 x 39 x 37	686	A+	7.92	12V
	GELT4E7050EDR-SB	67802	10	WHITE	5000K	RIGHT	1766 x 39 x 37	686	A+	7.92	12V
	GELT4E7050EDR-SY	67799	1	WHITE	5000K	RIGHT	1766 x 39 x 37	686	A+	7.92	12V
RV45 Driver	GEPS4000NCMUL-SY	79813	1				273 x 42 x 27				12V
RV45 Wire Cover	GE-CV-4060CTR	79814	1 pack of 10				45 x 36 x 30				
RV60 - Vertical	GELT604835CTR-SB	85757	10	WHITE	3500K	CENTRE	1233 x 66 x 33	813	A	12.32	24V
	GELT604835CTR-SY	85754	1	WHITE	3500K	CENTRE	1233 x 66 x 33	813	A	12.32	24V
	GELT604835EDL-SB	85759	10	WHITE	3500K	LEFT	1233 x 53 x 40	500	A+	7.59	24V
	GELT604835EDL-SY	85756	1	WHITE	3500K	LEFT	1233 x 53 x 40	500	A+	7.59	24V
	GELT604835EDR-SB	85758	10	WHITE	3500K	RIGHT	1233 x 53 x 40	500	A+	7.59	24V
	GELT604835EDR-SY	85755	1	WHITE	3500K	RIGHT	1233 x 53 x 40	500	A+	7.59	24V
	GELT604840CTR-SB	85751	10	WHITE	4000K	CENTRE	1233 x 66 x 33	844	A	12.32	24V
	GELT604840CTR-SY	85748	1	WHITE	4000K	CENTRE	1233 x 66 x 33	844	A	12.32	24V
	GELT604840EDL-SB	85753	10	WHITE	4000K	LEFT	1233 x 53 x 40	534	A+	7.59	24V
	GELT604840EDL-SY	85750	1	WHITE	4000K	LEFT	1233 x 53 x 40	534	A+	7.59	24V
	GELT604840EDR-SB	85752	10	WHITE	4000K	RIGHT	1233 x 53 x 40	534	A+	7.59	24V
	GELT604840EDR-SY	85749	1	WHITE	4000K	RIGHT	1233 x 53 x 40	534	A+	7.59	24V
	GELT604850CTR-SB	85745	10	WHITE	5000K	CENTRE	1233 x 66 x 33	896	A	12.32	24V
	GELT604850CTR-SY	85742	1	WHITE	5000K	CENTRE	1233 x 66 x 33	896	A	12.32	24V
	GELT604850EDL-SB	85747	10	WHITE	5000K	LEFT	1233 x 53 x 40	559	A+	7.59	24V
	GELT604850EDL-SY	85744	1	WHITE	5000K	LEFT	1233 x 53 x 40	559	A+	7.59	24V
GELT604850EDR-SB	85746	10	WHITE	5000K	RIGHT	1233 x 53 x 40	559	A+	7.59	24V	



Product Lines	Part	SKU	Pack Quantity	LED Colour	Colour Temperature	Mounting	Dimensions LxWxH (mm)	Lumens per Module (Typical)	EEC	kWh/1000h	Voltage
RV60 - Vertical	GELT604850EDR-SY	85743	1	WHITE	5000K	RIGHT	1233 x 53 x 40	559	A+	7.59	24V
	GELT606035CTR-SB	85714	10	WHITE	3500K	CENTRE	1533 x 66 x 33	908	A	15.29	24V
	GELT606035CTR-SY	85711	1	WHITE	3500K	CENTRE	1533 x 66 x 33	908	A	15.29	24V
	GELT606035EDL-SB	85716	10	WHITE	3500K	LEFT	1533 x 53 x 40	516	A+	7.70	24V
	GELT606035EDL-SY	85713	1	WHITE	3500K	LEFT	1533 x 53 x 40	516	A+	7.70	24V
	GELT606035EDR-SB	85715	10	WHITE	3500K	RIGHT	1533 x 53 x 40	516	A+	7.70	24V
	GELT606035EDR-SY	85712	1	WHITE	3500K	RIGHT	1533 x 53 x 40	516	A+	7.70	24V
	GELT606040CTR-SB	85708	10	WHITE	4000K	CENTRE	1533 x 66 x 33	1023	A	15.29	24V
	GELT606040CTR-SY	85705	1	WHITE	4000K	CENTRE	1533 x 66 x 33	1023	A	15.29	24V
	GELT606040EDL-SB	85710	10	WHITE	4000K	LEFT	1533 x 53 x 40	577	A+	7.70	24V
	GELT606040EDL-SY	85707	1	WHITE	4000K	LEFT	1533 x 53 x 40	577	A+	7.70	24V
	GELT606040EDR-SB	85709	10	WHITE	4000K	RIGHT	1533 x 53 x 40	577	A+	7.70	24V
	GELT606040EDR-SY	85706	1	WHITE	4000K	RIGHT	1533 x 53 x 40	577	A+	7.70	24V
	GELT606050CTR-SB	85702	10	WHITE	5000K	CENTRE	1533 x 66 x 33	1020	A	15.29	24V
	GELT606050CTR-SY	85699	1	WHITE	5000K	CENTRE	1533 x 66 x 33	1020	A	15.29	24V
	GELT606050EDL-SB	85704	10	WHITE	5000K	LEFT	1533 x 53 x 40	569	A+	7.70	24V
	GELT606050EDL-SY	85701	1	WHITE	5000K	LEFT	1533 x 53 x 40	569	A+	7.70	24V
	GELT606050EDR-SB	85703	10	WHITE	5000K	RIGHT	1533 x 53 x 40	569	A+	7.70	24V
	GELT606050EDR-SY	85700	1	WHITE	5000K	RIGHT	1533 x 53 x 40	569	A+	7.70	24V
	GELT606735CTR-SB	85739	10	WHITE	3500K	CENTRE	1714 x 66 x 33	1105	A	16.94	24V
	GELT606735CTR-SY	85736	1	WHITE	3500K	CENTRE	1714 x 66 x 33	1105	A	16.94	24V
	GELT606735EDL-SB	85741	10	WHITE	3500K	LEFT	1714 x 53 x 40	667	A	9.68	24V
	GELT606735EDL-SY	85738	1	WHITE	3500K	LEFT	1714 x 53 x 40	667	A	9.68	24V
	GELT606735EDR-SB	85740	10	WHITE	3500K	RIGHT	1714 x 53 x 40	667	A	9.68	24V
	GELT606735EDR-SY	85737	1	WHITE	3500K	RIGHT	1714 x 53 x 40	667	A	9.68	24V
	GELT606740CTR-SB	85728	10	WHITE	4000K	CENTRE	1714 x 66 x 33	1142	A	16.94	24V
	GELT606740CTR-SY	85725	1	WHITE	4000K	CENTRE	1714 x 66 x 33	1142	A	16.94	24V
	GELT606740EDL-SB	85735	10	WHITE	4000K	LEFT	1714 x 53 x 40	683	A	9.68	24V
	GELT606740EDL-SY	85727	1	WHITE	4000K	LEFT	1714 x 53 x 40	683	A	9.68	24V
	GELT606740EDR-SB	85734	10	WHITE	4000K	RIGHT	1714 x 53 x 40	683	A	9.68	24V
GELT606740EDR-SY	85726	1	WHITE	4000K	RIGHT	1714 x 53 x 40	683	A	9.68	24V	
GELT606750CTR-SB	85722	10	WHITE	5000K	CENTRE	1714 x 66 x 33	1227	A	16.94	24V	
GELT606750CTR-SY	85717	1	WHITE	5000K	CENTRE	1714 x 66 x 33	1227	A	16.94	24V	
GELT606750EDL-SB	85724	10	WHITE	5000K	LEFT	1714 x 53 x 40	745	A+	9.68	24V	
GELT606750EDL-SY	85721	1	WHITE	5000K	LEFT	1714 x 53 x 40	745	A+	9.68	24V	
GELT606750EDR-SB	85723	10	WHITE	5000K	RIGHT	1714 x 53 x 40	745	A+	9.68	24V	
GELT606750EDR-SY	85720	1	WHITE	5000K	RIGHT	1714 x 53 x 40	745	A+	9.68	24V	
RV60 100W Driver	GEPS6000NCMUL-SY	68593	1				273 x 42 x 28				24V
RV60 50W Driver	GEPS6500NCMUL-SY	68595	1				273 x 42 x 28				24V
RV60 Wire Cover	GE-CV-4060CTR	79814	1 pack of 10				45 x 36 x 30				

# Specialty LED Solutions

Product Lines	Part	SKU	Diameter (mm)	Viewing Distance (metres)	Colour	Nominal Voltage	Voltage Operating Range	Turn off Voltage	Nominal Power (W)	Ip Rating (in typical housing)	Operating Temperature Range
<b>Transportation</b>											
RM4 LED Colourlights Wayside	RM4-GCFB-28B-94GK	98698	200	≤600	GREEN	12VAC	9 - 16VAC	5VAC	16	65	-40 to +70°C
	RM4-RSFB-43B-94GK	98700	200	≤600	RED	12VAC	9 - 16VAC	5VAC	15	65	-40 to +70°C
	RM4-YCFB-43B-94GK	98702	200	≤600	YELLOW	12VAC	9 - 16VAC	5VAC	19	65	-40 to +70°C
	RM4-GSFB-75B-93DG	98699	200	≤1500	GREEN	12VAC	6.5 - 13VAC	5VAC	24	65	-40 to +70°C
	RM4-RSFB-75B-93DG	98701	200	≤1500	RED	12VAC	6.5 - 13VAC	5VAC	22	65	-40 to +70°C
	RM4-YSFB-85B-93DG	98703	200	≤1500	YELLOW	12VAC	6.5 - 13VAC	5VAC	24	65	-40 to +70°C
	RM4-GSFB-28B-96GK	33791	200	≤600	GREEN	10VDC	8 - 16VDC	3.5VDC	15	65	-40 to +70°C
	RM4-YCFB-43B-96GK	33799	200	≤600	YELLOW	10VDC	8 - 16VDC	3.5VDC	18	65	-40 to +70°C
	RM4-RSFB-43B-96GK	33804	200	≤600	RED	10VDC	8 - 16VDC	3.5VDC	18	65	-40 to +70°C
	RM4-WSFB-28B-96GK	33806	200	≤600	WHITE	10VDC	8 - 16VDC	3.5VDC	15	65	-40 to +70°C
	RM4-GSFB-75B-96G	89721	200	≤1500	GREEN	10VDC	8 - 16VDC	3.5VDC	15	65	-40 to +70°C
	RM4-YCFB-85B-96G	90020	200	≤1500	YELLOW	10VDC	8 - 16VDC	3.5VDC	15	65	-40 to +70°C
	RM4-RCFB-75B-96G	90021	200	≤1500	RED	10VDC	8 - 16VDC	3.5VDC	15	65	-40 to +70°C
	RM4-WSFB-75B-96G	90040	200	≤1500	WHITE	10VDC	8 - 16VDC	3.5VDC	15	65	-40 to +70°C
	RM4-GCFB-25A-70	90140	200	≤600	GREEN	120VAC	85 - 135VAC	45VAC	7	65	-40 to +70°C
	RM4-RSFB-25A-70	85546	200	≤600	RED	120VAC	85 - 135VAC	45VAC	7	65	-40 to +70°C
	RM4-YCFB-43A-70	85545	200	≤600	YELLOW	120VAC	85 - 135VAC	45VAC	11	65	-40 to +70°C
	GEMT3000NCM1-SY	69721	1 pack of 2		27 x 26 x 30						
TR3 LED Colourlight Transit / Tunnel	TR3-RCFB501B-92	97546	140	≤1500	RED	10VDC	8 - 16VDC	5VDC	16	55	-40 to +70°C
	TR3-YCFB501B-92	97547	140	≤1500	YELLOW	10VDC	8 - 16VDC	5VDC	16	55	-40 to +70°C
	TR3-GCFB501B-92	97652	140	≤1500	GREEN	10VDC	8 - 16VDC	5VDC	18	55	-40 to +70°C
	TR3-WCFB501B-92	97655	140	≤1500	WHITE	10VDC	8 - 16VDC	5VDC	15	55	-40 to +70°C
	TR3-RSFB301A-70	85542	140	≤600	RED	120VAC	85 - 135VAC	45VAC	4	65	-40 to +70°C
	TR3-WCFB301A-70	85543	140	≤600	WHITE	120VAC	85 - 135VAC	45VAC	4	65	-40 to +70°C
<b>TR3 LED Colourlight Transit / Tunnel</b>											
Product Lines	Part	SKU	Diameter mm	Appearance	Colour	Nominal Voltage	Voltage Operating Range	Turn off Voltage	Nominal Power (W)	Ip Rating (in typical housing)	Operating Temperature Range
TR3 LED Colourlight Transit / Tunnel	RG4-RTFB-43B	98692	200	UNIFORM	RED	10VAC/DC	8-16VAC/8-20VDC	4VAC/DC	13	65	-40 to +70°C
	RG6-RTFB-01BV1-GH7 <sup>1</sup>	98693	300	UNIFORM	RED	10VAC/DC	8-16VAC/8-20VDC	4VAC/DC	12(AC)/12(DC)	65	-40 to +70°C
	RG6-RTFB-01BV1-H7	98694	300	PIXELATED	RED	10VAC/DC	8-14VAC/8-14VDC	4VAC/DC	10.5(AC)/8(DC)	65	-40 to +70°C
	RG6-RTFB-01BV3-GH7 <sup>1</sup>	98695	300	PIXELATED	RED	10VAC/DC	8-14VAC/8-14VDC	4VAC/DC	10.5(AC)/8(DC)	65	-40 to +70°C
	RG6-RTFB-01BV3-H7	98696	300	PIXELATED	RED	10VAC/DC	8-14VAC/8-14VDC	4VAC/DC	10.5(AC)/8(DC)	65	-40 to +70°C
	RG6-RTFB-48BV1-H7	98697	300	PIXELATED	RED	10VAC/DC	8-14VAC/8-14VDC	4VAC/DC	10.5(AC)/8(DC)	65	-40 to +70°C

<sup>1</sup> Complete with gasket option

\* Customised options may be possible, contact your local sales representative for further information.







# Specialty Lighting Solutions



# Special applications

**Range of lamp technologies** fluorescent and halogen

**Multiple applications** UV, safety, Heat and Air

**Extensive range** low watt to high watt

**Variety of bases** for specific applications

**Performance** consistent lamp performance

**Output** high output for required application





GE's lighting expertise extends into many specialised areas of industry, including manufacturing, health and safety, space heating and airfield lighting.

Products for these applications include black light inspection lamps, UV germicidal lamps and halogen heaters.

GE Lighting is also a leading supplier to the entertainment industry, offering a range of lamp technologies for use in stage, studio, film and event lighting as well as archtainment, projection and photography. There is separate information covering these.



Health and Safety



Insect control



Industrial heating



Airfield

## Main application areas

### HEALTH AND SAFETY

#### Bacterial destruction

- UVC 200-280 nm
- For water, air and surface sterilisation
- Destroys micro-organisms via absorption of UV light

#### Shatter protection

- Lamp encased in high quality plastic sleeve
- Used where avoidance of glass contamination is critical

### INSECT CONTROL

- Special Phosphor – Black Light (BL)
- UVA 315-400nm
- Lamps to attract flies and insects
- Effect UV irradiance over life
- For use in fly traps
- Common use in food production areas

### INDUSTRIAL HEATING

- Turning light to heat
- Directional instant radiant heat
- Heats objects and people not the air between
- Many industrial applications from paint drying to plastic bottle making

### AIRFIELD

- Range of lamps for use on airfields
- Runway and taxiway lighting

# Specialty lamps

## Product identification

The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

### Additional parameters:

**UV Output [Watts]:** The initial UV Output at 100 hours  
**Initial UVA Irradiance [mW/cm<sup>2</sup> @ 20cm]:** UV Output at 1 m after 100 hours  
**Lumens:** Initial amount of light output  
**CCT [K]:** Colour Temperature - Kelvins  
 A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears.  
**CRI [Ra]:** Colour Rendering Index  
 An indication of the ability of the lamp to render object colours in a normal, natural way. The higher the number (0-100), the better the colour appearance.

Watts [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty	
Black Light T8							Min	Max	
15	55	G13	F15T8/BL 368	98447	368	7500	442.1	444.5	25


<p><b>Watts:</b> Energy Used – Nominal Watts. To estimate energy consumption (kWh), multiply watts x hours of use and multiply by 1000</p>	<p><b>Cap:</b> The type of cap fitted.</p>	<p><b>Product description:</b> The lamp's identification code</p>	<p><b>Peak Wavelength [nm]</b></p>	<p><b>Length:</b> Lamp length from base face to end of opposite pin in mm</p>
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<p><b>Volts:</b> Lamp data is based on operating voltage</p>	<p><b>(F) Identifies the lamp as Fluorescent</b></p>	<p><b>(15T8)</b> Identifies the lamp's wattage and diameter</p>	<p><b>(BL)</b> Identifies product type</p>	<p><b>Product code:</b> It is important to use this code when ordering to ensure that you receive the exact product you require</p>	<p><b>Life:</b> Rated average life</p>	<p><b>Pack quantity:</b> Number of product units packed in a case</p>
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# Selector

## Health and Safety



**UVC Germicidal T5/T8**  
 Lamp volts: 29-155V  
 Watts: 4-65W  
 Cap: T5: G5, Fa8  
 T8: G13  
 Life: 7000-9000h  
 Packing: 24




**covRguard™  
Polylux XLR™**  
 Wattages: 18-58W  
 Colours: White  
 and Cool White  
 CRI (Ra): 80+  
 Rated life: 15,000Hrs


## Insect control



**Black Light T8**  
 Lamp volts: 55V  
 Watts: 15W  
 Cap: G13  
 Life: 7500h  
 Packing: 25




**UVA Blacklight Biax™**  
 Lamp volts: 60V  
 Watts: 9W  
 Cap: G23  
 Life: 167h  
 Packing: 10




**UVA Blacklight Biax™ L**  
 Lamp volts: 106V  
 Watts: 36W  
 Cap: 2G11  
 Life: 1280h  
 Packing: 10

## Industrial heating



**Quartz Heat**  
 Lamp volts: 120-600V  
 Watts: 500-3800W  
 Cap: Slv, R7s, CER  
 Life: 5000h  
 Packing: 6, 12

## Airfield



**Airfield**  
 Lamp volts: 6.6A to 120V  
 Watts: 30-1000W  
 Cap: Various  
 Life: 30-1000h  
 Packing: Various



Special purpose lamps.  
Not suitable for household illumination.

# Specialty lamps

## Health and Safety

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	UV Output [Watts]	Life [h]	Length [mm]	Pack Qty	
<b>UVC Germicidal T8</b>							Min.	Max.	
15	49	G13	G15 T8	63607	4.8	9000	442	444.4	24
25	43	G13	G25 T8	63608	7.2	9000	442	444.4	24
30	98	G13	G30 T8	63609	11.3	9000	899.2	901.6	24
55	87	G13	G55 T8 HO	63610	19	9000	899.2	901.6	24



## Insect control

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Initial UVA Irradiance [mW/cm2 @ 20cm]	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
<b>UVA Blacklight Biax™ - Internal Starter</b>									
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

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	CCT [K]	Life [h]	Length [mm]	Pack Qty
<b>Quartz Heat</b>								
500	120	R7S	QH500T3/CL/7	21787	2400	5000	220.5	12
1000	230-250	Slv	QH1000T3/CL	22357	2400	5000	351	12
1200	144	Slv	QH1200T3/CL	22531	2450	5000	223.8	12
1200	144	Slv	QH1200T3/CL/HT	22532	2450	5000	223.8	12
1600	230-250	R7S	QH1600T3/CL/7	22691	2400	5000	498.4	12
1600	230-250	Slv	QH1600T3/CL	22688	2400	5000	503	12
2000	230-250	Slv	QH2M/T3/CL/HT	22790	2450	5000	350.8	12
2000	230-250	CER	QH2MT3/CL/HT/R	12716	2450	5000	352.5	12
2500	460-500	Slv	QH2500T3/CL	22838	2400	5000	731	12
3650	480	Slv	QH3650/CL/5	10872	2500	5000	1057	6
3800	550-600	Slv	QH3800/CL	22875	2500	5000	1062	6



UVA Biax L



Quartz Heat







Wattage (W)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	Life (h)	Length (mm)	Pack Qty
30	6.6A	G29.5 2 Pin	EXL	11478	375	1000	44.5	24
45	6.6A	G29.5 2 Pin	EXM	11482	750	1000	44.5	24
45	6.6A	Mycalex cap & Prefocus collar	AF6/2 6.6A 45W	88420	760	600	54	100
100	6.6A	Mycalex cap & Prefocus collar	AF 6/5T 6.6A 100W	88417	2100	600	60	100
200	6.6A	Scrw Term	Q6.6A/PAR56/3	33279	NA	1000	114	12
200	6.6A	Mycalex cap & Prefocus collar	AF7/2 6.6A 200W	88413	4800	600	54	100
200	6.6A	D.C.Bay	Q6.6AT4/DCR	23860	5150	500	64	12
200	6.6A	Special 1" Ribbon Leads	Q6.6A/T4/SCL	23857	5000	500	76	12
300	20A	Mog End Pr GX16d	Q20A/PAR56/C	15482	NA	500	127	12
499	20A	Scrw Term	Q20A/PAR56/3	23863	NA	500	114	12
1000	120	G38 Mog BiPost	IM T20BP	88525	22000	500	241	12



# Photosynthesis Light for Horticulture



## Lighting for growth Lamps and lighting for horticulture

**Properly balanced** blue and red colours to optimise growth

**Improves** the yield and quality of greenhouse crops

**Specially developed** for horticulture

**More PAR** on average compared to standard HPS

**Stable** PAR performance

**Wide range** 250-750W





Horticulture

## Main application area

### Greenhouses

Growers of food plants find artificial light just as important as it is for flowering plants. GE's specially-developed range of horticultural lamps enable growers to use artificial lighting to improve the yield and quality of greenhouse crops and time growth to meet market demands.

Light output and lumen maintenance on their own are not enough to create plant growth. Plants require a certain radiation level to help with the photosynthesis that enables them to grow, and others factors such as day length also play an important part. Photosynthetically Active Radiation (PAR), measured in micromole/sec, is essential for plant growth. Lucalox™ Photosynthesis Lamps (PSL) are high pressure sodium lamps with a spectrum that gives the best possible PAR, with stable lumen and micromole maintenance, in a greenhouse lighting regime.

Lucalox™ PSL lamps are available in 230V with 250W, 400W and 750W options, and in 400V with 600W, 750W.

## Lucalox™ *PhotoSynthesis Lamp (PSL) range*

GE's range of horticultural lamps has been extended with the addition of 600W electronic product, so the range now spans 250-750 watts with 230 and 400 volt options, to suit both OEMs and growers.



### NEW PRODUCT

#### 600W 400V Electronic PSL

- High initial mean PAR 1120 $\mu$ Mol
- Long service life of 12,000 HOURS (B10)



# PSL technology

## Performance and reliability

- GE's advanced sodium resistant ceramic helps eliminate early failures to give a rated service life of 10,000 to 12,000 hours for Lucalox™ PSL products.
- In order to achieve maximum performance, GE recommends lamp replacement when the Rated Service Life is reached.
- The lamps use extra rugged monolithic arc tubes equipped with GE Reliable Starting Technology which provides continuous high performance.

## Photosynthetically Active Radiation to extend daylight

The effect of optical radiation on plants has been studied extensively. Generally, photons emitted in the spectral region of 400-700nm are particularly effective. Therefore the simple measurement of the quantity of light (Lux) is not sufficient for the horticultural market. Photosynthetically Active Radiation (PAR) and Photosynthetic Photon Flux (PPF) are more useful measurements.

PPF is defined as flux of the photons emitted in the 400-700nm wavelength range by the light source. It is expressed in micromoles/second ( $\mu\text{mol/s}$ ), where 1 micromole means  $6 \times 10^{17}$  photons.

The Lucalox™ PSL range from GE has optimised spectra for greenhouse use, with an enhanced red portion of the light output.

- Plants can be used over a longer period
- In winter, fruit can be produced with taste to match summer fruit
- Production can start earlier
- Year-round cultivation is possible

## High xenon-fill gas

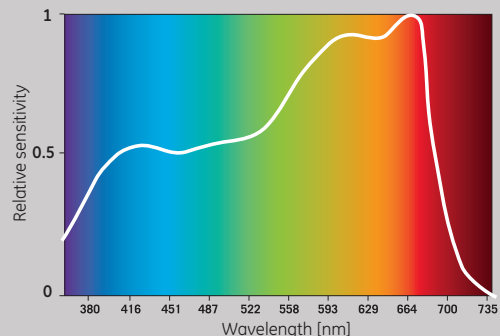
- Extra light and PAR (Photosynthetically Active Radiation) output.
- More resistance to mains voltage fluctuations.

## Zirconium gettering system

- Improves PAR maintenance that drives constant and uniform plant growth.
- The diameter of the frame wire in the lamp has been minimised to reduce shading in the installation without affecting the robustness of the lamp.
- Monolithic arc tube construction for durability and lumen maintenance.

## Spectral range

Plants respond to light of varying colour. In general, red light causes plants to become tall and "leggy" while blue light, when used alone, can cause low, stocky growth. A proper balance of red and blue energy produces plants that have normal growth and shape.



*Plants have different sensitivity to different wavelengths.*

## Day and night Photoperiodism

The relative length of day and night and the seasons is important to plants. The number of hours of darkness in a 24-hour cycle is an important factor in determining blossoming and growing time.

Night length triggers seed germination, tuber and bulb formation, and other growth characteristics such as colour, enlargement of leaves and stem size and shape. This rhythmic characteristic is called photoperiodism and is of great value to growers.

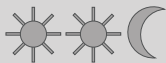
Plants can be classified according to photoperiodicity.

### Short day (long night)



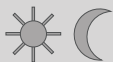
The perennial *Chrysanthemum* and the *Poinsettia*, which flower in the autumn, are examples of *short-day (long-night)* plants. They fail to flower when the day length, or period of light, is extended beyond a critical value.

### Long day



*Long-day* plants, such as the *China Aster* and *Tuberous Rooted Begonia*, flower only with a day length longer than a critical value.

### Day neutral



*Day-neutral* plants, such as the *Rose* and *Carnation*, are not limited by photoperiod.

*Understanding these principles enables commercial growers to use artificial light profitably, so that flowering and vegetable harvesting can be timed for markets.*

## Timing

### Slow down

The *Perennial Chrysanthemum* is a short-day length plant that will not flower when the day is long (short-night). To postpone flowering *Chrysanthemum* growers, instead of lengthening the day, interrupt the night for about four hours. This makes the night appear short to plants, which then continue to grow vegetatively instead of starting to flower.

A more economical method of postponing flowering of *Chrysanthemums* is to apply cycles of light, switching light on for 10 minutes and off for 50 minutes, for four hours during the night, instead of applying light continuously. This is cyclic lighting. It is an effective way of growing flowers. If lighting levels are higher then the grower will see better stem and flower quality and less opportunity for disease.

### Speed up

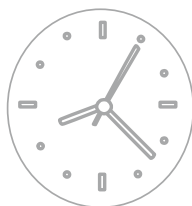
The *China Aster* is a typical long-day (short-night) plant. Long-day plants can be brought to flower ahead of the normal time by lengthening the day. Relatively low intensities of light are enough to induce flowering, when applied early in the morning or at the end of the day. A dark-period interruption - from a few minutes to a few hours - as with other long-day plants, effectively induces flowering just as it inhibits flowering of short-day plants.

*Poinsettias* must have complete and continuous darkness for about 12 hours a day in order to flower. Even 1 minute of light in the middle of the dark period will prevent their flowering.

*Tuberous Begonias* flower only when daily dark periods are short - less than 12 hours - but they require long dark periods for best production of tubers. Flowering of tomatoes, however, is not influenced by photoperiod.



## Setting the clock



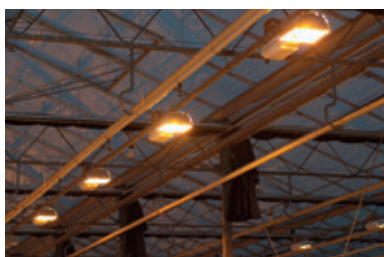
### Add

Use Lucalox™ PSL as an additional daytime source of light, boosting existing light levels and aiding photosynthesis.



### Extend

Use Lucalox™ PSL as a means of extending the growth time per day. Lights can be switched on at dusk or other non daylight hours.



### Extend

Use Lucalox™ PSL as an extension to the growing season through usage during the winter months.



### Substitute

Use Lucalox™ PSL as a complete natural light substitute for total environmental control in growing rooms and biological research establishments.

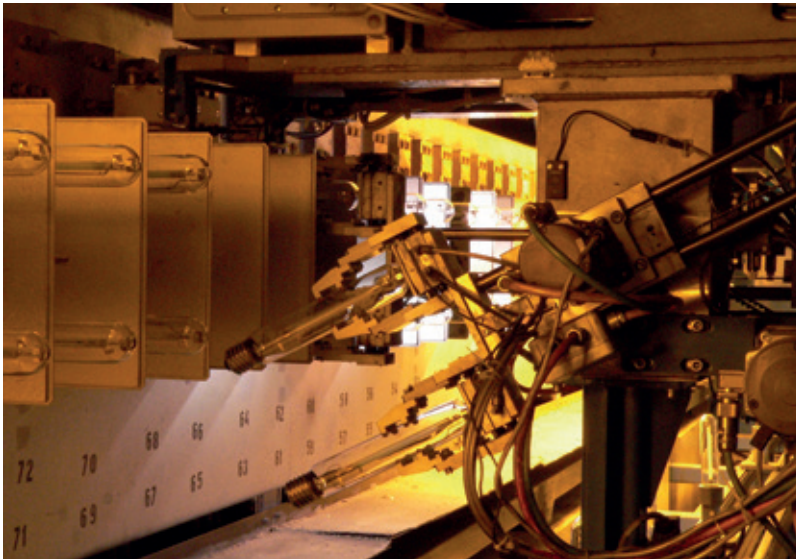
### Plant colour and leaf formation

Photoperiod also influences plant responses such as colour and formation of the leaves.

*Coleus*, for example, under continuous lighting, produces dark red leaves with bright green edges. Less than 10 hours of light per day results in less sturdy plants and paler colours. The tulip bulb is the main source of food reserve, and the light is needed mainly to develop the plants' green colour. Stems attain their greatest length if grown under lighting.



## Quality from start to finish



### Reliable performance

While light quality is paramount, reliability and performance have also been key factors in the development of the Lucalox™ PSL lamp range.

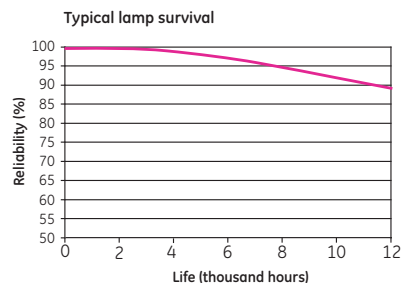
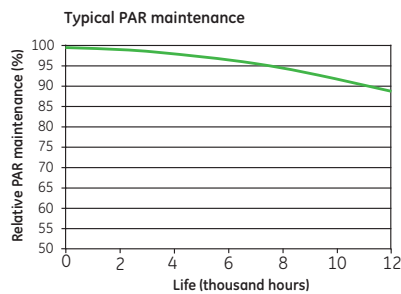
Robust construction, reliable starting technology and improved lumen maintenance ensure peace of mind against early lamp failures and provide the consistency demanded for perfect growing conditions.

### Guaranteed

GE is constantly engaged in a global quality process. A statistical quality system, designated SIX SIGMA, is applied in all areas of the company from manufacturing through to sales. The lamps comply with the IEC/EN 62035 standards.

GE offers warranties to distributors of its Lucalox™ PSL lamps. The warranty comprises two parts:

- Warranty on lamp reliability (Lamp Survival).
- Warranty on PAR (Photosynthetically Active Radiation) maintenance.



# Selector

## Single ended 230V



### 230V 250W

Lamp volts: 115V  
Current: 2.7A  
Watts: 250W  
100 h lumens: 33,000  
100 h PAR: 430  $\mu\text{mole/sec}$   
Packing: 12 or 63



### 230V 400W

Lamp volts: 110V  
Current: 4.3A  
Watts: 420W  
100 h lumens: 56,500  
100 h PAR: 710  $\mu\text{mole/sec}$   
Packing: 12 or 63



### 230V 600W

Lamp volts: 115V  
Current: 6.0A  
Watts: 615W  
100 h lumens: 90,000  
100 h PAR: 1080  $\mu\text{mole/sec}$   
Packing: 12 or 63



### 230V 750W

Lamp volts: 115V  
Current: 7.4A  
Watts: 755W  
100 h lumens: 112,000  
100 h PAR: 1320  $\mu\text{mole/sec}$   
Packing: 12 or 63

## Single ended 400V



### 400V 600W

Lamp volts: 200V  
Current: 3.6A  
Watts: 620W  
100 h lumens: 85,000  
100 h PAR: 1120  $\mu\text{mole/sec}$   
Packing: 12 or 63



### 400V 600W EL

Lamp volts: 200V  
Current: 3.6A  
Watts: 620W  
100 h lumens: 85,000  
100 h PAR: 1120  $\mu\text{mole/sec}$   
Packing: 12 or 63  
(Electronic ballast)



### 400V 750W

Lamp volts: 205V  
Current: 4.4A  
Watts: 765W  
100 h lumens: 104,000  
100 h PAR: 1390  $\mu\text{mole/sec}$   
Packing: 12 or 63



Special purpose lamps.  
Not suitable for household illumination.

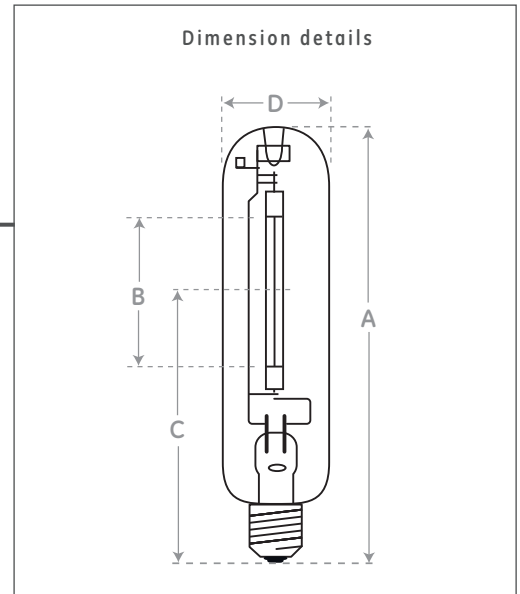
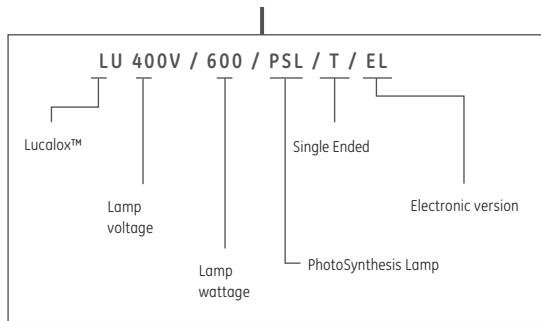
# Horticulture Lamps

## Product identification

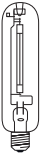
The following glossary of terms will help you when selecting lamps in this section. Within each product line, lamps are divided into families – within these families, lamps are listed by wattage. The Product Description can be used as a quick reference to each product's attributes. Where Life or Average Life are stated we refer to the industry standard definition of how many hours of operation 50% of a given installation will exceed.

Product description: Lamp reference – describes the lamp's main characteristics			Product code: GE SKU code. Choose code according to pack quantity.		Dimensions: In mm. See diagram.				Performance: This gives an indication of the lamp's brightness and its effect on plant growth.					
Volts (V)	Current (A)	Power* (W)	Product Description	Product Code (12 pack)	Product Code (63 pack)	Max Length A (mm)	Arc gap B (mm)	LCL C (mm)	Diameter D (mm)	Cap	100 hour lumens (Lumens)	100 hour PAR (µmole/sec)	Bulb glass	Operating position
200	3.6	620	LU400V/600W/PSL/T	43440	43439	292	124.5	169	48	E40/45	85,000	1120	Hard	Universal

### 400V - E40 Cap



Volts [V]	Current [A]	Power* [W]	Product Description	Product Code [12 pack]	Product Code [63 pack]	Max Length A [mm]	Arc gap B [mm]	LCL C [mm]	Diameter D [mm]	Cap	100 hour lumens [Lumens]	100 hour PAR [µmole/sec]	Bulb glass	Operating position
<b>230V - E40 Cap</b>														
115	2.7	250	LU250W/PSL/T	88665	N/A	260	64	158	48	E40/45	33,000	430	Hard	Universal
110	4.3	420	LU400W/PSL/T	17106	44304	292	87	175	48	E40/45	56,500	710	Hard	Universal
115	6.0	615	LU600W/PSL/T	17107	44305	292	125	169	48	E40/45	90,000	1080	Hard	Universal
115	7.4	755	LU750W/PSL/T	17108	44306	293	130	178	51	E40/45	112,000	1320	Hard	Universal
<b>400V - E40 Cap</b>														
200	3.6	620	LU400V/600W/PSL/T	43440	43439	292	124.5	169	48	E40/45	85,000	1120	Hard	Universal
200	3.6	620	LU400V/600/PSL/T/EL**	63919	63922	292	124.5	169	48	E40/45	85,000	1120	Hard	Universal
205	4.4	765	LU400V/750W/PSL/T	43438	43437	293	143	175	51	E40/45	104,000	1390	Hard	Universal



\* Depending on system conditions, lamp power can vary by  $\pm 2.5\%$

\*\* Electronic ballast

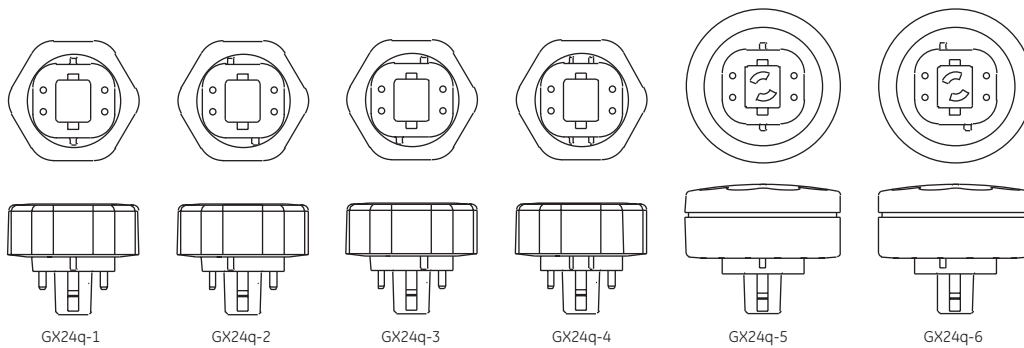
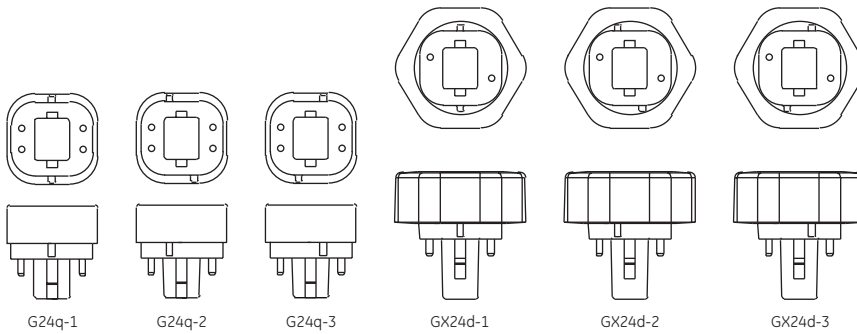
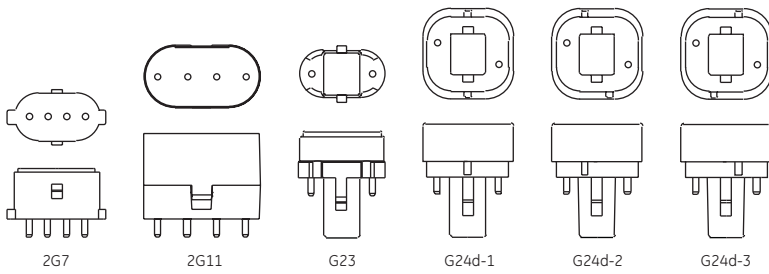
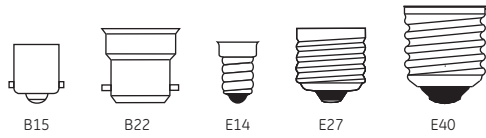
## Brand cross reference

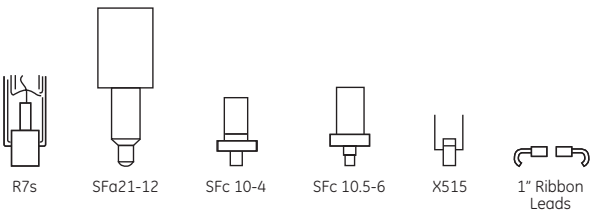
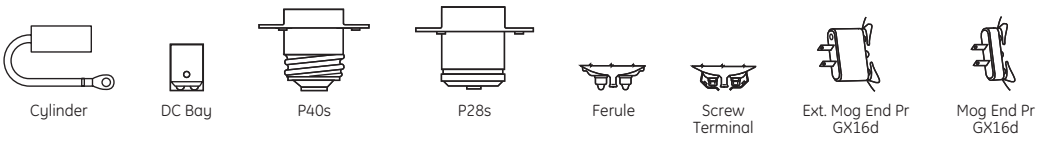
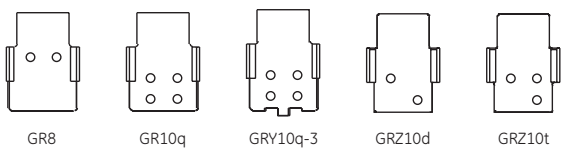
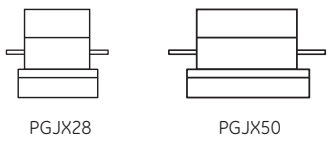
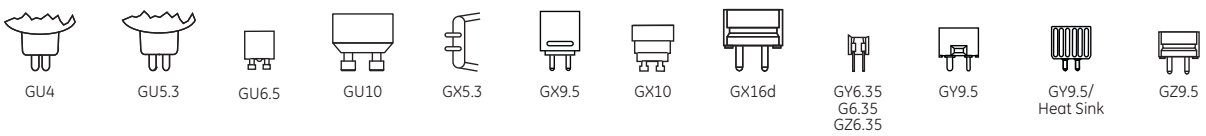
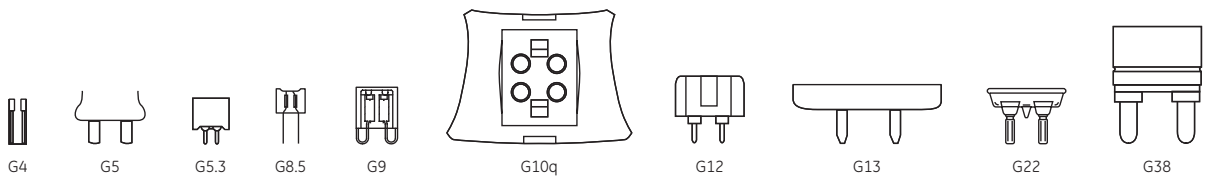
The following table shows GE and alternative brand Product Descriptions. These cross references are provided as a quick guide and may only represent a near equivalent to other brands. The table contains data from alternative brands' catalogues and website.

GE	PHILIPS	Osram	Sylvania
LU250W/PSL/T		Plantastar Inter 250	
LU400W/PSL/T	MASTER GreenPower 400W EM 230V	Plantastar 400	SHP-TS GroLux 400W
LU600W/PSL/T	MASTER GreenPower 600W EM 230V	Plantastar 600	SHP-TS GroLux 600W
LU750W/PSL/T			
LU400V/600W/PSL/T	MASTER GreenPower 600W EM 400V		SHP-TS GroLux 600W-400V
LU400V/600/PSL/T/EL	MASTER GreenPower 600W EL 400V		
LU400V/750W/PSL/T			

# Cap drawings

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





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