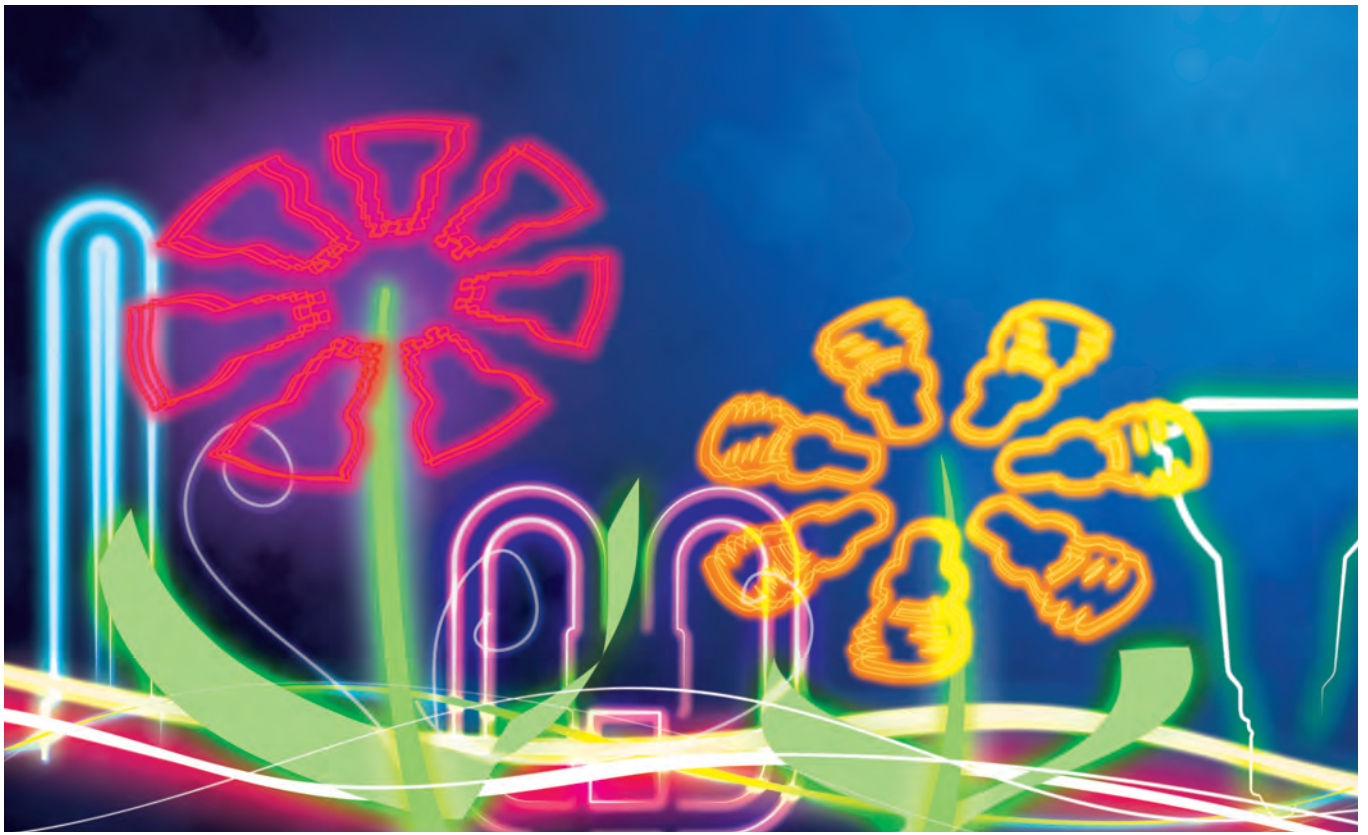
GE
Lighting

WORLDWIDE PARTNER

Spectrum

Lamp product catalogue 2010/2011



GE imagination at work

GE
Lighting

Spectrum

Lamp product catalogue 2010/2011

GE imagination at work

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.

www.gelighting.com/eu

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

Contents

Introduction	04
LED Solutions	06
High Intensity Discharge Lamps	32
Linear Fluorescent Lamps	56
Compact Fluorescent Lamps Non-Integrated	72
Compact Fluorescent Lamps Integrated	84
Halogen Lamps	96
Incandescent Lamps	110
SHOWBIZ™ Lamps	124
Specialty Lamps	140
Cap Drawings	148
Fittings	150
Index	152
Glossary	172
Sales Offices	184

This is GE... It begins with the best ideas in class and leads to quality products with proven demand, for which GE can offer long term services. We build client relationships with our customers to spark off ideas for new innovations.

imagination at work

GE has always been a company that stands for progress. For more than 130 years we have been able to tell stories about GE innovations. GE's new imagination at work approach is about GE people, their curiosity, relentless drive, hard work and willingness to take risks – combined with a foundation of limitless imagination – that makes anything possible. It's a legacy of progress that began with our founder, Thomas Edison, and one that will continue through the 21st century. At GE, what we imagine, we can make happen.

Our company began with the invention of the world's first affordable incandescent lamp. A century later, GE is still bringing light to your world. We are developing new lighting technologies such as ceramic metal halide and light-emitting diodes that operate with more efficiency, less cost and less environmental impact than ever before.

We provide solutions for commercial, industrial and residential use in more than 100 countries, bringing to market new technologies that help customers and consumers meet pressing environmental challenges, whilst delivering a comfortable lighting environment for both work and domestic settings.

WORLDWIDE PARTNER

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.

ecomagination℠

The future can seem pretty intimidating: Our known reserves of oil and natural gas are expected to be depleted by 2045, the climate is changing, and more than a billion people lack clean water. At GE, we believe some of the world's most pressing challenges present an opportunity to do what we do best: **imagine and build innovative solutions that benefit our customers and society at large.**

As a global leader in energy, technology, manufacturing, and infrastructure, GE is uniquely suited to help solve environmental challenges, today and for generations to come. Our customers want a more prosperous, cleaner future. By harnessing our most abundant renewable resource – the imagination of our people – we can create that future with them. We are taking a new approach to solving some of our customers' toughest environmental problems. **We call it ecomagination.**

Our Heritage, Our Future

We believe that better technology is the answer to our customers' environmental challenges. And we are confident we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison. Throughout our 130-year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by researching and developing next-generation clean technologies. Our goal is to be a leader in bringing clean energy, air, and water and improved quality of life to all the world's citizens.

LED – a revolution in lighting. Light Emitting Diodes (LEDs) were invented by GE scientists in the 1960s and are vastly different from traditional light sources.

At GE, we have an outstanding track record in designing and building award winning LED solutions. Our world-class engineers combine the best available components with innovative optical, electrical and thermal designs to create LED lamps and systems that are optimized for superior performance. We are superbly positioned to continue as an industry-leading innovator for years to come.

The benefits of using LEDs can include:

- Up to 90 percent energy-cost savings
- A long useful life of up to 50,000 hours
- Minimized maintenance and related costs
- Excellent low temperature performance
- No mercury or lead
- Extremely low UV (ultraviolet) and IR (infrared)

Combining GE's innovative LED lamps and systems with creative lighting design can lay the foundation for a new generation of cutting edge, energy efficient lighting schemes.

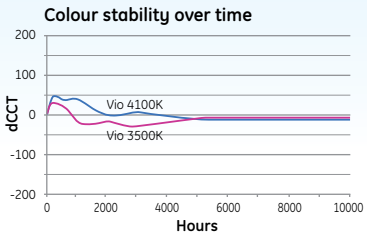
Advanced lighting technologies

Best Quality and Most Stable Light

Vio

High power white LED
The look that lasts

- Unique combination of Violet LEDs and multi-phosphors
- 50,000 hours of exceptionally high quality light
- Less than 75K colour shift over life
- 1.2, 3.6 and 7.2W versions offering up to 350 typical lumens



winner
THE LIGHTING DESIGN AWARDS 2009

Innovative Designs

GE LED Display Case

Innovative optics combine ambience with sparkle

- Innovative optics, putting light exactly where it's needed
- Excellent thermal management combined with aesthetic designs
- Ease of use features
- Complete systems approach with controls and accessories

NGL2008

Best in Class Award

Outstanding Reliability

GE LED Cove

Up to 50,000 hours of Cove lighting

- GE LED products are tested in one of the world's leading reliability laboratories
- Rigorous test protocols used at system and device level
- 10 years experience in LED systems in harsh outdoor applications
- Exceptionally low warranty return rates

NGL2008

Special Recognition

Next Generation Luminaires competition recognizing design excellence of LED luminaires.

Advanced lighting technologies

Versatility with Superb Quality of Light

Tetra AL10

Best in class linear LED system

- Exceptional colour rendering – 93 CRI
- Choice of 4 optical distributions
- 2 fixture lengths and 2 body colours that can be combined
- Long rated life of 50,000 hours

Retail Lighting Solutions that Pay Back

Immersion™ Refrigerated Display Lighting

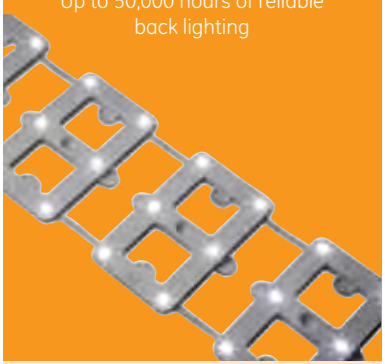
For dramatic reductions in total cost of ownership

- Significant reductions in energy consumption and maintenance costs
- Multiple colour temperatures and lengths, allowing the right look to be created in store
- Reduced glare and improved product visibility, keeping focus on the merchandise

Innovative Designs

Tetra PowerGrid

Up to 50,000 hours of reliable back lighting



- Up to 64% more energy efficient than fluorescent
- Long rated life of 50,000 hours
- Large viewing angle: 120°
- Impact resistant: robust & over molded design
- Easy to install & easy to handle

NGL2009

Special Recognition

Next Generation Luminaires competition recognizing design excellence of LED luminaires.

Retrofit upgrades

For Energy Saving

Halogen GU10

upgrade to

GE LED 4W GU10

GE LED 4W GU10

- Same candela and beam angle as 20W halogen – 80% energy saving
- Equivalent size to halogen GU10 lamps
- 7.5 times rated life, to 70% lumen maintenance
- Warm white 3100K
- Excellent colour rendering 80+

For Energy Saving

Incandescent R50

upgrade to

GE LED 4W R50

GE LED 4W R50

- Same candela and beam angle as 40W incandescent – 90% energy saving
- Equivalent size to incandescent R50 lamps
- 15 times rated life, to 70% lumen maintenance
- Warm white 3100K
- Excellent colour rendering 80+

For Energy Saving

Incandescent R63

upgrade to

GE LED 7W R63 WFL

GE LED 7W R63 WFL

- Similar candela to 60W R63 incandescent lamps (36° version)
- Similar beam angle to incandescent R63 lamps (36° version)
- Consumes almost 90% less energy than 60W incandescent R63
- Long life – 20,000 hours to 70% lumen output
- Same size as incandescent R63 lamps
- Uses industry standard E27 base
- Warm white 2700K and 3000K
- Excellent colour rendering 80+

For Energy Saving

Halogen PAR30

upgrade to

GE LED 10W PAR30

GE LED 10W PAR30

- Designed for retrofit replacement of halogen PAR30 with maximised energy reduction
- Light output and beam spread comparable to commercially available halogen PAR30 lamps
- Long life - designed for 45,000 hours on like for like measure versus incandescent & halogen
- Warm white with CRI >80
- Choice of colour temperatures (2700K & 3000K)
- Same size as halogen PAR30 lamps
- Comparable size to incandescent R95 lamps.
- Industry standard E27 cap

NEW in 2010 LED Decor range

GE's LED Decor range delivers incandescent-like sparkling and diffuse light effects, making them ideal for general and decorative lighting in home and hospitality applications. Available in clear and frosted finishes, the range encompasses candle, spherical, globe and miniature GLS shapes that can fit all existing fixtures with E14, E27 and B22 sockets.

GE LED GLS

GE LED Candle

GE LED Globe

GE LED Spherical

Vio High Power White LED

The **look** that **lasts**™

"A major advance in colour stability"
Lighting Design Awards Judges Panel

The Vio LED story

By combining highly efficient 405 nm violet chips with proprietary phosphors, Vio LEDs enable tremendous flexibility in colour temperature and CRI. The result is a very stable, warm white colour, with minimal part-to-part colour variation. Plus, it is diffused, for a pleasing, more uniform light similar to a soft white incandescent lamp. Vio LEDs produce white light that meets the high standards of lighting designers.

Colour stability over life

Since the colour change is less than 75 Kelvin over 50,000 hours, Vio LEDs can be used with confidence in general illumination applications as a replacement for traditional light sources. Not only will Vio LEDs create the mood a lighting designer is looking for, it will maintain the mood over time.

Application areas

- General: **pendant, sconce**
- Commercial: **task, display**
- Landscape: **pathway, in-ground**
- Architectural: **wall wash, marker**

High flux package in warm white colours

Our integrated chip technology produces high light output in a single package. This reduces design complexity for lighting manufacturers, while still providing a "quality of light" solution.

Vio™

winner
THE LIGHTING DESIGN AWARDS 2009

Vio LED MR16 Module

The **look** that **lasts**™

GE's award winning Vio™ LED technology is now available in an easy to use modular format that can be used in place of a 50mm halogen MR16 lamp, offering excellent quality of light and substantial energy saving possibilities.

NEW for 2010

Vio LED™ MR16 Module features and benefits

- Replaces MR16 lamps in recessed downlight and spotlighting applications
- 3.6 Watts for optimised energy saving
- Runs from 350mA constant current DC supply – compatible with range of LED drivers
- Dimensions smaller than MR16 lamp – same diameter, shallower depth
- Vio quality and stability of light – only available from GE
- 50,000 hour L70 lifetime
- High colour rendering index option
- Choice of three colour temperatures
- Attractive 'faceted reflector' appearance similar to halogen

NEW GE Infusion LED Modules

The Industry's first user-friendly field-replaceable LED Lamp Module

"LED Luminaires are judged by serviceability and replaceability"

Daniel Blitzer, LC, IESNA, The Practical Lighting Workshop Principal,
DOE Conference July 2009

Key features

- **Allows upgradable luminaires to be designed knowing that future LED technology advances can be incorporated**
- **Easy 'simple twist' installation and replacement**
- **Optimised interface, with thermal, electrical and mechanical elements all separated**

NGL2008

Best in Class Award

AZARA luminaire by Journee

Sustainable lighting for the urban environment

LED Area Lighter

Special Recognition

A classic, aesthetic and futuristic luminaire, combining strength, reliability and incorporating all the features of a new generation of luminaires. Optimal photometric performance using LED technology, minimises light emission towards the upper hemisphere and a high degree of protection.

Application

Site, area and general lighting utilizing advanced LED optical system providing high uniformity, improved vertical light distribution, reduced both off site & on site glare and effective security light levels.

Iberia LED

Special Recognition

Iberia LED is a decorative LED luminaire. In wattages up to 90W, it is available with symmetrical and asymmetrical distribution. The flexibility of the different options that are available means it is suitable for all applications in amenity lighting, pedestrian and squares.

Application

Due to the different options and versatility it is suitable for all architectural and urban environments, including street lighting.

NEW for 2010

High energy efficiency LED solutions coming up in 2010 for general floodlighting, tunnel and road lighting.

Tunnel LED luminaire is specifically designed for lighting tunnels and underpasses. White light is proven to help drivers to recognise shapes and colours. In addition, LEDs increase safety in tunnels as in the event of a power interruption, they instantly restrike, unlike HID sources.

Floodlight LED meets a variety of lighting needs across different applications such as architectural lighting, floodlighting and signage lighting.

Road LED is a street lighting luminaire with an advanced LED optical system that provides improved horizontal and vertical uniformity, reduced glare and improved lighting control compared with traditional HID systems.

Best in Class Award

Tetra AL10

LED linear system with extremely high colour rendition

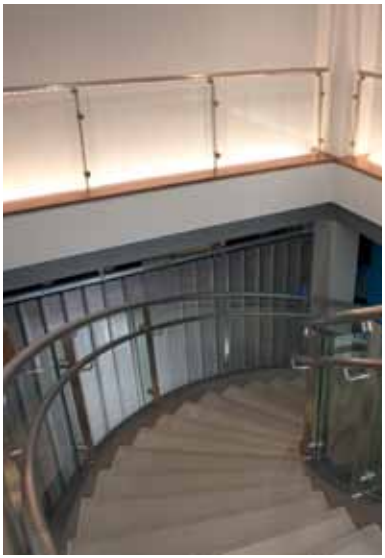
A versatile linear LED system offering an industry best in class colour rendering of 93. Suitable for a variety of retail and architectural applications, this slim and modular fixture offers multiple lengths, beam angles and mounting angles - making it easy to incorporate into a wide array of designs.

An extremely long lifetime of 50,000 hours allows reduction of material and labour expenses associated with relamping. Combined with reduced energy consumption - up to 40% compared to T5 fluorescent - Tetra AL10 can significantly reduce operating costs.

Applications:
Ideal for cove, retail under shelf, under cabinet, accent and task lighting.

Features and benefits

- **Best in class CRI of 93**
- **Slimline**
- **Choice of 3 colour temperatures**
- **Choice of 4 optical distributions**
- **High light levels**
- **Low energy consumption**
- **2 fixture lengths & 2 body colours that can be combined**
- **Low weight**
- **Long rated life of 50,000 hours**
- **Fully dimmable: 0-10V**



Tetra LED Architectural Series

Tetra Contour

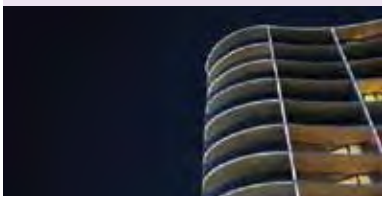
A flexible, IP66 rated LED light engine which is used in conjunction with a rigid optically diffused light guide that can be heat formed to fit a wide variety of lighting designs.

Applications:

Ideal for border lighting, interior art, cove and accent lighting.

Features and benefits

- Up to 40% more energy efficient than neon
- Choice of 6 standardised colour temperatures
- High light levels
- Extra large viewing angle: 330° with light guide (110° without)
- Impact resistant: robust & overmolded design
- Easy installation
- Long rated life of 50,000 hours
- High IP rating: IP66 (dry, damp or wet location use)
- Multiple LED light colours: white, red, green, blue



Tetra miniMAX

Low profile LED string that combines high-brightness with OptiLens™, delivering brilliant and uniform light in a wide 155-degree angle.

Applications:

Ideal for indirect and accent lighting.

Features and benefits

- Choice of 6 standardised colour temperatures
- Optimised performance with OptiLens™
- Large viewing angle: 155°
- Impact resistant: robust & overmolded design
- Easy to install & easy to handle
- Long rated life of 50,000 hours
- Multiple LED colours: white, red, green, blue

Tetra PowerGrid

A modular, long-life and energy efficient LED system for applications that require broad and uniform lighting. Creative & over molded design, offering dramatic cost of ownership reductions versus fluorescent.

Applications:

Ideal for backlighting walls, ceilings and under cabinets.

Features and benefits

- Up to 64% more energy efficient than fluorescent
- 6 LEDs per module
- Choice of 6 standardised colour temperatures
- High light levels
- Large viewing angle: 120°
- Impact resistant: robust & overmolded design
- Easy to install & easy to handle
- Long rated life of 50,000 hours

Immersion™ Refrigerated Display Lighting

Greater visual appeal

Brighter, more uniform look throughout the case area

GE's Immersion™ LED Refrigerated Display Lighting offers brilliant light and consistent uniformity in retail freezer and chiller applications. Thanks to unique GE optics, Immersion™ keeps the light directed on the shelves, providing higher average lux levels and a more uniform light distribution across the package facings. The reduced light spill eliminates distracting glare, making aisles feel larger and more spacious.

Immersion™ LED Display Lighting from GE is changing the way people look at refrigerated cases.

- **Store owners will benefit from significant reductions in energy consumption and maintenance costs.**
- **Merchandisers will be able to create the right look for their store.**
- **Shoppers will benefit from improved product visibility, keeping focus on the food packages inside the case.**

Multiple colours, multiple lengths to create the right look

Our Immersion™ system was designed to be easily incorporated into new refrigerated cases or retrofitted into existing cases. We offer a choice of 3 lengths, and 3 colour temperatures (3500, 4100 and 5000K), giving retailers the flexibility to create the right look for their stores.

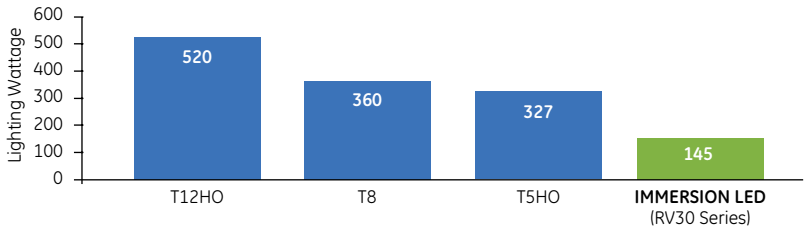
Increased energy savings

Lower wattage reduces electric bills

In the charts below, if you compare Immersion to T8 fluorescent, you could save 215 watts from running the lighting system and an additional 98 watts from reduced compressor work – for a total of 313 watts saved.

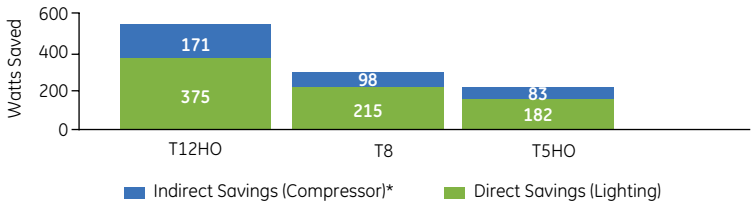
Lighting System Wattage

5-door case example (Long light fixtures)



Immersion Wattage Savings:

5-door case example (Long light fixtures)



*Compressor savings are dependent on case temperature and design.

Reduced maintenance costs

Long life in cold environments

GE's Immersion™ system is rated to perform for 50,000 hours – that's up to 4 times longer than fluorescent. Additionally, unlike fluorescent tubes, LEDs do not require time to warm up and experience no reduction of life from being turned on and off in cold environments. This superior performance and reliability is backed by a 5-year limited warranty.

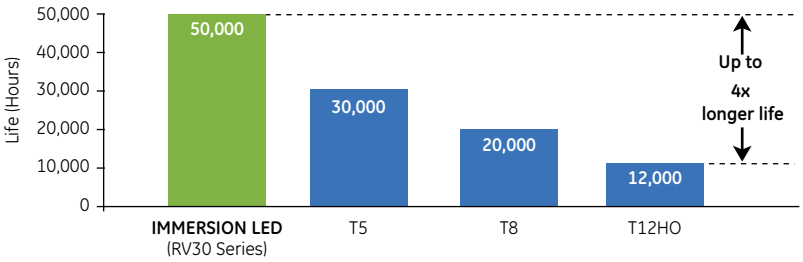
Environmentally responsible

Reduce energy use, CO_2 emissions & material waste

Immersion™ can help retailers with initiatives to curb their environmental impact. Decreased energy usage significantly lowers CO_2 emissions, while long life reduces material waste.

Life Comparison

Longer life reduces maintenance costs



GE LED Display Case Lighting System

Better light
Better opportunities

The ultimate energy saving display case solution

To save energy without compromising appearance it is vital that more lux per watt is delivered inside the case versus other systems. With GE's LED Display Case System, every emitted ray of light is directed within a 90° field, ensuring all light is usable and contained inside the case.

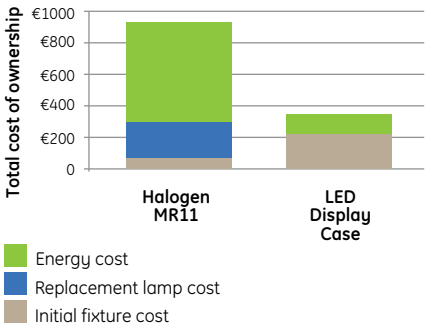
Furthermore, a unique proprietary optical design creates dramatic sparkle effects throughout the case.

How LED can save money and help the environment

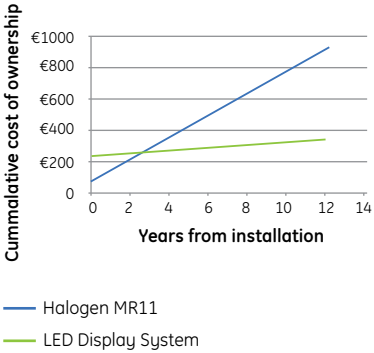
In this example, a single 25.9W LED Display Case unit is used instead of 6 halogen 20W MR11 lamps in a new jewellery display case. The benefits are clear:

- 81% saving in energy consumption and CO_2 emissions
- 12 year life of the LED system eliminates lamp replacement costs
- 64% reduction in total cost of ownership over LED useful lifetime
- 2.4 year payback

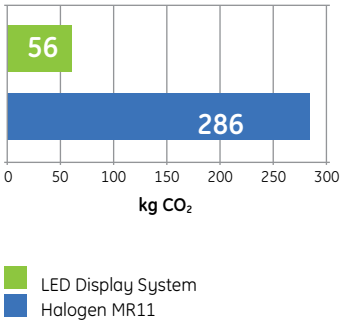
Cost of ownership over useful life of LED system



Payback



CO_2 emitted per case per year



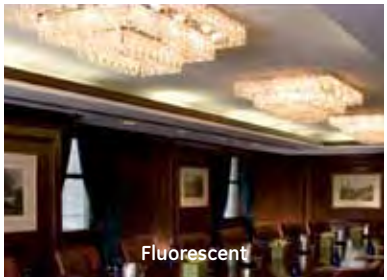
Assumptions Energy cost of €0.10 per kWh. 0.536 kg CO_2 emitted per kWh (European average from Eco-Invent). 4000 operational hours per year. Halogen fixture cost of €10, lamp cost of €3. NOTE theoretical 'typical' example only. All applications will vary.

LED Cove Lighting System

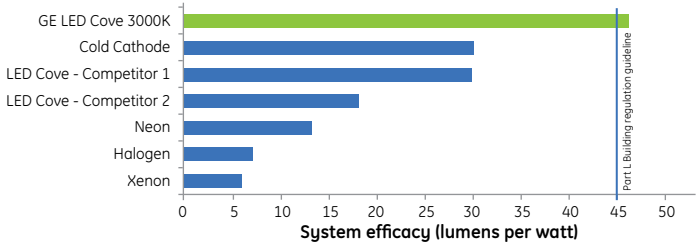
Energy efficient light that lasts

GE believes that environmental responsibility and beautiful interior design can exist simultaneously. That's why we have designed this new best in class LED Cove lighting system.

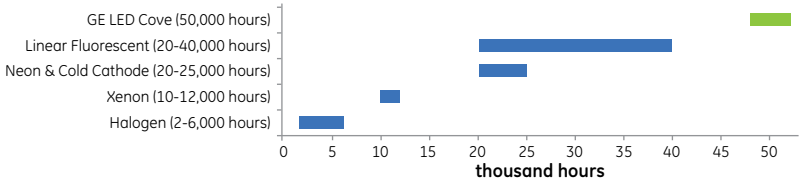
LED Cove delivers quality white light at outstanding efficiency – up to 49 lumens per watt – which is up to 50% greater than competitive LED systems at similar colour temperatures. Its integral electronics allow the system to be powered directly from line voltage, and mean that the system efficiency can meet today's demanding building regulation standards.



Efficiency comparison (warm white)



Useful lifetime comparison



LED Solutions

Vio Solutions

Vio Emitters

Wattage: 1.2, 3.6, 7.2W
Colour Temperature: 3000, 3500, 4100K
Life: 50,000Hrs
Page: 24

Vio Module

Wattage: 3.6W
Colour Temperature: 3000, 3500, 4100K
Life: 50,000Hrs
Page: 25

LED Display Case

Range of watts: 17.3, 21.6, 25.9, 30.2, 34.6, 38.9, 43.2, 51.8W
Range of length: 564, 716, 869, 1021, 1173, 1326, 1478, 1783mm
Colour Temperature: 3500, 4200K
Page: 25–26

LED Cove

Wattage: 6.5W
Length: 325mm
Colour Temperature: 2700, 3000, 4100K
Page: 30

Tetra AL10

Wattage: 15W/m
Length: 230mm and 460mm
Colour Temperature: 2700, 3000 and 4000K
CRI: 93
Pages: 28–29

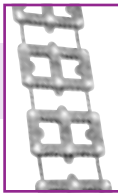
Tetra Architectural

Tetra Contour

System wattage per metre: 11W
Length: 2.44m
Colour: red, green, blue, white
Colour Temperature: 2700, 3000, 3500, 4000, 5000, 6500K
Page: 30

Tetra miniMax

System wattage per module: 0.75W
Modules per metre: ~ 8
Colour: red, green, blue, white
Colour Temperature: 2700, 3000, 3500, 4000, 5000, 6500K
Page: 31



Tetra PowerGrid

System wattage per module: 4.2W
Modules per metre: ~ 5
Colour Temperature: 2700, 3000, 3500, 4000, 5000, 6500K
Page: 31

Immersion™
Refrigerated Display Lighting

Short

System watts per door: 14W
Length: 696mm
Colour temperature: 4100, 5000K
Pages: 26–27

Long

System watts per door: 29W
Length: 1466mm
Colour temperature: 3500, 4100, 5000K
Pages: 26–27

Extra Long

System watts per door: 34W
Length: 1730mm
Colour temperature: 3500, 4100, 5000K
Pages: 26–27

Accessories and power supply available for each LED Lighting Solution.

Selector

LED Decor Range

GLS

Cap: E27, B22
Wattage: 2W
Finish: Clear or Diffuse
Voltage: 220-240V
Life: 15,000Hrs
Page: 24

Spherical

Cap: E27, B22, E14
Wattage: 2W
Finish: Clear or Diffuse
Voltage: 220-240V
Life: 15,000Hrs
Page: 24

Globe

Cap: E27, B22
Wattage: 2.5W
Finish: Diffuse
Voltage: 220-240V
Life: 15,000Hrs
Page: 24

Candle

Cap: E27, B22, E14
Wattage: 2W
Finish: Clear or Diffuse
Voltage: 220-240V
Life: 15,000Hrs
Page: 24

MR16 Mains Voltage

Décor

Cap: GU10
Wattage: 1W
Voltage: 220-240V
Beam Spread: 20°
Life: 12,000Hrs
Page: 23

High Output

Cap: GU10
Wattage: 4W
Voltage: 230, 240V
Beam Spread: 36°
Life: 15,000Hrs
Page: 23

PAR16 & R50 Mains Voltage

Décor PAR16

Cap: E14
Wattage: 1W
Voltage: 220-240V
Beam Spread: 20°
Life: 12,000Hrs
Page: 23

High Output R50

Cap: E14
Wattage: 4W
Voltage: 230, 240V
Beam Spread: 36°
Life: 15,000Hrs
Page: 23

MR16 Low Voltage

Décor

Cap: GU5.3
Wattage: 1W
Voltage: 12V
Beam Spread: 20°
Life: 12,000Hrs
Page: 23

PAR30 & R63 Mains Voltage

High Output PAR30

Cap: E27
Wattage: 10W
Voltage: 220-240V
Beam Spread: 24, 36°
Life: 25,000Hrs
Page: 23

High Output R63

Cap: E27, B22
Wattage: 7W
Voltage: 220-240V
Beam Spread: 20, 36°
Life: 20,000Hrs
Page: 23

Infusion LED Modules

Product launch throughout 2010.

Contact GE representative for details.

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:

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.

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

Volts: Lamp data is based on operation at rated voltage

Cap: The type of cap fitted. See page 134-135 for cap drawings

Product description: The lamp's identification code

Candela: 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

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

Length: Lamp length in mm

LED High Output Range - R63

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
7	220-240	E27	**LED7/R63/827/220-240V/FL/E27**	**76093**	1200	20	2700	80+	20,000	63	101	8
7	220-240	E27	**LED7/R63/827/220-240V/WFL/E27**	**76094**	520	36	2700	80+	20,000	63	101	8
7	220-240	B22	**LED7/R63/827/220-240V/FL/B22**	**76099**	1200	20	2700	80+	20,000	63	101	8

LED 7 / R63 / 8 27 / 220-240V / FL / E27

(LED) Identifies lamp as LED lamp

(7) Identifies Lamp's wattage

(R63) 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

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

(FL) Identifies as Floodlight

(E27) Identifies the cap type

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

Beam Angle: The angle of the cone of light produced by a reflector lamp at 50% of its peak intensity

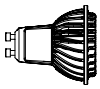
CRI [Ra]: Colour Rendering Index An indication of the ability of the lamp to render object colours in a normal, natural way. The higher the number (0-100), the better the colour appearence

Diameter: Bulb diameter in mm

Pack quantity: Number of product units packed in a case

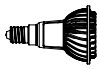
LED High Output Range - GU10

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
4	230	GU10	**LED4/GU10/830/230V/WFL**	**75280**	225	36	3100	80+	15,000	50	57	8
4	240	GU10	**LED4/GU10/830/240V/WFL**	**75281**	225	36	3100	80+	15,000	50	57	8



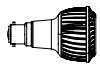
LED High Output Range - R50

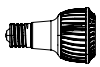
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
4	230	E14	**LED4/R50/830/230V/WFL/E14**	**75288**	225	36	3100	80+	15,000	50	76	8
4	240	E14	**LED4/R50/830/240V/WFL/E14**	**75289**	225	36	3100	80+	15,000	50	76	8



LED High Output Range - R63

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
7	220-240	E27	**LED7/R63/827/220-240V/FL/E27**	**76093**	1200	20	2700	80+	25,000*	63	101	8
7	220-240	E27	**LED7/R63/827/220-240V/WFL/E27**	**76094**	520	36	2700	80+	25,000*	63	101	8
7	220-240	B22	**LED7/R63/827/220-240V/FL/B22**	**76099**	1200	20	2700	80+	25,000*	63	101	8
7	220-240	B22	**LED7/R63/827/220-240V/WFL/B22**	**76100**	520	36	2700	80+	25,000*	63	101	8
7	220-240	E27	**LED7/R63/830/220-240V/FL/E27**	**75294**	1200	20	3000	80+	25,000*	63	101	8
7	220-240	E27	**LED7/R63/830/220-240V/WFL/E27**	**75296**	520	36	3000	80+	25,000*	63	101	8
7	220-240	B22	**LED7/R63/830/220-240V/FL/B22**	**75295**	1200	20	3000	80+	25,000*	63	101	8
7	220-240	B22	**LED7/R63/830/220-240V/WFL/B22**	**75297**	520	36	3000	80+	25,000*	63	101	8





LED High Output Range - PAR30

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
10	220-240	E27	**LED10/PAR30/827/220-240V/FL/E27**	**78553**	1600	24	2700	80+	25,000*	95	92	6
10	220-240	E27	**LED10/PAR30/827/220-240V/WFL/E27**	**78554**	900	36	2700	80+	25,000*	95	92	6
10	220-240	E27	**LED10/PAR30/830/220-240V/FL/E27**	**78555**	1700	24	3000	80+	25,000*	95	92	6
10	220-240	E27	**LED10/PAR30/830/220-240V/WFL/E27**	**78556**	1000	36	3000	80+	25,000*	95	92	6

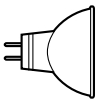
* Preliminary upgrade to L70 rated lifetime based on recent test data

LED Décor Range - GU10

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
White	**1**	220-240	GU10	**LED/GU10 1W 220-240V**	**96736**	80	20	5000	70+	12,000	50	57	10
Red	**1**	220-240	GU10	**LED GU10 1W 220-240V**	**96737**	80	17	N/A	N/A	12,000	50	57	10
Blue	**1**	220-240	GU10	**LED GU10 1W 220-240V**	**96738**	40	17	N/A	N/A	12,000	50	57	10

LED Décor Range - MR16

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
1	12	GU5.3	**LED MR16 GU5.3 1W 12V**	**96739**	80	20	5000	70+	12,000	50	50.5	10

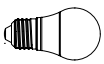


LED Décor Range - PAR16

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
1	220-240	E14	**LED PAR16 E14 1W 220-240V**	**96740**	80	20	5000	70+	12,000	50	76	10

LED Solutions

LED Décor Range - Energy Saving Miniature GLS



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]
2	220-240	E27	LED2/A47/829/220-240V/E27/C	78759	60	2900	80+	15000	47	88.5
2	220-240	E27	LED2/A47/829/220-240V/E27/D	78760	60	2900	80+	15000	47	88.5
2	220-240	B22	LED2/A47/829/220-240V/B22/C	78761	60	2900	80+	15000	47	87
2	220-240	B22	LED2/A47/829/220-240V/B22/D	78762	60	2900	80+	15000	47	87

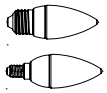
LED Décor Range - Energy Saving Spherical

2	220-240	E27	LED2/P45/829/220-240V/E27/C	78763	60	2900	80+	15000	45	71
2	220-240	E27	LED2/P45/829/220-240V/E27/D	78764	60	2900	80+	15000	45	71
2	220-240	B22	LED2/P45/829/220-240V/B22/C	78765	60	2900	80+	15000	45	69.5
2	220-240	B22	LED2/P45/829/220-240V/B22/D	78766	60	2900	80+	15000	45	69.5
2	220-240	E14	LED2/P45/829/220-240V/E14/C	78767	60	2900	80+	15000	45	77
2	220-240	E14	LED2/P45/829/220-240V/E14/D	78768	60	2900	80+	15000	45	77

LED Décor Range - Energy Saving Globe

2.5	220-240	E27	LED2.5/G80/829/220-240V/E27/D	78769	80	2900	80+	15000	80	109.5
2.5	220-240	B22	LED2.5/G80/829/220-240V/B22/D	78770	80	2900	80+	15000	80	108

LED Décor Range - Energy Saving Candle



2	220-240	E27	LED2/B35/829/220-240V/E27/C	78771	60	2900	80+	15000	35	95.5
2	220-240	E27	LED2/B35/829/220-240V/E27/D	78772	60	2900	80+	15000	35	95.5
2	220-240	B22	LED2/B35/829/220-240V/B22/C	78773	60	2900	80+	15000	35	94
2	220-240	B22	LED2/B35/829/220-240V/B22/D	78774	60	2900	80+	15000	35	94
2	220-240	E14	LED2/B35/829/220-240V/E14/C	78775	60	2900	80+	15000	35	101
2	220-240	E14	LED2/B35/829/220-240V/E14/D	78776	60	2900	80+	15000	35	101

VIO Emitters

Wattage [W]	Forward Voltage (Vf) Typical [V]	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Dimensions	Pack Qty
1.2	3.5	VIO/1.2W/730	73357	64	3000	70	50,000	25.40x25.40	10
1.2	3.5	VIO/1.2W/735	73355	67	3500	70	50,000	25.40x25.40	10
1.2	3.5	VIO/1.2W/741	73353	69	4100	70	50,000	25.40x25.40	10
1.2	3.5	VIO/1.2W/830	73351	55	3000	85	50,000	25.40x25.40	10
1.2	3.5	VIO/1.2W/835	73349	55	3500	85	50,000	25.40x25.40	10
1.2	3.5	VIO/1.2W/841	73347	57	4100	85	50,000	25.40x25.40	10
3.6	10.2	VIO/3.6W/730	73356	171	3000	70	50,000	25.40x25.40	10
3.6	10.2	VIO/3.6W/735	73354	188	3500	70	50,000	25.40x25.40	10
3.6	10.2	VIO/3.6W/741	73352	196	4100	70	50,000	25.40x25.40	10
3.6	10.2	VIO/3.6W/830	73350	142	3000	85	50,000	25.40x25.40	10
3.6	10.2	VIO/3.6W/835	73348	153	3500	85	50,000	25.40x25.40	10
3.6	10.2	VIO/3.6W/841	73346	160	4100	85	50,000	25.40x25.40	10
7.2	20.0	VIO/7.2W/730	74759	300	3000	70	50,000	25.40x25.40	10
7.2	20.0	VIO/7.2W/735	74760	350	3500	70	50,000	25.40x25.40	10
7.2	20.0	VIO/7.2W/741	74761	330	4100	70	50,000	25.40x25.40	10
7.2	20.0	VIO/7.2W/830	74762	250	3000	85	50,000	25.40x25.40	10
7.2	20.0	VIO/7.2W/835	74763	275	3500	85	50,000	25.40x25.40	10
7.2	20.0	VIO/7.2W/841	74764	285	4100	85	50,000	25.40x25.40	10

All data quoted at 350mA drive current, Tb = 25° C

VIO Modules

Product Description	Product Code	Candela (cd)	Beam angle	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
VIO/G4/MODULE/3.6W/830	**77476**	240	36	3000	85+	50000	50	40	10
VIO/G4/MODULE/3.6W/835	**77477**	250	36	3500	85+	50000	50	40	10
VIO/G4/MODULE/3.6W/841	**77481**	270	36	4100	85+	50000	50	40	10
VIO/G4/MODULE/3.6W/730	**77499**	280	36	3000	70+	50000	50	40	10
VIO/G4/MODULE/3.6W/735	**77502**	310	36	3500	70+	50000	50	40	10
VIO/G4/MODULE/3.6W/741	**77503**	325	36	4100	70+	50000	50	40	10

VIO Connectors

Product Description	Product Code	Length [mm]	Pack Qty
OT VIO/CON	**73738**	610	10
VIO/MODULE/CON	**77526**	300	10

VIO Accessories

Range of accessories to accompany Vio Modules are available. Plase contact your GE representative for full details.

Display Case Lighting System - LED lights

System Wattage* [W]	Illuminance (Ave, Lux)**	Product Description	Product Code	CCT [K] ***	Life [L70, h]	Length [mm]	Width [mm]	Depth [mm]	Pack Qty
17.3	1500	**LB24/35K**	**74217**	3500	50,000	564	33	25	1
21.6	1500	**LB30/35K**	**74218**	3500	50,000	716	33	25	1
25.9	1500	**LB36/35K**	**74219**	3500	50,000	869	33	25	1
30.2	1500	**LB42/35K**	**74220**	3500	50,000	1021	33	25	1
34.6	1500	**LB48/35K**	**74221**	3500	50,000	1173	33	25	1
38.9	1500	**LB54/35K**	**74222**	3500	50,000	1326	33	25	1
43.2	1500	**LB60/35K**	**74223**	3500	50,000	1478	33	25	1
51.8	1500	**LB72/35K**	**74224**	3500	50,000	1783	33	25	1
17.3	1500	**LB24/42K**	**74225**	4200	50,000	564	33	25	1
21.6	1500	**LB30/42K**	**74226**	4200	50,000	716	33	25	1
25.9	1500	**LB36/42K**	**74227**	4200	50,000	869	33	25	1
30.2	1500	**LB42/42K**	**74228**	4200	50,000	1021	33	25	1
34.6	1500	**LB48/42K**	**74229**	4200	50,000	1173	33	25	1
38.9	1500	**LB54/42K**	**74230**	4200	50,000	1326	33	25	1
43.2	1500	**LB60/42K**	**74231**	4200	50,000	1478	33	25	1
51.8	1500	**LB72/42K**	**74232**	4200	50,000	1783	33	25	1

* Typical system power consumption including driver losses, when driven by recommended GE power supply - product code 74601
** Average lux on horizontal surface in 51x152 cm glass case with mirror back at 30 cm vertically from light source and with light source mounted 2.5 cm from front edge
*** Colour temperature (CCT) +/-5%

Display Case Lighting System - Accessories

Product Description	Product Code	Item	Dimensions (Height x Width x Depth) [mm]	Pack Qty
LB-WIRE-END (BEAUTY COVER)	**74241**	Finishing Cover	25x33x3	10
LB-CLIP	**74243**	Mount Clip (Standalone)	34x34x16	10
LB-EXT-CLIP	**74244**	Mount Clip (Integrated)	44x33x51	10
LB-TUBE-MOUNT	**74245**	Drop Tube Mount	69x23x31	10

Immersion™ Refrigerated Display Lighting - Single Pack

Wattage [W]	Illuminance [Lux] **	Product Description	Product Code	Item	CCT [K]*	CRI [Ra]	Life [Hours]	Length [mm]	Width [mm]	Depth [mm]	Pack Qty
12	1500	**GE-LT303050CTR**	**75955**	Short LED Light -Center	5000	70	50,000	693.4	84	28	1
7	1500	**GE-LT303050EDL**	**75956**	Short LED Light -Left End	5000	70	50,000	696	58	30	1
7	1500	**GE-LT303050EDR**	**75957**	Short LED Light -Right End	5000	70	50,000	696	58	30	1
12	1350	**GE-LT303041CTR**	**75961**	Short LED Light -Center	4100	70	50,000	693.4	84	28	1
7	1350	**GE-LT303041EDL**	**75962**	Short LED Light -Left End	4100	70	50,000	696	58	30	1
7	1350	**GE-LT303041EDR**	**75967**	Short LED Light -Right End	4100	70	50,000	696	58	30	1
29	1150	**GE-LT306050CTR**	**78633**	Long LED Light -Center	5000	70	50,000	1463	84	28	1
14.5	1150	**GE-LT306050EDL**	**78634**	Long LED Light -Left End	5000	70	50,000	1466	58	30	1
14.5	1150	**GE-LT306050EDR**	**78913**	Long LED Light -Right End	5000	70	50,000	1466	58	30	1
29	1100	**GE-LT306041CTR**	**78917**	Long LED Light -Center	4100	70	50,000	1463	84	28	1
14.5	1100	**GE-LT306041EDL**	**78918**	Long LED Light -Left End	4100	70	50,000	1466	58	30	1
14.5	1100	**GE-LT306041EDR**	**78919**	Long LED Light -Right End	4100	70	50,000	1466	58	30	1
29	1050	**GE-LT306035CTR**	**78923**	Long LED Light -Center	3500	70	50,000	1463	84	28	1
14.5	1050	**GE-LT306035EDL**	**78924**	Long LED Light -Left End	3500	70	50,000	1466	58	30	1
14.5	1050	**GE-LT306035EDR**	**78925**	Long LED Light -Right End	3500	70	50,000	1466	58	30	1
34	1150	**GE-LT307050CTR**	**78966**	X-long LED Light -Center	5000	70	50,000	1727	84	28	1
17	1150	**GE-LT307050EDL**	**78967**	X-long LED Light -Left End	5000	70	50,000	1730	58	30	1
17	1150	**GE-LT307050EDR**	**78968**	X-long LED Light -Right End	5000	70	50,000	1730	58	30	1
34	1100	**GE-LT307041CTR**	**78972**	X-long LED Light -Center	4100	70	50,000	1727	84	28	1
17	1100	**GE-LT307041EDL**	**78973**	X-long LED Light -Left End	4100	70	50,000	1730	58	30	1
17	1100	**GE-LT307041EDR**	**78974**	X-long LED Light -Right End	4100	70	50,000	1730	58	30	1
34	1050	**GE-LT307035CTR**	**78978**	X-long LED Light -Center	3500	70	50,000	1727	84	28	1
17	1050	**GE-LT307035EDL**	**78979**	X-long LED Light -Left End	3500	70	50,000	1730	58	30	1
17	1050	**GE-LT307035EDR**	**78980**	X-long LED Light -Right End	3500	70	50,000	1730	58	30	1

*Colour temp (CCT) +/- 10%

**Initial illuminance (lux) +/-15% based on typical in-store performance. Short fixtures measured at 76 mm throw; Long and X-long fixtures measured at 152 mm throw.

Immersion™ Refrigerated Display Lighting - 10-way Pack

Wattage [W]	Illuminance [Lux] **	Product Description	Product Code	Item	CCT [K]*	CRI [Ra]	Life [Hours]	Length [mm]	Width [mm]	Depth [mm]	Pack Qty
12	1500	**GE-LT303050CTR**	**75958**	Short LED Light -Center	5000	70	50,000	693.4	84	28	10
7	1500	**GE-LT303050EDL**	**75959**	Short LED Light -Left End	5000	70	50,000	696	58	30	10
7	1500	**GE-LT303050EDR**	**75960**	Short LED Light -Right End	5000	70	50,000	696	58	30	10
12	1350	**GE-LT303041CTR**	**75968**	Short LED Light -Center	4100	70	50,000	693.4	84	28	10
7	1350	**GE-LT303041EDL**	**75969**	Short LED Light -Left End	4100	70	50,000	696	58	30	10
7	1350	**GE-LT303041EDR**	**75970**	Short LED Light -Right End	4100	70	50,000	696	58	30	10
29	1150	**GE-LT306050CTR**	**78914**	Long LED Light -Center	5000	70	50,000	1463	84	28	10
14.5	1150	**GE-LT306050EDL**	**78915**	Long LED Light -Left End	5000	70	50,000	1466	58	30	10
14.5	1150	**GE-LT306050EDR**	**78916**	Long LED Light -Right End	5000	70	50,000	1466	58	30	10
29	1100	**GE-LT306041CTR**	**78920**	Long LED Light -Center	4100	70	50,000	1463	84	28	10
14.5	1100	**GE-LT306041EDL**	**78921**	Long LED Light -Left End	4100	70	50,000	1466	58	30	10
14.5	1100	**GE-LT306041EDR**	**78922**	Long LED Light -Right End	4100	70	50,000	1466	58	30	10
29	1050	**GE-LT306035CTR**	**78926**	Long LED Light -Center	3500	70	50,000	1463	84	28	10
14.5	1050	**GE-LT306035EDL**	**78927**	Long LED Light -Left End	3500	70	50,000	1466	58	30	10
14.5	1050	**GE-LT306035EDR**	**78928**	Long LED Light -Right End	3500	70	50,000	1466	58	30	10
34	1150	**GE-LT307050CTR**	**78969**	X-long LED Light -Center	5000	70	50,000	1727	84	28	10
17	1150	**GE-LT307050EDL**	**78970**	X-long LED Light -Left End	5000	70	50,000	1730	58	30	10
17	1150	**GE-LT307050EDR**	**78971**	X-long LED Light -Right End	5000	70	50,000	1730	58	30	10
34	1100	**GE-LT307041CTR**	**78975**	X-long LED Light -Center	4100	70	50,000	1727	84	28	10
17	1100	**GE-LT307041EDL**	**78976**	X-long LED Light -Left End	4100	70	50,000	1730	58	30	10
17	1100	**GE-LT307041EDR**	**78977**	X-long LED Light -Right End	4100	70	50,000	1730	58	30	10
34	1050	**GE-LT307035CTR**	**78981**	X-long LED Light -Center	3500	70	50,000	1727	84	28	10
17	1050	**GE-LT307035EDL**	**78982**	X-long LED Light -Left End	3500	70	50,000	1730	58	30	10
17	1050	**GE-LT307035EDR**	**78983**	X-long LED Light -Right End	3500	70	50,000	1730	58	30	10

*Colour temp (CCT) +/- 10%

**Initial illuminance (lux) +/-15% based on typical in-store performance. Short fixtures measured at 76 mm throw; Long and X-long fixtures measured at 152 mm throw.

Immersion™ Refrigerated Display Lighting Accessories

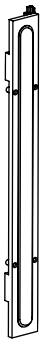
Product Description	Description Code	Product Code	Pack Qty
Universal Wire Cover - Center and End	**GE-CV-LT3060CTR**	**75974**	20
Universal Mounting Clip - Center	**GE-MC-LT3060CTR**	**75971**	20
Universal Mounting Clip - End #1	**GE-MC-LT3060ED1**	**75972**	20
Universal Mounting Clip - End #2	**GE-MC-LT3060ED2**	**75973**	20

Tetra AL10 - White Fixture

Wattage [W]	Lumens per Watt [lm/W]	Volts [V]	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Lens Type	Length [mm]
6.8	43	12	**LPL-W18-060C-927**	**78867**	290	2700	93	60° clear	460
3.4	43	12	**LPL-W09-060C-927**	**78855**	145	2700	93	60° clear	230
6.8	43	12	**LPL-W18-090C-927**	**78871**	290	2700	93	90° clear	460
3.4	43	12	**LPL-W09-090C-927**	**78858**	145	2700	93	90° clear	230
6.8	43	12	**LPL-W18-120C-927**	**78874**	290	2700	93	120° clear	460
3.4	43	12	**LPL-W09-120C-927**	**78861**	145	2700	93	120° clear	230
6.8	43	12	**LPL-W18-120D-927**	**78878**	290	2700	93	120° soft	460
3.4	43	12	**LPL-W09-120D-927**	**78864**	145	2700	93	120° soft	230
6.8	44	12	**LPL-W18-060C-930**	**78868**	300	3000	93	60° clear	460
3.4	44	12	**LPL-W09-060C-930**	**78856**	150	3000	93	60° clear	230
6.8	44	12	**LPL-W18-090C-930**	**78872**	300	3000	93	90° clear	460
3.4	44	12	**LPL-W09-090C-930**	**78859**	150	3000	93	90° clear	230
6.8	44	12	**LPL-W18-120C-930**	**78875**	300	3000	93	120° clear	460
3.4	44	12	**LPL-W09-120C-930**	**78862**	150	3000	93	120° clear	230
6.8	44	12	**LPL-W18-120D-930**	**78879**	300	3000	93	120° soft	460
3.4	44	12	**LPL-W09-120D-930**	**78865**	150	3000	93	120° soft	230
6.8	47	12	**LPL-W18-060C-940**	**78870**	320	4000	93	60° clear	460
3.4	47	12	**LPL-W09-060C-940**	**78857**	160	4000	93	60° clear	230
6.8	47	12	**LPL-W18-090C-940**	**78873**	320	4000	93	90° clear	460
3.4	47	12	**LPL-W09-090C-940**	**78860**	160	4000	93	90° clear	230
6.8	47	12	**LPL-W18-120C-940**	**78877**	320	4000	93	120° clear	460
3.4	47	12	**LPL-W09-120C-940**	**78863**	160	4000	93	120° clear	230
6.8	47	12	**LPL-W18-120D-940**	**78880**	320	4000	93	120° soft	460
3.4	47	12	**LPL-W09-120D-940**	**78866**	160	4000	93	120° soft	230

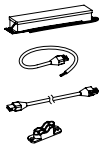
Tetra AL10 - Grey Fixture

Wattage [W]	Lumens per Watt [lm/W]	Volts [V]	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Lens Type	Length [mm]
6.8	43	12	**LPL-G18-060C-927**	**78893**	290	2700	93	60° clear	460
3.4	43	12	**LPL-G09-060C-927**	**78881**	145	2700	93	60° clear	230
6.8	43	12	**LPL-G18-090C-927**	**78896**	290	2700	93	90° clear	460
3.4	43	12	**LPL-G09-090C-927**	**78884**	145	2700	93	90° clear	230
6.8	43	12	**LPL-G18-120C-927**	**78899**	290	2700	93	120° clear	460
3.4	43	12	**LPL-G09-120C-927**	**78887**	145	2700	93	120° clear	230
6.8	43	12	**LPL-G18-120D-927**	**78902**	290	2700	93	120° soft	460
3.4	43	12	**LPL-G09-120D-927**	**78890**	145	2700	93	120° soft	230
6.8	44	12	**LPL-G18-060C-930**	**78894**	300	3000	93	60° clear	460
3.4	44	12	**LPL-G09-060C-930**	**78882**	150	3000	93	60° clear	230
6.8	44	12	**LPL-G18-090C-930**	**78897**	300	3000	93	90° clear	460
3.4	44	12	**LPL-G09-090C-930**	**78885**	150	3000	93	90° clear	230
6.8	44	12	**LPL-G18-120C-930**	**78900**	300	3000	93	120° clear	460
3.4	44	12	**LPL-G09-120C-930**	**78888**	150	3000	93	120° clear	230
6.8	44	12	**LPL-G18-120D-930**	**78903**	300	3000	93	120° soft	460
3.4	44	12	**LPL-G09-120D-930**	**78891**	150	3000	93	120° soft	230
6.8	47	12	**LPL-G18-060C-940**	**78895**	320	4000	93	60° clear	460
3.4	47	12	**LPL-G09-060C-940**	**78883**	160	4000	93	60° clear	230
6.8	47	12	**LPL-G18-090C-940**	**78898**	320	4000	93	90° clear	460
3.4	47	12	**LPL-G09-090C-940**	**78886**	160	4000	93	90° clear	230
6.8	47	12	**LPL-G18-120C-940**	**78901**	320	4000	93	120° clear	460
3.4	47	12	**LPL-G09-120C-940**	**78889**	160	4000	93	120° clear	230
6.8	47	12	**LPL-G18-120D-940**	**78904**	320	4000	93	120° soft	460
3.4	47	12	**LPL-G09-120D-940**	**78892**	160	4000	93	120° soft	230



Tetra AL10 Accessories

Product Description	Description Code	Product Code	Quantity
LED Driver - 12V 60W	**GE060/G/V12T1-A**	**74601**	1/EA
LED Driver - 12V 20W	**GE020/G/V12T1-B**	**74914**	1/EA
Leader Cable - 914mm	**LC-36**	**78905**	5/PK
Leader Cable - 3048mm	**LC-120**	**78906**	5/PK
Jumper Cable - 305mm	**JC-12**	**78907**	5/PK
Jumper Cable - 1829mm	**JC-72**	**78908**	5/PK
Mounting Bracket - White 15° Angle	**MB-W15**	**78909**	20/PK
Mounting Bracket - White 30° Angle	**MB-W30**	**78910**	20/PK
Mounting Bracket - Grey 15° Angle	**MB-G15**	**78911**	20/PK
Mounting Bracket - Grey 30° Angle	**MB-G30**	**78912**	20/PK



Cove Lighting System - Fixture

Wattage [W]	Volts [V]	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Length [mm]	Pack Qty
6.5	220-240	LC12/727/240V	73100	290	2700	70	50,000	325.0	10
6.5	220-240	LC12/730/240V	73101	300	3000	70	50,000	325.0	10
6.5	220-240	LC12/741/240V	73826	320	4100	77	50,000	325.0	10

Cove Lighting System - Mounting track

Product Description	Product Code	Track Angle [°]	Length [mm]	Pack Qty
LC-MT48/0	73105	0	1219	25
LC-MT48/15	73106	15	1219	25
LC-MT48/30	73107	30	1219	25

Cove Lighting System - Jumper Cable (JC) & Leader Cable (LC)

Product Description	Product Code	Length [mm]	Pack Qty
LC-JC/1m/CE	73616	1000	1
LC-LC/12m/CE	73617	12000	1
LC-LC/3m/CE	73618	3000	1

Tetra Contour - LED Light engines

Colour	Watts per metre (system) [W/m]	Watts per metre (light engine) [W/m]	Product Description	Product Code	Lumens per metre (light engine) [lm/m]	Lumens per metre (light engine w/ light guide) [lm/m]	Wavelength [nm] / CCT [K]	Viewing Angle (light engine)	Viewing Angle (light engine w/ light guide)	Length [mm]	Pack Qty
Red	12.50	10.63	GERDXNLE1-A	75481	194	154	625nm	110	330	2.44	12
Green	11.12	9.45	GEGLXNLE1-A	75484	331	180	532nm	110	330	2.44	6
Blue	11.12	9.45	GEBLXNLE1-A	75485	75	162	467nm	110	330	2.44	6
White	11.12	9.45	GEWWXNLE1-27K-A	75487	351	230	2700K	110	330	2.44	6
White	11.12	9.45	GEWWXNLE1-30K-A	75488	384	249	3000K	110	330	2.44	6
White	11.12	9.45	GEWWXNLE1-35K-A	75489	410	266	3500K	110	330	2.44	6
White	11.12	9.45	GEWWXNLE1-40K-A	75490	430	279	4000K	110	330	2.44	6
White	11.12	9.45	GEWHXNLE1-50K-A	75493	512	331	5000K	110	330	2.44	6
White	11.12	9.45	GEWHXNLE1-65K-A	75486	472	308	6500K	110	330	2.44	6

Lumen values are typical. Allow +/-15% for binning tolerance.

Tetra Contour Accessories

Product Description	Description Code	Product Code	Quantity
18 AWG Supply Wire (0.82 mm²)	9409	75514	152.4 m/PK
Weather Box (Outdoor Use Only)	GEXNWB2	75494	20/PK
Light Engine Mounting Clip	GEXNMCAC	75498	20/PK
Light Guide Mounting Clip	GEXNMC15	75520	50/PK
Silicone Bend-Aid (Reuseable)	GEXNBA	75537	12/PK

Tetra Minimax - LED Modules

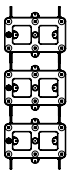
Colour	Watts per metre (system) [W/m]	Watts per metre (light engine) [W/m]	Product Description	Product Code	LEDs per module	Modules per metre	Lumens per module [lm]	Wavelength [nm] / CCT [K]	Viewing Angle	Pack Qty
Red	0.749	0.624	GERDMMS5-27K-A	75596	2	~8	10	626 nm	155	250
Green	0.749	0.624	GEGLMMS5-27K-A	75598	2	~8	24	530 nm	155	250
Blue	0.749	0.624	GEBLMMS5-27K-A	75597	2	~8	7	467nm	155	250
White	0.749	0.624	GEWWMMS5-27K-A	75601	2	~8	18	2700K	155	250
White	0.749	0.624	GEWWMMS5-30K-A	75603	2	~8	19	3000K	155	250
White	0.749	0.624	GEWWMMS5-35K-A	75604	2	~8	21	3500K	155	250
White	0.749	0.624	GEWWMMS5-40K-A	75606	2	~8	22	4000K	155	250
White	0.749	0.624	GEWHMMS5-50K-A	75607	2	~8	26	5000K	155	250
White	0.749	0.624	GEWHMMS5-65K-A	75599	2	~8	24	6500K	155	250

Tetra Minimax Accessories

Product Description	Description Code	Product Code	Quantity
18 AWG Supply Wire (0.82 mm²)	9409	75514	152.4 m/PK
22-18 AWG In-line Splice Connector (0.33-0.82 mm²)	192160005	75608	152.4 m/PK

Tetra Power Grid - LED Modules

Colour	Watts/module (System)	Watts/module (Strip) [W]	Product Description	Product Code	LEDs per module	Modules per metre	Lumens per module [lm]	Wavelength [nm] / CCT [K]	Viewing Angle	Pack Qty
White	4.2	3.6	GEWWPGP6-27K-A	75547	6	~5	94	2700K	120	21
White	4.2	3.6	GEWWPGP6-30K-A	75548	6	~5	102	3000K	120	21
White	4.2	3.6	GEWWPGP6-35K-A	75549	6	~5	110	3500K	120	21
White	4.2	3.6	GEWWPGP6-40K-A	75550	6	~5	115	4000K	120	21
White	4.2	3.6	GEWHPGP6-50K-A	75551	6	~5	136	5000K	120	21
White	4.2	3.6	GEWHPGP6-65K-A	75552	6	~5	126	6500K	120	21



Tetra Power Grid Accessories

Product Description	Description Code	Product Code	Quantity
18 AWG Supply Wire (0.82 mm²)	9409	75514	152.4 m/PK
18-14 AWG In-line Splice Connector (0.82-2.08 mm²)	192160004	75545	152.4 m/PK
18 AWG Wire End Caps (0.82 mm²)	GEPGEC1	75546	30 m/PK

Power Supplies for LED systems

Product Description	Product Code	Input Volts [V]	Max. Wattage	Output Current [A]	Output Voltage [VDC]	Use with	Pack Qty
GE060/G/V12T1-A	74601	220-240	60	NA	12	Display Case, Tetra miniMax, Tetra AL10	1
GE080/G/V24T1-A	74915	220-240	80	NA	24	Tetra Contour, Tetra PowerGrid, Immersion RDL (short)	1
GE-PS1700NCMUL-SY	78348	220-240	80	0.3-1.2	NA	Immersion RDL (long and extra long)	15
GE020/G/V12T1-B	74914	220-240	20	NA	12	Tetra AL10, Tetra miniMAX	1
GE020/G/V24T1-B	74917	220-240	20	NA	24	Tetra Contour, Tetra PowerGrid	1
GE100/MV/V24T1-A	74916	220-240	100	NA	24	Tetra Contour, Tetra PowerGrid	1

High Intensity Discharge Lamps – the most efficient light sources. Solutions for quality of light and reliability.

When considering lamp life, light efficiency and excellent colour rendering, GE s Ceramic Metal Halide range is the perfect solution in terms of energy saving without compromising quality of light. From retail, decorative or industrial applications to outdoor applications like floodlighting or city beautification the wide range of GE Ceramic Metal Halide products has been designed to provide the highest standard of quality lighting with the widest flexibility for all design needs. Ceramic Metal Halide lamps today represent the most advanced technology to deliver unbeatable product reliability and performance.

GE also provides a wide range of Lucalox™ High Pressure Sodium products for street lighting and industrial applications. GE s Lucalox™ range offers outstanding efficacy, extremely long life and reliability to meet increasing performance expectations and new regulations in these market segments. The Lucalox™ XO (Extra Output) and Lucalox™ XO Superlife lamps offer the highest energy efficient solutions with long lifetime.

Benefits of Ceramic Metal Halide (CMH)

- Highly controllable point source of light
- Wide range of wattages from 20W to 400W in elliptical, tubular, linear single and double ended and reflector shapes
- High efficacy – up to 105 lm/W
- Long life – up to 24,000 hours
- Bright light and excellent colour rendering
- Consistent colour over life
- Two colour temperatures: 3000K and 4200K
- UV control
- Direct replacement of High Pressure Sodium and Quartz Metal Halide lamps
- High reliability
- Universal burning position for most lamp types

Benefits of High Pressure Sodium (HPS)

- Energy efficiency up to 150lm/W
- Lumen output up to 130,000 lumens
- Lifetime up to 55,000 hours
- Wide product range from 50W to 1000W

Indoor Lighting

Quality of Light

ConstantColor™ CMH – Single Ended, Double Ended and Reflectors

ConstantColor™ Ceramic Metal Halide (CMH) lighting offers a high quality light source for a wide range of applications.

- High colour rendering
  - Allows merchandise to be seen in the best lighting conditions and reveals features, detail, colour and texture
- Stable colour through life
  - Merchandise looks more attractive for longer
  - Instills confidence in store's fashion or quality awareness
- High lumen output
  - High luminance levels to attract customers into stores
  - Creates lively visual environment
- Long life – to reduce maintenance cost

Energy Saving

ConstantColor™ CMH Miniature – Supermini & MR16

GE technology has always been at the forefront of CMH lighting with products that deliver the best possible energy efficiency as well as excellent performance

- Outstanding efficiency >80lm/W for 3000K
- 20W available in 830, 35W available in 930 and 942
- Robust design for reliability
- Compact size for fixture flexibility and better optical efficiency
- More stable colour through life
- Improved life performance
- Easy to fit
- Multiple beam spreads for MR16 12°, 25°, 40°

The power of CMH

From the leader in miniature CMH technology

Energy saving is not only a cost saving but is also a social responsibility, and the lighting industry is constantly researching products that produce more light using less electricity. GE is in the vanguard of this research and the company's CMH Supermini range is exceptionally efficient. Coupled with an efficient spotlight fixture, Superminis yield massive energy saving because they generate extremely high luminous flux in a very small space. In the retail environment, in particular, this provides a significant saving with no loss of lighting quality.

Key features

- Outstanding efficiency: four times better than halogen
- Compact capsule, or reflector version
- Outstanding long life – up to 12,000 hours
- Robust and reliable
- Colour uniformity lamp to lamp
- Stable colour throughout lamp life
- Small size enables better optical design
- Simple ballast and lamp holder change

Applications

- Display lighting
- Spot and track lighting
- Mini floodlighting
- Indoor/outdoor

NEW for 2010

Ultra versions coming soon

Ultra versions of the 35W Supermini and MR16 lamps will be released soon – the benefits of Ultra combined with the benefits of miniaturisation.

Energy Efficient

If we compare CMH 20W with a 50W halogen lamp, there are four primary attributes to consider. These are: life, lumen, efficacy and heat. CMH 20W wins in every area!

CMH 20W vs 50W Halogen

	Life [h]	Lumens [lm]	Efficacy [lm/w]	Heat [W]
50W Halogen Capsule	4,000	900	18	33W
CMH 20W Supermini	12,000	1615	80.8	7W
	x3	x1.8	x4.6	20%

- 20% of beam heat
- Three times the life
- 80% more light
- 4.5 times better efficiency

End User Benefits

- Reduced air conditioning costs
- Reduced replacement costs
- More design potential
- Reduced energy costs

ConstantColor™ CMH Ultra
The new generation of CMH

Our next generation of CMH lamps are the ultimate light source for retail applications where quality of light, colour and efficacy are important. Now, anyone with critical colour needs can enjoy the outstanding energy efficiency and the savings that CMH lamps provide.

Key features

- 35W and 70W 3000K CMH lamps in G12 and G8.5 formats
- New arctube design – lumen maintenance and colour rendering (CRI) are both significantly improved vs. standard CMH, while maintaining our industry leading 15,000 hours life
- The 930 colour gives a true representation of all colours in the spectrum
- These lamps will operate in any existing CMH70 and 35 G12 or G8.5 systems. In addition, they are compatible with both electronic and magnetic ballasts

Benefits

- Extended service life and lamp replacement cycles
- Creates a higher level product offering through improved lumen maintenance and colour rendering
- Improved lumen maintenance keeps stores brighter longer

Applications

- Retail and accent lighting
- General retail display
- Wherever current generation CMH 35&70W G12 and G8.5 products are in use

Advanced lighting technologies

CMH Single Ended Mini G8.5

With ULTRA efficient lighting

- New generation - more usable light over life, 33% more lumen output at end of life vs. standard CMH lamps
- Excellent 930 colour
- Outstanding long life up to 15,000 hours

CMH Single Ended G12

With ULTRA efficient lighting

- New generation - more usable light over life, 33% more lumen output at end of life vs. standard CMH lamps
- Excellent 930 colour
- Outstanding long life up to 15,000 hours

CMH Supermini

Improved Versatility

- Allows miniaturisation of fixtures (only 52mm long)
- Available in 20W and 35W versions
- 35W available in 930 & 942 colours
- 35W Ultra version coming soon, high performance 20W coming in October 2010

CMH Precise MR16

Improved Versatility

- World's smallest CMH reflector lamp. Beam angles: 12°, 25° & 40°
- Industry standard GX10 base
- 35W available in 930 & 942 colours
- 35W Ultra version coming soon, high performance 20W coming in October 2010

CMH PAR 20 & 30

Design upgrade

- New design without metal ring
- The 4200K colour temperature offers flexibility to lighting designers

CMH Open Rated

Performance Upgrade

- Protective shroud allows for use in open-fixtures
- 10-20% more efficient than standard metal halide
- Fits standard HPS and metal halide sockets

CMH 250W

Performance Upgrade

- A leading combination of quality and efficient light versus other HID lamps
- Lamp life – 24,000 hours
- Colour consistency and 80+ CRI

CMH 400W

Performance Upgrade

- Highest wattage CMH available
- Lamp life – 20,000 hours
- Colour consistency and 80+ CRI

CMH TD Range

Unique Range

- New 35W added to 70W and 150W range
- 35W allows energy saving in wall-wash fixtures

Dimmable CMH for street lighting

Energy Savers

- Lamp is dimmable to 70% without significant impact to lamp colour
- Greater than 65 CRI when 50% dimmed
- Available in 150W, 4000K

CMH Tubular 50-150W

Improved Versatility

- Quality of light
- Lamp life up to 20,000 hours
- Colour consistency and 80+ CRI
- **New generation tubular 50-150W coming in October 2010**

CMH Elliptical 70-100W

Improved Versatility

- Quality of light
- Lamp life up to 15,000 hours
- Colour consistency and 80+ CRI

Outdoor Lighting

Prime Requirements

- High efficacy and long service life to minimize cost
- Create high uniform lighting on the road for safety reasons
- Better colour appearance and rendering for visual needs of pedestrians

Quality of Light

CMH – street lighting – bright, safe white light

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.

A comprehensive range of CMH lamps are available and provide excellent benefits:

- High efficacy and long life to minimize cost and reduce emission of CO_2 for better environment
- Compact source, allowing flexible optical design to achieve high illumination uniformity on the road
- Better colour appearance and rendering for visual needs of pedestrians
- Improved feeling of security
- Dimmable Mesopic CMH lamp – is able to achieve a brighter level of light output better matched to human eye sensitivity and at a reduced power

A brand new range of CMH outdoor lighting will be available in October 2010.

Solution for Reliability

Lucalox™ XO – solution for reliability in street lighting

GE Lucalox™ XO High Pressure Sodium lamps offer outstanding luminous efficacy, lumen maintenance and long life, thus reducing energy and maintenance costs.

These lamps deliver a new level of reliability by a comprehensive redesign of the lamp construction:

- Revolutionary arc tube design (monolithic) – for simpler, more robust construction
- Precise arc tube sealing process
- New getter material improves vacuum protection
- New starting aid GRS (GE Reliable Starting Technology) improves lumen maintenance
- Direct replacement for standard Lucalox™
- Up to 150 lm/W – currently the most efficient lamp within the HID range
- Life up to 32,000 hours – the longest life lamp in the HID range in single arctube design
- Dimmable on electromagnetic and GE approved electronic ballasts

GE ConstantColor™ CMH StreetWise

Naturally better, naturally safer.

GE ConstantColor™ CMH StreetWise ceramic metal halide lamps have been designed as the easy-fit replacement for outdated technologies. They are also the logical first choice for new installations.

They are fitted with standard E27/E40 bases and can be dimmed, they outperform most standard HID systems. And with high reliability and sustained lumen output across a longer working life of 16,000 hours, they are supremely cost effective.

They support electronic and electromagnetic ballasts and are compatible with the major street light ballasts, retrofitting the existing HPS systems. Approved ballasts included Tridonic and Harvard and the ballast testing process is on-going with other major manufacturers. If you have any particular needs please contact your GE sales representative.

StreetWise ceramic metal halide lamps are the excellent white light energy efficient choice, offering:

- **Lowest total cost of ownership**
- **Wide range: 50/70/100/150 Watts**
- **Dimmable for all wattages for further energy saving**
- **System flexibility, operating on both electronic and electromagnetic ballasts**
- **Standard E27/E40 bases for simplicity**
- **Compatible with existing fixtures and optics**
- **Same size and LCL as current HPS**
- **Horizontal burning position**

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 efficacy.

NEW for 2010

StreetWise

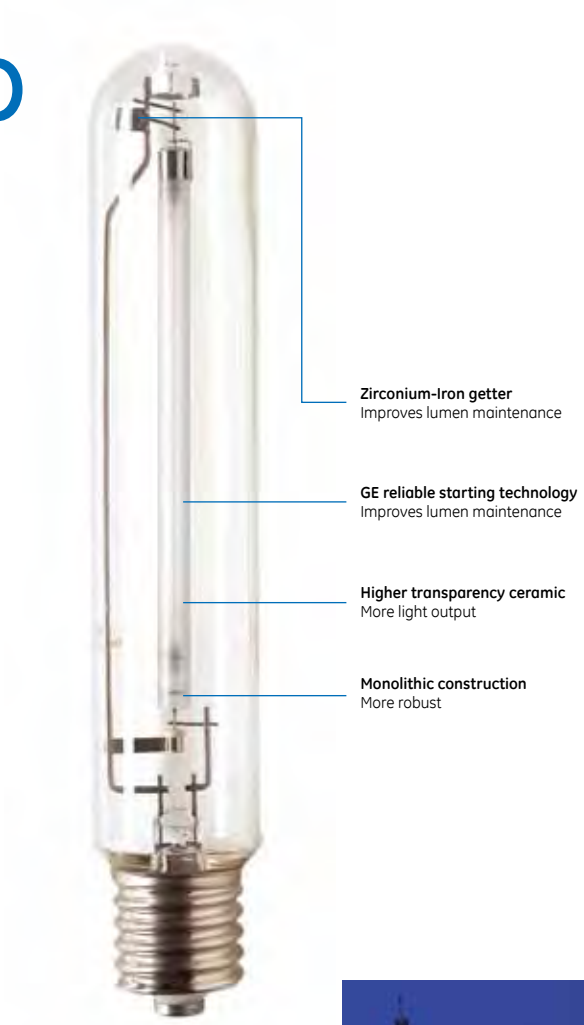
Applications include:

CMH StreetWise range can be applied ...

- **Specify in new installations.** Achieve very high efficiency with standard bases and flexible ballast choices.
- **Replace HPS or mercury applications.** Dimmable CMH will achieve lowest cost and most efficient white light.
- **Choose instead of HPS.** Benefits include white light and lower energy at similar lumen output for same wattage.
- **Replace mercury vapour installations.** Lower Watt CMH will maintain white light at similar lumen and save the most energy.

GE Lucalox™ XO
Extra Output

The ideal lamp for road lighting. Improved quality brings down life-cycle costs by reducing spot replacements. Extended lamp life means less lamps for disposal and further cost savings as stricter waste legislation becomes imposed.



Improved reliability
The simplicity of the design

Lucalox™ XO lamps are of very robust and reliable construction, designed to meet the most demanding requirements. There are fewer parts and only 5 critical welds.

Simplicity and robustness deliver higher reliability, even for exposed, vibration prone roadway situations.
In addition, they are compatible with both electronic* and magnetic ballasts.

*GE approved electronic ballast

- **Lucalox™ XO lamps reach luminous efficacy up to 150 lumens/watt**
- **Lucalox™ XO lamps, due to their high efficacy, are an outstanding economical solution to combat rising energy costs**
- **Lucalox™ XO lamps combine excellent lumen maintenance with extended life**
- **Lucalox™ XO lamps combine long life and excellent luminous efficacy to reduce their impact on the global environment**

Selector

CostantColor™ CMH (Ceramic Metal Halide) T, TC, TD

Single Ended Mini Ultra and Standard

Cap: G8.5
Wattages: 20 -70W
Colours: 830, 930, 942
Life: 12,000-15,000Hrs
Page: 45

Single Ended Supermini Ultra and Standard

Cap: G6.5
Wattages: 20-35W
Colours: 830, 930, 942
Life: 10,000-12,000Hrs
Page: 45

Single Ended Ultra and Standard

Cap: G12
Wattages: 20-150W
Colours: 830, 842, 930, 942
Life: 12,000 -15,000Hrs
Page: 45

Double Ended

Cap: RX7s or RX7s-24
Wattages: 35-150W
Colours: 830, 942
Life: 10,000-15,000Hrs
Page: 45

CostantColor™ CMH (Ceramic Metal Halide) Reflectors

MR16 Ultra and Standard

Cap: GX10
Wattages: 20-35W
Colours: 830, 930, 942
Life: 10,000-12,000Hrs
Page: 46

PAR20

Cap: E27
Wattages: 20-35W
Colours: 830, 942
Life: 10,000-12,000Hrs
Page: 46

PAR30

Cap: G23
Wattages: 20-70W
Colours: 830, 942
Life: 10,000-13,000Hrs
Page: 46

CostantColor™ CMH (Ceramic Metal Halide) Elliptical and Tubular

Elliptical

Cap: E27, E40
Wattages: 70-400W
Colours: 830, 940
Finish: Clear or Diffuse
Life: 15,000-24,000Hrs
Page: 47

Open Rated Elliptical

Cap: E27
Wattages: 70-150W
Colours: 940, 942
Finish: ClearorDiffuse
Life: 15,000Hrs
Page: 47

New Generation of Tubular

Cap: E27, E40
Wattages: 50-150W
Colours: 730
Finish: Clear
Life: 16,000Hrs
Page: 47

Tubular

Cap: E27, E40
Wattages: 70-400W
Colours: 830, 842, 942
Finish: Clear
Life: 10,000-24,000Hrs
Page: 47

Open Rated Tubular

Cap: E40
Wattages: 150W
Colours: 830, 942
Finish: Clear
Life: 12,000Hrs
Page: 47

CMH Ballasts

CMH Ballasts

A range of ballasts for 20-35W CMH lamps
Page: 47

High Intensity Discharge 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: 72-75
Life: 6,000Hrs
Page: 48

Double Ended
Cap: Rx7s-Fc2
Wattages: 150-250W
Colours: 3000-5200K
CRI: 80-85
Life: 6,000Hrs
Page: 48

Double Ended Coloured
Cap: RX7s-24
Wattages: 150W
Colours: Green, Blue, Orange,Magenta
Life: 6,000Hrs
Page: 48

Elliptical
Cap: E40
Wattages: 250W
Colours: 4000-6000K
CRI: 65-90+
Finish: Clear or Diffuse
Life: 10,000-14,000Hrs
Page: 48

Tubular
Cap: E40
Wattages: 250-400W
Colours: 4200-6000K
CRI: 70-90+
Finish: Clear
Life: 10,000Hrs
Page: 48

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
Life: 10,000-20,000Hrs
Page: 49

High Output – Elliptical
Cap: E40
Wattages: 250-400W
Colours: 3000-4000K
CRI: 65-70
Finish: Clear or Diffuse
Life: 20,000Hrs
Page: 49

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

Elliptical
Cap: E40
Wattages: 400W
Colours: 4000-6000K
CRI: 65-90
Finish: Clear or Diffuse
Life: 10,000-14,000Hrs
Page: 49

Tubular
Cap: E40
Wattages: 400W
Colours: 6000K
CRI: 90
Finish: Clear
Life: 10,000Hrs
Page: 49

Sportlight Metal Halide
For sports and floodlighting

Linear
Cap: RX7s - spec
Wattages: 1500-2000W
Colours: 5200 - 5400K
CRI: 65
Life: 6,000Hrs
Page: 49

Tubular Clear
Cap: E40
Wattages: 1000-2000W
Colours: 6000K
CRI: 93
Life: 5,000-8,000Hrs
Page: 49

Internal Ignitor
Cap: E40
Wattages: 2000W
Colours: 6000K
CRI: 93
Life: 5,000Hrs
Page: 49

Selector

High Pressure Sodium

Lucalox™

Cap: E27, E40
Wattages: 50-1000W
Finish: Tubular Clear or Elliptical Diffuse
Life: 24,000-28,500Hrs
Page: 50-51

Lucalox™ XO

Cap: E27, E40
Wattages: 50-600W
Feature: Extra high lumen output
Finish: Tubular Clear or Elliptical Diffuse
Life: 28,500-32,000Hrs
Page: 50

Lucalox™ PSL

Cap: E40
Wattages: 250-750W
Feature: Designed for Greenhouse lighting
Finish: Tubular Clear
Life: 10,000-12,000Hrs
Page: 51

High Pressure Sodium – Others

Lucalox™ TD

Cap: RX7s-24
Wattages: 250-1000W
Life: 20,000Hrs
Page: 51

Lucalox™ E-Z Lux™

Cap: E27
Wattages: 110W
Feature: Direct replacement for mercury lamps
Life: 16,000Hrs
Page: 51

Lucalox™ Internal Ignitor

Cap: E27
Wattages: 50-70W
Feature: Internal ignitor
Finish: Elliptical Clear or Diffuse
Life: 12,000Hrs
Page: 51

Lucalox™ XO Superlife

Cap: E27, E40
Wattages: 50-400W
Feature: Extra high lumen output and Twin Arctubes for extra life
Finish: Tubular Clear or Elliptical Diffuse
Life: 40,000 -55,000Hrs
Page: 50

Lucalox™ Superlife

Cap: E27, E40
Wattages: 50-400W
Feature: Twin Arctubes for extra life
Finish: Tubular Clear or Elliptical Diffuse
Life: 40,000-55,000Hrs
Page: 50

Mercury Lamps

Kolorlux Standard

Cap: E27, E40
Wattages: 50-400W
Life: 20,000Hrs
Page: 52

Kolorlux Deluxe

Cap: E27, E40
Wattages: 50-400W
Life: 20,000Hrs
Page: 52

Mixed Light

Cap: E27, E40, B22
Wattages: 160-500W
Voltage: 230-240V or 240-250V
Life: 8,000Hrs
Page: 52

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:

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 appearence.

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

Life (Horizontal): Rated average life in horizontal burning position

Diameter: Bulb diameter in mm

ConstantColor™ - CMH Supermini

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Colour	Operating position	Life (Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
20	95	GU6.5	CMH20/T/UVC/830/GU6.5	40399	1615	830	U	12,000	12,000	52	13	12
35	95	GU6.5	CMH35/T/UVC/930/GU6.5	88656	3400	930	U	10000*	10,000*	52	13	12

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

(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

(70) Identifies Lamp's wattage

(T) Identifies the lamp format.
TD - Double Ended
E - Elliptical Clear
D-Elliptical Diffused
L - Linear
PARxx - PAR + size
T - Tubular Clear

(UVC) UV Control

(U) Operating Position

(9) 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

(G12): Identifies the cap type

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

Colour: Combination of colour rendering and colour temperature

Life (Vertical): Rated average life in vertical burning position

Length: Lamp length in mm

Pack quantity: Number of product units packed in a case

ConstantColor™ CMH Lamps

ConstantColor™ - CMH Supermini

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	Colour	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
20	95	GU6.5	CMH20/T/UVC/830/GU6.5	40399	1615	830	U	12,000	12,000	52	13	12
35	95	GU6.5	CMH35/T/UVC/930/GU6.5	88656	3400	930	U	10000*	10,000*	52	13	12
35	90	GU6.5	CMH35/T/UVC/930/GU6.5 Ultra	76122	3500	930	U	12000*	12,000*	52	13	12
35	95	GU6.5	CMH35/T/UVC/942/GU6.5	88657	3400	942	U	12000*	12,000*	52	13	12

*Initial life claim at launch. Testing continues to final design life.

ConstantColor™ - CMH Single Ended Mini

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	Colour	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
20	90	G8.5	CMH20/TC/UVC/U/830/G8.5 PLUS**	39858	1650	830	U	12,000	12,000	85	14.5	12
35	90	G8.5	CMH35/TC/UVC/U/830/G8.5 PLUS**	43273	3400	830	U	16,500	16,500	85	14.5	12
35	90	G8.5	CMH35/TC/UVC/U942/G8.5	26348	3200	942	U	18,000	18,000	85	14.5	12
35	92	G8.5	CMH35/TC/UVC/U930/G8.5 Ultra	76120	3500	930	U	15,000	15,000	85	14.5	12
70	90	G8.5	CMH70/TC/UVC/U/830/G8.5 PLUS**	43274	6200	830	U	15,000	15,000	85	14.5	12
70	90	G8.5	CMH70/TC/UVC/U/942/G8.5	26349	6200	942	U	15,000	15,000	85	14.5	12
70	90	G8.5	CMH70/TC/UVC/U/930/G8.5 Ultra	96751	6200	930	U	15,000	15,000	85	14.5	12

*Initial life claim at launch. Testing continues to final design life.

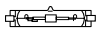
ConstantColor™ - CMH Single Ended

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	Colour	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
20	90	G12	CMH20/T/UVC/U/830/G12 PLUS**	42708	1650	830	U	12,000	12,000	90	14.5	12
35	90	G12	CMH35/T/UVC/U/830/G12 PLUS**	43272	3400	830	U	16,500	16,500	90	14.5	12
35	90	G12	CMH35/T/UVC/U/842/G12	92141	3200	842	U	18,000	18,000	90	14.5	12
35	92	G12	CMH35/T/UVC/U/930/G12 Ultra	76121	3500	930	U	15,000	15,000	90	14.5	12
70	90	G12	CMH70/T/UVC/U/830/G12	20005	6200	830	U	15,000	15,000	90	19	12
70	90	G12	CMH70/T/UVC/U/942/G12	20013	6300	942	U	15,000	15,000	90	19	12
70	90	G12	CMH70/T/UVC/U/930/G12 Ultra	96752	6400	930	U	15,000	15,000	90	19	12
150	93	G12	CMH150/T/UVC/U/830/G12	20012	14000	830	U	12,000	12,000	100	19	12
150	93	G12	CMH150/T/UVC/U/942/G12	20014	13000	942	U	12,000	12,000	100	19	12

ConstantColor™ - CMH Double Ended

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	Colour	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
35	90	RX7s	CMH35/TD/UVC/830/RX7s	43278	3400	830	HOR±45°	–	15,000	118	21	12
70	90	RX7s	CMH70/TD/UVC/830/RX7s	36910	7000	830	HOR±45°	–	15,000	118	21	12
70	90	RX7s	CMH70/TD/UVC/942/RX7s	38698	6200	942	HOR±45°	–	15,000	118	21	12
150	96	RX7s-24	CMH150/TD/UVC/830/RX7s-24	36912	14500	830	HOR±45°	–	15,000	135	27	12
150	96	RX7s-24	CMH150/TD/UVC/942/RX7s-24	38692	12500	942	HOR±45°	–	15,000	135	27	12

*Initial life claim at launch. Testing continues to final design life. **3000K CMH lamps wit extended life



High Intensity Discharge Lamps

ConstantColor™ - CMH MR16 Precise

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Candela [cd]	Beam Angle [°]	Colour	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length[mm]	Diameter [mm]	Pack Qty
20	95	GX10	CMH20/MR16/UVC/830/GX10/SP	40400	9000	12	830	U	12,000	12,000	54.5	51	12
20	95	GX10	CMH20/MR16/UVC/830/GX10/FL GX10	40401	2900	25	830	U	12,000	12,000	54.5	51	12
20	95	GX10	CMH20/MR16/UVC/830/GX10/WFL GX10	42691	1500	40	830	U	12,000	12,000	54.5	51	12
35	90	GX10	CMH35/MR16/UVC/930/GX10/SP GX10	88658	16000	12	930	U	10,000*	10,000*	54.5	51	12
35	90	GX10	CMH35/MR16/UVC/930/GX10/FL GX10	88659	5500	25	930	U	10,000*	10,000*	54.5	51	12
35	90	GX10	CMH35/MR16/UVC/930/GX10/WFL GX10	88660	3000	40	930	U	10,000*	10,000*	54.5	51	12
35	92	GX10	CMH35/MR16/UVC/930/GX10/SP Ultra	76123	16000	12	930	U	12,000	12,000	54.5	51	12
35	92	GX10	CMH35/MR16/UVC/930/GX10/FL Ultra	76124	5500	25	930	U	12,000	12,000	54.5	51	12
35	92	GX10	CMH35/MR16/UVC/930/GX10/WFL Ultra	76125	3000	40	930	U	12,000	12,000	54.5	51	12
35	90	GX10	CMH35/MR16/UVC/942/GX10/SP GX10	88661	16000	12	942	U	12,000*	12,000*	54.5	51	12
35	90	GX10	CMH35/MR16/UVC/942/GX10/FL GX10	88662	5500	25	942	U	12,000*	12,000*	54.5	51	12
35	90	GX10	CMH35/MR16/UVC/942/GX10/WFL GX10	88663	3000	40	942	U	12,000*	12,000*	54.5	51	12

*Initial life claim at launch. Testing continues to final design life.

ConstantColor™ - CMH PAR 20

20	95	E27	CMH20PAR20/UVC/830/E27/SP10	26478	13000	10	830	U	12,000	12,000	92	64	15
20	95	E27	CMH20/PAR20/UVC/830/E27/FL25	26481	3750	25	830	U	12,000	12,000	92	64	15
35	90	E27	CMH35/PAR20/UVC/830/E27/SP10	21684	22000	10	830	U	10,000	10,000	92	64	15
35	90	E27	CMH35/PAR20/UVC/830/E27/FL25	21685	7500	25	830	U	10,000	10,000	92	64	15
35	90	E27	CMH35/PAR20/UVC/942/E27/SP10	44890	19450	10	942	U	10,000	10,000	92	64	15
35	90	E27	CMH35/PAR20/UVC/942/E27/FL25	44919	6950	25	942	U	10,000	10,000	92	64	15

ConstantColor™ - CMH PAR 30

20	95	E27	CMH20PAR30/UVC/830/E27/SP10	26497	19800	10	830	U	12,000	12,000	124	95.5	6
20	95	E27	CMH20PAR30/UVC/830/E27/FL25	26518	4900	25	830	U	12,000	12,000	124	95.5	6
35	90	E27	CMH35/PAR30/UVC/830/E27/SP10	21689	39600	10	830	U	10,000	10,000	124	95.5	6
35	90	E27	CMH35/PAR30/UVC/830/E27/FL 25	21690	11000	25	830	U	10,000	10,000	124	95.5	6
35	90	E27	CMH35/PAR30/UVC/942/E27/SP10	44939	36700	10	942	U	10,000	10,000	124	95.5	6
35	90	E27	CMH35/PAR30/UVC/942/E27/FL25	44942	10200	25	942	U	10,000	10,000	124	95.5	6
70	90	E27	CMH70/PAR30/UVC/830/E27/SP15	21683	42800	15	830	U	13,000	13,000	124	95.5	6
70	90	E27	CMH70/PAR30/UVC/830/E27/FL40	21682	10000	40	830	U	13,000	13,000	124	95.5	6
70	90	E27	CMH70/PAR30/UVC/942/E27/SP15	74620	33500	15	942	U	10,000	10,000	124	95.5	6
70	90	E27	CMH70/PAR30/UVC/942/E27/FL40	74619	9000	40	942	U	10,000	10,000	124	95.5	6

ConstantColor™ - CMH Elliptical Clear

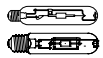
Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	Colour	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length[mm]	Diameter [mm]	Pack Qty
70	97	E27	CMH70/E/UVC/U/830/E27/C	46189	6300	830	U	15,000	15,000	138	54	6
100	102	E27	CMH100/E/UVC/U/830/E27/C	46191	9200	830	U	15,000	15,000	138	54	6
150	95	E27	CMH150/UVC/O/U/942/E27/C	43285	13200	942	U	15,000	15,000	138	55	6

ConstantColor™ - CMH Elliptical Diffuse

70	97	E27	CMH70/E/UVC/U/830/E27/D	46187	6000	830	U	15,000	15,000	138	54	6
70	97	E27	CMH70/UVC/O/U/940/E27/D	43282	5300	940	U	15,000	15,000	138	54	6
100	102	E27	CMH100/E/UVC/U/830/E27/D	46194	8700	830	U	15,000	10,000	138	54	6
150	95	E27	CMH150/UVC/O/U/940/E27/D	43286	12300	940	U	10,000	10,000	138	55	6
250	117	E40	CMH250/E/UVC/U/830/E40/D	10591	23500	830	U	24,000	24,000	227	90	6
400	120	E40	CMH400/E/UVC/U/830/E40	13087	39000	830/836**	U	20,000	20,000	282	120	6

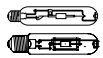
ConstantColor™ - CMH Tubular Clear

70	95	E27	CMH70/TT/UVC/830/E27	38752	6400	830	U	15,000	20,000	156	37	12
100	109	E40	CMH100/TT/UVC/830/E40	92478	9200	830	U	10,000	15,000	209	48	12
150	100	E40	CMH150/TT/UVC/830/E40	38749	14000	830	U	15,000	20,000	209	48	12
150	95	E40	CMH150/UVC/T/U/842/E40	21514	14500	842	U	15,000	15,000	209	48	12
150	100	E40	CMH150/UVC/O/T/U/830/E40	21516	14000	830	U	12,000	12,000	209	48	12
150	100	E40	CMH150/UVC/O/T/U/942/E40	21517	14000	942	U	15,000	15,000	209	48	12
250	110	E40	KRC250/CMH/830/T/H/E40	20302	20000	830	HOR	-	24,000	260	48	12
250	117	E40	CMH250/TT/UVC/U/830/E40	10589	25000	830	U	24,000	24,000	260	48	12
400	120	E40	CMH400/TT/UVC/U/830/E40	13067	41000	830/836**	U	20,000	20,000	278	60	12



ConstantColor™ - CMH Tubular Clear StreetWise

50	90	E27	CMH50/TT/UVC/730/E27 STREETWISE	77400	5000*	730	HOR±15°	-	16,000	156	39	12
70	95	E27	CMH70/TT/UVC/730/E27 STREETWISE	77401	7640*	730	HOR±15°	-	16,000	156	39	12
100	100	E40	CMH100/TT/UVC/730/E40 STREETWISE	77399	10900*	730	HOR±15°	-	16,000	211	48	12
150	100	E40	CMH150/TT/UVC/730/E40 STREETWISE	77402	16300*	730	HOR±15°	-	16,000	211	48	12



*Initial data, testing is still on-going ** 830 in horizontal burning position, 836 in vertical burning position

CMH Ballast*

Wattage [W]	Volts [V]	Product Description	ProductCode	Category	Weight [g]	Pack Qty
20	220-240	BLS/E/20W/CMH	78711	integral	N/A	12
20	220-240	BLS/E/20W/CMH/R/CC	78712	remote cable clamp	N/A	12
20	220-240	BLS/E/20W/CMH/R/LP	78713	remote lead plug	N/A	12
35	220-240	BLS/E/35W/CMH	78714	integral	N/A	12
35	220-240	BLS/E/35W/CMH/R/CC	78715	remote cable clamp	N/A	12
35	220-240	BLS/E/35W/CMH/R/LP	78716	remote lead plug	N/A	12

*Range will be available from June 2010

High Intensity Discharge Lamps

Metal Halide Lamps

Arcstream™ Single Ended RG-2

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
70	95	G12	ARC70/T/U/730/G12	35794	5200	3000	75	U	6,000	6,000	90	21.5	10
70	95	G12	ARC70/T/U/842/G12	35795	5200	4200	72	U	6,000	6,000	90	21.5	10
150	95	G12	ARC150/G12/830	88654	12000	3000	80	U	6,000	6,000	76	21.5	10
150	95	G12	ARC150/G12/842	88655	11500	4200	80	U	6,000	6,000	76	21.5	10

Arcstream™ Double Ended UVC

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
70	95	RX7s	ARC70/UVC/TD/730/Rx7s	34530	5500	3000	75	HOR±45°	6,000	114	19	12
70	95	RX7s	ARC70/UVC/TD/742/Rx7s	34536	5500	4200	75	HOR±45°	6,000	114	22	12
150	95	RX7s-24	ARC150/UVC/TD/732/Rx7s-24	34527	12000	3200	75	HOR±45°	6,000	132	22	12
150	95	RX7s-24	ARC150/UVC/TD/742/Rx7s-24	34535	12000	4200	75	HOR±45°	6,000	132	25	12

Arcstream™ Double Ended RG-3

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
150	110	RX7s-24	ARC150/TD/952/Rx7s-24	93772	11000	5200	90	HOR±45°	6,000	132	25	12
150	95	RX7s-24	ARC150/AQUA/TD/865/Rx7s-24	35284	11000	6500	85	HOR±45°	6,000	132	25	12
250	114	Fc2	ARC250/TD/832/Fc2	30099	20000	3200	75	HOR±45°	6,000	163	25	12
250	115	Fc2	ARC250/TD/842/Fc2	30101	20000	4200	75	HOR±45°	6,000	163	25	12

Arcstream™ Double Ended Coloured

Colour	Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Operating position	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
Green	150	95	RX7S-24	ARC150/UVC/TD/GREEN/RX7S-24	12181	HOR±45°	6,000	132	25	12
Blue	150	95	RX7S-24	ARC150/UVC/TD/BLUE/RX7S-24	12182	HOR±45°	6,000	132	25	12
Orange	150	95	RX7S-24	ARC150/UVC/TD/ORANGE/RX7S-24	12183	HOR±45°	6,000	132	25	12
Magenta	150	95	RX7S-24	ARC150/UVC/TD/MAGENTA/RX7S-24	12184	HOR±45°	6,000	132	25	12

Arcstream™ Tubular Clear

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
250	112	E40	ARC250/T/H/742/E40	42357	21000	4200	70	HOR±15°	-	10,000	220	48	12
250	100	E40	ARC250/T/VBU/960/E40	32665	19000	6000	90	BU±45°	10,000	-	220	47	12
250	100	E40	ARC250/T/H/960/E40	32664	19000	6000	90	HOR±45°	-	10,000	220	47	12
400	105	E40	ARC400/T/H/742/E40	42369	35000	4200	70	HOR±15°	-	10,000	260	47	12

Arcstream™ Elliptical Diffuse

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length [mm]	Diameter [mm]	Pack Qty
250	100	E40	ARC250/D/H/740/E40	16870	19500	4000	70	HOR±15°	-	14,000	227	91	10
250	100	E40	ARC250/D/H/960/E40	30047	17000	6000	90	HOR±45°	-	10,000	227	90	12
250	100	E40	ARC250/D/VBU/960/E40	32666	17000	6000	90	BU±45°	10,000	-	227	90	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). WARNING: UV emitted from lamps in Risk Group 2 and 3. Avoid eye and skin exposure to unshielded product.

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Life(Vertical) [h]	Life (Horizontal) [h]	Length[mm]	Diameter [mm]	Pack Qty
Multi-Vapor™ Elliptical Clear													
250	135	E40	MVR250/U/40	44542	20800	4200	65	U	10,000	10,000	216	89	12
400*	135	E40	MVR400/U/40	43907	36000	4000	65	U	20,000	20,000	295	118	6
1000*	V250H245	E40	MVR1000/U/40	41828	108000	4000	65	U	12,000	12,000	385	178	6
Multi-Vapor™ Elliptical Diffuse													
250	133	E40	MVR250/C/U/40	44543	19800	3900	70	U	10,000	10,000	216	89	12
400*	135	E40	MVR400/C/U/40	43908	35000	3700	70	U	20,000	20,000	295	118	6
Multi-Vapor™ High Output Elliptical Clear													
400	135	E40	MVR400/VBU/40	49860	41000	4000	65	VBU±15°	20,000	-	295	118	6
Multi-Vapor™ High Output Elliptical Diffuse													
400	135	E40	MVR400/C/VBU/40	49857	38000	3700	70	VBU±15°	20,000	-	295	118	6
400*	135	E40	MPR400/C/VBU/0/40	27738	38000	3200	70	VBU±15°	20,000	-	292	118	6

*when used VBU or VBD ±15°

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	25000	6000	90	HOR±45°	-	10,000	270	58	12
400	130	E40	KRC400/T/VBU/960/E40	30704	28000	6000	90	BU±45°	10,000	-	270	58	12
Kolorarc™ Elliptical Clear													
400	135	E40	KRC400/E/VBU/645/E40	16871	30500*	4500	65	BU±30°	14,000	-	286	122	10
Kolorarc™ Elliptical Diffuse													
400	135	E40	KRC400/D/VBU/740/E40	16872	32000*	4000	70	BU±30°	14,000	-	286	122	10
400	135	E40	KRC400/D/H/740/E40	16875	32000	4000	70	HOR±15°	-	14,000	286	120	10
400	130	E40	KRC400/D/VBU/960/E40	10837	26000	6000	90	BU±45°	10,000	-	282	121	6
400	130	E40	KRC400/D/H/960/E40	10834	24000	6000	90	HOR±45°	-	10,000	282	121	6

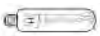
Operating from suitable mercury or metal halide ballast rated 3 5A and metal halide ignitor. Low loss ballast recommended for 400W 6000K (960) products – see lamp data sheet for details. *Enhanced lumen performance operating from special "High Output" ballast rated 3.8A – see lamp data sheet for details. 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)

Sportlight™ Linear													
1500	270	RX7SM	SPL1500/L/H/652/Rx7SM	16920	120000	5200	65	HOR±15°	-	6,000	256	22	1
2000	250	spec.	SPL2000/L/H/654	16922	200000	5200	65	HOR±15°	-	6,000	311	26	1
Sportlight™ Tubular Clear													
1000	120±10	E40	SPL1000/T/H/960/E40 1/4	88882	80000	6000	93	HOR±60°	-	8,000	340	81	4
2000	250	E40	SPL2000/T/H/960/E40	30102	170000	6000	93	HOR±60°	-	5,000	430	101.5	4
Sportlight™ Internal Ignitor													
2000	250	E40	SPL2000/I/T/H/640/E40	33148	190000	4000	65	HOR±75°	-	2,000	430	101	4
2000	250	E40	SPL2000/I/T/H/960/E40	30103	170000	6000	93	HOR±60°	-	5,000	430	101	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)

High Pressure Sodium Lamps

Lucalox™ XO Tubular Clear ⚠



Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated Life [h]	Length [mm]	Diameter [mm]	Pack Qty
50	85	E27	LU50/85/XO/T/27	93373	4400	2100	25	U	28,500	156	38.5	25
70	90	E27	LU70/90/XO/T/27	93375	6600	2100	25	U	33,000	156	38.5	25
100	100	E40	LU100/100/XO/T/40	93376	10700	2100	25	U	35,000	211	48	12
150	100	E40	LU150/100/XO/T/40	93377	17500	2100	25	U	35,000	211	48	12
250	100	E40	LU250/XO/T/40	93378	33000	2100	25	U	32,000	260	48	12
400	100	E40	LU400/XO/T/40	93269	56500	2100	25	U	32,000	283	48	12
600	115	E40	LU600/XO/T/40	93270	90000	2100	25	U	32,000	283	48	12

Lucalox™ XO Elliptical Diffuse ⚠

50	85	E27	LU50/85/XO/D/27	45696	3600	2100	25	U	28,500	156	72	12
70	90	E27	LU70/90/XO/D/27	45697	6000	2100	25	U	33,000	156	72	12
100	100	E40	LU100/100/XO/D/40	93379	10200	2100	25	U	35,000	186	76	12
150	100	E40	LU150/100/XO/D/40	93380	16900	2100	25	U	35,000	227	91	12
250	100	E40	LU250/XO/D/40	93381	31200	2100	25	U	32,000	227	91	12
400	105	E40	LU400/XO/D/40	93296	54000	2100	25	U	32,000	282	122	6

Lucalox™ XO Superlife Tubular Clear ⚠

50	85	E27	LU 50/XO/SBY/T/E27	78736	4400*	2000	25	U	40,000	156	38.5	25
70	90	E27	LU 70/XO/SBY/T/E27	88258	6600	2000	25	U	50,000	156	38.5	25
100	100	E40	LU 100/XO/SBY/T/E40	88256	10700	2000	25	U	60,000	211	48	12
150	100	E40	LU 150/XO/SBY/T/E40	78737	17500*	2000	25	U	60,000	211	48	12
250	100	E40	LU 250/XO/SBY/T/E40	78738	33000*	2000	25	U	55,000	260	48	12
400	100	E40	LU 400/XO/SBY/T/E40	78739	55800*	2000	25	U	55,000	283	48	12

* Provisional Data

Lucalox™ XO Superlife Elliptical Diffuse ⚠

70	90	E27	LU 70/XO/SBY/D/E27	88257	6000	2000	25	U	50,000	156	71	12
100	100	E40	LU 100/XO/SBY/D/E40	88255	10000	2000	25	U	60,000	186	75	12

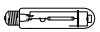
Lucalox™ Superlife Tubular Clear ⚠

50	85	E27	LU50/85/MO/SBY/T/E27	88558	3400	2000	25	U	40,000	156	38.5	25
70	90	E27	LU70/90/MO/SBY/T/E27	88268	6000	2000	25	U	40,000	156	38.5	25
100	100	E40	LU100/100/MO/SBY/T/40	17899	9600	2000	25	U	50,000	211	48	12
150	100	E40	LU150/100/SBY/T/40	35594	15000	2000	25	U	50,000	211	48	12
250	100	E40	LU250/SBY/T/40	35586	27500	2000	25	U	55,000	260	48	12
400	100	E40	LU400/SBY/T/40	35582	50000	2000	25	U	55,000	283	48	12

Lucalox™ Superlife Elliptical Diffuse ⚠

50	85	E27	LU50/85/MO/SBY/D/E27	88557	3300	2000	25	U	40,000	156	72	12
70	90	E27	LU70/90/MO/SBY/D/E27	88269	5800	2000	25	U	40,000	156	72	12
150	100	E40	LU150/100/SBY/D/40	35589	14500	2000	25	U	50,000	227	91	12
250	100	E40	LU250/SBY/D/40 w	35590	26000	2000	25	U	55,000	227	91	12
400	105	E40	LU400/SBY/D/40	35591	47500	2000	25	U	55,000	282	122	6

Lucalox™ Standard Tubular Clear ⚠



50	85	E27	LU50/85/MO/T/E27 1/25	88553	3400	2000	25	U	28,500	156	38.5	25
70	90	E27	LU 70/90/MO/T/E27 1/25	46221	6000	2000	25	U	28,500	156	38.5	25
100	100	E40	LU100/100/MO/T/40	93767	9600	2000	25	U	28,500	211	48	12
150	100	E40	LU150/100/40	44244	15000	2000	25	U	28,500	211	48	12
250	100	E40	LU250/T/40	22453	27500	2000	25	U	28,500	260	48	12
400	100	E40	LU400/T/40	11678	48000	2000	25	U	28,500	283	48	12
1000	110	E40	LU1000/110/T/40 4pk	45751	130000	2000	25	U	24,000	372	67	4

⚠ External Ignitor ⚠ Internal Ignitor

Lucalox™ Standard Elliptical Diffuse ⚠

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated Life [h]	Length[mm]	Diameter [mm]	Pack Qty
50	85	E27	LU50/85/MO/D/E27 1/25	88554	3300	2000	25	U	28,500	156	72	12
70	90	E27	LU 70/90/MO/D/E27 1/12	46217	5800	2000	25	U	28,500	156	72	12
100	100	E40	LU100/100/MO/D/40	93766	9200	2000	25	U	28,500	186	76	12
150	100	E40	LU150/100/D/40	44245	14500	2000	25	U	28,500	227	91	12
250	100	E40	LU250/D/40	44052	26000	2000	25	U	28,500	227	91	12
400	100	E40	LU400/D/40	44057	47500	2000	25	U	28,500	282	122	6
1000	110	E40	LU1000/110/D/40	30228	120000	2000	25	U	24,000	372	162	1

Lucalox™ Internal Ignitor Elliptical Clear ⚠

70	90	E27	LU 70/90/MO/I/E27 1/12	46209	6000	2000	25	U	12,000	156	72	12

Lucalox™ Internal Ignitor Elliptical Diffuse ⚠

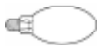
50	85	E27	LU50/85/MO/D/I/E27 1/12	88556	3300	2000	25	U	12,000	156	72	12
70	90	E27	LU70/90/MO/D/I/E27 1/12	46186	5800	2000	25	U	12,000	156	72	12

Lucalox™ TD Double Ended ⚠

250	100	RX7s-24	LU250/TD	30241	23000	2000	25	HOR±20°	20,000	191	22.4	10
400	100	RX7s-24	LU400/TD	30244	43000	2000	25	HOR±20°	20,000	256	22.4	10
1000	250	RX7s-24	LU1000/TD	30246	137000	2000	25	HOR±20°	20,000	334	22.4	10

Lucalox™ E-Z Lux™ Elliptical Diffuse – Mercury Retrofit

110	110	E27	LUH110/D/27-SHx	39512	8000	2000	25	U	24,000	175	72	40



⚠ External Ignitor ⚠ Internal Ignitor

Lucalox™ PSL (PhotoSynthesis Light) Tubular Clear ⚠

250	115	E40	LU250W/PSL/T/E40	88665	33000	2100	22	U	10000	283	48	12
400	110	E40	LU400W/PSL/T/E40	17106	56500	2100	22	U	12,000*	283	48	12
400	110	E40	LU400W/PSL/T/E40/Bulk	44304	56500	2100	22	U	12,000*	283	48	63
600	115	E40	LU600W/PSL/T/E40	17107	90000	2100	22	U	12,000*	283	48	12
600	115	E40	LU600W/PSL/T/E40/Bulk	44305	90000	2100	22	U	12,000*	283	48	63
750	115	E40	LU750W/PSL/T/E40	17108	112000	2100	22	U	10,000*	293	51	12
750	115	E40	LU750W/PSL/T/E40/Bulk	44306	112000	2100	22	U	10,000*	293	51	63
600	115	E40	LU400V/600W/PSL/T/E40	43440	90000	2100	22	U	12,000*	283	48	12
600	115	E40	LU400V/600W/PSL/T/E40/Bulk	43439	90000	2100	22	U	12,000*	283	48	63
750	115	E40	LU400V/750W/PSL/T/E40	43438	112000	2100	22	U	12,000*	293	51	12
750	115	E40	LU400V/750W/PSL/T/E40/Bulk	43437	112000	2100	22	U	12,000*	293	51	63

*90%reliability ⚠ External Ignitor ⚠ Internal Ignitor

High Pressure Mercury Lamps

Kolorlux™ Mercury Standard

Wattage [W]	Volts [V]	Cap	Product Description	ProductCode	Lumen [lm]	CCT [K]	CRI [Ra]	Operating position	Rated Life [h]	Length [mm]	Diameter [mm]	Pack Qty
50	95	E26	H50/27 1/24	74171*	1800	4000	45	U	16,000	130	56	24
80	115	E27	H80/27 1/24	74172	3800	4000	40	U	20,000	166	71	24
80	115	B22	H80/B22 1/24	74173	3800	4000	40	U	20,000	166	71	24
125	125	E27	H125/27 1/24	73736	6300	4000	40	U	20,000	178	76	24
125	125	B22	H125/B22 1/24	77071	6300	4000	40	U	20,000	178	76	24
250	130	E40	H250/40 1/12	73737	13000	4000	40	U	20,000	227	91	12
400	135	E40	H400/40 1/12	74174	22500	4000	40	U	20,000	292	122	12

Kolorlux™ Mercury Deluxe

50	95	E27	H50 DX E27 1/24	77055*	1800	3700	53	U	16,000	130	56	24
80	115	E27	H80 DX E27 1/24	77056	3800	3600	54	U	20,000	166	71	24
125	125	E27	H125NDX E27 1/24	77057	6600	3500	52	U	20,000	178	76	24
250	130	E40	H250NDX E40 1/12	77058	13800	3400	50	U	20,000	228	91	12
400	135	E40	H400 DX E40 1/12	77061	24400	3400	47	U	20,000	292	122	12

*Estimated launch April 2010. The data shown is target performance data.

Mixed Light

160	230-240	E27	ML 230-240V 160W E27	96724	3100	4200	52	VBU±30°	8,000	170	76	24
160	230-240	B22	ML 230-240V 160W B22	96727	3100	4200	52	VBU±30°	8,000	170	76	24
160	240-250	E27	ML 240-250V 160W E27	96728	3100	4200	52	VBU±30°	8,000	170	76	24
250	230-240	E27	ML 230-240V 250W E27	96725	5600	3800	52	U	8,000	227	91	12
250	230-240	E40	ML 230-240V 250W E40	96723	5600	3800	52	U	8,000	227	91	12
250	240-250	E40	ML 240-250V 250W E40	96726	5600	3800	52	U	8,000	227	91	12
500	230-240	E40	ML 230-240V 500W E40	96713	14000	3800	40	U	8,000	292	121	10

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
ConstantColor CMH™		
CMH20/TC/UVC/830/GU6.5	HCI-TF 20W/830 WDL PB GU6.5	CDM-Tm Mini PGJ5 20W/830*
CMH20/TC/UVC/U/830/G8.5 Plus	HCI-TC 20W/830 WDL PB G8.5	CDM-TC 20W/830 G8.5 1CT*
CMH35/T/UVC/930/GU6.5	–	CDM-Tm Mini PGJ5 35W/830
CMH35/T/UVC/942/GU6.5	–	–
CMH35/TC/UVC/U/830/G8.5 Plus	HCI-TC 35W/830 WDL PB G8.5	CDM-TC 35W/830 G8.5
CMH35/TC/UVC/U/942/G8.5	HCI-TC 35W/942 NDL PB UVS G8.5	CDM-TC 35W/942 G8.5
CMH35/TC/UVC/U/930/G8.5 ULTRA	–	CDM-T Elite 35W/930 G8.5 1CT*
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 ULTRA	HCI-TC 70/930 WDL PB Shop G8.5*	CDM-TC Elite 70W/930 G8.5*
CMH20/T/UVC/U/830/G12 Plus	–	CDM-T 20W/830 G12 1CT*
CMH35/T/UVC/U/830/G12 Plus	HCI-T 35W/830 WDL PB G12	CDM-T 35W/830 G12
CMH35/T/UVC/U/942/G12	HCI-T 35W/942 NDL PB UVS G12	CDM-T 35W/942 G12
CMH35/T/UVC/U/930/G12 ULTRA	–	CDM-T Elite 35W/930 G12 1CT*
CMH70/T/UVC/U/830/G12	HCI-T 70W/830 WDL PB G12	CDM-T 70W/830 G12
CMH70/T/UVC/U/942/G12	HCI-T 70W/942 NDL PB UVS G12	CDM-T 70W/942 G12
CMH70/T/UVC/U/930/G12 ULTRA	HCI-TC 70/930 WDL PB Shop G12	CDM-T Elite 70W/930 G12*
CMH150/T/UVC/U/830/G12	HCI-T 150W/830 WDL PB G12	CDM-T 150W/830 G12
CMH150/T/UVC/U/942/G12	HCI-T 150/NDL PB UVS G12	CDM-T 150W/942 G12
CMH35/TD/UVC/830/RX7s	–	–
CMH70/TD/UVC/830/Rx7s	HCI-TS 70W/830 WDL PB UVS RX7S	CDM-TD 70W/830 RX7s
CMH70/TD/UVC/942/Rx7s	HCI-TS 70W/942 NDL PB UVS RX7S	CDM-TD 70W/942 RX7s
CMH150/TD/UVC/830/Rx7s-24	HCI-TS 150W/830 WDL PB RX7S-24	CDM-TD 150W/830 RX7s-24
CMH150/TD/UVC/942/Rx7s-24	HCI-TS 150W/942 NDL PB RX7S-24	CDM-TD 150W/942 RX7s-24
CMH20/MR16/UVC/830/GX10/SP12	HCI-R16 20/830 WDL PB 12D	MASTERColour CDM-R Mini 20W/830 GX10 MR16 10D 1CT
CMH20/MR16/UVC/830/GX10/FL25	HCI-R16 20/830 WDL PB 24D	MASTERColour CDM-R Mini 20W/830 GX10 MR16 25D 1CT
CMH20/MR16/UVC/830/GX10/WFL40	HCI-R16 20/830 WDL PB 40D	MASTERColour CDM-R Mini 20W/830 GX10 MR16 40D 1CT
CMH35/MR16/UVC/930/GX10/SP12	–	–
CMH35/MR16/UVC/930/GX10/FL25	–	–
CMH35/MR16/UVC/930/GX10/WFL40	–	–
CMH35/MR16/UVC/942/GX10/SP12	–	–
CMH35/MR16/UVC/942/GX10/FL25	–	–
CMH35/MR16/UVC/942/GX10/WFL40	–	–
CMH20/PAR20/UVC/830/E27/SP10	–	–
CMH20/PAR20/UVC/830/E27/FL25	–	–
CMH35/PAR20/830/E27/SP10	HCI-PAR20 35W/830 WDL SP E27	CDM-R 35W/830 E27 PAR20L10D
CMH35/PAR20/830/E27/FL25	HCI-PAR20 35W/830 WDL FL E27	CDM-R 35W/830 E27 PAR20L30D
CMH35/PAR20/UVC/942/E27/SP10	HCI-PAR20 35W/942 NDL PB SP 10D	CDM-R 35W/9420 E27 PAR20L30D
CMH35/PAR20/UVC/942/E27/FL25	HCI-PAR20 35W/942 NDL PB SP 30D	CDM-R 35W/942 E27 PAR20L30D
CMH20/PAR30/UVC/830/E27/SP10	HCI-PAR30 20W/830 WDL SP E27	–
CMH20/PAR30/UVC/830/E27/FL25	HCI-PAR30 20W/830 WDL FL E27	
CMH35/PAR30/UVC/830/E27/SP10	HCI-PAR30 35W/830 WDL SP E27	CDM-R 35W/830 E27 PAR20L10D
CMH35/PAR30/UVC/830/E27/FL25	HCI-PAR30 35W/830 WDL FL E27	CDM-R 35W/830 E27 PAR20L30D
CMH35/PAR30/UVC/942/E27/SP10	HCI-PAR30 35W/942 NDL PB SP 10D	–
CMH35/PAR30/UVC/942/E27/FL25	HCI-PAR30 35W/942 NDL PB SP 30D	–
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/FL15	HCI-PAR30 70W/942 NDL PB SP 10D	CDM-R 70W/942 E27 PAR30L10D
CMH70/PAR30/UVC/942/E27/SP40	HCI-PAR30 70W/942 NDL PB FL 30D	CDM-R 70W/942 E27 PAR30L40D
CMH70/E/UVC/U/830/E27/C	HCI-E/P 70/830 WDL PB E27 clear	CDM-ET 70W /830 E27
CMH100/E/UVC/U/830/E27/C	HCI-E/P 100/830 WDL PB clear	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	–	–

High Intensity Discharge Lamps

GE	OSRAM	PHILIPS	Havells Sylvania
ConstantColor CMH™			
CMH70/TT/UVC/830/E27	HCI-T/P 70W/830 WDL PB E27	CDO-TT 70W /828 E27*	–
CMH100/TT/UVC/830/E40	–	CDO-TT 100W /828 E27*	–
CMH150/TT/UVC/830/E40	HCI-T/P 150W/830 WDL PB E40	CDO-TT 150W/828 E40*	–
CMH150/UVC/T/U/842/E40	–	CDO-TT 150W/828 E40*	–
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/T/H/E40	–	–	–
CMH400/TT/UVC/U/830/E40	–	–	–
Arcstream™			
ARC70/T/U/730/G12	HQI T 70/WDL	MHN-T70W/830	HSI-T 70W/WDL
ARC70/T/U/842/G12	HQI T 70/NDL	MHN-T70W/942	HSI-T 70W/NDL
ARC150/G12/830	–	–	–
ARC150/G12/842	–	–	–
ARC70/UVC/TD/730/Rx7s	HQI TS 70/WDL UVS	MHW-TD70W	HSI-TD 75W/WDL 3K UVS
ARC70/UVC/TD/742/Rx7s	HQI TS 70/NDL UVS	MHN-TD70W	HSI-TD 75W/NDL 4K UVS
ARC150/UVC/TD/732/Rx7s-24	HQI TS 150/WDL UVS	MHW-TD150W	HSI-TD 150W/WDL 3K UVS
ARC150/UVC/TD/742/Rx7s-24	HQI TS 150/NDL UVS	MHN-TD150W	HSI-TD 150W/NDL 4K UVS
ARC150/TD/952/Rx7s-24	–		–
ARC150/UVC/AQUA/TD/865/Rx7s-24	–		–
ARC250/TD/832/Fc2	HQI TS 250/WDL UVS	MHW-TD250W	HSI-TD 250W/NDL 3K UVS
ARC250/TD/842/Fc2	HQI TS 250/NDL UVS	MHN-TD250W	HSI-TD 250W/NDL 4K UVS
ARC150/UVC/TD/GREEN/RX7S-24	–	–	–
ARC150/UVC/TD/BLUE/RX7S-24	–	–	–
ARC150/UVC/TD/ORANGE/RX7S-24	–	–	–
ARC150/UVC/TD/MAGENTA/RX7S-24	–	–	–
ARC250/T/VBU/960/E40	HQI-T 250/D	–	–
ARC250/T/H/960/E40	–	–	–
ARC400/T/H/742/E40	–	–	–
ARC250/D/H/740/E40	–	–	–
ARC250/D/H/960/E40	HQI-E 250/D	–	–
ARC250/D/VBU/960/E40	HQI-E 250/D	CDO-TT 100W /828 E27*	–
Kolorarc™			
KRC400/T/H/960/E40	–	–	–
KRC400/T/VBU/960/E40	–	–	–
KRC400/E/VBU/645/E40	–	–	HSI-T 400W/4K
KRC400/D/VBU/740/E40	–	–	–
KRC400/D/H/740/E40	–	–	–
KRC400/D/VBU/960/E40	–	–	–
KRC400/D/H/960/E40	–	–	–
Multi-vapor™			
MVR250/U/40	–	–	–
MVR400/U/40	–	–	–
MVR1000/U/40	–	–	–
MVR250/C/U/40	–	–	–
MVR400/C/U/40	–	–	–
MVR400/VBU/40	–	–	–
MVR400/C/VBU/40	–	–	HSI-MP 400W/C/BU
MPR400/C/VBU/0/40	–	–	–
Sportlight™			
SPL1500/L/H/652/Rx7SM	–	–	–
SPL2000/L/H/654	–	–	–
SPL2000/T/H/960/E40	HQI-T 2000/D	MASTER HPI-T PRO /646	–
SPL2000/I/T/H/640/E40	HQI-T 2000 /N	MASTER HPI-T PRO /646	–
SPL2000/I/T/H/960/E40	HQI-T 2000 /D/I	–	–
SPL1000/T/H/960/E40 1/4	–	–	–
Blended Light			
ML 160/230-240V E27	HWL 160 235V	ML 160W ES 235-245	HSB-BW 160W 240V E27
ML 160/230-240V B22	–	ML 160W B22 235-245	–
ML 160/240-250V	–	–	–
ML 250/230-240V E40	HWL 250 235V	ML 250W ES 235-245 E40	HSB-BW 250W 240V E40
ML 250/230-240V E27	–	ML 250W ES 235-245 E27	–
ML 250/ 240-250V E40	–	–	–
ML 500/230-240V E40	HWL 500 235V	ML 500W ES 235-245 E40	HSB-BW 500W 240V E40

*Similar type. Information is gathered from relevant official web sites as of October, 2009

Brand cross reference

GE	OSRAM	PHILIPS	Havells Sylvania
Lucalox™ Standard			
LU50/85/D/27	NAV-E 50/E	SON Pro 50W E	SHP 50W/CO-E
LU70/90/D/27	NAV-E 70/E	SON Pro 70W E	SHP 70W/CO-E
LU100/100/MO/D/40	NAV-E 100	SON Pro 100W E	SHP 100W
LU150/100/D/40	NAV-E 150	SON Pro 150W E	SHP 150W
LU250/D/40	NAV-E 250	SON Pro 250W E	SHP 250W
LU400/D/40	NAV-E 400	SON Pro 400W E	SHP 400W
LU1000/110/D/40	NAV-E 1000	SON Pro 1000W E	–
LU50/85/T/27	–	–	–
LU70/90/T12/27	NAV-T 70	SON- T Pro 70W	SHP-T 70W
LU100/100/MO/T/40	NAV-T 1000	SON- T Pro 100W	–
LU150/100/T /40	NAV-T 150	SON-T Pro 150W	SHP-T 150W
LU250/T/40	NAV-T 250	SON-T Pro 250W	SHP-T 150W
LU400/T/40	NAV-T 400	SON-T Pro 400W	SHP-T 400W
LU1000/110/T/40	NAV-T 1000	SON-T Pro 1000W	SHP-T 1000W
Lucalox™ XO			
LU50/85/XO/D/27	–	–	–
LU70/90/XO/D/27	–	MASTER SON PIA PLUS 70W	–
LU100/100/XO/D/40	NAV-E 100 SUPER 4Y	–	–
LU250/XO/D/40	NAV-E 250 SUPER 4Y	MASTER SON PIA PLUS 250W	–
LU400/XO/D/40	NAV-E 400 SUPER 4Y	MASTER SON PIA PLUS 400W	–
LU50/85/XO/T/27	NAV-T 50 SUPER 4Y	MASTER SON-T PIA PLUS 50W	–
LU70/90/XO/T/27	NAV-T 70 SUPER 4Y	MASTER SON-T PIA PLUS 70W	–
LU100/100/XO/T/40	NAV-T 100 SUPER 4Y	MASTER SON-T PIA PLUS 100W	–
LU150/150/XO/T/40	NAV-T 150 SUPER 4Y	MASTER SON-T PIA PLUS 150W	–
LU250/XO/T/40	NAV-T 250 SUPER 4Y	MASTER SON-T PIA PLUS 250W	–
LU400/XO/T/40	NAV-T 400 SUPER 4Y	MASTER SON-T PIA PLUS 400W	–
LU600/XO/T/40	NAV-T 600 SUPER 4Y	MASTER SON-T PIA PLUS 600W	–
Lucalox™ I			
LU50/85/D/I/27	NAV-E 50/I	SON Pro 50W I	SHP 50W/CO-I
LU70/90/D/I/27	NAV-E 70/I	SON Pro 70W I	SHP 70W/CO-I
LU70/90/I/27	–	SON Pro70W I CLEAR	SHP 70W/CL-I
Lucalox™ E-Z lux			
LUH110/D/27 - SHx	NAV-E 110	SON-H Pro 110W	SHx 110W E27
Lucalox™ TD			
LU250/TD	NAV-TS 250	–	–
LU400/TD	NAV-TS 400	–	–
LU1000/TD	–	–	–
Lucalox™ SUPERLIFE			
LU50/85/SBY/T/27	–	–	–
LU70/90/SBY/T/27	–	–	–
LU70/90/XO/SBY/T12/E27	–	–	SHP-TS 70w Twinarc
LU100/100/SBY/T/40	–	–	–
LU100/100/XO/SBY/T/E40	–	–	SHP-TS 100w Twinarc
LU150/100/SBY/T/40	–	–	SHP-T 150W SBY
LU250/SBY/T/40	–	–	SHP-T 250W SBY
LU400/SBY/T/40	–	–	SHP-T 400W SBY
LU50/85/SBY/D/27	–	–	–
LU70/90/SBY/D/27	–	–	SHP 70W SBY
LU70/90/XO/SBY/D/E27	–	–	SHP-S 70w Twinarc
LU100/100/XO/SBY/D/E40	–	–	SHP-S 100w Twinarc
LU150/100/SBY/D/40	–	–	SHP 150W SBY
LU250/SBY/D/40	–	–	SHP 250W SBY
LU400/SBY/D/40	–	–	SHP 400W SBY
Kolorlux Standard			
H125/27	HQL 125	HPL-N 125W	HSL-BW 125W E27
H250/40	HQL 250	HPL-N 250W	HSL-BW 250W E40

Whether its long life, energy savings, or quality of light, GE's linear fluorescent lamps have your application covered. Delivering excellent colour rendering and high lumen maintenance, for more high quality light.

The product range had been updated and expanded to maximise new product innovation, reflecting advances in technology, made possible by additional investments at our European manufacturing facilities.

We were delighted to be first to market with our energy saving fluorescent T5 linear portfolio, named Watt-Miser™ and we have recently added T8 versions to this popular environment friendly range. Additionally we have introduced LongLast™ products to compliment the wide choice of lengths, wattages and colours in our traditional portfolio.

The characteristics of fluorescent lamps vary widely according to the lamp type. In general, fluorescent lamps have the following advantages:

- Efficient installation and reduced running costs with our Watt-Miser™ lamps
- Long life – life ratings for fluorescent lamps are now up to 42,000 hours with our LongLast™ lamps, based on the industry standard of 3-hour burning cycles
- Light quality – high colour rendering and high lumen maintenance
- Flexibility – many combinations of wattage and length, provide flexibility of fixture design and ceiling layout

Looking to the future, we will continue to bring you new technology and improve the efficiency and performance of our portfolio, in line with technology advancements.

T5 Solutions

For Energy Saving

GE T5 Watt-Miser™

- 5% energy saving with existing fittings and control gear
- Energy saving without loss of light output
- Excellent colour rendering – 85Ra
- Life same as competitors – 25,000 hours on electronic ballast on 3-hour cycle
- Reduces CO_2 and other greenhouse gas emissions
- Range: High Efficiency – up to 111lm/W (HE) – 14/21/28/35W High Output (HO) – 24/39/49/54/80W

T5WattMiser™

For Maintenance Saving

GE T5 LongLast™

- 20% longer life – 30,000 hours on 3-hour cycle on electronic ballast
- Excellent colour rendering – 85Ra
- Outstanding lumen maintenance – 90%
- Starcoat technology
- High Efficiency (HE) – up to 104lm/W
- High Output (HO) – up to 6,450lm
- Range: HE – 14/21/28/35W HO – 24/39/49/54/80W

T5LongLast™

For Safety

GE T5 covRguard™

- Complete shatter protection
- Combines the efficiency of the T5 High Output (HO) lamp and a protective sleeve that contains the glass fragments and phosphors in the event of inadvertent breakage
- The material is UV stable to ensure that it does not adversely affect lumen maintenance
- Application areas include food processing, kitchens or anywhere the risk of glass contamination is great

T8 Solutions

For Energy Saving

GE T8 Watt-Miser™

- Up to 10% energy saving with existing fittings and control gear
- Excellent colour rendering – 85Ra
- Exceptional lumen maintenance
- Long life – 15,000 hours average rated life on conventional gear– 20,000 hours average rated life on electronic gear
- Significantly helps to reduce CO_2 emissions
- Range: 16/32/51/63W

T8WattMiser™

For Maintenance Saving

GE T8 LongLast™

- More than double life – 42,000 hours on 3-hour cycle on electronic ballast
- Same light output as Polylux™ XLR™
- Excellent (90%) lumen maintenance at service life
- Great colour rendering – 85 Ra
- Range: 18/36/58/70W

T8LongLast™

For High Light Quality

GE T8 Polylux™ XLR™

- Excellent colour rendering – 85Ra
- High efficiency – up to 93lm/W
- Outstanding lumen maintenance – 90%
- 67% longer life than T8 Standard – 15,000 hours on standard ballast and 20,000 hours on electronic ballast
- Range: 15/18/30/36/58/70W

For Safety

GE T8 covRguard™

- The lamp is protected with high quality plastic sleeve that will contain glass fragments throughout the useful life of the lamp
- Has all the benefits of GE's Polylux™ XLR™ range
- Application areas include food processing, kitchens or anywhere the risk of glass contamination is great

T5 Watt-Miser™

Additional energy savings without any loss of lighting performance

GE already offers a comprehensive range of High Efficiency and High Output T5 tubes, but has taken the next step with the introduction of Watt-Miser™. These use 5% less energy than other T5s in the range, with the same lumen output. Moreover, they are 25% more efficient than T8 Polylux types. If the total system efficiency is taken into account then an energy saving as high as 45% can be achieved compared to systems using standard T8 tubes. This will have a big impact on reducing electricity expenses, which can account for over 90% of total lighting costs.

Key benefits

- **5% extra energy saving** with existing fittings and control gear
- **Reduced CO_2** and other greenhouse gas emissions
- **Energy saving** without loss of light output
- Excellent **lumen maintenance**
- **Low mercury content**
- **ROHS compliant** and contains recyclable components

Applications

Ideal for applications with high energy costs:

- **Offices**
- **Schools, colleges, public buildings**
- **Warehousing**
- **Industry**
- **Hypermarkets and supermarkets**

Which to use?

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

	Life 3 hour cycle	Life 12 hour cycle	Energy saving
Industry standard T5	25,000	28,000	–
GE T5 LongLast™	30,000	36,000	–
GE T5 Watt-Miser™	**25,000**	**30,000**	**5%**

T5WattMiser™

T8 Watt-Miser™

Save up to 10% less energy with a simple change of tube

Key benefits

- **Consumes up to 10% less energy** than T8 lamps
- **Retrofitable –** save with existing fittings and control gear
- **Excellent colour quality –** Ra 85
- **Exceptional lumen maintenance**
- **Product life 18,000 hours** – on 12 hour cycle on standard ballast
- **Significantly reduced CO_2 emission –** 0.5kg/kWh
- **Short payback –** less than a year

T8WattMiser™

Save energy cost and reduce CO_2 emissions with T8 Watt-Miser™ from GE.

All of GE's T8 range offers excellent service life and high quality light but with the addition of Watt-Miser™ technology, it also offers great cost savings.

T8 Watt-Miser™ is the optimum choice for halophosphate replacement for any indoor application from a single fitting to large scale installations such as offices, retail outlets and public buildings. Cost savings of up to 10% can be made and T8 Watt-Miser™ also gives a faster payback than many other products on the market.

GE is committed to the environment and with T8 Watt-Miser™ energy saving, that means less CO_2 emissions.

Linear Fluorescent Lamps

T5 Tubes Long

High Efficiency Watt-Miser™

Wattages: 14-35W
Colours: Warm White to Daylight
Packing: Individually sleeved - 30pcs
CRI [Ra]: 85
Life: 25,000Hrs
Page: 63

High Output Watt-Miser™

Wattages: 24-80W
Colours: Warm White to Daylight
Packing: Individually sleeved - 30pcs
CRI [Ra]: 85
Life: 25,000Hrs
Page: 63

High Efficiency LongLast™

Wattages: 14-35W
Colours: Extra Warm White to Daylight
Packing: Individually sleeved - 30 Industrial "sleeveless" pack - 40pcs
CRI [Ra]: 85
Life: 30,000Hrs
Page: 63

High Output LongLast™

Wattages: 24-80W
Colours: Extra Warm White to Daylight
Packing: Individually sleeved - 30 Industrial "sleeveless" pack - 40pcs
CRI [Ra]: 85
Life: 30,000Hrs
Page: 64

High Output covRguard™

Wattages: 24-54W
Colours: Warm White to Daylight
Packing: Individually sleeved - 40pcs
CRI [Ra]: 85
Life: 30,000Hrs
Pages: 64-65

T5 Tubes Short

Specfill Triphosphor

Wattages: 6-13W
Colours: Cool White and Daylight
CRI [Ra]: 80+
Life: 8,000Hrs
Page: 65

Specfill Standard

Wattages: 6-8W
Colours: Cool White and White
CRI [Ra]: 54-58
Life: 8,000Hrs
Page: 65

Triphosphor

Wattages: 8-13W
Colours: Extra Warm White to Cool White
CRI [Ra]: 80+
Life: 5,000Hrs
Page: 65

Standard

Wattages: 4-13W
Colours: Warm White to White
CRI [Ra]: 51-58
Life: 5,000Hrs
Page: 65

Selector

T8 Tubes

Watt-Miser™

Wattages: 16-63W
Colours: Warm White to Daylight
CRI [Ra]: 85
Life: 20,000Hrs on Electronic Ballast
Page: 66

Polylux XLR™ Longlast™

Wattages: 18-70W
Colours: Warm White and Cool White
CRI [Ra]: 85
Life: 42,000Hrs on Electronic Ballast
Page: 66

Polylux XLR™ Triphosphor

Wattages: 15-70W
Colours: Extra Warm White to Daylight
CRI [Ra]: 85
Life: 20,000Hrs on Electronic Ballast
Page: 66

covRguard™

Wattages: 18-70W
Colours: Warm White to Cool White
Packing: Individually sleeved - 25pcs
CRI [Ra]: 85
Life: 15,000Hrs
Page: 67

Standard

Wattages: 15-58W
Colours: Warm White to Daylight
CRI [Ra]: 51-93
Life: 9,000Hrs
Product only available OUTSIDE the EU. For more details please contact your local sales representative.

Slimline

Wattages: 35-50W
Colours: Cool White
CRI [Ra]: 58
Life: 7,500Hrs
Page: 67

T12 and T17 Tubes

T12 Slimline

Wattages: 75W
Colours: Cool White
CRI [Ra]: 60
Life: 12,000Hrs
Page: 67

T17 Power Groove Rapid Start

Wattages: 215W
Colours: Cool White
CRI [Ra]: 60
Life: 10,000Hrs
Page: 67

Circular Tubes

T5 Circline™

Wattages: 22-55W
Colours: Extra Warm White to Daylight
CRI [Ra]: 80+
Life: 12,000Hrs
Page: 65

Starters

A range of 6 starters in standard (25) or bulk (2000) pack
Page: 67

Where "Life" or "Average Rated Life" is stated, we refer to the industry standard definition of how many hours of operation on standard gear (if not indicated otherwise) 50% of a given installation will exceed. Rated Average Life for all linear fluorescent products is provided on standard ballast except for T5 long tubes and T5 Circline tubes.

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:

Cap: The type of cap fitted. See page 134-135 for cap drawings

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

Length: Lamp length in mm

Diameter: Tube diameter in mm

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

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

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

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

EEC: Energy Efficiency Class

T5 Watt-Miser™ - High Efficiency, G5 Cap

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	Pack Qty
14	549	16	**F14/T5/830/WM**	**88364**	1230	Warm White	3000	85	25,000	A	30
14	549	16	**F14/T5/840/WM**	**88362**	1230	Cool White	4000	85	25,000	A	30
21	849	16	**F21/T5/830/WM**	**88360**	1910	Warm White	3000	85	25,000	A	30

F 14W T5 / 830 / WM

Identifies lamp as fluorescent

Identifies Lamp's wattage

Identifies lamp type

Colour temperature code
827=Extra Warm White
830=Warm White
835=White
840=Cool White
865=Daylight

Identifies the lamp as Watt-Miser™

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

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

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 25°C) [lm]	Colour Type	CCT [K]	CRI [Ra]	Rated Average Life (3-hr cycle) [h]	EEC	Pack Qty
T5 Watt-Miser™ - High Efficiency, G5 Cap											
14	549	16	**F14/T5/830/WM**	**88364**	1230	Warm White	3000	85	25,000	A	30
14	549	16	**F14/T5/840/WM**	**88362**	1230	Cool White	4000	85	25,000	A	30
21	849	16	**F21/T5/830/WM**	**88360**	1910	Warm White	3000	85	25,000	A	30
21	849	16	**F21/T5/840/WM**	**88357**	1910	Cool White	4000	85	25,000	A	30
28	1,149	16	**F28/T5/830/WM**	**88345**	2640	Warm White	3000	85	25,000	A	30
28	1,149	16	**F28/T5/840/WM**	**88356**	2640	Cool White	4000	85	25,000	A	30
35	1,449	16	**F35/T5/830/WM**	**88355**	3320	Warm White	3000	85	25,000	A	30
35	1,449	16	**F35/T5/840/WM**	**88354**	3320	Cool White	4000	85	25,000	A	30
T5 Watt-Miser™ - High Output, G5 Cap											
24	549	16	**F24/T5/830/WM**	**88352**	1750	Warm White	3000	85	25,000	A	30
24	549	16	**F24/T5/840/WM**	**88350**	1750	Cool White	4000	85	25,000	A	30
39	849	16	**F39/T5/830/WM**	**88348**	3200	Warm White	3000	85	25,000	A	30
39	849	16	**F39/T5/840/WM**	**88344**	3200	Cool White	4000	85	25,000	A	30
49	1,449	16	**F49/T5/830/WM**	**88343**	4450	Warm White	3000	85	25,000	A	30
49	1,449	16	**F49/T5/840/WM**	**88336**	4450	Cool White	4000	85	25,000	A	30
54	1,149	16	**F54/T5/830/WM**	**88328**	4460	Warm White	3000	85	25,000	A	30
54	1,149	16	**F54/T5/840/WM**	**88337**	4460	Cool White	4000	85	25,000	A	30
80	1,449	16	**F80/T5/830/WM**	**88329**	6450	Warm White	3000	85	25,000	A	30
80	1,449	16	**F80/T5/840/WM**	**88332**	6450	Cool White	4000	85	25,000	A	30
T5 LongLast™ - High Efficiency, G5 Cap											
14	549	16	**F14W/T5/827/LL**	**90230**	1230	Extra Warm White	2700	85	30,000	A	30
14	549	16	**F14W/T5/830/LL**	**90239**	1230	Warm White	3000	85	30,000	A	30
14	549	16	**F14W/T5/835/LL**	**90246**	1230	White	3500	85	30,000	A	30
14	549	16	**F14W/T5/840/LL**	**90247**	1230	Cool White	4000	85	30,000	A	30
14	549	16	**F14W/T5/865/LL**	**90244**	1140	Daylight	6500	85	30,000	A	30
21	849	16	**F21W/T5/827/LL**	**90245**	1910	Extra Warm White	2700	85	30,000	A	30
21	849	16	**F21W/T5/830/LL**	**90248**	1910	Warm White	3000	85	30,000	A	30
21	849	16	**F21W/T5/835/LL**	**90249**	1910	White	3500	85	30,000	A	30
21	849	16	**F21W/T5/840/LL**	**90250**	1910	Cool White	4000	85	30,000	A	30
21	849	16	**F21W/T5/865/LL**	**90251**	1770	Daylight	6500	85	30,000	A	30
28	1,149	16	**F28W/T5/827/LL**	**90252**	2640	Extra Warm White	2700	85	30,000	A	30
28	1,149	16	**F28W/T5/830/LL**	**90253**	2640	Warm White	3000	85	30,000	A	30
28	1,149	16	**F28W/T5/835/LL**	**90254**	2640	White	3500	85	30,000	A	30
28	1,149	16	**F28W/T5/840/LL**	**90255**	2640	Cool White	4000	85	30,000	A	30
28	1,149	16	**F28W/T5/865/LL**	**90256**	2450	Daylight	6500	85	30,000	A	30
35	1,449	16	**F35W/T5/827/LL**	**90257**	3320	Extra Warm White	2700	85	30,000	A	30
35	1,449	16	**F35W/T5/830/LL**	**90258**	3320	Warm White	3000	85	30,000	A	30
35	1,449	16	**F35W/T5/835/LL**	**90259**	3320	White	3500	85	30,000	A	30
35	1,449	16	**F35W/T5/840/LL**	**90260**	3320	Cool White	4000	85	30,000	A	30
35	1,449	16	**F35W/T5/865/LL**	**90261**	3090	Daylight	6500	85	30,000	A	30

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

T5 LongLast™ - High Output, G5 Cap

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	Pack Qty
24	549	16	**F24W/T5/827/LL**	**90262**	1750	Extra Warm White	2700	85	30,000	A	30
24	549	16	**F24W/T5/830/LL**	**90263**	1750	Warm White	3000	85	30,000	A	30
24	549	16	**F24W/T5/835/LL**	**90264**	1750	White	3500	85	30,000	A	30
24	549	16	**F24W/T5/840/LL**	**90265**	1750	Cool White	4000	85	30,000	A	30
24	549	16	**F24W/T5/865/LL**	**90266**	1600	Daylight	6500	85	30,000	A	30
39	849	16	**F39W/T5/827/LL**	**90267**	3200	Extra Warm White	2700	85	30,000	A	30
39	849	16	**F39W/T5/830/LL**	**90268**	3200	Warm White	3000	85	30,000	A	30
39	849	16	**F39W/T5/835/LL**	**90269**	3200	White	3500	85	30,000	A	30
39	849	16	**F39W/T5/840/LL**	**90270**	3200	Cool White	4000	85	30,000	A	30
39	849	16	**F39W/T5/865/LL**	**90271**	2950	Daylight	6500	85	30,000	A	30
49	1,449	16	**F49W/T5/827/LL**	**90277**	4450	Extra Warm White	2700	85	30,000	A	30
49	1,449	16	**F49W/T5/830/LL**	**90278**	4450	Warm White	3000	85	30,000	A	30
49	1,449	16	**F49W/T5/835/LL**	**90279**	4450	White	3500	85	30,000	A	30
49	1,449	16	**F49W/T5/840/LL**	**90280**	4450	Cool White	4000	85	30,000	A	30
49	1,449	16	**F49W/T5/865/LL**	**90281**	4100	Daylight	6500	85	30,000	A	30
54	1,149	16	**F54W/T5/827/LL**	**90272**	4460	Extra Warm White	2700	85	30,000	A	30
54	1,149	16	**F54W/T5/830/LL**	**90273**	4460	Warm White	3000	85	30,000	A	30
54	1,149	16	**F54W/T5/835/LL**	**90274**	4460	White	3500	85	30,000	A	30
54	1,149	16	**F54W/T5/840/LL**	**90275**	4460	Cool White	4000	85	30,000	A	30
54	1,149	16	**F54W/T5/865/LL**	**90276**	4100	Daylight	6500	85	30,000	A	30
80	1,449	16	**F80W/T5/830/LL**	**90283**	6450	Warm White	3000	85	30,000	A	30
80	1,449	16	**F80W/T5/835/LL**	**90284**	6450	White	3500	85	30,000	A	30
80	1,449	16	**F80W/T5/840/LL**	**90285**	6450	Cool White	4000	85	30,000	A	30
80	1,449	16	**F80W/T5/865/LL**	**90286**	5950	Daylight	6500	85	30,000	A	30

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

T5 covRguard™ - High Output, G5 Cap

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	Pack Qty
24	549	16	**F24W/T5/830/ECO/CVG**	**71000**	1700	Warm White	3000	85	30,000	A	40
24	549	16	**F24W/T5/835/ECO/CVG**	**70998**	1700	White	3500	85	30,000	A	40
24	549	16	**F24W/T5/841/ECO/CVG**	**70997**	1700	Cool White	4100	85	30,000	A	40
24	549	16	**F24W/T5/850/ECO/CVG**	**70999**	1600	Daylight	5000	85	30,000	A	40
24	549	16	**F24W/T5/865/ECO/CVG**	**70996**	1550	Daylight	6500	85	30,000	A	40
39	849	16	**F39W/T5/830/ECO/CVG**	**70995**	3100	Warm White	3000	85	30,000	A	40
39	849	16	**F39W/T5/835/ECO/CVG**	**70994**	3100	White	3500	85	30,000	A	40
39	849	16	**F39W/T5/841/ECO/CVG**	**70993**	3100	Cool White	4100	85	30,000	A	40
39	849	16	**F39W/T5/850/ECO/CVG**	**70991**	2960	Daylight	5000	85	30,000	A	40
39	849	16	**F39W/T5/865/ECO/CVG**	**70990**	2860	Daylight	6500	85	30,000	A	40
54	1,149	16	**F54W/T5/830/ECO/CVG**	**48433**	4330	Warm White	3000	85	30,000	A	40
54	1,149	16	**F54W/T5/835/ECO/CVG**	**48436**	4330	White	3500	85	30,000	A	40
54	1,149	16	**F54W/T5/841/ECO/CVG**	**48458**	4330	Cool White	4100	85	30,000	A	40
54	1,149	16	**F54W/T5/850/ECO/CVG**	**80311**	4120	Daylight	5000	85	30,000	A	40
54	1,149	16	**F54W/T5/865/ECO/CVG**	**48469**	3980	Daylight	6500	85	30,000	A	40

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	Pack Qty
T5 Watt-Miser™ covRguard™ - G5 Cap											
54	1,149	16	**F45W/T5/830/ECO/WM/CVG**	**72985**	4330	Warm White	3000	85	25,000	A	40
54	1,149	16	**F45W/T5/835/ECO/WM/CVG**	**72986**	4330	White	3500	85	25,000	A	40
54	1,149	16	**F45W/T5/841/ECO/WM/CVG**	**72987**	4330	Cool White	4100	85	25,000	A	40
54	1,149	16	**F45W/T5/850/ECO/WM/CVG**	**72988**	4120	Daylight	5000	85	25,000	A	40
54	1,149	16	**F45W/T5/865/ECO/WM/CVG**	**72989**	3980	Daylight	6500	85	25,000	A	40
T5 Miniature - Specfill Triphosphor - Emergency Lighting, G5 Cap											
6	225	16	**F6W/T5/840/SPECFILL/IND**	**40327**	300	Cool White	4000	80+	8,000	B	100
8	302.5	16	**F8W/T5/840/SPECFILL/IND**	**40331**	460	Cool White	4000	80+	8,000	B	100
8	302.5	16	**F8W/T5/865/SPECFILL/IND**	**45034**	430	Daylight	6500	80+	8,000	B	100
13	531.1	16	**F13W/T5/840/SPECFILL/IND**	**45695**	920	Cool White	4000	80+	8,000	B	100
T5 Miniature - Specfill Standard - Emergency Lighting, G5 Cap											
6	225	16	**F6W/T5/33/SPECFILL/IND**	**40307**	260	Cool White	4040	58	8,000	B	100
8	302.5	16	**F8W/T5/35/SPECFILL/SL**	**27027**	395	White	3450	54	8,000	B	25
8	302.5	16	**F8W/35/T5/SPECFILL/IND**	**91451**	395	White	3450	54	8,000	B	100
8	302.5	16	**F8W/T5/33/SPECFILL/SL**	**27011**	395	Cool White	4040	58	8,000	B	25
8	302.5	16	**F8W/T5/33/SPECFILL/IND**	**91450**	395	Cool White	4040	58	8,000	B	100
T5 Miniature - Triphosphor, G5 Cap											
8	302.5	16	**F8W/T5/827/IND**	**37008**	460	Extra Warm White	2720	80+	5,000	B	100
8	302.5	16	**F8W/T5/840/IND**	**37009**	460	Cool White	4040	80+	5,000	B	100
13	531.1	16	**F13W/T5/827/SL**	**12701**	1000	Extra Warm White	2700	80+	6,000	B	25
T5 Miniature - Standard, G5 Cap											
4	150.1	16	**F4W/T5/35/SL**	**39446**	130	White	3450	54	5,000	B	25
4	150.1	16	**F4W/T5/33/SL**	**39441**	130	Cool White	4040	58	5,000	B	25
6	226.3	16	**F6W/T5/35/SL**	**39442**	260	White	3450	54	5,000	B	25
6	226.3	16	**F6W/T5/33/SL**	**39445**	260	Cool White	4040	58	5,000	B	25
8	302.5	16	**F8W/T5/29/SL**	**37754**	385	Warm White	2940	51	5,000	B	25
8	302.5	16	**F8W/T5/35/SL**	**37756**	385	White	3450	54	5,000	B	25
8	302.5	16	**F8W/T5/33/SL**	**37755**	385	Cool White	4040	58	5,000	B	25
13	531.1	16	**F13W/T5/29/SL**	**12684**	850	Warm White	2950	51	6,000	B	25
13	531.1	16	**F13W/T5/35/SL**	**12694**	850	White	3450	54	6,000	B	25
13	531.1	16	**F13W/T5/33/SL**	**12693**	800	Cool White	3450	58	6,000	B	25
T5 Circline™ - 2Gx13 Cap											
22	225	16	**FC22W/T5/830**	**75709**	1900	Warm White	3000	82	12,000	A	10
22	225	16	**FC22W/T5/840**	**75720**	1900	Cool White	4000	82	12,000	A	10
40	300	16	**FC40W/T5/830**	**75712**	3300	Warm White	3000	82	12,000	A	10
40	300	16	**FC40W/T5/840**	**75713**	3300	Cool White	4000	82	12,000	A	10
55	300	16	**FC55W/T5/830**	**75717**	4200	Warm White	3000	82	12,000	B	10
55	300	16	**FC55W/T5/840**	**75718**	4200	Cool White	4000	82	12,000	B	10

Linear Fluorescent Lamps

T8 Watt-Miser™ - G13 Cap

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	Pack Qty
16	604	26	**F18/T8/830/16W/WM**	**73605**	1300	Warm White	3000	85	15,000	A	25
16	604	26	**F18/T8/840/16W/WM**	**73607**	1300	Cool White	4000	85	15,000	A	25
32	1,200	26	**F36/T8/830/32W/WM**	**96748**	2750	Warm White	3000	85	15,000	A	25
32	1,200	26	**F36/T8/840/32W/WM**	**96750**	2750	Cool White	4000	85	15,000	A	25
51	1,514.2	26	**F58/T8/830/51W/WM**	**73609**	4320	Warm White	2940	85	15,000	A	25
51	1,514.2	26	**F58/T8/840/51W/WM**	**73611**	4320	Cool White	4040	85	15,000	A	25
63	1,778	26	**F70/T8/840/63W WM**	**73615**	5250	Cool White	4040	85	15,000	A	25

T8 Polylux XLR™ LongLast™ - G13 Cap

18	604	26	**F18/T8/830/POLYLUX/LL**	**70980**	1350	Warm White	3000	85	24,000	A	25
18	604	26	**F18/T8/840/POLYLUX/LL**	**70981**	1350	Cool White	4000	85	24,000	A	25
36	1,200	26	**F36/T8/830/POLYLUX/LL**	**43508**	3350	Warm White	3000	85	24,000	A	25
36	1,200	26	**F36/T8/840/POLYLUX/LL**	**43509**	3350	Cool White	4000	85	24,000	A	25
58	1,500	26	**F58/T8/830/POLYLUX/LL**	**43510**	5200	Warm White	3000	85	24,000	A	25
58	1,500	26	**F58/T8/840/POLYLUX/LL**	**43511**	5200	Cool White	4000	85	24,000	A	25
70	1,778	26	**F70/T8/830/POLYLUX/LL**	**43513**	6300	Warm White	3000	85	24,000	A	25
70	1,778	26	**F70/T8/840/POLYLUX/LL**	**43514**	6300	Cool White	4000	85	24,000	A	25

T8 Polylux XLR™ - G13 Cap

15	451.6	26	**F15W/T8/827/POLYLUX**	**23247**	1000	Extra Warm White	2720	85	15,000	B	25
15	451.6	26	**F15W/T8/830/POLYLUX**	**23248**	1000	Warm White	2940	85	15,000	B	25
15	451.6	26	**F15W/T8/835 POLYLUX**	**78133**	1000	White	3450	85	15,000	A	25
15	451.6	26	**F15W/T8/840/POLYLUX**	**23249**	1000	Cool White	4040	85	15,000	B	25
15	451.6	26	**F15W/T8/860/POLYLUX**	**78131**	900	Daylight	6400	85	15,000	B	25
18	604	26	**F18W/T8/827/POLYLUX**	**93315**	1350	Extra Warm White	2720	85	15,000	A	25
18	604	26	**F18W/T8/830/POLYLUX**	**93319**	1350	Warm White	2940	85	15,000	A	25
18	604	26	**F18W/T8/835/POLYLUX**	**93311**	1350	White	3450	85	15,000	A	25
18	604	26	**F18W/T8/840/POLYLUX**	**93317**	1350	Cool White	4040	85	15,000	A	25
18	604	26	**F18W/T8/860/POLYLUX**	**12606**	1300	Daylight	6400	85	15,000	A	25
30	908.8	26	**F30W/T8/827/POLYLUX**	**18138**	2450	Extra Warm White	2720	85	15,000	A	25
30	908.8	26	**F30W/T8/830/POLYLUX**	**18141**	2450	Warm White	2940	85	15,000	A	25
30	908.8	26	**F30W/T8/835/POLYLUX**	**78132**	2450	White	3450	85	15,000	A	25
30	908.8	26	**F30W/T8/840/POLYLUX**	**18142**	2450	Cool White	4040	85	15,000	A	25
36	1,213.6	26	**F36W/T8/827/POLYLUX**	**19977**	3350	Extra Warm White	2720	85	15,000	A	25
36	1,213.6	26	**F36W/T8/830/POLYLUX**	**18192**	3350	Warm White	2940	85	15,000	A	25
36	970	26	**F36W-1M/T8/830/POLYLUX**	**23260**	3350	Warm White	2940	85	15,000	A	25
36	1,213.6	26	**F36W/T8/835/POLYLUX**	**19991**	3350	White	3450	85	15,000	A	25
36	1,213.6	26	**F36W/T8/840/POLYLUX**	**16856**	3350	Cool White	4040	85	15,000	A	25
36	970	26	**F36W-1M/T8/840/POLYLUX**	**23262**	3350	Cool White	4040	85	15,000	A	25
36	1,213.6	26	**F36W/T8/860/POLYLUX**	**12942**	3250	Daylight	6400	85	15,000	A	25
58	1,514.2	26	**F58W/T8/827/POLYLUX**	**93330**	5200	Extra Warm White	2720	85	15,000	A	25
58	1,514.2	26	**F58W/T8/830/POLYLUX**	**93334**	5200	Warm White	2940	85	15,000	A	25
58	1,514.2	26	**F58W/T8/835/POLYLUX**	**93331**	5200	White	3450	85	15,000	A	25
58	1,514.2	26	**F58W/T8/840/POLYLUX**	**93333**	5200	Cool White	4040	85	15,000	A	25
58	1,514.2	26	**F58W/T8/860/POLYLUX**	**12943**	5000	Daylight	6400	85	15,000	A	25
70	1,778	26	**F70W/T8/835/POLYLUX**	**42792**	6300	White	3450	85	15,000	A	25
70	1,778	26	**F70W/T8/840/POLYLUX**	**42793**	6300	Cool White	4040	85	15,000	A	25

T8 covRguard™ Polylux XLR™ - with Polycarbonate Shield, G13 Cap

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	Pack Qty
18	600	26	**F18W/T8/830/CVG**	**17203**	1300	Warm White	2950	85	15,000	A	25
18	600	26	**F18W/T8/835/CVG**	**17204**	1300	White	3400	85	15,000	A	25
18	600	26	**F18W/T8/840/CVG**	**17205**	1300	Cool White	4000	85	15,000	A	25
36	1,200	26	**F36W/T8/830/CVG**	**17208**	3250	Warm White	2950	85	15,000	A	25
36	1,200	26	**F36W/T8/835/CVG**	**17202**	3250	White	3400	85	15,000	A	25
36	1,200	26	**F36W/T8/840/CVG**	**17209**	3250	Cool White	4000	85	15,000	A	25
58	1,500	26	**F58W/T8/830/CVG**	**12403**	5050	Warm White	2950	85	15,000	A	25
58	1,500	26	**F58W/T8/835/CVG**	**12405**	5050	White	3400	85	15,000	A	25
58	1,500	26	**F58W/T8/840/CVG**	**12407**	5050	Cool White	4000	85	15,000	A	25
70	1,800	26	**F70W/T8/835/CVG**	**12423**	6100	White	3400	85	15,000	A	25
70	1,800	26	**F70W/T8/840/CVG**	**12424**	6100	Cool White	4000	85	15,000	A	25

T8 Slimline - Fa8 Cap

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]	Pack Qty
35	1,800	26	**F72T8/CW**	**10829**	3000	Cool White	4150	62	7,500	24
50	2,400	26	**F96T8/CW**	**10912**	4050	Cool White	4150	62	7,500	24

T12 Slimline - Fa8 Cap

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]	Pack Qty
75	2,400	38	**F96T12/CW**	**25619**	6150	Cool White	4150	60	12,000	15

T17 Powergroove - R17d Cap

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]	Pack Qty
215	2,400	54	**F96PG17/CW**	**11009**	14000	Cool White	4150	60	10,000	8

Starter

Wattage [W]	Product Description	Product Code	Pack Qty
Single 4-65W	**155/501/4/65W/UNIV/BX**	**36536**	250
Single 4-65W	**155/501/4/65W/UNIV/IND**	**36537**	2000
Series 4-8W, 15-22W	**155/200/4-22W/TANDEM/BX**	**36711**	250
Series 4-8W, 15-22W	**155/200/4-22W/TANDEM/IND**	**36714**	2000
Single 75-140W	**155/800/75-140W/BX**	**37864**	250
Single 75-140W	**155/800/75-140W/IND**	**37729**	2000
Single 75-115W	**155/801/75-115W/BX**	**37975**	250
Single 75-115W	**155/801/75-115W/IND**	**37974**	2000

Linear Fluorescent Lamps

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
	T5 Watt-Miser™ High Efficiency			
14W	**F14/T5/830/WM**	-	-	-
	F14/T5/840/WM	-	-	-
21W	**F21/T5/830/WM**	-	-	-
	F21/T5/840/WM	-	-	-
28W	**F28/T5/830/WM**	-	-	-
	F28/T5/840/WM	-	-	-
35W	**F35/T5/830/WM**	-	-	-
	F35/T5/840/WM	-	-	-
	T5 Watt-Miser™ High Output			
24W	**F24/T5/830/WM**	-	-	-
	F24/T5/840/WM	-	-	-
39W	**F39/T5/830/WM**	-	-	-
	F39/T5/840/WM	-	-	-
49W	**F49/T5/830/WM**	-	-	-
	F49/T5/840/WM	-	-	-
54W	**F54/T5/830/WM**	-	-	-
	F54/T5/840/WM	-	-	-
80W	**F80/T5/830/WM**	-	-	-
	F80/T5/840/WM	-	-	-
	T5 LongLast™ High Efficiency	**Lumilux T5 HE**	**Master TL5 HE**	**T5 Luxline Plus FHE**
14W	**F14W/T5/827/LL**	FH14W/827HE	14W/827	-
	F14W/T5/830/LL	FH14W/830HE	14W/830	FHE14W/830
	F14W/T5/835/LL	FH 14W/835HE	-	-
	F14W/T5/840/LL	FH14W/840HE	14W/840	FHE14W/840
	F14W/T5/865/LL	FH14W/865HE	14W/865	FHE14W/860
21W	**F21W/T5/827/LL**	FH21W/827HE	21W/827	-
	F21W/T5/830/LL	FH21W/830HE	21W/830	FHE21W/830
	F21W/T5/835/LL	FH21W/835HE	-	-
	F21W/T5/840/LL	FH21W/840HE	21W/840	FHE21W/840
	F21W/T5/865/LL	FH21W/865HE	21W/865	FHE21W/860
28W	**F28W/T5/827/LL**	FH28W/827HE	28W/827	-
	F28W/T5/830/LL	FH28W/830HE	28W/830	FHE28W/830
	F28W/T5/835/LL	FH28W/835HE	-	-
	F28W/T5/840/LL	FH28W/840HE	28W/840	FHE28W/840
	F28W/T5/865/LL	FH28W/865HE	28W/865	FHE28W/860
35W	**F35W/T5/827/LL**	FH35W/827HE	35W/827	-
	F35W/T5/830/LL	FH35W/830HE	35W/830	FHE35W/830
	F35W/T5/835/LL	FH35W/835HE	-	-
	F35W/T5/840/LL	FH35W/840HE	35W/840	FHE35W/840
	F35W/T5/865/LL	FH35W/865HE	35W/865	FHE35W/860
	T5 LongLast™ High Output	**Lumilux T5 HO**	**Master TL5 HO**	**T5 Luxline Plus FHO**
24W	**F24W/T5/827/LL**	FH24W/827HO	24W/827	-
	F24W/T5/830/LL	FH24W/830HO	24W/830	FHO24W/830
	F24W/T5/835/LL	FH24W/835HO	-	-
	F24W/T5/840/LL	FH24W/840HO	24W/840	FHO24W/840
	F24W/T5/865/LL	FH24W/865HO	24W/865	FHO24W/860
39W	**F39W/T5/827/LL**	FH39W/827HO	39W/827	-
	F39W/T5/830/LL	FH39W/830HO	39W/830	FHO39W/830
	F39W/T5/835/LL	FH39W/835HO	-	-
	F39W/T5/840/LL	FH39W/840HO	39W/840	FHO39W/840
	F39W/T5/865/LL	FH39W/865HO	39W/865	FHO39W/860
49W	**F49W/T5/827/LL**	FH49W/827HO	49W/827	-
	F49W/T5/830/LL	FH49W/830HO	49W/830	FHO49W/830
	F49W/T5/835/LL	FH49W/835HO	-	-
	F49W/T5/840/LL	FH49W/840HO	49W/840	FHO49W/840
	F49W/T5/865/LL	FH49W/885HO	49W/865	FHO49W/860

Brand cross reference

	GE	OSRAM	PHILIPS	Havells Sylvania
	T5 LongLast™ High Output	**Lumilux T5 HO**	**Master TL5 HO**	**T5 Luxline Plus FHO**
54W	**F54W/T5/827/LL**	FH54W/827HO	54W/827	-
	F54W/T5/830/LL	FH54W/830HO	54W/830	FHO54W/830
	F54W/T5/835/LL	FH54W/835HO	-	-
	F54W/T5/840/LL	FH54W/840HO	54W/840	FHO54W/840
	F54W/T5/865/LL	FH54W/865HO	54W/865	FHO54W/860
80W	**F80W/T5/830/LL**	FH80W/830HO	80W/830	FHO80W/830
	F80W/T5/835/LL	FH80W/835HO	-	-
	F80W/T5/840/LL	FH80W/840HO	80W/840	FHO80W/840
	F80W/T5/865/LL	FH80W/865HO	80W/865	FHO80W/860
	T5 covRguard™ High Output	**Split Control**	**Secura**	**-**
24W	**F24W/T5/830/ECO/CVG**	-	-	-
	F24W/T5/835/ECO/CVG	-	-	-
	F24W/T5/841/ECO/CVG	-	MASTER TL5 HO Secura 24W/840	-
	F24W/T5/850/ECO/CVG	-	-	-
	F24W/T5/865/ECO/CVG	-	-	-
39W	**F39W/T5/830/ECO/CVG**	-	-	-
	F39W/T5/835/ECO/CVG	-	-	-
	F39W/T5/841/ECO/CVG	-	-	-
	F39W/T5/850/ECO/CVG	-	-	-
	F39W/T5/865/ECO/CVG	-	-	-
54W	**F54W/T5/830/ECO/CVG**	-	-	-
	F54W/T5/835/ECO/CVG	-	-	-
	F54W/T5/841/ECO/CVG	HO 54W/840 SPS 10X1	MASTER TL5 HO Secura 54W/840	-
	F54W/T5/850/ECO/CVG	-	-	-
	F54W/T5/865/ECO/CVG	-	-	-
	T5 Miniature Standard	**Energy Saver (Basic) T5 short**	**TL Mini**	**T5 Standard**
4W	**F4W/T5/35**	-	-	-
	F4W/T5/33	L4W/640	4W/33-640	F4W/133
6W	**F6W/T5/35**	-	-	-
	F6W/T5/33	L6W/640	6W/33-640	F6W/133
8W	**F8W/T5/29**	-	-	F8W/129
	F8W/T5/35	-	-	-
	F8W/T5/33	L8W/640	8W/33-640	F8W/133
13W	**F13W/T5/29**	-	-	F13W/129
	F13W/T5/35	-	-	-
	F13W/T5/33	L13W/640	13W/33-640	F13W/133
	T5 Miniature Triphosphore	**Lumilux T5 short**	**Master TL Mini Super 80**	**T5 Luxline Plus**
8W	**F8W/T5/827**	L8W/827	8W/827	-
	F8W/T5/840	L8W/840	8W/840	F8W/840
13W	**F13W/T5/827**	L13W/840	13W/840	-
	T5 Miniature Specfill Standard - Emergency Lighting	**Emergency Lighting (Basic) T5 short**	-	**T5 Emergency**
6W	**F6W/T5/33/SPECFILL**	L6W/640	-	F6W/133 Emergency
8W	**F8W/T5/35/SPECFILL**	-	-	F8W/135 Emergency
	F8W/T5/33/SPECFILL	L8W/640	-	F8W/133 Emergency
	T5 Miniature Specfill Triphosphore - Emergency Lighting	-	-	**T5 Emergency**
6W	**F6W/T5/840/SPECFILL**	-	-	-
8W	**F8W/T5/840/SPECFILL**	-	-	F8W/1840 Emergency
	F8W/T5/865/SPECFILL	-	-	-
13W	**F13W/T5/840/SPECFILL**	-	-	-

Linear Fluorescent Lamps

	GE	OSRAM	PHILIPS	Havells Sylvania
	T5 Circline™	**Lumilux T5 FC**	**Master TL5 Circular**	**T5 Standard**
22W	**FC22W/T5/830**	FC22W/830	22W/830	-
	FC22W/T5/840	FC22W/840	22W/840	-
40W	**FC40W/T5/830**	FC40W/830	40W/830	-
	FC40W/T5/840	FC40W/840	40W/840	-
55W	**FC55W/T5/830**	FC55W/830	55W/830	-
	FC55W/T5/840	FC55W/840	55W/840	-
	T8 Watt-Miser™	**-**	**Master TL-D Eco**	**-**
16W	**F18/T8/830/16W/WM**	-	16W/830	-
	F18/T8/840/16W/WM	-	16W/840	-
32W	**F36/T8/830/32W/WM**	-	32W/830	-
	F36/T8/840/32W/WM	-	32W/840	-
58W	**F58/T8/830/51W/WM**	-	58W/830	-
	F58/T8/840/51W/WM	-	58W/840	-
70W	**F70/T8/840/63W WM**	-	70W/840	-
	T8 Polylux XLR™ LongLast™	**Lumilux XT T8**	**Master TL-D Xtra**	**-**
18W	**F18W/T8/830/POLYLUX/LL**	L18W/830XT	18W/830	-
	F18W/T8/840/POLYLUX/LL	L18W/840XT	18W/840	-
36W	**F36W/T8/830/POLYLUX/LL**	L36W/830XT	36W/830	-
	F36W/T8/840/POLYLUX/LL	L36W/840XT	36W/840	-
58W	**F58W/T8/830/POLYLUX/LL**	L58W/830XT	58W/830	-
	F58W/T8/840/POLYLUX/LL	L58W/840XT	58W/840	-
70W	**F70W/T8/830/POLYLUX/LL**	-	70W/830	-
	F70W/T8/840/POLYLUX/LL	-	-	-
	T8 Polylux XLR™	**Lumilux T8**	**Master TL-D Super 80**	**T8 Luxline Plus**
15W	**F15W/T8/827/POLYLUX**	L15W/827	15W/827	F15W/827
	F15W/T8/830/POLYLUX	L15W/830	15W/830	F15W/830
	FF15W/T8/835 POLYLUX	-	-	-
	F15W/T8/840/POLYLUX	L15W/840	15W/840	F15W/840
	F15W/T8/860/POLYLUX	L15W/860	-	-
18W	**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	-	F18W/835
	F18W/T8/840/POLYLUX	L18W/840	18W/840	F18W/840
	F18W/T8/860/POLYLUX	L18W/865	18W/865	F18W/860
30W	**F30W/T8/827/POLYLUX**	L30W/827	30W/827	F30W/827
	F30W/T8/830/POLYLUX	L30W/830	30W/830	F30W/830
	F30W/T8/835/POLYLUX	-	-	-
	F30W/T8/840/POLYLUX	L30W/840	30W/840	F30W/840
36W	**F36W-1M/T8/830/POLYLUX**	-	36W/830-1m	-
	F36W-1M/T8/840/POLYLUX	L36W/840-1	36W/840-1m	-
	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	-	F36W/835
	F36W/T8/840/POLYLUX	L36W/840	36W/840	F36W/840
	F36W/T8/860/POLYLUX	L36W/865	36W/865	F36W/865

Brand cross reference

	GE	OSRAM	PHILIPS	Havells Sylvania
	T8 Polylux XLR™	**Lumilux T8**	**Master TL-D Super 80**	**T8 Luxline Plus**
58W	**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		F58W/835
	F58W/T8/840/POLYLUX	L58W/840	58W/840	F58W/840
	F58W/T8/860/POLYLUX	L58W/865	58W/865	F58W/860
70W	**F70W/T8/835/POLYLUX**	L70W/835	-	F70W/840
	F70W/T8/840/POLYLUX	L70W/840	70W/840	-
	T8 covRguard™ Polylux XLR™	**Split Control**	**Secura**	**-**
18W	**F18W/T8/830/CVG**	-	MASTER TL-D Secura18W/830	-
	F18W/T8/835/CVG	-	-	-
	F18W/T8/840/CVG	L18W/840 SPS VS12	MASTER TL-D Secura 18W/830	-
36W	**F36W/T8/830/CVG**	-	MASTER TL-D Secura 36W/830	-
	F36W/T8/835/CVG	-	-	-
	F36W/T8/840/CVG	L36W/840 SPS VS12	MASTER TL-D Secura 36W/830	-
58W	**F58W/T8/830/CVG**	-	MASTER TL-D Secura 58W/830	-
	F58W/T8/835/CVG	-	-	-
	F58W/T8/840/CVG	L58W/840 SPS VS12	MASTER TL-D Secura 58W/840	-
70W	**F70W/T8/835/CVG**	-	-	-
	F70W/T8/840/CVG	-	-	-

The smart way for an efficient professional lighting application with GE non-integrated compact fluorescent lamps.

GE lighting has one of the most extensive range of compact fluorescent light sources available, providing extra energy saving with the Watt-Miser™ concept and long life performance with the LongLast™ range, which can be ideal for almost every application. Since compact fluorescent bulbs use less energy, these products save you money on your electricity bill and help protect the environment.

In response to the demand from the market for a lower energy consumption GE has developed the extra energy saving 2D™ Watt-Miser™.

GE Watt-Miser™ is a new generation of lamp family where end users can save additional energy versus regular compact fluorescent lamps on the market. Currently this unique GE 2D™ range has this extra feature where extra energy saving can reach up to 12%.

GE LongLast™ plug-in range is over the standard, and can last up to 20,000 hours.

The range is wide, having this long life performance from 10-70W in variety of different product shapes.

GE Biax™ lamps offers:

- Extra energy saving – up to 12%
- Long life – up to 20,000 hours
- High industry standard efficacy level
- Wide range of colour, wattage
- Suitable for dimming and motion detection
- Robust technical design
- High quality product
- Low running cost
- Warranty
- Environmentally friendly

Standard Biax™ D&T upgraded to LongLast™

For Maintenance Saving

Our new compact fluorescent LongLast™ lamps provide increased service life which significantly reduces replacement and maintenance costs. They are ultra compact energy saving fluorescent lamps with new, innovative double and triple tube designs giving an ideal light source for small fixtures and downlighters.

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

- Standard product has been upgraded to LongLast™
- Retrofit – can be used with existing fittings and control gears
- 20% life increase on 2-pin and 60% life increase on 4-pin range
- Reduces replacement and maintenance costs
- Best in class versus competition – standard price at premium performance
- Further energy saving with dimming possibilities
- Available in warm to cool temperatures (2700 – 6500K)

LongLast™

Standard 2D™ upgraded to Watt-Miser™

For Energy Saving

New 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 permits use with conventional or electronic control gear, dimming and emergency lighting circuits.

2D™ lamps use rare earth triphosphors to give high efficacy with good colour rendering properties.

This new range of GE 2D™ Watt-Miser™ compact fluorescent lamps give additional energy savings, even on standard control gear.

- Direct replacements for 16-21-28-38W standard 2D™ range
- Unique shape suitable for broad range of applications
- Interchangeable – can be used with existing fittings and control gear
- Excellent for circular light distribution
- Extra 5-12% energy saving depending on lamp/gear/environment
- The only 'A' class energy 2D™ lamp on the market
- Highest saving of 12% using 28W in high frequency operation – fast payback
- Best performance at the best running cost on the market!

2DWattMiser™

2D™ Watt-Miser™

The next generation of 2D™ lamps

The new 2D™ Watt-Miser™ lamps are energy saving compact fluorescent tubes. Available in either 16W, 21W, 28W, or 38W versions, in a wide choice of colour temperatures. These lamps are a direct replacement for existing 2D™ lamps, delivering market leading life, with excellent energy saving performance that is unique to GE!

2D™ Watt-Miser™ lamps provide similar lumen output as standard 2D™ lamps, with an energy saving of up to 12% dependent upon ballast and wattage.

2DWattMiser™

Key benefits

- Reduced energy consumption
- The only 'A' Class energy rated 2D™ lamp
- Maintains market leading lumen maintenance
- Retrofit products to existing fittings and ballasts
- 2 and 4 pin versions

Application areas

2D™ Watt-Miser™ lamps are suitable for a wide range of exterior and interior applications:

- Residential
- Domestic
- Utility areas
- Task lighting
- Hotels/offices/restaurants
- Emergency lighting
- Decorative installations

Energy saving possibilities

	16W			21W			28W			38W		
	W/ Electronic gear	W/ Standard gear	Lumen	W/ Electronic gear	W/ Standard gear	Lumen	W/ Electronic gear	W/ Standard gear	Lumen	W/ Electronic gear	W/ Standard gear	Lumen
2D™ Watt-Miser™	**14.05**	**14.84**	**1100**	**18.76**	**19.61**	**1350**	**24.24**	**26.74**	**2150**	**34**	**37.41**	**3000**
Standard GE 2D™ lamp	15.4	15.75	1150	20.17	21.17	1450	27.57	28.05	2250	37.28	38.68	3000
Saving	**8.8%**	**5.8%**		**7%**	**7.4%**		**12.1%**	**4.7%**		**8.8%**	**3.3%**	

Selector

Biax™ S

Biax™ S - 2pin

Cap: G23
Wattages: 5-7-9-11W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 77

Biax™ S/E - 4pin

Cap: 2G7
Wattages: 5-7-9-11W
Colours: 2700 - 6500K
Life: 10,000Hrs
Page: 77

Biax™ D

Biax™ D - 2pin

Cap: G24d
Wattages: 10-13-18-26W
Colours: 2700 - 6500K
Life: 12,000Hrs
Page: 77

LongLast™

Biax™ D/E - 4pin

Cap: G24q
Wattage: 10-13-18-26W
Colors: 2700 - 6500K
Life: 20,000Hrs
Page: 78

LongLast™

Biax™ T

Biax™ T - 2pin

Cap: GX24d
Wattages: 13-18-26-32W
Colours: 2700 - 6500K
Life: 12,000Hrs
Page: 78

LongLast™

Biax™ T/E - 4pin

Cap: GX24q
Wattages: 13-18-26-32-42W
Colours: 2700 - 6500K
Life: 20,000Hrs
Pages: 78-79

LongLast™

Biax™ Q

Biax™ Q/E - 4pin

Cap: GX24q
Wattages: 57-70W
Colours: 2700 - 5000K
Life: 20,000Hrs
Page: 79

LongLast™

Biax™ L

Biax™ L - 4pin

Cap: 2G11
Wattages: 18-26-36-40-55W
Colours: 2700 - 6500K
Life: 12,000-20,000Hrs
Page: 79

LongLast™

2D™

Biax™ 2D™ - 2pin

Cap: GR8
Wattages: 16-28W
Colours: 2700 - 6000K
Life: 12,000Hrs
Page: 80

WattMiser™

2D™ - 4pin

Cap: GR10q, GRY10q
Wattages: 10-16-28-38-55W
Colours: 2700 - 6000K
Life: 8,000-15,000Hrs
Page: 80

WattMiser™

Biax™ 2D™ Intergral

Cap: GRZ10d, GRZ10t
Wattages: 18-30W
Colours: 2700 - 6000K
Life: 10,000Hrs
Page: 80

WattMiser™

*10W and 55W versions are not Watt-Miser type

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

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

Volts: Lamp data is based on operation at rated voltage

Cap: The type of cap fitted. See page 134-135 for cap drawings

Product description: The lamp's identification code

Lumens: Light output after the initial 100 hours of operation

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

Diameter: Bulb diameter in mm

EEC: Energy Efficiency Class

Biax™ S 2-pin, Internal Starter

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
5	35	G23	**F5BX/SPX27/827**	**37654**	265	2700	82	10,000	32	107.5	A	10
5	35	G23	**F5BX/SPX41/840**	**37661**	265	4000	82	10,000	32	107.5	A	10
7	47	G23	**F7BX/SPX27/827**	**37846**	425	2700	82	10,000	32	136.5	A	10

F 5 B X / S P X 2 7 / 8 2 7

Identifies lamp as fluorescent

Lamp's wattage

Product type

American standard coding of colour temperature

Colour rendering
Ra 60-69 (group 2B)
Ra 70-79 (group 2A)
Ra 80-89 (group 1B)
Ra 90-99 (group 1A)

Colour temperature
XX=First 2 digits of temperature in Kelvin - XX00K
Eg. 27 is 2700K

Colour definition
827=Extra Warm White
830=Warm White
835=White
840=Cool White
865=Daylight

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

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

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

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

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]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Biax™ S 2-pin, Internal Starter												
5	35	G23	**F5BX/SPX27/827**	**37654**	265	2700	82	10,000	32	107.5	A	10
5	35	G23	**F5BX/SPX41/840**	**37661**	265	4000	82	10,000	32	107.5	A	10
7	47	G23	**F7BX/SPX27/827**	**37846**	425	2700	82	10,000	32	136.5	A	10
7	47	G23	**F7BX/830**	**38930**	425	3000	82	10,000	32	136.5	A	10
7	47	G23	**F7BX/SPX35/835**	**37659**	425	3500	82	10,000	32	136.5	A	10
7	47	G23	**F7BX/SPX41/840**	**37660**	425	4000	82	10,000	32	136.5	A	10
7	47	G23	**F7BX/865**	**38984**	425	6500	82	10,000	32	136.5	A	10
9	60	G23	**F9BX/827**	**37651**	600	2700	82	10,000	32	167	A	10
9	60	G23	**F9BX/830**	**38929**	600	3000	82	10,000	32	167	A	10
9	60	G23	**F9BX/SPX35/835**	**37652**	600	3500	82	10,000	32	167	A	10
9	60	G23	**F9BX/SPX41/840**	**37653**	600	4000	82	10,000	32	167	A	10
9	60	G23	**F9BX/865**	**38985**	600	6500	82	10,000	32	167	A	10
11	91	G23	**F11BX/827**	**37663**	900	2700	82	10,000	32	237	A	10
11	91	G23	**F11BX/830**	**38928**	900	3000	82	10,000	32	237	A	10
11	91	G23	**F11BX/835**	**37666**	900	3500	82	10,000	32	237	A	10
11	91	G23	**F11BX/840**	**37664**	900	4000	82	10,000	32	237	A	10
11	91	G23	**F11BX/840**	**38986**	900	6500	82	10,000	32	237	A	10
Biax™ S/E 4-pin, External Starter Required												
5	35	2G7	**F5BX/827/4P**	**37714**	265	2700	82	10,000	37.5	92	A	10
5	35	2G7	**F5BX/840/4P**	**37715**	265	4000	82	10,000	37.5	92	A	10
7	47	2G7	**F7BX/827/4P**	**37658**	425	2700	82	10,000	37.5	121	A	10
7	47	2G7	**F7BX/840/4P**	**37716**	425	4000	82	10,000	37.5	121	A	10
9	60	2G7	**F9BX/827/4P**	**37710**	600	2700	82	10,000	37.5	151	A	10
9	60	2G7	**F9BX/840/4P**	**37711**	600	4000	82	10,000	37.5	151	A	10
11	91	2G7	**F11BX/827/4P**	**37717**	900	2700	82	10,000	37.5	222	A	10
11	91	2G7	**F11BX/840/4P**	**37713**	900	4000	82	10,000	37.5	222	A	10
11	91	2G7	**F11BX/865/4P**	**12603**	900	6500	82	10,000	37.5	222	A	10
Biax™ D 2-pin, Internal Starter												
10	64	G24D-1	**F10DBX/T3/827/2P**	**78211**	600	2700	82	12000	34.4	108	B	10
10	64	G24D-1	**F10DBX/T3/830/2P**	**78212**	600	3000	82	12000	34.4	108	B	10
10	64	G24D-1	**F10DBX/T3/835/2P**	**78213**	600	3500	82	12000	34.4	108	B	10
10	64	G24D-1	**F10DBX/T3/840/2P**	**78214**	600	4000	82	12000	34.4	108	B	10
10	64	G24D-1	**F10DBX/T3/865/2P**	**78215**	600	6500	82	12000	34.4	108	B	10
13	91	G24D-1	**F13DBX/T3/827/2P**	**78221**	900	2700	82	12000	34.4	139	A	10
13	91	G24D-1	**F13DBX/T3/830/2P**	**78222**	900	3000	82	12000	34.4	139	A	10
13	91	G24D-1	**F13DBX/T3/835/2P**	**78223**	900	3500	82	12000	34.4	139	A	10
13	91	G24D-1	**F13DBX/T3/840/2P**	**78224**	900	4000	82	12000	34.4	139	A	10
13	91	G24D-1	**F13DBX/T3/865/2P**	**78225**	900	6500	82	12000	34.4	139	A	10
18	100	G24d-2	**F18DBXT4/SPX27/827**	**12860**	1200	2700	82	12,000	34.4	154	B	10
18	100	G24d-2	**F18DBXT4/SPX30/830**	**12861**	1200	3000	82	12,000	34.4	154	B	10
18	100	G24d-2	**F18DBXT4/SPX35/835**	**12863**	1200	3500	82	12,000	34.4	154	B	10
18	100	G24d-2	**F18DBXT4/SPX41/840**	**12864**	1200	4000	82	12,000	34.4	154	B	10
18	100	G24d-2	**F18DBXT4/SPX65/865**	**13017**	1200	6500	82	12,000	34.4	154	B	10
26	105	G24d-3	**F26DBXT4/SPX27/827**	**35250**	1800	2700	82	12,000	34.4	169.5	B	10
26	105	G24d-3	**F26DBXT4/SPX30/830**	**35237**	1800	3000	82	12,000	34.4	169.5	B	10
26	105	G24d-3	**F26DBXT4/SPX35/835**	**35251**	1800	3500	82	12,000	34.4	169.5	B	10
26	105	G24d-3	**F26DBXT4/SPX41/840**	**35252**	1800	4000	82	12,000	34.4	169.5	B	10
26	105	G24d-3	**F26DBXT4/SPX65/865**	**35305**	1630	6500	82	12,000	34.4	169.5	B	10

Compact Fluorescent Lamps Non-Integrated

Biax™ D/E LongLast™ 4-pin, External Starter Required

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
10	51	G24Q-1	**F10DBX/T3/827/4P**	**78217**	600	2700	82	20000	34.4	100.5	B	10
10	51	G24Q-1	**F10DBX/T3/830/4P**	**78218**	600	3000	82	20000	34.4	100.5	B	10
10	51	G24Q-1	**F10DBX/T3/835/4P**	**78219**	600	3500	82	20000	34.4	100.5	B	10
10	51	G24Q-1	**F10DBX/T3/840/4P**	**78220**	600	4000	82	20000	34.4	100.5	B	10
10	51	G24Q-1	**F10DBX/T3/865/4P**	**78231**	600	6500	82	20000	34.4	100.5	B	10
13	77	G24Q-1	**F13DBX/T3/827/4P**	**78226**	900	2700	82	20000	34.4	131.5	A	10
13	77	G24Q-1	**F13DBX/T3/830/4P**	**78227**	900	3000	82	20000	34.4	131.5	A	10
13	77	G24Q-1	**F13DBX/T3/835/4P**	**78228**	900	3500	82	20000	34.4	131.5	A	10
13	77	G24Q-1	**F13DBX/T3/840/4P**	**78229**	900	4000	82	20000	34.4	131.5	A	10
13	77	G24Q-1	**F13DBX/T3/865/4P**	**78232**	900	6500	82	20000	34.4	131.5	A	10
18	80	G24q-2	**F18DBX/SPX27/827/4P**	**12865**	1200	2700	82	20,000	34.4	146.5	B	10
18	80	G24q-2	**F18DBX/SPX30/830/4P**	**12866**	1200	3000	82	20,000	34.4	146.5	B	10
18	80	G24q-2	**F18DBX/SPX35/835/4P**	**12869**	1200	3500	82	20,000	34.4	146.5	B	10
18	80	G24q-2	**F18DBX/SPX41/840/4P**	**12870**	1200	4000	82	20,000	34.4	146.5	B	10
26	80	G24q-3	**F26DBX/SPX27/827/4P**	**35247**	1800	2700	82	20,000	34.4	162	B	10
26	80	G24q-3	**F26DBX/SPX30/830/4P**	**35235**	1800	3000	82	20,000	34.4	162	B	10
26	80	G24q-3	**F26DBX/SPX35/835/4P**	**35248**	1800	3500	82	20,000	34.4	162	B	10
26	80	G24q-3	**F26DBX/SPX41/840/4P**	**35236**	1800	4000	82	20,000	34.4	162	B	10
26	80	G24q-3	**F26DBX/SPX65/865/4P**	**42798**	1710	6500	82	12,000	34.40	162	B	10

Biax™ T 2-pin with Amalgam, Internal Starter

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
13	91	GX24d-1	**F13TBX/827/A/2P**	**35940**	900	2700	82	12,000	49.3	112.9	A	10
13	91	GX24d-1	**F13TBX/SPX30/830/A/2P**	**35966**	900	3000	82	12,000	49.3	112.9	A	10
13	91	GX24d-1	**F13TBX/SPX41/A/2P**	**35941**	900	4000	82	12,000	49.3	112.9	A	10
18	100	GX24d-2	**F18TBX/SPX27/827/A/2P**	**35945**	1200	2700	82	12,000	49.3	127.4	B	10
18	100	GX24d-2	**F18TBX/SPX30/830/A/2P**	**35944**	1200	3000	82	12,000	49.3	127.4	B	10
18	100	GX24d-2	**F18TBX/SPX35/835/A/2P**	**35937**	1200	3500	82	12,000	49.3	127.4	B	10
18	100	GX24d-2	**F18TBX/SPX41/840/A/2P**	**35939**	1200	4000	82	12,000	49.3	127.4	B	10
26	105	GX24d-3	**F26TBX/SPX27/827/A/2P**	**35959**	1800	2700	82	12,000	49.3	139.9	B	10
26	105	GX24d-3	**F26TBX/SPX30/830/A/2P**	**35952**	1800	3000	82	12,000	49.3	139.9	B	10
26	105	GX24d-3	**F26TBX/SPX35/835/A/2P**	**35963**	1800	3500	82	12,000	49.3	139.9	B	10
26	105	GX24d-3	**F26TBX/SPX41/840/A/2P**	**35964**	1800	4000	82	12,000	49.3	139.9	B	10
26	105	GX24d-3	**F26TBX/SPX65/865/A/2P**	**35965**	1800	6500	82	12,000	49.3	139.9	B	10

Biax™ T/E LongLast™ 4-pin with Amalgam, External Starter Required

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
13	91	GX24q-1	**F13TBX/SPX27/827/A/4P**	**34391**	900	2700	82	12,000	49.3	112.9	A	10
13	91	GX24q-1	**F13TBX/SPX30/830/A/4P**	**34395**	900	3000	82	12,000	49.3	112.9	A	10
13	91	GX24q-1	**F13TBX/SPX35/835/A/4P**	**34400**	900	3500	82	12,000	49.3	112.9	A	10
13	91	GX24q-1	**F13TBX/SPX41/840/A/4P**	**34387**	900	4000	82	12,000	49.3	112.9	A	10
18	100	GX24q-2	**F18TBX/SPX27/827/A/4P**	**34392**	1200	2700	82	12,000	49.3	127.4	B	10
18	100	GX24q-2	**F18TBX/SPX30/830/A/4P**	**34396**	1200	3000	82	12,000	49.3	127.4	B	10
18	100	GX24q-2	**F18TBX/SPX35/835/A/4P**	**34405**	1200	3500	82	12,000	49.3	127.4	B	10
18	100	GX24q-2	**F18TBX/SPX41/840/A/4P**	**34385**	1200	4000	82	12,000	49.3	127.4	B	10
26	105	GX24q-3	**F26TBX/SPX27/827/A/4P**	**34393**	1800	2700	82	12,000	49.3	139.9	B	10
26	105	GX24q-3	**F26TBX/SPX30/830/A/4P**	**34397**	1800	3000	82	12,000	49.3	139.9	B	10
26	105	GX24q-3	**F26TBX/SPX35/835/A/4P**	**34406**	1800	3500	82	12,000	49.3	139.9	B	10
26	105	GX24q-3	**F26TBX/SPX41/840/A/4P**	**34381**	1800	4000	82	12,000	49.3	139.9	B	10

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Biax™ T/E LongLast™ 4-pin with Amalgam, External Starter Required												
32	100	GX24q-3	**F32TBX/SPX27/827/AP4P**	**39377**	2400	2700	82	17,000	49.3	141.2	B	10
32	100	GX24q-3	**F32TBX/SPX30/830/AP4P**	**39378**	2400	3000	82	17,000	49.3	141.2	B	10
32	100	GX24q-3	**F32TBX/SPX35/835/A/4P**	**39379**	2400	3500	82	17,000	49.3	141.2	B	10
32	100	GX24q-3	**F32TBX/SPX41/840/A/4P**	**39380**	2400	4000	82	17,000	49.3	141.2	B	10
42	135	GX24q-4	**F42TBX/827/A/4P**	**46312**	3200	2700	82	17,000	49.3	163.2	B	10
42	135	GX24q-4	**F42TBX/830/A/4P**	**46313**	3200	3000	82	17,000	49.3	163.2	B	10
42	135	GX24q-4	**F42TBX/835/A/4P**	**46314**	3200	3500	82	17,000	49.3	163.2	B	10
42	135	GX24q-4	**F42TBX/841/A/4P**	**46315**	3200	3000	82	17,000	49.3	163.2	B	10
Biax™ Q/E LongLast™ 4-pin												
57	175	GX24q-5	**F57QBX/827/A/4P/LL**	**45213**	4300	2700	82	20,000	58.3	180.7	B	10
57	175	GX24q-5	**F57QBX/830/A/4P/LL**	**45204**	4300	3000	82	20,000	58.3	180.7	B	10
57	175	GX24q-5	**F57QBX/835/A/4P/LL**	**45202**	4300	3500	82	20,000	58.3	180.7	B	10
57	175	GX24q-5	**F57QBX/840/A/4P/LL**	**45201**	4300	4000	82	20,000	58.3	180.7	B	10
70	219	GX24q-6	**F70QBX/830/A/4P/LL**	**45208**	5200	3000	82	20,000	58.3	208.2	B	10
70	219	GX24q-6	**F70QBX/835/A/4P/LL**	**45219**	5200	3500	82	20,000	58.3	208.2	B	10
70	219	GX24q-6	**F70QBX/840/A/4P/LL**	**45218**	5200	4000	82	20,000	58.3	208.2	B	10
Biax™ L LongLast™ 4-pin, External Starter Required												
18	58	2G11	**F18BX/827**	**41087**	1250	2700	82	10,000	43.8	231.3	B	25
18	58	2G11	**F18BX/830**	**41088**	1250	3000	82	10,000	43.8	231.3	B	25
18	58	2G11	**F18BX/835**	**41089**	1250	3500	82	10,000	43.8	231.3	B	25
18	58	2G11	**F18BX/840**	**41090**	1250	4000	82	10,000	43.8	231.3	B	25
24	87	2G11	**F24BX/827**	**41128**	1800	2700	82	10,000	43.8	326.8	B	25
24	87	2G11	**F24BX/830**	**41134**	1800	3000	82	10,000	43.8	326.8	B	25
24	87	2G11	**F24BX/835**	**41145**	1800	3500	82	10,000	43.8	326.8	B	25
24	87	2G11	**F24BX/840**	**41155**	1800	4000	82	10,000	43.8	326.8	B	25
34	120	2G11	**F34BX/830**	**41163**	2800	3000	82	10,000	43.8	538.8	A	25
34	120	2G11	**F34BX/835**	**41166**	2800	3500	82	10,000	43.8	538.8	A	25
34	120	2G11	**F34BX/840**	**41167**	2800	4000	82	10,000	43.8	538.8	A	25
36	106	2G11	**F36BX/827**	**41307**	2900	2700	82	10,000	43.8	421.8	A	25
36	106	2G11	**F36BX/830**	**41168**	2900	3000	82	10,000	43.8	421.8	A	25
36	106	2G11	**F36BX/835**	**41169**	2900	3500	82	10,000	43.8	421.8	A	25
36	106	2G11	**F36BX/840**	**41170**	2900	4000	82	10,000	43.8	421.8	A	25
36	106	2G11	**F36BX/865**	**75694**	2750	6500	82	10000	43.8	421.8	B	25
40	126	2G11	**F40BX/830**	**41171**	3500	3000	82	20,000	43.8	538.8	A	25
40	126	2G11	**F40BX/835**	**41172**	3500	3500	82	20,000	43.8	538.8	A	25
40	126	2G11	**F40BX/840**	**41173**	3500	4000	82	20,000	43.8	538.8	A	25
55	101	2G11	**F55BX/830**	**41174**	4800	3000	82	20,000	43.8	538.8	A	25
55	101	2G11	**F55BX/835**	**41260**	4800	3500	82	20,000	43.8	538.8	A	25
55	101	2G11	**F55BX/840**	**41298**	4800	4000	82	20,000	43.8	538.8	A	25
55	101	2G11	**F55BX/865**	**75695**	4550	6500	82	20000	43.8	538.8	B	25

Compact Fluorescent Lamps Non-Integrated

2D™ Watt-Miser™

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
16	103	GR8	**F162D/827**	**41744**	1100	2700	82	12,000	138	142	A	20
16	103	GR8	**F162D/835**	**41745**	1100	3500	82	12,000	138	142	A	20
16	103	GR10q	**F162D/827/4P**	**41746**	1100	2700	82	12,000	138	142	A	20
16	103	GR10q	**F162D/830/4P**	**75066**	1100	3000	82	12,000	138	142	A	20
16	103	GR10q	**F162D/835/4P**	**41747**	1100	3500	82	12,000	138	142	A	20
16	103	GR8	**F162D/860**	**41749**	1050	6000	82	12,000	138	142	B	20
21	103	GR10q	**F212D/827/4P**	**41794**	1375	2700	82	12,000	138	142	B	20
21	103	GR10q	**F212D/835/4P**	**41806**	1375	3500	82	12,000	138	142	B	20
21	103	GR10q	**F212D/860/4P**	**41808**	1375	6000	82	12,000	138	142	B	20
28	108	GR8	**F282DT5/827/2P**	**10546**	2150	2700	82	15,000	202	204	A	20
28	108	GR10q	**F282DT5/827/4P**	**10547**	2150	2700	82	15,000	202	204	A	20
28	108	GR10q	**F282DT5/830/4P**	**75068**	2150	3000	82	18,000	202	204	A	20
28	108	GR10q	**F282DT5/835/4P**	**10567**	2150	3500	82	15,000	202	204	A	20
28	108	GR10q	**F282DT5/840/4P**	**10548**	2150	4000	82	15,000	202	204	A	20
38	110	GR10q	**F382DT5/827/4P**	**10550**	3000	2700	82	18,000	202	204	A	20
38	110	GR10q	**F382DT5/830/4P**	**75067**	3000	3000	82	18,000	202	204	A	20
38	110	GR10q	**F382DT5/835/4P**	**10566**	3000	3500	82	18,000	202	204	A	20

Biax™ 2D™

10	60	GR10q	**F10W/2D/827/4P**	**88105**	680	2700	82	8,000	92	95	A	20
10	60	GR10q	**F10W/2D/835/4P**	**88106**	680	3500	82	8,000	92	95	A	20

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

18	220-240	GRZ10d	**FLE18W2D/827 GRZ10D**	**18122**	1200	2700	80	10,000	138	142	A	10
18	220-240	GRZ10d	**FLE18W2D/835 GRZ10D**	**18123**	1200	3500	80	10,000	138	142	A	10
18	220-240	GRZ10d	**FLE18W2D/840 GRZ10D**	**18120**	1200	4000	80	10,000	138	142	A	10
30	220-240	GRZ10t	**FLE30W2D/827 GRZ10T**	**78237**	2150	2700	82	10000	202	206	A	10
30	220-240	GRZ10t	**FLE30W2D/835 GRZ10T**	**78238**	2150	3500	82	10000	202	206	A	10
30	220-240	GRZ10t	**FLE30W2D/840 GRZ10T**	**78239**	2150	4000	82	10000	202	206	A	10

Biax™ Q/E Electronic Ballast

Wattage [W]	Volts [V]	Product Description	Product Code	Diameter [mm]	Length [mm]	Pack Qty
57-70	220-240	**BLS/E/1X57-70W/QBX 220-240V**	**13248**	79	123	12

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
	Biax™S 2pin	**Colour temperature**	**Dulux S**	**Master PL-S 2**	**Lynx-S**
5W	**F5BX/827**	2700	DULUX S 5W/827	PL-S 5W/827/2P	Lynx S 5W/827
	F5BX/840	4000	DULUX S 5W/840	PL-S 5W/840/2P	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	PL-S 7W/830/2P	Lynx S 7W/830
	F7BX/835	3500	-	-	Lynx 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	-	Lynx S 7W/860
9W	**F9BX/827**	2700	DULUX S 9W/827	PL-S 9W/827/2P	Lynx S 9W/827
	F9BX/835	3500	-	-	Lynx S 9W/835
	F9BX/840	4000	DULUX S 9W/840	PL-S 9W/840/2P	Lynx S 9W/840
11W	**F11BX/827**	2700	DULUX S 11W/827	PL-S 11W/827/2P	Lynx S 11W/827
	F11BX/830	3000	DULUX S 11W/830	PL-S 11W/830/2P	Lynx S 11W/830
	F11BX/835	3500	-	-	Lynx S 11W/835
	F11BX/840	4000	DULUX S 11W/840	PL-S 11W/840/2P	Lynx S 11W/840
	F11BX/865	6500	DULUX S 11W/865	-	Lynx S 11W/860
	Biax™S/E 4pin		**Dulux-SE**	**Master PL-S 4**	**Lynx - SE**
5W	**F5BX/827/4P**	2700	DULUX S/E 5W827	PL-S 5W/827/4P	Lynx SE 5W/827
	F5BX/840/4P	4000	DULUX S/E 5W/840	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/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/840/4P	4000	DULUX S/E 11W/840	PL-S 11W/840/4P	Lynx SE 11W/840
	Biax™D 2pin		**Dulux-D**	**Master PL-C**	**Lynx-D**
10W	**F10DBX/827**	2700	DULUX D 10W/827	PL-C 10W/827/2P	Lynx D 10W/827
	F10DBX/830	3000	DULUX D 10W/830	PL-C 10W/830/2P	Lynx D 10W/830
	F10DBX/835	3500	-	-	Lynx D 10W/835
	F10DBX/840	4000	DULUX D 10W/840	PL-C 10W/840/2P	Lynx D 10W/840
	F10DBX/865	6500	-	-	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/835	3500	-	-	Lynx D 13W/835
	F13DBX/840	4000	DULUX D 13W/840	PL-C 13W/840/2P	Lynx D 13W/840
	F13DBX/865	6500	-	-	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	-	-	Lynx D 18W/835
	F18DBX/840	4000	DULUX D 18W/840	PL-C 18W/840/2P	Lynx D 18W/840
	F18DBX/865	6500	-	-	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	-	-	Lynx D 26W/835
	F26DBX/840	4000	DULUX D 26W/21840	PL-C 26W/840/2P	Lynx D 26W/840
	F26DBX/865	6500	-	-	Lynx D 26W/860
	Biax™D/E 4pin		**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/835/4P/EOL	3500	-	-	Lynx DE 10W/835
	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/835/4P/EOL	3500	-	-	Lynx DE 13W/835

Compact Fluorescent Lamps Non-Integrated

	GE		OSRAM	PHILIPS	Havells Sylvania
	Biax™D/E 4pin	**Colour temperature**	**Dulux-DE**	**Master PL-C**	**Lynx-DE**
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	-	-	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	-	-	Lynx DE 26W/835
	F26DBX/840/4P/EOL	4000	DULUX D/E 26W/840	PL-C 26W/840/4P	Lynx DE 26W/840
	Biax™T 2pin		**Dulux T**	**Master PL-T**	**Lynx-T**
13W	**F13TBX/827/A/2P**	2700	DULUX T 13W/827	PL-T 13W/827/2P	-
	F13TBX/830/A/2P	3000	DULUX T 13W/830	PL-T 13W/830/2P	-
	F13TBX/835/A/2P	3500	-	-	-
	F13TBX/840/A/2P	4000	DULUX T 13W/840	PL-T 13W/840/2P	-
	F13TBX/865/A/2P	6500	-	-	-
18W	**F18TBX/827/A/2P**	2700	DULUX T 18W/827	PL-T 18W/827/2P	Lynx T 18W/827
	F18TBX/830/A/2P	3000	DULUX T 18W/830	PL-T 18W/830/2P	-
	F18TBX/835/A/2P	3500	-	-	Lynx T 18W/835
	F18TBX/84O/A/2P	4000	DULUX T 18W/840	PL-T 18W/840/2P	Lynx T 18W/840
	F18TBX/865/A/2P	6500	-	-	-
26W	**F26TBX/827/A/2P**	2700	DULUX T 26W/827	PL-T 26W/827/2P	Lynx T 26W/827
	F26TBX/830/A/2P	3000	DULUX T 26W/830	PL-T 26W/830/2P	-
	F26TBX/835/A/2P	3500	-	-	Lynx T 26W/835
	F26TBX/840/A/2P	4000	DULUX T 26W/840	PL-T 26W/840/2P	Lynx T 26W/840
	F26TBX/865/A/2P	6500	-	-	-
	Biax™T/E 4pin		**Dulux T/E**	**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	Lynx TE 18W/827
	F18TBX/830/A/4P/EOL	3000	DULUX T/E 18W/830	PL-T 18W/830/4P	-
	F18TBX/835/A/4P/EOL	3500	-	-	Lynx TE 18W/835
	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	Lynx TE 26W/827
	F26TBX/830/A/4P/EOL	3000	DULUX T/E 26W/830	PL-T 26W/830/4P	-
	F26TBX/835/A/4P/EOL	3500	-	-	Lynx TE 26W/835
	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	Lynx TE 32W/827
	F32TBX/830/A/4P/EOL	3000	DULUX T/E 32W/830	PL-T 32W/830/4P	-
	F32TBX/835/A/4P/EOL	3500	-	-	Lynx TE 32W/835
	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 32W/827	PL-T 32W/827/4P	Lynx TE 32W/827
	F42TBX/830/A/4P/EOL	3000	DULUX T/E 32W/830	PL-T 32W/830/4P	-
	F42TBX/841/A/4P/EOL	3500	-	-	Lynx TE 32W/835
	F42TBX/835/A/4P/EOL	4000	DULUX T/E 32W/840	PL-T 32W/840/4P	Lynx TE 32W/840
	Biax™Q/E 4pin		**Dulux T/E**	**PL-T**	**Lynx- TE**
57W	**F57QBX/827/A/4P/EOL**	2700	-	PL-T 57W/827/4P	-
	F57QBX/830/A/4P/EOL	3000	DULUX T/E 57W/830	PL-T 57W/830/4P	-
	F57QBX/835/A/4P/EOL	3500	-	-	-
	F57QBX/840/A/4P/EOL	4000	DULUX T/E 57W/840	PL-T 57W/840/4P	-
70W	**F70QBX/827/A/4P/EOL**	2700	-	-	-
	F70QBX/830/A/4P/EOL	3000	-	-	-
	F70QBX/835/A/4P/EOL	3500	-	-	-
	F70QBX/840/A/4P/EOL	4000	DULUX T/E 70W/840	-	-

Brand cross reference

	GE		OSRAM	PHILIPS	Havells Sylvania
	Biax™L 4pin	**Colour temperature**	**Dulux-L**	**PL-L**	**Lynx L & Lynx-LE**
18W	**F18BX/827**	2700	DULUX L 18W/827	PL-L 18W/827/4P	Lynx L 18W/827
	F18BX/830	3000	DULUX L 18W/830	PL-L 18W/830/4P	Lynx L 18W/830
	F18BX/835	3500	-	-	Lynx L 18W/835
	F18BX/840	4000	DULUX L 18W/840	PL-L 18W/840/4P	Lynx L 18W/840
24W	**F24BX/827**	2700	DULUX L 24W/827	PL-L 24W/827/4P	Lynx L 24W/827
	F24BX/830	3000	DULUX L 24W/830	PL-L 24W/830/4P	Lynx L 24W/830
	F24BX/835	3500	-	-	Lynx L 24W/835
	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	-	Lynx L 36W/830
	F36BX/835	3500	-	-	Lynx L 36W/835
	F36BX/840	4000	DULUX L 36W/840	-	Lynx L 36W/840
40W	**F40BX/830**	3000	DULUX L 40W/830	-	Lynx LE 40W/830
	F40BX/835	3500	-	-	Lynx LE 40W/835
	F40BX/840	4000	DULUX L 40W/840	-	Lynx LE 40W/840
55W	**F55BX/830**	3000	DULUX L 55W/830	-	Lynx LE 55W/830
	F55BX/835	3500	-	-	Lynx LE 55W/835
	F55BX/840	4000	DULUX L 55W/840	PL-L 55W/840/4P	Lynx LE 55W/840
	Biax™ 2D 2pin			**PL-Q 2pin**	
16W	**F162D/827 GE 20PK WM**	2700	CFL Square 16W/827	PLQ 16W/827/2P	-
	F162D/835 GE 20PK	3500	CFL Square 16W/835	PLQ 16W/835/2P	-
	F162D/860 GE 20PK	6000	-	-	-
28W	**F282DT5/827/2P BL 1/20 WM**	2700	CFL Square 16W/827	-	-
	Biax™ 2D 4pin			**PL-Q 4pin**	
10W	**OT F10W/2D/827/4P GE BL 1/20**	2700	-	-	-
	OT F10W/2D/835/4P GE BL 1/20	3500	-	-	-
16W	**F162D/827/4P GE 20PK**	2700	CFL Square 16W/827	PLQ 16W/827/4P	-
	F162D/830/4P BL1/20 WM	3000	-	PLQ 16W/830/4P	-
	F162D/835/4P GE 20PK	3500	CFL Square 16W/835	PLQ 16W/835/4P	-
21W	**F212D/827/4P GE 20PK**	2700	-	-	-
	F212D/835/4P GE 20PK	3500	-	-	-
	F212D/860/4P GE 20PK	6000	-	-	-
28W	**F282DT5/827/4P BL 1/20 WM**	2700	CFL Square 28W/827	PLQ 28W/827/4P	-
	F282D/830/4P BL1/20 WM	3000	-	PLQ 28W/830/4P	-
	F282DT5/835/4P BL 1/20 WM	3500	CFL Square 28W/835	PLQ 28W/835/4P	-
	F282DT5/840/4P BL 1/20 WM	4000	-	PLQ 28W/840/4P	-
38W	**F382DT5/827/4P BL 1/20 WM**	2700	CFL Square 38W/827	PLQ 38W/827/4P	-
	F382D/830/4P BL1/20 WM	3000	-	PLQ 38W/830/4P	-
	F382DT5/835/4P BL 1/20 WM	3500	CFL Square 38W/835	PLQ 38W/835/4P	-
55W	**F55 2D/827/A 4P BL20 MIH**	2700	-	-	-
	F55 2D/835/A 4P BL20 MIH	3500	-	-	-
	Biax™ 2D Integral				
18W	**FLE18W2D/827 GRZ10D 1/10**	2700	-	-	-
	FLE18W2D/830 GRZ10D 1/10	3000	-	-	-
	FLE18W2D/835 GRZ10D 1/10	3500	-	-	-
	FLE18W2D/840 GRZ10D 1/10	4000	-	-	-
30W	**FLE30W2D/827 GRZ10T 1/10**	2700	-	-	-
	FLE30W2D/835 GRZ10T 1/10	3500	-	-	-
	FLE30W2D/840 GRZ10T 1/10	4000	-	-	-

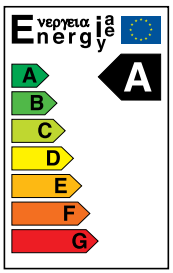
GE's new compact fluorescent lamps give you the energy saving benefits you want and the high quality lighting you expect. These lamps are the perfect alternatives to incandescent lamps.

Save money on energy bills and lose nothing in quality. The benefits of GE's compact fluorescent range are:

- 80% energy efficient vs incandescent from our 'A' energy labeled products
- Available in small incandescent sizes and look-a-like shapes – they fit almost everywhere!
- Guaranteed outstanding light quality throughout the lamps' life, available in various colour temperatures
- Provide quick and flicker-free start, fast warm-up
- Last long years in service from 6,000 up to 15,000 hours
- Available in a wide range of shapes – from stick, spiral to decorative form
- Meeting specific requirements with special lamps that offer dimmability, dusk to dawn operation and high switching endurance.
- Environmentally friendly solutions – WEEE, RoHS and EUP compliant products with minimized mercury content.

Get Your shape back!

GE's brand new top performance Energy Smart™ compact fluorescent lamp is now your true look-a-like replacement of a frosted incandescent bulb – providing excellent light quality and energy savings for up to 10 years.



Advanced lighting technologies

	Stick	Spiral	Decor
HIGH PERFORMANCE		 **LongLast Spiral T2 15,000 hours** 12/15/20/23W: standard/fast/20,000 8W: standard/fast/15,000 **Dimmable Spiral T3 10,000 hours** quick/fast/10,000 **Spiral T4 HPF 10,000 hours** instant/fast/5,000	 **Energy Smart™ T2 10,000 hours –** 9/11W: instant/fast/5,000 15/20W: instant/slow/5,000 **Genura 15,000 hours** instant/fast/100,000
PREMIUM	 **Stick T3 Mini 10,000 hours** instant/fast/5,000 **Stick T4 Senzor 6,000 hours** quick/fast/10,000	 **Spiral T2 8,000 hours** 8/12/15W: quick/fast/10,000 20/23W: instant/fast/5,000	 **Décor Candle/Spherical/Reflector/ GU10 T2 6,000 hours** instant/standard/5,000 **Décor GLS T2/T3 6,000 hours** 8/12W: instant/standard/5,000 5/20W: quick/standard/10,000
STANDARD	 **Stick T3 Mini Eco 6,000 hours** standard/fast/10,000	 **Spiral T3 8,000 hours** quick/fast/10,000	 **Globe T3 6,000 hours** quick/slow/10,000 **Circlite T5 6,000 hours** instant/fast/5,000

LongLast Spiral T2 15,000 hrs
standard/fast/20,000

Starting categories			Run up categories 60% lm			Switching cycle
1-1.5sec	1-0.3sec	0.3sec	< 30sec	30-60sec	60-120sec	1 min on 3min off
standard	**quick**	**instant**	**fast**	**standard**	**slow**	(official EU standard)

Compact Fluorescent Lamps Integrated

LongLast Spiral T2 15,000 hours

Small size premium quality lamp providing fast light and long life.

Key features

- **Full range from 8-23W**
- **Fast warm-up**
- **15,000 hours life**
- **20,000 switching endurance**
- **Ecolabel certified quality**

T3 Dimmable

These premium compact fluorescent lamps are dimmable: this means that lighting can be adjusted to suit mood and also extra energy savings can be made.

Key features

- **20W T3**
- **Fast warm-up**
- **10,000 hours life**
- **Reduced mercury content <2mg**
- **15-100% continuous dimming**

Incandescent Upgrade

Incandescent Product Group	Compact Fluorescent Standard Substitute	Compact Fluorescent Premium Substitute	Compact Fluorescent High Performance Substitute
GLS	Stick T3 Mini Eco 6,000 hours	Stick T3 Mini 10,000 hours LongLast Spiral T2 8,000 hours GLS T2 6,000 hours	LongLast Spiral T2 15,000 hours Dimmable Spiral T3 10,000 hours Energy Smart™ T2 10,000 hours
Krypton Mushroom	Stick T3 Mini Eco 6,000 hours	Stick T3 Mini 10,000 hours Spiral T2 8,000 hours GLS T2 6,000 hours	LongLast Spiral T2 15,000 hours Dimmable Spiral T3 10,000 hours Energy Smart™ T2 10,000 hours
Candle		Candle T2 6,000 hours	
Spherical		Spiral T2 8,000 hours Spherical T2 6,000 hours	LongLast Spiral T2 15,000 hours Energy Smart™ T2 10,000 hours
Globe	Stick T3 Mini Eco 6,000 hours	Stick T3 Mini 10,000 hours	Stick T3 Extra Mini 15,000 hours* Spiral T2 15,000 hours Dimmable Spiral T3 10,000 hours Energy Smart™ T2 10,000 hours

Energy Smart™

At last, the NEW energy saving lamp that everyone's been waiting for

Miniaturized electronics developed by GE engineers are the enabling technology of a new covered Energy Smart™ compact fluorescent lamp featuring the "T2 GE Spiral" inside the glass bulb. With this new lamp – an exclusive design achievement that GE has protected with more than 16 patents – the electronics fit in the neck of the frosted-glass bulb. The result is a profile that's virtually identical to a standard incandescent light bulb – same size and shape.

The new premium Energy Smart™ compact fluorescent bulb is available only from GE, has instant-on technology, consists of eco-friendly components and provides excellent light quality combined with massive energy savings for up to 10 years.

With a T2 tube inside

Key features

- **Traditional soft light bulb**
- **The first glass frosted compact fluorescent lamp, compliant with European Legislation**
- **9, 11, 15 and 20W versions**
- **80% energy saving**
- **10,000 hours lifetime**
- **Unique GE innovation using 16 patents**
- **Minimized mercury content, <0.8 mg**

a product of
ecomagination℠

Compact Fluorescent Lamps Integrated

Stick

T3 Mini

Cap: E27, E14, B22
Wattages: 9-23W
Colours: 827, 840, 865
Life: 10,000Hrs
Page: 91

T3 Mini Eco

Cap: E27, E14, B22
Wattages: 9-23W
Colours: 827
Life: 6,000Hrs
Page: 91

T4 Senzor

Cap: E27, B22
Wattages: 15W
Colours: 827
Life: 6,000Hrs
Page: 91

Spiral

T2

Cap: E27, E14, B22
Wattages: 8-23W
Colours: 827, 840, 865
Life: 8,000Hrs, 15,000Hrs
Page: 92

T3

Cap: E27, E14, B22
Wattages: 11-20W
Colours: 827, 840, 865
Life: 8,000Hrs
Page: 93

T3 Dimmable

Cap: E27, B22
Wattages: 20W
Colours: 827
Life: 10,000Hrs
Page: 92

T4 High Power Factor (HPF)

Cap: E27
Wattages: 32W
Colours: 827
Life: 10,000Hrs
Page: 93

*Range will be replaced by LongLast Spiral T2 15,000 hours in Q2 2010

Décor

Energy Smart™ T2

Cap: E27, B22
Wattages: 9-20W
Colours: 827, 865
Life: 10,000Hrs
Page: 93

GLS T2/T3

Cap: E27, E14, B22
Wattages: 8-20W
Colours: 827, 840
Life: 6,000Hrs
Page: 93

Spherical T2

Cap: E27, E14, B22
Wattages: 5-7W
Colours: 827, 840
Life: 6,000Hrs
Page: 93

Candle T2/T3

Cap: E27, E14, B22
Wattages: 5-11W
Colours: 827, 840
Life: 6,000Hrs
Page: 94

Twisted Candle T2

Cap: E27, E14, B22
Wattages: 7-9W
Colours: 827
Finish: opal and amber
Life: 6,000Hrs
Page: 94

Bent Tip Candle T3

Cap: E14
Wattages: 7W
Colours: 827
Life: 6,000Hrs
Page: 94

Reflector T2

Cap: E27, E14
Wattages: 7-11W
Colours: 827, 840
Life: 6,000Hrs
Page: 95

Reflector Genura

Cap: E27
Wattages: 23W
Colours: 830
Life: 15,000Hrs
Page: 95

GU10 T2

Cap: GU10
Wattages: 7-9W
Colours: 827
Life: 6,000Hrs
Page: 95

Globe T3

Cap: E27, B22
Wattages: 15-23W
Colours: 827, 840
Life: 8,000Hrs
Page: 94

Circlite T5

Cap: E27
Wattages: 22W
Colours: 827, 865
Life: 6,000Hrs
Page: 95

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

Volts: Lamp data is based on operation at rated voltage

Cap: The type of cap fitted. See page 134-135 for cap drawings

Product description: The lamp's identification code

Lumens: Light output after the initial 100 hours of operation

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

Diameter: Bulb diameter in mm

EEC: Energy Efficiency Class

Electronic Spiral T2 - 15,000 hours

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
8	220-240	E14	**FLE8HLX/T2/827/E14**	**76153**	460	2700	80	15,000	100.5	46	A	8
8	220-240	E27	**FLE8HLX/T2/827/E27**	**76154**	460	2700	80	15,000	88.5	46	A	8
12	220-240	E14	**FLE12HLX/T2/827/E14**	**76155**	700	2700	80	15,000	112.5	53	A	6

FLE 8 HLX / T2 / 827 / E14

FLE Identifies as Fluorescent Electronic (Screw-in lamp)

8 Identifies the lamp's wattage

HLX Identifies as the lamp type
TBX = Triple-Biax Stick (3U)
QBX = Quad-Biax Stick (4U)
HLX = Heliax (Spiral)
CDL = Candle
SPH = Spherical
R50/R63/R80 = Reflector lamp types
AG = All Glass

T2/T3/T4/T5 refers to the size of the tube

827 Colour definition
827=Extra Warm White
830=Warm White
835=White
840=Cool White
865=Daylight

E14/E27/B15/B22 Identifies the lamp cap

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

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

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

Length: Lamp length in mm

Pack quantity: Number of product units packed in a case

Electronic Stick T3 Mini - 10,000 hours

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	Pack Qty
9	220-240	E14	FLE9TBX/T3/827/E14	88697	480	2700	82	10,000	117	45	A	8
9	220-240	E27	FLE9TBX/T3/827/E27	88695	480	2700	82	10,000	115	45	A	8
9	220-240	B22	FLE9TBX/T3/827/B22	88696	480	2700	82	10,000	114	46	A	8
9	220-240	E14	FLE9TBX/T3/840/E14	88700	455	4000	82	10,000	117	45	A	10
9	220-240	E27	FLE9TBX/T3/840/E27	88698	455	4000	82	10,000	115	45	A	10
9	220-240	B22	FLE9TBX/T3/840/B22	88699	455	4000	82	10,000	114	46	A	10
9	220-240	E14	FLE9TBX/T3/865/E14	88703	455	6500	82	10,000	117	45	A	10
9	220-240	E27	FLE9TBX/T3/865/E27	88701	455	6500	82	10,000	115	45	A	10
9	220-240	B22	FLE9TBX/T3/865/B22	88702	455	6500	82	10,000	114	46	A	10
11	220-240	E14	FLE11TBX/T3/827/E14	78690	660	2700	82	10,000	126	45	A	8
11	220-240	E27	FLE11TBX/T3/827/E27	72689	660	2700	82	10,000	124	45	A	8
11	220-240	B22	FLE11TBX/T3/827/B22	72690	660	2700	82	10,000	123	45	A	8
11	220-240	E14	FLE11TBX/T3/840/E14	88709	620	4000	82	10,000	126	45	A	10
11	220-240	E14	FLE11TBX/T3/865/E14	88712	620	6500	82	10,000	126	45	A	10
11	220-240	E27	FLE11TBX/T3/865/E27	75730	620	6500	82	10,000	124	45	A	8
11	220-240	B22	FLE11TBX/T3/865/B22	75731	620	6500	82	10,000	123	45	A	8
15	220-240	E27	FLE15TBX/T3/827/E27	72688	850	2700	82	10,000	139.5	46	A	8
15	220-240	B22	FLE15TBX/T3/827/B22	88713	850	2700	82	10,000	138.5	45	A	8
15	220-240	E27	FLE15TBX/T3/840/E27	88714	800	4000	82	10,000	139.5	46	A	10
15	220-240	B22	FLE15TBX/T3/840/B22	88715	800	4000	82	10,000	138.5	45	A	10
15	220-240	E27	FLE15TBX/T3/865/E27	88716	800	6500	82	10,000	139.5	46	A	10
15	220-240	B22	FLE15TBX/T3/865/B22	88717	800	6500	82	10,000	138.5	45	A	10
20	220-240	E27	FLE20TBX/T3/827/E27	88718	1200	1200	82	10,000	153	46	A	8
20	220-240	B22	FLE20TBX/T3/827/B22	88719	1200	1200	82	10,000	153	46	A	8
20	220-240	E27	FLE20TBX/T3/840/E27	88720	1152	4000	82	10,000	153	46	A	10
20	220-240	B22	FLE20TBX/T3/840/B22	88721	1152	4000	82	10,000	153	46	A	10
20	220-240	E27	FLE20TBX/T3/865/E27	88722	1152	6500	82	10,000	153	46	A	10
20	220-240	B22	FLE20TBX/T3/865/B22	88723	1152	6500	82	10,000	153	46	A	10
23	220-240	B22	FLE23QBX/T3/827/B22	75039	1450	2700	82	10,000	147	50	A	8
23	220-240	E27	FLE23QBX/T3/827/E27	75268	1450	2700	82	10,000	147	50	A	8
23	220-240	E27	FLE23QBX/T3/840/E27	97000	1450	4000	82	10,000	147	50	A	8
23	220-240	B22	FLE23QBX/T3/840/B22	97001	1450	4000	82	10,000	147	50	A	8
23	220-240	E27	FLE23QBX/T3/865/E27	97006	1380	6500	82	10,000	147	50	A	8
23	220-240	B22	FLE23QBX/T3/865/B22	97007	1380	6500	82	10,000	147	50	A	8

Electronic Stick T3 Mini Eco - 6,000 hours

9	220-240	E14	FLE9TBX/T3/827/E14	40828	450	2700	82	6,000	117	45	A	10
9	220-240	E27	FLE9TBX/T3/827/E27	82896	450	2700	82	6,000	115	45	A	10
11	220-240	E14	FLE11TBX/T3/827/E14	40831	610	2700	82	6,000	126	45	A	10
11	220-240	E27	FLE11TBX/T3/827/E27	40837	610	2700	82	6,000	124	45	A	10
15	220-240	E27	FLE15TBX/T3/827/E27	26447	850	2700	82	6,000	138	45	A	10
20	220-240	E27	FLE20TBX/T3/827/E27	82911	1180	2700	82	6,000	149	46	A	10

Electronic Stick T4 Senzor - 6,000 hours

9	220-240	E14	FLE9TBX/T3/827/E14	40828	450	2700	82	6,000	117	45	A	10
9	220-240	E27	FLE9TBX/T3/827/E27	82896	450	2700	82	6,000	115	45	A	10

Compact Fluorescent Lamps Integrated

Electronic LongLast™ Spiral T2 - 15,000 hours

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	Pack Qty
8	220-240	E14	FLE8HLX/T2/827/E14	76153	470	2700	80	15,000	100.5	46	A	8
8	220-240	E27	FLE8HLX/T2/827/E27	76154	470	2700	80	15,000	88.5	46	A	8
8	220-240	B22	FLE8HLX/T2/827/B22	78156	470	2700	80	15,000	88.5	46	A	8
8	220-240	E14	FLE8HLX/T2/840/E14	78157	460	4000	80	15,000	100.5	46	A	8
8	220-240	E27	FLE8HLX/T2/840/E27	78188	460	4000	80	15,000	88.5	46	A	8
8	220-240	E27	FLE8HLX/T2/865/E27	78189	430	6500	80	15,000	88.5	46	A	8
12	220-240	E14	FLE12HLX/T2/827/E14	76155	715	2700	80	15,000	112.5	53	A	6
12	220-240	E27	FLE12HLX/T2/827/E27	76157	715	2700	80	15,000	100	53	A	6
12	220-240	B22	FLE12HLX/T2/827/B22	78190	715	2700	80	15,000	100	53	A	6
12	220-240	E14	FLE12HLX/T2/840/E14	78191	700	4000	80	15,000	112.5	53	A	6
12	220-240	E27	FLE12HLX/T2/840/E27	78192	700	4000	80	15,000	100	53	A	6
12	220-240	E14	FLE12HLX/T2/865/E14	78193	665	6500	80	15,000	112.5	53	A	6
12	220-240	E27	FLE12HLX/T2/865/E27	78194	665	6500	80	15,000	100	53	A	6
15	220-240	E27	FLE15HLX/T2/827/E27	76156	950	2700	80	15,000	100	53	A	6
15	220-240	B22	FLE15HLX/T2/827/B22	78195	950	2700	80	15,000	100	53	A	6
15	220-240	E27	FLE15HLX/T2/840/E27	78196	950	4000	80	15,000	100	53	A	6
15	220-240	E27	FLE15HLX/T2/865/E27	78197	900	6500	80	15,000	100	53	A	6
20	220-240	E27	FLE20HLX/T2/827/E27	76158	1220	2700	80	15,000	108	57	A	6
20	220-240	B22	FLE20HLX/T2/827/B22	78198	1220	2700	80	15,000	108	57	A	6
20	220-240	E27	FLE20HLX/T2/840/E27	78199	1200	4000	80	15,000	108	57	A	6
20	220-240	E27	FLE20HLX/T2/865/E27	78200	1152	6500	80	15,000	108	57	A	6
20	220-240	B22	FLE20HLX/T2/865/B22	78201	1152	6500	80	15,000	108	57	A	6
23	220-240	E27	FLE23HLX/T2/827/E27	76159	1500	2700	80	15,000	127	58	A	6
23	220-240	E27	FLE23HLX/T2/840/E27	78202	1380	4000	80	15,000	127	58	A	6
23	220-240	E27	FLE23HLX/T2/865/E27	78203	1380	6500	80	15,000	127	58	A	6

Electronic Spiral T2 - 8,000 hours

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	Pack Qty
8	220-240	E14	FLE8HLX/T2/827/E14	72711	470	2700	80	8,000	101	46	A	8
8	220-240	E27	FLE8HLX/T2/827/E27	72712	470	2700	80	8,000	102	46	A	8
8	220-240	B22	FLE8HLX/T2/827/B22	72713	470	2700	80	8,000	87.5	46	A	8
8	220-240	E14	FLE8HLX/T2/865/E14	71002	430	6500	80	8,000	101	46	A	10
8	220-240	E27	FLE8HLX/T2/865/E27	71003	430	6500	80	8,000	88.5	46	A	10
12	220-240	E14	FLE12HLX/T2/827/E14	72714	715	2700	80	8,000	102.5	53	A	6
12	220-240	E27	FLE12HLX/T2/827/E27	72715	715	2700	80	8,000	100	53	A	6
12	220-240	B22	FLE12HLX/T2/827/B22	72716	715	2700	80	8,000	99	53	A	6
12	220-240	E14	FLE12HLX/T2/865/E14	71004	665	6500	80	8,000	102.5	53	A	10
12	220-240	E14	FLE12HLX/T2/865/E27	71005	665	6500	80	8,000	102.5	53	A	10
15	220-240	E27	FLE15HLX/T2/827/E27	72717	950	2700	80	8,000	102	54	A	6
15	220-240	B22	FLE15HLX/T2/827/B22	72718	950	2700	80	8,000	101	54	A	6
15	220-240	E27	FLE15HLX/T2/865/E27	71006	900	6500	80	8,000	102	54	A	10
20	220-240	E27	FLE20HLX/T2/827/E27	88680	1220	2700	80	8,000	118	60	A	6
20	220-240	B22	FLE20HLX/T2/827/B22	88681	1220	2700	80	8,000	118	60	A	6
20	220-240	E27	FLE20HLX/T2/840/E27	88684	1200	4000	80	8,000	118	60	A	10
20	220-240	E27	FLE20HLX/T2/865/E27	88685	1200	6500	80	8,000	118	60	A	10
23	220-240	E27	FLE23HLX/T2/827/E27	88686	1450	2700	80	8,000	140	60	A	6
23	220-240	B22	FLE23HLX/T2/827/B22	88687	1450	2700	80	8,000	140	60	A	6
23	220-240	E27	FLE23HLX/T2/840/E27	88690	1380	4000	80	8,000	140	60	A	10
23	220-240	E27	FLE23HLX/T2/865/E27	88691	1380	6500	80	8,000	140	60	A	10

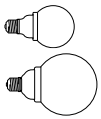
Electronic Spiral T3 Dimmable - 10,000 hours

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	Pack Qty
20	220-240	E27	FLE20HLX/T3/827/E27	97030	1220	2700	80	10,000	138	60	A	6
20	220-240	B22	FLE20HLX/T3/827/B22	97031	1220	2700	80	10,000	138	60	A	6

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	Pack Qty
Electronic Spiral T3 - 8,000 hours												
11	220-240	E27	**FLE11HLX/T3/827/E27**	**82926**	580	2700	82	8,000	120	48	A	10
11	220-240	E27	**FLE11HLX/T3/865/E27**	**43271**	580	6500	82	8,000	120	46	A	10
20	220-240	E27	**FLE20HLX/T3/827/E27**	**82941**	1200	2700	82	8,000	128	61	A	10
20	220-240	B22	**FLE20HLX/T3/827/B22**	**88123**	1200	2700	82	8,000	128	61	A	10
20	220-240	E27	**FLE20HLX/T3/865/E27**	**43270**	1152	6500	82	8,000	128	59	A	10
Electronic Spiral T4 High Power Factor (HPF) - 10,000 hours												
32	220-240	E27	**FLE32HLX/T4/827E27/HPF**	**76152**	2100	2700	80	10,000	172	66	A	6
Electronic Energy Smart™ T2 - 10,000 hours												
9	220-240	E27	**FLE9AG/T2/830/E27**	**77368**	450	3000	80	10,000	115	60	A	6
9	220-240	B22	**FLE9AG/T2/830/B22**	**78233**	450	3000	80	10,000	117	60	A	6
9	220-240	E27	**FLE9AG/T2/865/E27**	**78686**	450	6500	80	10,000	115	60	A	6
11	220-240	E27	**FLE11AG/T2/830/E27**	**77367**	590	3000	80	10,000	115	60	A	6
11	220-240	B22	**FLE11AG/T2/830/B22**	**78234**	590	3000	80	10,000	117	60	A	6
11	220-240	E27	**FLE11AG/T2/865/E27**	**78687**	532	6500	80	10,000	115	60	A	6
15	220-240	E27	**FLE15AG/T2/830/E27**	**77366**	800	3000	80	10,000	115	60	A	6
15	220-240	B22	**FLE15AG/T2/830/B22**	**78235**	800	3000	80	10,000	117	60	A	6
15	220-240	E27	**FLE15AG/T2/865/E27**	**78688**	800	6500	80	10,000	115	60	A	6
20	220-240	E27	**FLE20AG/T3/830/E27**	**77365**	1152	3000	80	8,000	137	67	A	6
20	220-240	B22	**FLE20AG/T3/830/B22**	**78236**	1152	3000	80	8,000	139	67	A	6
20	220-240	E27	**FLE20AG/T3/865/E27**	**78689**	1152	6500	80	8,000	137	67	A	6
Electronic GLS T2 - 6,000 hours												
8	220-240	E14	**FLE8GLS/T2/827/E14**	**88178**	370	2700	80	6,000	103.5	52.5	A	8
8	220-240	E27	**FLE8GLS/T2/827/E27**	**88180**	370	2700	80	6,000	103.5	52.5	A	8
8	220-240	B22	**FLE8GLS/T2/827/B22**	**88179**	370	2700	80	6,000	103.5	52.5	A	8
8	220-240	E14	**FLE8GLS/T2/840/E14**	**88151**	370	4000	80	6,000	103.5	52.5	A	10
8	220-240	E27	**FLE8GLS/T2/840/E27**	**88152**	370	4000	80	6,000	103.5	52.5	A	10
12	220-240	E14	**FLE12GLS/T2/827/E14**	**88177**	625	2700	80	6,000	116	57	A	6
12	220-240	E27	**FLE12GLS/T2/827/E27**	**88209**	625	2700	80	6,000	116	57	A	6
12	220-240	B22	**FLE12GLS/T2/827/B22**	**88208**	625	2700	80	6,000	111	57	A	6
12	220-240	E14	**FLE12GLS/T2/840/E14**	**88149**	600	4000	80	6,000	115.5	57	A	10
12	220-240	E27	**FLE12GLS/T2/840/E27**	**88150**	600	4000	80	6,000	116	57	A	10
15	220-240	E27	**FLE15GLS/T3/827/E27**	**88176**	830	2700	80	6,000	123	62	A	6
15	220-240	B22	**FLE15GLS/T3/827/B22**	**88175**	830	2700	80	6,000	123	62	A	6
15	220-240	E27	**FLE15GLS/T3/840/E27**	**88148**	825	4000	80	6,000	123	62	A	10
20	220-240	E27	**FLE20GLS/T3/827/E27**	**82151**	1160	2700	80	6,000	152	77	A	6
Electronic Spherical T2 - 6,000 hours												
5	220-240	E14	**FLE5SPH/T2/827/E14**	**88839**	200	2700	80	6,000	100	46	A	8
5	220-240	E27	**FLE5SPH/T2/827/E27**	**78691**	200	2700	80	6,000	103	46	A	8
5	220-240	B22	**FLE5SPH/T2/827/B22**	**88841**	200	2700	80	6,000	88	46	A	8
5	220-240	E14	**FLE5SPH/T2/840/E14**	**73387**	200	4000	80	6,000	103	46	A	10
5	220-240	E27	**FLE5SPH/T2/840/E27**	**73389**	200	4000	80	6,000	103	46	A	10
7	220-240	E14	**FLE7SPH/T2/827/E14**	**88842**	310	2700	80	6,000	100	46	A	8
7	220-240	B22	**FLE7SPH/T2/827/B22**	**88844**	310	2700	80	6,000	88	46	A	8
7	220-240	E27	**FLE7SPH/T2/827/E27**	**75313**	310	2700	80	6,000	103	46	A	8
7	220-240	E14	**FLE7SPH/T2/840/E14**	**73402**	310	4000	80	6,000	103	46	A	10
7	220-240	E27	**FLE7SPH/T2/840/E27**	**73398**	310	4000	80	6,000	103	46	A	10

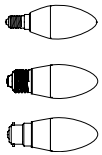
Compact Fluorescent Lamps Integrated

Electronic Globe T3 - 8,000 hours



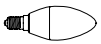
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	EEC	Pack Qty
15	220-240	E27	FLE15GG/827/E27	96776	805	2700	80	8,000	158	96	A	6
15	220-240	B22	FLE15GG/827/B22	96779	805	2700	80	8,000	157	96	A	6
15	220-240	E27	FLE15GG/840/E27	96778	805	4000	80	8,000	158	96	A	6
20	220-240	E27	FLE20GG/827/E27	96780	1152	2700	80	8,000	173	106	A	6
20	220-240	B22	FLE20GG/827/B22	75675	1152	2700	80	8,000	173	106	A	6
20	220-240	E27	FLE20GG/840/E27	96794	1152	4000	80	8,000	173	106	A	6
23	220-240	E27	FLE23GG/827/E27	96793	1371	2700	80	8,000	178	111	A	6
23	220-240	B22	FLE23GG/827/B22	96791	1371	2700	80	8,000	178	111	A	6
23	220-240	E27	FLE23GG/840/E27	96790	1371	4000	80	8,000	178	111	A	6

Electronic Candle T2 - 6,000 hours



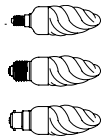
5	220-240	E14	FLE5CDL/T2/827/E14	75676	200	2700	80	6,000	109	38	A	8
5	220-240	E27	FLE5CDL/T2/827/E27	78698	200	2700	80	6,000	109	38	A	8
5	220-240	B22	FLE5CDL/T2/827/B22	88853	200	2700	80	6,000	103	38	A	10
5	220-240	E14	FLE5CDL/T2/840/E14	73408	200	4000	80	6,000	109	38	A	10
5	220-240	E27	FLE5CDL/T2/840/E27	73410	200	4000	80	6,000	109	38	A	10
7	220-240	E14	FLE7CDL/T2/827/E14	75677	300	2700	80	6,000	109	38	A	8
7	220-240	E27	FLE7CDL/T2/827/E27	75311	300	2700	80	6,000	106	38	A	8
7	220-240	B22	FLE7CDL/T2/827/B22	88856	300	2700	80	6,000	103	38	A	10
7	220-240	E14	FLE7CDL/T2/840/E14	73451	300	4000	80	6,000	109	38	A	10
7	220-240	E27	FLE7CDL/T2/840/E27	73453	300	4000	80	6,000	109	38	A	10

Electronic Candle T3 - 6,000 hours



11	220-240	E14	FLE11CDL/T3/827/E14	76198	580	2700	80	6,000	135	45	A	6
11	220-240	E27	FLE11CDL/T3/827/E27	76201	580	2700	80	6,000	135	45	A	6
11	220-240	B22	FLE11CDL/T3/827/B22	76202	580	2700	80	6,000	134	45	A	6

Electronic Twisted Candle T2 - 6,000 hours



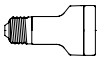
5	220-240	E14	FLE5TWSTCDL/OP/827/E14	78693	200	2700	82	6,000	114	42	A	6
5	220-240	E14	FLE5TWSTCDL/AMBER/E14	72706	200	-	82	6,000	114	42	A	10
5	220-240	E14	FLE5TWSTCDL/AMBER E14	78692	200	-	82	6,000	114	42	A	6
7	220-240	E14	FLE7TWSTCDL/OP/827/E14	75312	310	2700	82	6,000	130	42	A	6
7	220-240	E27	FLE7TWSTCDL/OP/827/E27	78695	310	2700	82	6,000	130	42	A	6
7	220-240	B22	FLE7TWSTCDL/OP/827/B22	73375	310	2700	82	6,000	130	42	A	6
7	220-240	E14	FLE7TWSTCDL/AMBER/E14	72707	310	-	82	6,000	130	42	A	10
7	220-240	E14	FLE7TWSTCDL/AMBER E14	78694	310	-	82	6,000	130	42	A	6
9	220-240	E14	FLE9TWSTCDL/OP/827/E14	78696	435	2700	82	6,000	139	52	A	6
9	220-240	E27	FLE9TWSTCDL/OP/827/E27	78697	435	2700	82	6,000	139	52	A	6

Electronic Bent Tip Candle T3 - 6,000 hours

7	220-240	E14	FLE7BTCDL/OP/827/E14	88162	310	2700	82	6,000	158	42	A	10

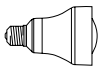
Electronic Reflector T2 - 6,000 hours

Wattage [W]	Volts [V	Cap	Product Description	Product Code	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
7	220-240	E14	**FLE7R50/T2/827/E14**	**88845**	2700	80	6,000	91	50	10
7	220-240	E27	**FLE7R50/T2/827/E27**	**78701**	2700	80	6,000	91	50	10
7	220-240	B22	**FLE7R50/T2/827/B22**	**78700**	2700	80	6,000	91	50	10
7	220-240	E14	**FLE7R50/T2/840/E14**	**73403**	4000	80	6,000	91	50	10
11	220-240	E14	**FLE11R63/T2/827/E14**	**78699**	2700	80	6,000	105	63	10
11	220-240	E27	**FLE11R63/T2/827E27**	**88849**	2700	80	6,000	105	63	10
11	220-240	B22	**FLE11R63/T2/827B22**	**88850**	2700	80	6,000	105	63	10
11	220-240	E14	**FLE11R63/T2/840/E14**	**73405**	4000	80	6,000	105	63	10



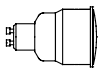
Electronic Reflector Genura R80 - 15,000 hours

23	220-240	E27	**EFL23W/827/R80/E27**	**82174**	2700	80	15,000	132	82	6
23	220-240	E27	**EFL23W/830/R80/E27**	**92246**	3000	80	15,000	132	82	6



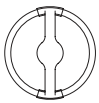
Electronic GU10 T2 - 6,000 hours

7	220-240	GU10	**FLE7GU10/T2/827**	**73454**	2700	80	6,000	87	50	8
9	220-240	GU10	**FLE9GU10/T2/827**	**78702**	2700	80	6,000	87	50	8



Electronic Circlite T5 - 6,000 hours

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Diameter [mm]	EEC	Pack Qty
22	220-240	E27	**FLE22/CLITE/T5/827/E27**	**73767**	1800	2700	80	6,000	230	A	6
22	220-240	E27	**FLE22/CLITE/T5/865/E27**	**73768**	1700	6500	80	6,000	230	A	6



Halogen lamps – clean, bright, white light.

Invented in 1958 by GE, halogen lamps provide a compact, high output, crisp, white light that delivers superior colour reproduction.

By using halogen gas which allows the lamp to burn more brightly without sacrificing life, they are more efficient than incandescent lamps at converting electricity into light, therefore giving more light for less energy and from a smaller physical size.

Why halogen?

- Crisp white light (CCT 2800K+)
- Excellent colour rendering, light close to natural (100% CRI)
- Long lasting bright light – more than 90% lumen maintenance
- Instant (re-)start – full light output immediately after switch on
- Dimmable
- Environmentally friendly technology – mercury and lead free, no electromagnetic emission

Popular for accent, display and general lighting applications in a wide variety of commercial, industrial and residential environments.

Advanced lighting technologies

Premium performance product alternatives for more efficient lighting

For Energy Saving

MR16

upgrade to

Precise MR16 IR

Infra Red MR16 – Energy Saving solution

- Up to 40% energy saving
- 5,000 hours life
- Premium quality light
- Replacement for standard MR16 lamp

Base Watt	New MR16 IR Watt	Saved Watt	Saved Energy Cost through total life
35W	20W	15W	7,5 EUR
50W	35W	15W	7,5 EUR
~65W	45W	20W	~10 EUR

For Energy Saving

Standard Double Ended Linear 150, 200, 300 and 500W

upgrade to

C energy class Double Ended Linear 100, 130, 200 and 330W

C class Double Ended Linear

- Increased efficiency – C energy class
- More than 30% energy saving
- Retrofit to standard Double Ended Linear
- Full range 100-330W to replace 150-500W standard range

Base Watt	New Watt	Saved Watt	Saved Energy Cost / 1000hrs
150W	100W	50W	5 EUR
200W	130W	70W	7 EUR
300W	200W	100W	10 EUR
500W	330W	170W	17 EUR

For Energy Saving

HaloGLS, HaloCandle, HaloSpherical, HaloReflector

upgrade to

Energy Efficient Halogen range (up to C energy class). 18, 28, 42, 70, 100W

The 'new incandescent' lamps

- Exactly same size and appearance as an incandescent lamp
- Provides full light strength at start-up
- 30% energy saving
- Dimmable
- 2,000 hours life
- Environmentally friendly – mercury and lead free
- Excellent colour rendering, light close to natural (100% CRI)
- More than 90% lumen maintenance over life

Base Watt	New Watt				
25W	18W	No	Yes	Yes	No
40W	28W	Yes	Yes	Yes	Yes
60W	42W	Yes	Yes	Yes	Yes
100W	75W	Yes	No	No	Yes
150W	100W	Yes	No	No	No

Precise™ ConstantColor™ MR16 IR

Energy efficient low voltage dichroic mirror halogen reflector lamps from GE

GE 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.

Available in two versions, the high performance MR16 ConstantColor™ IR offers low energy use, superior lumen and color maintenance, while the MR16 IR delivers savings using a standard dichroic reflector.

Halogen-IR Technology?

The Precise™ IR halogen capsule has multiple layers of very durable, thin, interference film which redirects heat, which would otherwise be wasted, back onto the lamp filament. This increases the filament temperature and allows it to give off more visible light for the same input power.

GE ConstantColor™ halogen lamps have a unique glass reflector coating technology that provide consistent colour performance throughout their rated life.

Conventional MR16 halogen lamps utilize reflector coating that is gradually degraded by the heat emitted by the filament. Unlike any other product on the market, the GE ConstantColor™ MR16 IR lamp coated with durable titania and silica oxides withstand temperatures of 500°C without a change in reflector qualities. The result is close to 90% maintained light output over life and identical colour temperature from lamp to lamp. With coating applied to both inside and outside the reflector, wasted backlight is virtually eliminated.

The benefits of Precise™ ConstantColor™ IR

- **Up to 43% energy savings compared to standard products**
- **Cool beam**
- **Long 5000 hour life, 2.5x longer than standard MR16's**
- **Eliminates backlight**
- **Long-term reliability**
- **Precise optical control**
- **Close to 90% lumen maintenance**
- **Evenly lit surfaces**
- **Environmentally friendly technology**
  - **UV control**
  - **Mercury free**
  - **Can be disposed with household waste**

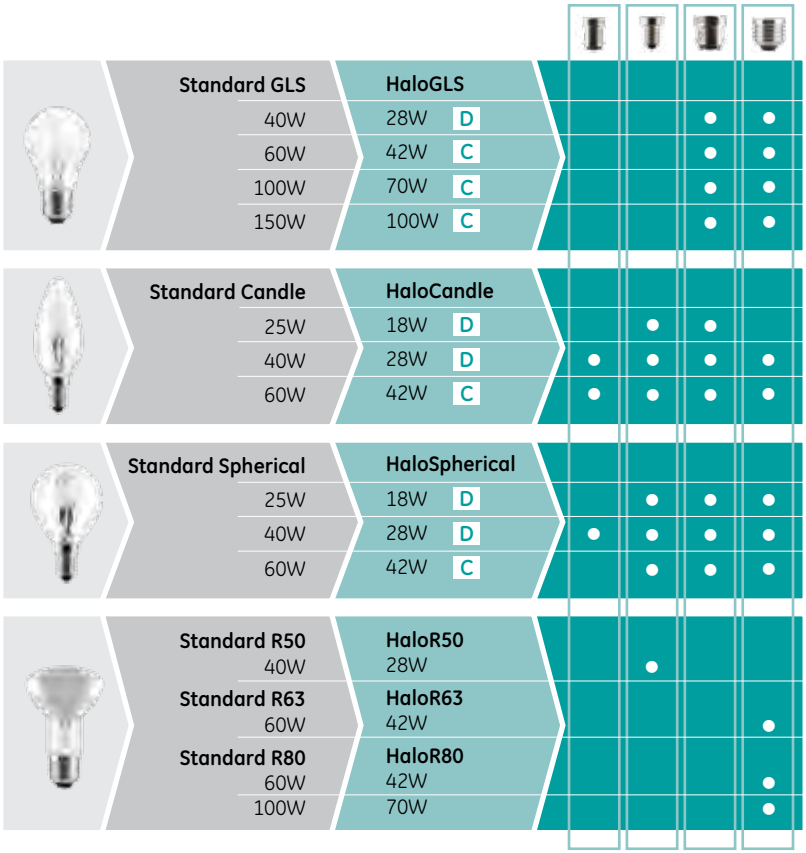
Energy efficient halogen solutions from GE

Familiar shape and light

GE's Energy Efficient Halogen (EEH) range is a direct replacement for regular incandescent lamps offering a crisp white light with 30% energy saving and similar lumens.

Available in standard GLS, candle, spherical and reflector shapes, GE EEH lamps are the environmentally friendly solution for those who prefer the features and light quality associated with incandescent bulbs.

- Last twice as long and consume 30% less electricity than corresponding incandescent lamps.
- Provide instant-on, full light output at start-up and lumens are maintained throughout the life of the product.
- Unlike some compact fluorescent products, EEH lamps are size 100% retrofit with the incandescent lamps they replace.
- Can be used with dimming switches.
- Environmentally friendly with no lead or mercury.



Standard GLS	HaloGLS				●	●
40W	28W	D			●	●
60W	42W	C			●	●
100W	70W	C			●	●
150W	100W	C			●	●
Standard Candle	HaloCandle			●	●	
25W	18W	D	●	●	●	●
40W	28W	D	●	●	●	●
60W	42W	C				
Standard Spherical	HaloSpherical					
25W	18W	D		●	●	●
40W	28W	D	●	●	●	●
60W	42W	C		●	●	●
Standard R50 40W	HaloR50 28W			●		
Standard R63 60W	HaloR63 42W					●
Standard R80 60W	HaloR80 42W					●
100W	70W					●

Halogen Lamps

MR 11 Low Voltage

Standard

Cap: GU4
Wattages: 12-35W
Volts: 12
Beam Spread: 8-26°
Front: Open or Closed
Life: 3,500Hrs
Page: 103

Start

Cap: GU4
Wattages: 20-35W
Volts: 12
Beam Spread: 26°
Front: Closed
Life: 2,000Hrs
Page: 103

MR 16 Low Voltage

MR16 IR

Cap: GU5.3
Wattages: 20-45W
Volts: 12
Beam Spread: 10-36°
Life (hrs): 5,000Hrs
Page: 103

Precise™ ConstantColor™

Cap: GU5.3
Wattages: 20-71W
Volts: 12
Beam Spread: 12-55°
Feature: Consistent light quality and exceptional long life
Life: 4,000-6,000Hrs
Page: 103

Precise™ Bright

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 18-60°
Feature: Outstanding light output in a mid range lamp
Life: 5,000Hrs
Page: 104

Start

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 12-55°
Feature: Budget lamp with reliable GE quality
Life: 2,000Hrs
Page: 104

Alutech™

Cap: GU5.3
Wattages: 20-50W
Volts: 12
Beam Spread: 36-60°
Feature: For heat sensitive halogen fixtures
Life: 3,000Hrs
Page: 104

AR111 Aluminium Reflector

Standard

Cap: G53
Wattages: 35-100W
Volts: 12
Beam Spread: 8-45°
Life: 3,000Hrs
Page: 104

MR 16 & MR 20 Mains Voltage GU10 Cap

Alutech™

Cap: GU10
Wattages: 20-50W
Volts: 230-240
Beam Spread: 36°
Life: Up to 3,000Hrs
Page: 105

Coloured

Cap: GU10
Wattages: 50W
Volts: 240
Beam Spread: 36°
Finish: Red, Yellow or Blue
Life: 1,500Hrs
Page: 105

MR 20 Mains Tech

Cap: GU10
Wattages: 75W
Volts: 240
Beam Spread: 36°
Life: 2,000Hrs
Page: 105

G9 Mains Voltage

Clear

Cap: G9
Wattages: 25-75W
Life: 1,500-3,000Hrs
Page: 106

Selector

Single Ended Halogen Capsules

Transversal and Axial Filament

Cap: G4 or GY6.35
Wattages: 5-100W
Life: up to 4,000Hrs
Page: 106

Low Pressure

Cap: G4 or GY6.35
Wattages: 10-75W
Life: 2,000Hrs
Page: 106

Start

Cap: G4 or GY6.35
Wattages: 10-100W
Life: 1,000Hrs
Page: 106

Double Ended Linear

Energy Saver

Cap: R7s
Wattages: 100-330W
Life: 1,000Hrs
Page: 107

IR

Cap: R7s
Wattages: 225-375W
Life: 2,000Hrs
Page: 107

Standard and Start

Cap: R7s
Wattages: 60-2000W
Life: 1,000-2,000Hrs
Page: 107

PAR 16, 20, 25, 30

PAR 16

Cap: E14
Wattages: 40W
Life: 2,000Hrs
Page: 108

PAR 20

Cap: E27
Wattages: 50W
Beam Choice: Spot or Flood
Life: 2,000Hrs
Page: 108

PAR 25

Cap: E27
Wattages: 75W
Beam Choice: Flood
Life: 3,000Hrs
Page: 108

PAR 30

Cap: E27
Wattages: 75-100W
Beam Choice: Spot or Flood
Life: 2,000-3,000Hrs
Page: 108

Energy Efficient Halogen Incandescent Shapes

HaloGLS

Cap: E27, B22
Wattages: 28-100W
Life: 2,000Hrs
Page: 108

HaloCandle

Cap: E14, E27, B15, B22
Wattages: 18-42W
Life: 2,000Hrs
Page: 109

HaloSpherical

Cap: E14, B15, E27, B22
Wattages: 18-42W
Life: 2,000Hrs
Page: 109

HaloReflector

Cap: E14, E27
Wattages: 28-70W
Life: 2,000Hrs
Page: 109

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:

Lumens: Light output
EEC: Energy Efficiency Class

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 134-135 for cap drawings

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

Diameter: Bulb diameter in mm

Pack quantity: Number of product units packed in a case

Precise™ MR11 - Open

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
20	12	GU4	**M62/FTD**	**19626**	550	26	2900	3,500	35.3	40	10
35	12	GU4	**M66/FTF**	**19635**	2300	21	2900	3,500	35.3	40	10
35	12	GU4	**M199/FTH**	**19634**	1300	26	2900	3,500	35.3	40	10

M62 / FTD

Class M Numerical index, industry code specifying lamp type

FTD - ANSI code Industry code specifying lamps type defined by the American National Standard Institute

Volts: Lamp data is based on operation at rated voltage

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

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

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

Length: Lamp length in mm

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Precise™ MR11 - Open											
20	12	GU4	**M62/FTD**	**19626**	550	26	2900	3,500	35.3	40	10
35	12	GU4	**M66/FTF**	**19635**	2300	21	2900	3,500	35.3	40	10
35	12	GU4	**M199/FTH**	**19634**	1300	26	2900	3,500	35.3	40	10
Precise™ MR11 - Closed											
12	12	GU4	**M264/FTA/CG**	**19639**	3960	8	2900	2,000	35.3	45	10
20	12	GU4	**M251/FTC/CG**	**19636**	1800	17	2900	3,500	35.3	45	10
20	12	GU4	**M262/FTD/CG**	**19625**	490	26	2900	3,500	35.3	45	10
35	12	GU4	**M266/FTF/CG**	**19627**	2070	21	2900	3,500	35.3	45	10
MR11 Start - Closed											
20	12	GU4	**FTD/M262/CG**	**17200**	490	26	2900	2,000	35	40	10
35	12	GU4	**FTF/M199/CG**	**17201**	1150	26	2900	2,000	35	40	10
Precise™ ConstantColor™ MR16 IR											
20	12	GU5.3	**Q20MR16HIR/CCG10**	**77900**	6000	10	2900	5000	50.7	50.5	20
20	12	GU5.3	**Q20MR16HIR/CCG24**	**77901**	2300	24	2900	5000	50.7	50.5	20
20	12	GU5.3	**Q20MR16HIR/CCG36**	**77902**	1000	36	2900	5000	50.7	50.5	20
30	12	GU5.3	**Q30MR16HIR/CCG10**	**79584**	10000	10	2950	5000	50.7	50.5	20
30	12	GU5.3	**Q30MR16HIR/CCG24**	**79585**	3350	24	2950	5000	50.7	50.5	20
30	12	GU5.3	**Q30MR16HIR/CCG36**	**79586**	1600	36	2950	5000	50.7	50.5	20
35	12	GU5.3	**Q35MR16HIR/CCG10**	**77904**	12000	10	2950	5000	50.7	50.5	20
35	12	GU5.3	**Q35MR16HIR/CCG24**	**77905**	4200	24	2950	5000	50.7	50.5	20
35	12	GU5.3	**Q35MR16HIR/CCG36**	**77906**	2000	36	2950	5000	50.7	50.5	20
45	12	GU5.3	**Q45MR16HIR/CCG10**	**77907**	14000	10	3000	5000	50.7	50.5	20
45	12	GU5.3	**Q45MR16HIR/CCG24**	**77908**	5200	24	3000	5000	50.7	50.5	20
45	12	GU5.3	**Q45MR16HIR/CCG36**	**77909**	2300	36	3000	5000	50.7	50.5	20
Precise™ MR16 IR											
20	12	GU5.3	**MR16 IR 20W 12V WFL**	**77657**	1000	36	2900	5,000	50.7	50.5	10
35	12	GU5.3	**MR16 IR 35W 12V WFL**	**77658**	2000	36	2950	5,000	50.7	50.5	10
Precise™ ConstantColor™ MR16 - Open											
71	12	GU5.3	**EYJ/CC**	**20841**	5500	25	3000	4,000	50.7	46	20
71	12	GU5.3	**EYC/CC**	**20840**	2000	42	3000	4,000	50.7	46	20
Precise™ ConstantColor™ MR16 - Closed											
20	12	GU5.3	**ESX/CG**	**20858**	3150	15	3000	5,000	50.7	50.5	10
20	12	GU5.3	**BAB/CG**	**20857**	475	40	3000	5,000	50.7	50.5	20
35	12	GU5.3	**FRB/CG**	**20864**	7500	12	3000	5,000	50.7	50.5	20
35	12	GU5.3	**FRA/CG**	**20860**	3200	20	3000	5,000	50.7	50.5	20
35	12	GU5.3	**FMW/CG**	**20859**	900	40	3000	5,000	50.7	50.5	20
50	12	GU5.3	**EXT/CG**	**20872**	8400	15	3000	6,000	50.7	50.5	10
50	12	GU5.3	**EXZ/CG**	**20871**	2900	25	3000	6,000	50.7	50.5	20
50	12	GU5.3	**EXN/CG**	**20867**	1500	40	3000	6,000	50.7	50.5	20
50	12	GU5.3	**FNV/CG**	**20865**	850	55	3000	6,000	50.7	50.5	10
71	12	GU5.3	**EYF/CG**	**20876**	10400	15	3000	4,000	50.7	50.5	20
71	12	GU5.3	**EYJ/CG**	**20874**	4550	25	3000	4,000	50.7	50.5	20
71	12	GU5.3	**EYC/CG**	**20873**	2000	40	3000	4,000	50.7	50.5	20

Halogen Lamps

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Precise™ Bright 5000 MR16 - Open											
20	12	GU5.3	**M69/BAB**	**88231**	480	36	2900	5,000	50.7	46	10
35	12	GU5.3	**M81/FMW**	**88229**	1390	36	2900	5,000	50.7	46	10
50	12	GU5.3	**M58/EXN**	**88234**	2250	36	2900	5,000	50.7	46	10
50	12	GU5.3	**M80/FNV**	**88232**	1070	60	2900	5,000	50.7	46	10
Precise™ Bright 5000 MR16 - Closed											
20	12	GU5.3	**M269/BAB/CG**	**88235**	450	36	2900	5,000	50.7	50.5	10
35	12	GU5.3	**M281/FMW/CG**	**88236**	1300	36	2900	5,000	50.7	50.5	10
50	12	GU5.3	**M250/EXZ/CG**	**88237**	4750	18	2900	5,000	50.7	50.5	10
50	12	GU5.3	**M258/EXN/CG**	**88239**	2100	36	2900	5,000	50.7	50.5	10
50	12	GU5.3	**M280/FNV/CG**	**88238**	950	60	2900	5,000	50.7	50.5	10
MR16 Start - Open											
20	12	GU5.3	**M69/BAB/EC**	**38000**	500	36	2900	2,000	50.7	47.6	20
35	12	GU5.3	**M81/FMW/EC**	**38001**	925	36	2900	2,000	50.7	47.6	20
50	12	GU5.3	**M58/EXN/EC**	**38002**	1500	36	2900	2,000	50.7	47.6	20
MR16 Start - Closed											
20	12	GU5.3	**M268/ESX/CG/EC**	**38012**	3150	12	2900	2,000	50.7	50.5	20
20	12	GU5.3	**M269/BAB/CG/EC**	**38006**	450	36	2900	2,000	50.7	50.5	20
35	12	GU5.3	**FRB/CG/EC**	**38013**	6750	12	2900	2,000	50.7	50.5	20
35	12	GU5.3	**M281/FMW/CG/EC**	**38007**	830	36	2900	2,000	50.7	50.5	20
50	12	GU5.3	**M249/EXT/CG/EC**	**38014**	8550	12	2900	2,000	50.7	50.5	20
50	12	GU5.3	**M250/EXZ/CG/EC**	**39611**	2700	24	2900	2,000	50.7	50.5	20
50	12	GU5.3	**M258/EXN/CG/EC**	**38011**	1350	36	2900	2,000	50.7	50.5	20
50	12	GU5.3	**M280/FNV/CG/EC**	**39236**	630	55	2900	2,000	50.7	50.5	20
Precise™ Alutech™ MR16 - Closed											
20	12	GU5.3	**M269/BAB/CG/AL**	**88216**	450	36	2900	3,000	50.7	50.5	10
35	12	GU5.3	**M281/FMW/CG/AL**	**88217**	1300	36	2900	3,000	50.7	50.5	10
50	12	GU5.3	**M258/EXN/CG/AL**	**88215**	1800	36	2900	3,000	50.7	50.5	10
50	12	GU5.3	**M280/FNW/CG/AL**	**88214**	700	60	2900	3,000	50.7	50.5	10
AR111 - Low Pressure Capsule With Aluminium Reflector											
35	12	G53	**AR111 35W12V SP**	**10774**	14000	8	2900	2,000	111	67	10
35	12	G53	**AR111 35W12V FL**	**10775**	2500	24	2900	2,000	111	67	10
50	12	G53	**AR111 50W12V SP**	**10766**	17800	8	2900	3,000	111	67	10
50	12	G53	**AR111 50W12V FL**	**10767**	3500	24	2900	3,000	111	67	10
75	12	G53	**AR111 75W12V SP**	**10768**	23500	8	2900	3,000	111	67	10
75	12	G53	**AR111 75W12V FL**	**10769**	5300	24	2900	3,000	111	67	10
75	12	G53	**AR111 75W12V WFL**	**10771**	1700	45	2900	3,000	111	67	10
100	12	G53	**AR111 100W12V SP**	**41915**	40000	8	2900	3,000	111	67	10
100	12	G53	**AR111 100W12V FL**	**41922**	8000	24	2900	3,000	111	67	10
100	12	G53	**AR111 100W12V WFL**	**41923**	2300	45	2900	3,000	111	67	10

MR16 Mains Alutech™ Long Life

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
50	230	GU10	**Q50MR16/230/25°**	**40402**	950	25	2800	3,000	51	55	50
50	230	GU10	**Q50MR16/230/36°**	**40403**	600	36	2800	3,000	51	55	50
50	240	GU10	**Q50MR16/240/25°**	**40404**	950	25	2800	3,000	51	55	50
50	240	GU10	**Q50MR16/240/36°**	**40405**	600	36	2800	3,000	51	55	50

MR16 Mains Alutech™

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
20	230	GU10	**Q20MR16/230/FL**	**10898**	200	36	2700	1,500	51	55	10
35	230	GU10	**Q35MR16/230/FL**	**10896**	400	36	2700	1,500	51	55	10
50	230	GU10	**Q50MR16/230/FL**	**92729**	600	36	2700	1,500	51	55	10
20	240	GU10	**Q20MR16/240/FL**	**10859**	200	36	2700	1,500	51	55	10
35	240	GU10	**Q35MR16/240/FL**	**10857**	400	36	2700	1,500	51	55	10
50	240	GU10	**Q50MR16/240/FL**	**92730**	600	36	2700	1,500	51	55	10

MR16 Mains Alutech™ - Coloured

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**50**	240	GU10	**Q50MR16/240/FL START**	**12988**	600	36	2700	1,500	51	55	10
Blue	**50**	240	GU10	**Q50MR16/240/FL START**	**12995**	600	36	2700	1,500	51	55	10
Yellow	**50**	240	GU10	**Q50MR16/240/FL START**	**13003**	600	36	2700	1,500	51	55	10

Halogen Lamps

Single ended mains voltage capsule short G9 - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
25	230	G9	SHORTG9 25W CL 230V	45692	260	2800	1,500	13	43	10
40	230	G9	SHORTG9 40W CL 230V	22504	460	2800	3,000	13	43	10
25	240	G9	SHORTG9 25W CL 240V	88941	260	2800	1,500	13	43	10
40	240	G9	SHORTG9 40W CL 240V	22498	460	2800	3,000	13	43	10

Single ended low voltage capsule - Transversal Filament

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
10	6	G4	M29/Q10 G4	34720	200	2800	100	9	33	20
20	6	G4	M30/ESB/Q20 G4	34718	450	2900	100	9	33	20
20	6	G4	M34/FHE/Q20 G4	34719	350	2900	2,000	9	33	20
5	12	G4	M9/H5 G4	42959	60	2800	2,000	9	33	20
10	12	G4	M11/H10 G4	34674	140	2800	2,000	9	33	20
20	12	G4	M35/Q20 G4	34714	400	2900	250	9	33	20
20	12	G4	M47/Q20 G4	34715	380	2900	2,000	9	33	100
35	12	GY6.35	M95/Q35/GY6.35	34708	550	2900	3,000	11	44	100
50	12	GY6.35	M32/Q50 GY6.35	34702	930	2900	4,000	11	44	100
75	12	GY6.35	M313/Q75/GY6.35	34682	1350	2900	2,000	11	44	20
100	12	GY6.35	M28/Q100 GY6.35	34676	2200	2900	3,000	11	44	100
100	24	GY6.35	M67/Q100 GY6.35 24V	34663	2000	2900	2,000	11	44	100

Single ended low voltage capsule - Axial Filament

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
10	6	G4	M42/Q10 G4	34728	140	2800	2,000	9	33	20
20	12	GY6.35	M76/Q20/GY6.35	34712	300	2900	3,000	11	44	100
35	12	GY6.35	M75/Q35/GY6.35	34710	600	2900	4,000	11	44	100
50	12	GY6.35	M74/Q50/GY6.35	34703	900	2900	4,000	11	44	100
75	12	GY6.35	M73/Q75/GY6.35	34683	1350	2900	4,000	11	44	20
100	12	GY6.35	M180/Q100/GY6.35	34664	2150	2900	4,000	11	44	20

Single ended low voltage capsule - Low Pressure, Axial Filament

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
10	12	G4	Q10T2,5/12V G4	35705	140	2800	2,000	9	33	20
20	12	G4	Q20T2,5/12V G4	35710	320	2900	2,000	9	33	20
20	12	GY6.35	Q20T3/12V GY6.35	35696	300	2900	2,000	11	44	20
35	12	GY6.35	Q35T3/12V GY6.35	35699	600	2900	2,000	11	44	20
50	12	GY6.35	Q50T3/12V GY6.35	35700	900	2900	2,000	11	44	20
75	12	GY6.35	Q75T3/12V GY6.35	35701	1350	2900	2,000	11	44	20

Single ended low voltage capsule Start - Transversal Filament

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
10	12	G4	M11/Q10/G4 ST	12708	100	2800	1,000	10	33	20
20	12	G4	M47/Q20/G4 ST	12711	250	2900	1,000	10	33	20
35	12	GY6.35	M95/Q35/GY6.35 ST	12712	480	2900	1,000	11	44	20
50	12	GY6.35	M32/Q50/GY6.35 ST	12713	800	2900	1,000	11	44	20
100	12	GY6.35	Q100/GY6.35 ST	12718	1950	2900	1,000	11	44	20

Double ended linear Halogen Energy Saver

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
100	230	R7s	**K12 C100W 230V R7S**	**76210**	1900	2800	1,000	8	78	C	10
130	230	R7s	**K11 C130W 230V R7S**	**76209**	2440	2800	1,000	8	117.6	C	10
200	230	R7s	**K9 C200W 230V R7S**	**76208**	4000	2800	1,000	8	117.6	C	10
330	230	R7s	**K1 C330W 230V R7S**	**76207**	7400	2800	1,000	8	117.6	C	10
100	240	R7s	**K12 C100W 240V R7S**	**76530**	1900	2800	1,000	8	78	C	10
130	240	R7s	**K11 C130W 240V R7S**	**76529**	2440	2800	1,000	8	117.6	C	10
200	240	R7s	**K9 C200W 240V R7S**	**76528**	4000	2800	1,000	8	117.6	C	10
330	240	R7s	**K1 C330W 240V R7S**	**76527**	7400	2800	1,000	8	117.6	C	10

Double ended linear Halogen IR

225	230	R7s	**K9/Q225 T3/230V HIR**	**91515**	5000	3000	2,000	10	117.6	C	10
375	230	R7s	**K1/Q375 T3/230V HIR**	**31598**	9400	3000	2,000	10	117.6	C	10
225	240	R7s	**K9/Q225 T3/240V HIR**	**43299**	5000	3000	2,000	10	117.6	C	10
375	240	R7s	**K1/Q375 T3/240V HIR**	**31612**	9400	3000	2,000	10	117.6	C	10

Double ended linear Halogen

500	120	R7s	**K1/Q500 T2.5/CL**	**29161**	11000	2900	2,000	8	117.6	C	10
500	230	R7s	**K1/Q500 T2.5/CL**	**29165**	9800	2900	2,000	8	117.6	D	10
1000	230	R7s	**K4/Q1000 T3/CL**	**29180**	21000	2900	2,000	10	189.1	N/A	100
1500	230	R7s	**K5/Q1500 T3/CL**	**29184**	32000	2900	1,000	10	254.1	N/A	100
2000	230	R7s	**K8/Q2000 T3/CL**	**30886**	44000	2900	1,000	10	330.8	N/A	10
500	240	R7s	**K1/Q500 T2.5/CL**	**29168**	9800	2900	2,000	8	117.6	D	10
1000	240	R7s	**K4/Q1000 T3/CL**	**29181**	21000	2900	2,000	10	189.1	N/A	10
1000	240	R7s	**K10/1000 T3/CL**	**43712**	21000	2900	2,000	10	254.1	N/A	6
1500	240	R7s	**K5/Q1500 T3/CL**	**23830**	33000	2900	1,000	10	254.1	N/A	12
1500	240	R7s	**K5/Q1500 T3/CL**	**29187**	32000	2900	1,000	10	254.1	N/A	10
1500	277	R7s	**K5/Q1500 T3/CL**	**23832**	33000	2900	2,000	10	254.1	N/A	12

Halogen Lamps

HaloTubular T38

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
1000	230	E40	**Halo T38/1000W/E40/230**	**32108**	21000	2900	2,000	38	280	10
1000	240	E40	**Halo T38/1000W/E40/240**	**32109**	21000	2900	2,000	38	280	10

Halogen PAR 16

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
40	230	E14	**40PAR16/230/FL**	**27826**	950	25	2800	2,000	51	79	10
40	240	E14	**40PAR16/240/FL**	**27845**	950	25	2800	2,000	51	79	10

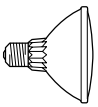
Halogen PAR 20

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
50	230	E27	**50PAR20/230/SP**	**40363**	3000	10	2800	2,000	64.5	91	15
50	230	E27	**50PAR20/230/FL**	**40362**	1000	25	2800	2,000	64.5	91	15
50	240	E27	**50PAR20/240/SP**	**40364**	3000	10	2800	2,000	64.5	91	15
50	240	E27	**50PAR20/240/FL**	**40365**	1000	25	2800	2,000	64.5	91	15

Halogen PAR 25

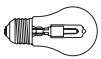
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
75	230	E27	**75PAR25/230/FL**	**91775**	1300	25	2800	3,000	81	108	15
75	240	E27	**75PAR25/240/FL**	**92165**	1300	25	2800	3,000	81	108	15

Halogen PAR 30



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
75	230	E27	**75PAR30/230/SP**	**40366**	6200	10	2800	2,000	97	90.5	15
75	230	E27	**75PAR30/230/FL**	**40349**	2000	30	2800	2,000	97	90.5	15
100	230	E27	**100PAR30/230/FL**	**32484**	3100	30	2800	3,000	97	90.5	15
75	240	E27	**75PAR30/240/SP**	**40367**	6200	10	2800	2,000	97	90.5	15
75	240	E27	**75PAR30/240/FL**	**40361**	2000	30	2800	2,000	97	90.5	15
100	240	E27	**100PAR30/240/FL**	**32482**	3100	30	2800	3,000	97	90.5	15

Energy Efficient HaloGLS



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
28	230	E27	**28W HALO A CL E27 230V**	**76957**	340	2900	2,000	50	96	D	10
42	230	E27	**42W HALO A CL E27 230V**	**76953**	630	2900	2,000	50	96	C	10
70	230	E27	**70W HALO A CL E27 230V**	**76948**	1300	2900	2,000	50	96	C	10
100	230	E27	**100W HALO A CL E27 230V**	**76944**	1800	2900	2,000	50	104	C	10
28	240	E27	**28W HALO A CL E27 240V**	**76954**	340	2900	2,000	50	96	D	8
42	240	E27	**42W HALO A CL E27 240V**	**76950**	630	2900	2,000	50	96	C	8
70	240	E27	**70W HALO A CL E27 240V**	**76945**	1300	2900	2,000	50	96	C	8
100	240	E27	**100W HALO A CL E27 240V**	**76941**	1800	2900	2,000	50	104	C	8
28	240	B22	**28W HALO A CL B22 240V**	**76955**	340	2900	2,000	50	96	D	8
42	240	B22	**42W HALO A CL B22 240V**	**76951**	630	2900	2,000	50	96	C	8
70	240	B22	**70W HALO A CL B22 240V**	**76946**	1300	2900	2,000	50	96	C	8
100	240	B22	**100W HALO A CL B22 240V**	**76942**	1800	2900	2,000	50	104	C	8

Energy Efficient HaloCandle

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
18	230	E14	**18W HALO C CL E14 230V**	**76940**	170	2900	2,000	36	100	D	10
28	230	E14	**28W HALO C CL E14 230V**	**76936**	340	2900	2,000	36	100	D	10
42	230	E14	**42W HALO C CL E14 230V**	**76575**	630	2900	2,000	36	100	C	10
28	230	E27	**28W HALO C CL E27 230V**	**76934**	340	2900	2,000	36	100	D	10
42	230	E27	**42W HALO C CL E27 230V**	**76573**	630	2900	2,000	36	100	C	10
18	240	E14	**18W HALO C CL E14 240V**	**76937**	170	2900	2,000	36	100	D	12
28	240	E14	**28W HALO C CL E14 240V**	**76930**	340	2900	2,000	36	100	D	12
42	240	E14	**42W HALO C CL E14 240V**	**76569**	630	2900	2,000	36	100	C	12
28	240	E27	**28W HALO C CL E27 240V**	**76929**	340	2900	2,000	36	100	D	12
42	240	E27	**42W HALO C CL E27 240V**	**76568**	630	2900	2,000	36	100	C	12
28	240	B15	**28W HALO C CL B15 240V**	**76932**	340	2900	2,000	36	100	D	12
42	240	B15	**42W HALO C CL B15 240V**	**76571**	630	2900	2,000	36	100	C	12
18	240	B22	**18W HALO C CL B22 240V**	**76938**	170	2900	2,000	36	100	D	12
28	240	B22	**28W HALO C CL B22 240V**	**76931**	340	2900	2,000	36	100	D	12
42	240	B22	**42W HALO C CL B22 240V**	**76570**	630	2900	2,000	36	100	C	12

Energy Efficient HaloSpherical

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
18	230	E14	**18W HALO S CL E14 230V**	**76567**	170	2900	2,000	45	78	D	10
28	230	E14	**28W HALO S CL E14 230V**	**76561**	340	2900	2,000	45	78	D	10
42	230	E14	**42W HALO S CL E14 230V**	**76553**	630	2900	2,000	45	78	C	10
18	230	E27	**18W HALO S CL E27 230V**	**76565**	170	2900	2,000	45	78	D	10
28	230	E27	**28W HALO S CL E27 230V**	**76559**	340	2900	2,000	45	78	D	10
42	230	E27	**42W HALO S CL E27 230V**	**76551**	630	2900	2,000	45	78	C	10
18	240	E14	**18W HALO S CL E14 240V**	**76562**	170	2900	2,000	45	78	D	12
28	240	E14	**28W HALO S CL E14 240V**	**76555**	340	2900	2,000	45	78	D	12
42	240	E14	**42W HALOS CL E14 240V**	**76548**	630	2900	2,000	45	78	C	12
28	240	E27	**28W HALO S CL E27 240V**	**76554**	340	2900	2,000	45	78	D	12
42	240	E27	**42W HALOS CL E27 240V**	**76547**	630	2900	2,000	45	78	C	12
28	240	B15	**28W HALO S CL B15 240V**	**76557**	340	2900	2,000	45	78	D	12
18	240	B22	**18W HALO S CL B22 240V**	**76563**	170	2900	2,000	45	78	D	12
28	240	B22	**28W HALO S CL B22 240V**	**76556**	340	2900	2,000	45	78	D	12
42	240	B22	**42W HALOS CL B22 240V**	**76549**	630	2900	2,000	45	78	C	12

Energy Efficient HaloReflector

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	CCT [K]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
28	230	E14	**28W HALO R50 E14 230V**	**76546**	220	2900	2,000	50	86	10
42	230	E27	**42W HALO R63 E27 230V**	**76543**	600	2900	2,000	63.5	101	10
42	230	E27	**42W HALO R80 E27 230V**	**76540**	230	2900	2,000	80	121	10
70	230	E27	**70W HALO R80 E27 230V**	**76537**	TBD	2900	2,000	80	121	10
28	240	E14	**28W HALO R50 E14 240V**	**76544**	220	2900	2,000	50	86	8
42	240	E27	**42W HALO R63 E27 240V**	**76541**	600	2900	2,000	63.5	101	6
42	240	E27	**42W HALO R80 E27 240V**	**76538**	230	2900	2,000	80	121	6

GE's incandescent lamps trace their ancestry to the world's first practical electric bulb, invented by Thomas Alva Edison, founder in 1879 of the company that became General Electric Company.

Incandescent lamps are the most familiar type of light source with countless applications. Available in all shapes and sizes, they offer particular qualities of light to suit specific applications.

In an incandescent lamp, light is generated by heating the filament to incandescence. The hotter the filament, the more efficient it is in converting electricity to light. However, when the filament operates hotter, its life is shortened so the design of each lamp is a balance between efficiency and life. This is why lamps of equal wattage may have different lumen ratings and different life ratings.

From March 2009 a new regulation has been adopted in all EU countries: inefficient non-directional lamps will be phased out gradually from the EU market starting in September 2009.

GE as member of ELC (European Lamp Companies Federation) is fully committed to this regulation and is working on developing new energy efficient products to save energy.

Product alternatives for more efficient lighting

Standard incandescent lamps can now be upgraded to premium performance halogen and energy saving compact fluorescent lamps.

	Product Alternatives		
Incandescent Lamp	**Halogen**	**Compact Fluorescent**	**LED Replacement**
 Standard GLS 15 - 150W* Up to 1560 Lm *15-60W for the countries effected by the new EUP regulations	 **HaloGLS** 18 - 100W, Up to 1800 Lm	 **Compact Fluorescent Energy Smart™, GLS, Spiral and Stick** 5 - 32W, Up to 2100 Lm, Life up to 15,000 hours	 Low watt LED alternatives will be available from the second half of 2010
 Standard Candle 15 - 60W, Up to 720 Lm	 **HaloCandle** 18 - 42W, Up to 630 Lm	 **Compact Fluorescent Candle** 5 - 9W, Up to 405 Lm, Life up to 6,000 hours	 Low watt LED alternatives will be available from the second half of 2010
 Standard Spherical 15 - 60W, Up to 660 Lm	 **HaloSpherical** 18 - 42W, Up to 630 Lm	 **Compact Fluorescent Spherical** 5 - 7W, Up to 286 Lm, Life up to 6,000 hours	 Low watt LED alternatives will be available from the second half of 2010
 Standard Reflector 25 - 175W	 **HaloReflector** 30 - 70W	 **Compact Fluorescent Reflector** 7 - 23W, Up to 1100 Lm, Life up to 15,000 hours	 **LED Reflector** 4 - 10W, Life up to 45,000 hours (B50)
	Why Halogen? • Same size and appearance of an incandescent lamp • Instant, quality light • 30% energy saving • Dimmable • Mercury and lead free	**Why Compact Fluorescent?** • 80% energy saving • Up to 15 times longer life • Retrofit shape and size • Available dimmable and instant start versions • Environmentally friendly solution	**Why LED?** • Consumes up to 90% less energy than incandescent lamps • Long life – up to 45,000 hours (B50) • Same size as incandescent lamps • No mercury, no UV, IR or heat in beam

Incandescent Lamps

GLS

Standard
Cap: E27 or B22
Wattages: 15-200W
Finish: Clear or Frosted
Life: 1,000Hrs
Page: 101

Coloured
Cap: E27, B22
Wattages: 25W
Finish: 6 colours
Life: 1,000Hrs
Page: 103

Low Volt
Cap: E27 or B22
Wattages: 25-100W
Voltage: 12-50V
Finish: Clear or Frosted
Life: 1,000Hrs
Page: 102

Rough Service
Cap: E27 or B22
Wattages: 40-100W
Voltage: 120-250V
Finish: Clear or Frosted
Life: 3,000Hrs
Page: 102

Traffic Light
Cap: E27
Wattages: 60-100W
Finish: Clear
Life: 1,000Hrs
Page: 102

Crown Mirrored
Cap: E27
Wattages: 40-100W
Finish: Crown Mirrored
Life: 1,000Hrs
Page: 104

Candle

Standard
Cap: E14, E27, B15 or B22
Wattages: 15-60W
Finish: Clear Opal or Frosted
Life: 1,000Hrs
Page: 105

Decorative
Cap: E14, B15 or B22
Finish: Twisted, Bent Tip - Frosted or Clear
Life: 1,000Hrs
Page: 105-106

Coloured
Cap: E14, B22
Wattages: 15-60W
Finish: 10 colours
Life: 1,000Hrs
Page: 106

Spherical

Standard
Cap: E14, E27, B15 or B22
Wattages: 25-60W
Finish: Clear or Opal
Life: 1,000Hrs
Page: 103

Crown Mirrored
Cap: E14
Wattages: 25-40W
Finish: Crown Mirrored
Life: 1,000Hrs
Page: 104

Coloured
Cap: E14, E27 or B22
Wattages: 15-40W
Finish: 8 colours
Life: 1,000Hrs
Page: 104

Oven
Cap: E14 or E27
Wattages: 15, 25, 40
Finish: Clear
Page: 111

T45
Cap: E14
Wattages: 25-60
Finish: Softlight or Apricot
Life: 1,000Hrs
Page: 104

Selector

Reflector

R39
Cap: E14
Wattages: 25-30W
Life: 1,000Hrs
Page: 107

R50
Cap: E14
Wattages: 25-40W
Life: 1,000Hrs
Page: 107

R63
Cap: E27 or B22
Wattages: 40-60W
Life: 1,000Hrs
Page: 107

R80
Cap: E27 or B22
Wattages: 40-100W
Life: 1,000Hrs
Page: 107

R95
Cap: E27
Wattages: 75-150W
Life: 1,000Hrs
Page: 107

Infrared Hard Glass
Cap: E27 or B22
Wattages: 100-275W
Beam: Clear, Red or Satin
Life: 5,000Hrs
Page: 108-109

Long Life Reflector

R63 Pluslife
Cap: E27
Wattages: 40-60W
Life: 3,500Hrs
Page: 108

R80 Pluslife
Cap: E27
Wattages: 60-100W
Life: 3,500Hrs
Page: 108

PAR 38 Reflector

Standard / Energy
Cap: E27
Wattages: 60-150W
Beam: Spot or Flood
Life: 2,000Hrs
Page: 108

Coloured
Cap: E27
Wattages: 80W
Finish: 5 colours
Life: 2,000Hrs
Page: 109

Infrared
Cap: E27
Wattages: 100-175W
Finish: Red
Life: 5,000Hrs
Page: 108

Pygmy

Standard and Appliance
Cap: E14, B15 or B22
Wattages: 12-25W
Finish: Clear or Frosted
Life: 1,000Hrs
Page: 110

Coloured
Cap: E14
Wattages: 15W
Finish: 4 different colours
Life: 1,000Hrs
Page: 110

Low Voltage
Cap: SES, SBC or BC
Wattages: 15W
Voltage: 110-130V
Finish: Clear
Life: 1,000Hrs
Page: 110

Linear Incandescent

Linear Incandescent
Cap: S14s, S14d
Wattages: 35-60W
Finish: Opal
Life: 2,500Hrs
Page: 111

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:

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

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 134-135 for cap drawings

Product description: The lamp's identification code

Lumens: Light output after the initial 2 hours of operation

Diameter: Bulb diameter in mm

EEC: Energy Efficiency Class

Standard GLS - Frosted

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
60	127V	E27	**60A1/F/E27**	**22433**	820	1,000	50	88.5	D	1/10/120
40	230	E27	**40A1/F/E27**	**21671**	415	1,000	50	88.5	E	1/10/60

15A1 / FR / E27

Identifies the lamp's wattage

Identifies the finish of the lamp

Length: Lamp length in mm

Volts: Lamp data is based on operation at rated voltage

Identifies the lamp type A1=GLS, C1=Candle, Gxx=Globe (xx=diameter), Rxx=Reflector, P1=Pygmy, SL=Striplight, D1=Spherical

Identifies the cap type

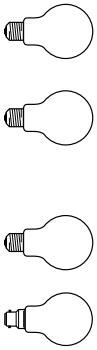
Product code: It is important to use this code when ordering to ensure that you receive the exact product you require

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

Pack quantity: Ex. Each in one outer case, 10 individual boxes shrink-wrapped. Altogether 50 lamps fit in a carton

Standard GLS - Frosted

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
60	127V	E27	**60A1/F/E27***	**22433***	820	1,000	50	88.5	D	1/10/120
40	230	E27	**40A1/F/E27**	**21671***	415	1,000	50	88.5	E	1/10/60
60	230	E27	**60A1/F/E27**	**21673***	710	1,000	50	88.5	E	1/10/60
75	230	E27	**75A1/F/E27**	**21675***	940	1,000	50	88.5	E	1/10/60
100	230	E27	**100A1/F/E27**	**21677***	1340	1,000	50	88.5	E	1/10/60
150	230	E27	**150A65/FR/E27**	**22568***	2160	1,000	65	123	E	1/20
200	230	E27	**200A1/F/E27**	**91128***	3040	1,000	80	142	E	1/20
40	240	E27	**40A1/F/E27**	**19952***	410	1,000	50	88.5	E	1/10/120
60	240	E27	**60A1/F/E27**	**19954***	700	1,000	50	88.5	E	1/10/120
100	240	E27	**100A1/F/E27**	**19956***	1330	1,000	50	88.5	E	1/10/120
60	230	B22	**60A1/F/B22**	**21663***	710	1,000	50	88.5	E	1/10/60
75	230	B22	**75A1/F/B22**	**21664***	940	1,000	50	88.5	E	1/10/60
100	230	B22	**100A1/F/B22**	**21665***	1340	1,000	50	88.5	E	1/10/60



Standard GLS - Clear

75	120-130	E27	**75A1/CL/E27**	**88165**	1070	1,000	50	88.5	D	1/10/120
100	127V	E27	**100A1/CL/E27**	**22422***	1560	1,000	50	88.5	D	1/10/120
15	230	E27	**15A1/CL/E27**	**23546**	100	1,000	50	88.5	E	1/10/60
25	230	E27	**25A1/CL/E27**	**23547**	210	1,000	50	88.5	E	1/10/60
40	230	E27	**40A1/CL/E27**	**21666**	415	1,000	50	88.5	E	1/10/60
60	230	E27	**60A1/CL/E27**	**21667**	710	1,000	50	88.5	E	1/10/60
75	230	E27	**75A1/CL/E27**	**21668**	940	1,000	50	88.5	E	1/10/60
100	230	E27	**100A1/CL/E27**	**21669***	1340	1,000	50	88.5	E	1/10/60
150	230	E27	**150A65/CL/E27**	**22566***	2160	1,000	65	123	E	1/20
200	230	E27	**200A1/CL/E27**	**91127***	3040	1,000	80	142	E	1/20
300	230-240	E27	**300A1/CL/E27**	**91226***	4850	1,000	90	168	E	1/20
300	230-240	E40	**300A1/CL/E40**	**91724***	4850	1,000	90	180	E	1/20
40	240	E27	**40A1/CL/E27**	**19946**	410	1,000	50	88.5	E	1/10/120
60	240	E27	**60A1/CL/E27**	**19947**	700	1,000	50	88.5	E	1/10/120
75	240	E27	**75A1/CL/E27**	**19948**	930	1,000	50	88.5	E	1/10/120
100	240	E27	**100A1/CL/E27**	**19949***	1330	1,000	50	88.5	E	1/10/120
40	230	B22	**40A1/CL/B22**	**21619**	415	1,000	50	88.5	E	1/10/60
60	230	B22	**60A1/CL/B22**	**21629**	710	1,000	50	88.5	E	1/10/60
75	230	B22	**75A1/CL/B22**	**21633**	940	1,000	50	88.5	E	1/10/60
100	230	B22	**100A1/CL/B22**	**21634***	1340	1,000	50	88.5	E	1/10/60
100	250	B22	**100A1/CL/B22**	**18117***	1320	1,000	60	103	E	1/10/100

*Product only available OUTSIDE the EU.

Incandescent Lamps

Low Volt GLS - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
25	24	E27	**25A1/CL/E27 24V**	**35178**	320	1,000	60	104.5	C	1/10/100
40	24	E27	**40A1/CL/E27 24V**	**91876**	580	1,000	60	104.5	D	1/10/100
60	24	E27	**60A1/CL/E27 24V**	**91877**	930	1,000	60	104.5	D	1/10/100
100	24	E27	**100A1/CL/E27 24V**	**35174**	1740	1,000	60	104.5	D	1/10/100
40	24	B22	**40A1/CL/B22 24V**	**91879**	580	1,000	60	103	D	1/10/100
60	24	B22	**60A1/CL/B22 24V**	**91878**	930	1,000	60	103	D	1/10/100

Low Volt GLS - Frosted

40	24	E27	**40A1/F/E27 24V**	**91874**	580	1,000	60	104.5	D	1/10/100
60	24	E27	**60A1/F/E27 24V**	**91875**	930	1,000	60	104.5	D	1/10/100
100	24	E27	**100A1/F/E27 24V**	**91873**	1740	1,000	60	104.5	D	1/10/100
60	42	E27	**42V60/F/E27**	**29051**	860	1,000	60	104.5	D	1/10/100

Rough Service GLS - Frosted

60	120	E27	**60A1/P/VRS/E27**	**31546**	450	1,500	60	105	G	1/20
100	120	E27	**100A1/P/GRS/E27**	**31573**	820	3,000	60	105	G	1/20
40	230-240	E27	**40A1/F-RS/E27**	**91228**	250	2,500	60	105	G	1/20
60	230-240	E27	**60A1/F-RS/E27**	**91229**	450	2,500	60	105	G	1/20
100	230-240	E27	**100A1/F-RS/E27**	**91227**	880	2,500	60	105	G	1/20
60	120	B22	**60A1/P/VRS/B22**	**31535**	450	1,500	60	103.5	G	1/20
100	120	B22	**100A1/P/GRS/B22**	**31560**	820	3,000	60	103.5	G	1/20

Traffic Light GLS - Clear

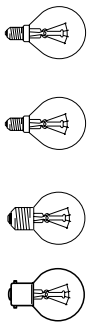
70	230	E27	**70A1/CL/E27**	**35238**	420	3,000	60	105	G	1/10/100
60	230	E27	**60A1/CL/E27/TSR**	**35239**	380	3,000	60	105	G	1/10/100
100	230	E27	**100A65/CL/E27**	**22620**	880	3,000	60	105	G	1/10

Coloured GLS

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**25**	230	E27	**25A1/R/E27**	**90922**	1,000	50	88.5	1/10/120
Orange	**25**	230	E27	**25A1/O/E27**	**90923**	1,000	50	88.5	1/10/120
Yellow	**25**	230	E27	**25A1/Y/E27**	**90921**	1,000	50	88.5	1/10/120
Green	**25**	230	E27	**25A1/G/E27**	**90920**	1,000	50	88.5	1/10/120
Blue	**25**	230	E27	**25A1/B/E27**	**90924**	1,000	50	88.5	1/10/120

Spherical - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
15	230	E14	**15D1/CL/E14**	**92002**	100	1,000	45	74	E	1/10/50
25	230	E14	**25D1/CL/E14**	**19781**	210	1,000	45	74	E	1/10/50
40	230	E14	**40D1/CL/E14**	**19788**	400	1,000	45	74	E	1/10/50
60	230	E14	**60D1/CL/E14**	**19791**	660	1,000	45	74	E	1/10/50
25	240	E14	**25D1/CL/E14**	**19775**	210	1,000	45	74	E	1/10/100
40	240	E14	**40D1/CL/E14**	**19782**	400	1,000	45	74	E	1/10/100
60	240	E14	**60D1/CL/E14**	**19784**	660	1,000	45	74	E	1/10/100
15	230	E27	**15D1/CL/E27**	**91917**	100	1,000	45	71	E	1/10/50
25	230	E27	**25D1/CL/E27**	**90564**	210	1,000	45	71	E	1/10/50
40	230	E27	**40D1/CL/E27**	**90565**	400	1,000	45	71	E	1/10/50
60	230	E27	**60D1/CL/E27**	**91593**	660	1,000	45	71	E	1/10/50
15	230	B22	**15D1/CL/B22**	**91911**	100	1,000	45	70	E	1/10/50
40	230	B22	**40D1/CL/B22**	**91989**	400	1,000	45	69.5	E	1/10/50

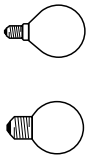


Spherical - Frosted

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
40	230	E14	**40D1/F/E14**	**19789***	400	1,000	45	74	E	1/10/50
60	230	E14	**60D1/F/E14**	**19793***	660	1,000	45	74	E	1/10/50
25	240	E14	**25D1/FR/E14**	**19777***	200	1,000	45	74	F	1/10/100
40	240	E14	**40D1/FR/E14**	**19778***	400	1,000	45	74	E	1/10/100
60	240	E14	**60D1/FR/E14**	**19786***	660	1,000	45	74	E	1/10/50
15	230	E27	**15D1/F/E27**	**90569***	90	1,000	45	71	F	1/10/50
25	230	E27	**25D1/F/E27**	**90566***	200	1,000	45	71	F	1/10/50
40	230	E27	**40D1/F/E27**	**90567***	400	1,000	45	71	E	1/10/50
60	230	E27	**60D1/F/E27**	**90568***	660	1,000	45	71	E	1/10/50

Coloured Spherical

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**15**	230	E14	**15D1/R/E14**	**90525**	1,000	45	74	1/10/50
Red	**15**	230	E27	**15D1/R/E27**	**90531**	1,000	45	71	1/10/50
Orange	**15**	230	E27	**15D1/ORANGE/E27**	**90528**	1,000	45	71	1/10/50
Yellow	**15**	230	E14	**15D1/Y/E14**	**90526**	1,000	45	74	1/10/50
Yellow	**15**	230	E27	**15D1/Y/E27**	**90527**	1,000	45	71	1/10/50
Green	**15**	230	E14	**15D1/G/E14**	**92004**	1,000	45	74	1/10/50
Green	**15**	230	E27	**15D1/G/E27**	**91521**	1,000	45	71	1/10/50
Yellow	**15**	230	E14	**15D1/B/E14**	**92001**	1,000	45	74	1/10/50
Yellow	**15**	230	E27	**15D1/B/E27**	**91522**	1,000	45	71	1/10/50



Crown Mirror - Silver Ball

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
25	230	E14	**25D1/SB/E14**	**19796**	160	1,000	45	74	G	1/10/100
60	230	E27	**60A1/SB/E27**	**91131**	500	1,000	60	104.5	G	1/10/50

*Product only available OUTSIDE the EU.

Incandescent Lamps

Spherical T45 - Softlight

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Softlight	**40**	230	E14	**40T45/SL/E14**	**90562***	350	1,000	45	74	F	1/10/50
Softlight	**60**	230	E14	**60T45/SL/E14**	**91952***	600	1,000	45	74	F	1/10/50

Candle - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
40	120-125	E14	**40C1/CL/E14**	**91674**	440	1,000	35	97	E	1/10/50
60	120-125	E14	**60C1/CL/E14**	**91678**	720	1,000	35	97	E	1/10/50
25	230	E14	**25C1/CL/E14**	**90488**	210	1,000	35	97	E	1/10/50
40	230	E14	**40C1/CL/E14**	**90487**	400	1,000	35	97	E	1/10/50
60	230	E14	**60C1/CL/E14**	**90480**	660	1,000	35	97	E	1/10/50
25	230	E27	**25C1/CL/E27**	**10870**	210	1,000	35	78.5	E	1/10/50
40	230	E27	**40C1/CL/E27**	**10871**	400	1,000	35	78.5	E	1/10/50
60	230	E27	**60C1/CL/E27**	**10873**	660	1,000	35	78.5	E	1/10/50

Candle - Frosted

25	230	E14	**25C1/F/E14**	**91322***	200	1,000	35	97	F	1/10/50
40	230	E14	**40C1/F/E14**	**91323***	400	1,000	35	97	E	1/10/50
60	230	E14	**60C1/F/E14**	**91534***	660	1,000	35	97	E	1/10/50
25	240	E14	**25C1/FR/E14**	**91680***	200	1,000	35	97	F	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

Candle - Opal

25	230	E14	**25C1/SL/E14**	**90483***	180	1,000	35	97	F	1/10/50
40	230	E14	**40C1/SL/E14**	**90482***	360	1,000	35	97	F	1/10/50
60	230	E14	**60C1/SL/E14**	**90481***	600	1,000	35	97	F	1/10/50
25	230	E27	**25C1/O/E27**	**10875***	180	1,000	35	78.5	F	1/10/50
40	230	E27	**40C1/O/E27**	**10877***	360	1,000	35	78.5	F	1/10/50
60	230	E27	**60C1/O/E27**	**10878***	600	1,000	35	78.5	F	1/10/50

Décor Candle - Twisted Clear

15	230	E14	**15TC1/CL/E14**	**10823**	100	1,000	35	97	E	1/10/50
25	230	E14	**25TC1/CL/E14**	**10826**	210	1,000	35	97	E	1/10/50
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

Décor Candle - Twisted Frosted

25	230	E14	**25TC1/F/E14**	**10831***	200	1,000	35	97	F	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

*Product only available OUTSIDE the EU.

Décor Candle - Bent-tip Frosted

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
25	230	E14	**25C1/BT/FR/E14**	**27148***	200	1,000	35	120	F	1/25
40	230	E14	**40C1/BT/FR/E14**	**27151***	400	1,000	35	120	E	1/25
60	240	E14	**60C1BT/FR/E14**	**27176***	660	1,000	35	120	E	2/12

Décor Candle - Bent-tip Clear

40	240	B22	**40C1BT/CL/B22**	**27158**	400	1,000	35	116	E	2/12
40	240	B15	**40C1BT/CL/B15**	**27160**	400	1,000	35	120	E	2/12
40	240	E14	**40C1BT/CL/E14**	**27190**	400	1,000	35	120	E	2/12
60	240	B22	**60C1BT/CL/B22**	**27162**	660	1,000	35	116	E	2/12
60	240	B15	**60C1BT/CL/B15**	**27164**	660	1,000	35	120	E	2/12
60	240	E14	**60C1BT/CL/E14**	**27192**	660	1,000	35	120	E	2/12

Reflector - R39

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
25	230	E14	**25R39/E14**	**91523**	65	80	1,000	39	64	1/10/100
30	230	E14	**30R39/E14**	**91524**	80	80	1,000	39	64	1/10/100

Reflector - R50

25	230	E14	**25R50/E14**	**92373**	200	35	1,000	50	86	1/10/50
40	230	E14	**40R50/E14**	**92366**	300	35	1,000	50	86	1/10/50
60	230	E14	**60R50/E14**	**91327**	600	35	1,000	50	86	1/10/50

Reflector - R63

40	230	E27	**40R63/E27**	**91079**	250	35	1,000	63.5	101	1/10/40
60	230	E27	**60R63/E27**	**91080**	410	35	1,000	63.5	101	1/10/40

Reflector - R80

40	230	E27	**40R80S/E27**	**92858**	200	35	1,000	80	121	1/10
60	230	E27	**60R80S/E27**	**92839**	450	35	1,000	80	121	1/10
75	230	E27	**75R80S/E27**	**92859**	600	35	1,000	80	121	1/10
100	230	E27	**100R80S/E27**	**92860**	800	35	1,000	80	121	1/10

Reflector - R95

75	230	E27	**75R95/E27**	**91351**	1000	35	1,000	95	129	1/32
100	230	E27	**100R95/E27**	**91366**	1350	35	1,000	95	129	1/32
150	230	E27	**150R95/E27**	**91367**	2250	35	1,000	95	129	1/32

*Product only available OUTSIDE the EU.

Incandescent Lamps

Enrich Reflector - R50

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
40	230	E14	**40R50/NEO/E14**	**91393**	1,000	50	86	1/25

Enrich Reflector - R63

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
60	230	E27	**60R63/E27**	**91340**	1,000	63.5	101	1/25

Enrich Reflector - R80

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
60	230	E27	**60R80/E27**	**91344**	1,000	80	121	1/20
100	230	E27	**100R80/E27**	**91345**	1,000	80	121	1/20

Pluslife Reflector - R63

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
40	240	E27	**40R63/PL/E27**	**47978**	225	35	3,500	63.5	101	1/10
60	240	E27	**60R63/PL/E27**	**42831**	380	35	3,500	63.5	101	1/10

Pluslife Reflector - R80

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
60	240	E27	**60R80/PL/E27**	**42830**	350	35	3,500	80	121	1/10
100	240	E27	**100R80/PL/E27**	**42837**	700	35	3,500	80	121	1/10

PAR 38 Watt-Miser - Spot

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
80	230	E27	**80PAR/WMISER/SP/E27**	**91577**	5400	12	2,000	122	136	1/12
120	230	E27	**120PAR/WMISER/SP/E27**	**91576**	9300	12	2,000	122	136	1/12

PAR 38 Watt-Miser - Flood

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Angle [°]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
60	230	E27	**60PAR/WMISER/FL/E27**	**91575**	1200	30	2,000	122	136	1/12
80	230	E27	**80PAR/WMISER/FL/E27**	**91574**	1800	30	2,000	122	136	1/12
120	230	E27	**120PAR/WMISER/FL/E27**	**91573**	3100	30	2,000	122	136	1/12

Infrared PAR 38

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
100	240	E27	**100PAR/FL/IR/E27**	**92060**	5,000	122	136	1/10
175	240	E27	**175PAR/IR/E27**	**91542**	5,000	122	136	1/10

Infrared Reflector - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
150	230-240	E27	**150R/IR/CL/E27**	**28720**	5,000	125	170	1/9
250	230-240	E27	**250R/IR/CL/E27**	**28724**	5,000	125	170	1/9
275	230-240	E27	**275R/IR/CL/E27**	**32569**	5,000	125	170	1/9

Infrared Reflector - Red Front

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
150	240	E27	**150R/IR/R/E27**	**91372**	5,000	125	170	1/10
250	240	E27	**250R/IR/R/E27**	**91391**	5,000	125	170	1/10

Infrared Reflector - Satin

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
150	240	E27	**150/IR/F/E27**	**91288**	5,000	125	170	1/10
250	240	E27	**250R/IR/F/E27**	**91390**	5,000	125	170	1/10
275	230-240	E27	**275R/IR/SA/E27**	**32296**	5,000	125	170	1/9

Coloured Reflector - R50

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**40**	230	E14	**40R50/R/E14**	**91386**	1,000	50	86	1/25
Yellow	**40**	230	E14	**40R50/Y/E14**	**91388**	1,000	50	86	1/25
Green	**40**	230	E14	**40R50/G/E14**	**91389**	1,000	50	86	1/25
Blue	**40**	230	E14	**40R50/B/E14**	**91387**	1,000	50	86	1/25

Coloured Reflector - R63

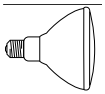
Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**40**	230	E27	**40R63/R/E27**	**91532**	1,000	63.5	101	1/25
Yellow	**40**	230	E27	**40R63/Y/E27**	**91531**	1,000	63.5	101	1/25
Green	**40**	230	E27	**40R63/G/E27**	**91533**	1,000	63.5	101	1/25
Blue	**40**	230	E27	**40R63/B/E27**	**91530**	1,000	63.5	101	1/25

Coloured Reflector - R80

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**60**	230	E27	**60R80/R/E27**	**91528**	1,000	80	121	1/40
Yellow	**60**	230	E27	**60R80/Y/E27**	**91527**	1,000	80	121	1/40
Green	**60**	230	E27	**60R80/G/E27**	**91526**	1,000	80	121	1/40
Blue	**60**	230	E27	**60R80/B/E27**	**91525**	1,000	80	121	1/40

PAR 38 Coloured

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Beam Angle [°]	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Red	**80**	230	E27	**80PAR/WMISER/FL/R/E27**	**91540**	30	2,000	122	136	1/12
Yellow	**80**	230	E27	**80PAR/WMISER/FL/Y/E27**	**91539**	30	2,000	122	136	1/12
Green	**80**	230	E27	**80PAR/WMISER/FL/G/E27**	**91543**	30	2,000	122	136	1/12
Blue	**80**	230	E27	**80PAR/WMISER/FL/B/E27**	**91578**	30	2,000	122	136	1/12



Incandescent Lamps

Pygmy - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
15	110	E14	**15P1/CL/E14**	**31821**	65	1,000	28	60	G	1/50
15	110	B22	**15P1/CL/B22**	**31811**	65	1,000	28	55	G	1/50
15	230	E14	**15P1/CL/E14**	**12512**	90	1,000	28	60	F	1/10/50
25	230	E14	**25P1/CL/E14**	**91955**	190	1,000	28	60	F	1/10/50
15	240	E14	**15P1/CL/E14**	**91950**	85	1,000	26	55	F	1/10/50
25	240	E14	**25P1/CL/E14**	**34420**	190	1,000	28	60	F	1/50

Pygmy - Frosted

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
15	230	E14	**15P1/F/E14**	**92047***	85	1,000	26	55	F	1/10/50
25	230	E14	**25P1/F/E14**	**92048***	190	1,000	28	60	F	1/10/50

Coloured Pygmy

Colour	Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Life [h]	Diameter [mm]	Length [mm]	Pack Qty
Blue	**15**	240	E14	**15P1/B/E14**	**12318**	1,000	28	60	1/50
Green	**15**	240	E14	**15P1/G/E14**	**12587**	1,000	28	60	1/50
Red	**15**	240	E14	**15P1/R/E14**	**12585**	1,000	28	60	1/50
Yellow	**15**	240	E14	**15P1/Y/E14**	**12586**	1,000	28	60	1/50

Pygmy Fridge - Clear

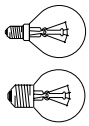
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
15	230	E14	**15P1/CL/E14**	**92046**	85	1,000	26	55	F	1/10/50
15	230-240	E15	**15P1/CL E14**	**73478**	90	1,000	26	60	F	500
25	230-240	E14	**25P/E14/CL**	**73479**	190	1,000	26	60	F	500

Pygmy Oven - Clear

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
15	230	E14	**15P1/OVEN22/CL/E14**	**12447**	85	1,000	22	48	F	1/50
15	230-240	E14	**15P1/RS/CL/E14**	**93301**	90	1,000	22	60	F	300
25	230	E14	**25P1/OVEN25/CL/E14**	**43381**	160	1,000	25	55	G	1/50
25	230-240	E14	**25P1/OVEN/T25/CL**	**45330**	190	1,000	25	60	F	250

*Product only available OUTSIDE the EU.

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Diameter [mm]	Length [mm]	EEC	Pack Qty
Spherical Oven - Clear										
25	230	E27	**25D1/CL/E27**	**12513**	140	300	45	71	G	1/10/100
40	230	E14	**40D1/CL/E14**	**12462**	320	300	45	74	F	1/10/50
40	230	E27	**40D1/CL/E27**	**12515**	320	300	45	71	F	1/10/100
Tubular T25 - Clear										
15	230	E14	**15T25/CL/E14**	**13118**	100	1,000	25	67.5	E	1/50
25	230	E14	**25T25/CL/E14**	**13119**	210	1,000	25	67.5	E	1/50
Tubular T28 - Clear										
25	230	E14	**25T28/CL/E14**	**13109**	210	1,000	29	93.5	E	1/50
40	230	E14	**40T28/CL/E14**	**13110**	400	1,000	29	93.5	E	1/50
60	230	E14	**60T28/CL/E14**	**13111**	660	1,000	29	93.5	E	1/50
Linear Incandescent - Opal										
35	230	S14s	**35SL/O/300/2S14**	**91487**	220	2,500	30	300	G	1/25
60	230	S14s	**60SL/O/500/2S14**	**91488**	420	2,500	30	500	G	1/25
35	230	S14d	**35SL/O/300/S14**	**91505**	220	2,500	30	300	G	1/25
60	230	S14d	**60SL/O/500/S14**	**91486**	420	2,500	30	500	G	1/25



GE SHOWBIZ™ lamps – performance tested, performance proven.

GE is a full line supplier to the entertainment industry offering a range of lamp technologies for use in applications including stage, studio, film and event lighting.

This section details the current range available, however as GE continues its pioneering work in the development of new and innovative light sources some new lamps may not appear.

Discharge Lamps

- Full range of single and double ended lamps
- Wattages from 125 to 24,000 Watts
- UV control lamps with easy identifiable blue base
- Reliable compact double ended range for both film and event lighting
- Cold start lamps for event lighting
- Cinema fluorescent for studio and film

PAR Lamps

- GE PAR lamps for all events
- Robust, flexible lighting solution
- Extensive range from PAR36 to PAR64
- European made 1000W PAR64 (CP60, CP61 & CP62)

Single Ended Studio Halogen Lamps

- Extensive range of Quartzline® lamps
- Full range up to 24,000 Watts
- Range of bases to meet the needs of OEM's
- Chromised seal protection to 500° C

Linear Halogen Lamps

- A range from 650 to 2,000W

CSR TAL Lamps

New **'Turn And Lock'** Technology for Easier Lamp Installation

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.

These products offer a very short arc gap which allow for higher beam intensity. This enables good system performance, colour stability and superior lumen maintenance over life. A range of power options are available to meet the needs of fixture designers.

Key benefits

- **Easy release base (Turn And Lock) enabling quick lamp change at events**
- **High lumen output**
- **Range**
  - **CSR 1500/TAL PGJX50**
  - **CSR 700/TAL PGJX50**
  - **CSR700/TAL PGJX28**
  - **CSR 300/TAL PGJX28**
- **Outstanding beam performance**

SHOWBIZ®
for stage, studio, film and event lighting

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.

Additional parameters:

LIF Code: common lamp ID within Europe
ANSI Code: common lamp ID within North America

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

Cap:
The type of cap fitted. See page 134-135 for cap drawings

Product description:
The lamp's identification code

Lumens:
Initial amount of light output

Operating position:
U - Universal
HOR - Horizontal
VBD - Vertical Base Down
BDTH - Base Down to Horizontal
BDTHCH - Base Down to Horizontal with filament coil axis horizontal
BD45 - within 45° of vertical base down

Length:
Lamp length in mm

Discharge - Single Ended Hot Restrike

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
125	80	GZX9.5	**CSR125/SE/HR**	**48461**	9,400	5600	U	200	75	10
200	80	GZY9.5	**CSR200/SE/HR**	**48462**	15,000	5600	U	200	80	10
400	70	GZZ9.5	**CSR400/SE/HR**	**21853**	32,000	5900	U	750	110	10

CSR125 / SE / HR

(CSR) High Intensity Discharge lamp brand name code

(125) Identifies the lamp's wattage

Identifies the lamp as single ended

Hot Restrike

Volts:
Lamp data is based on operating voltage

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

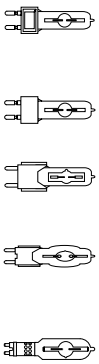
CCT [K]:
Colour Temperature - Kelvins
A measure of the visual "warmth" or "coolness" of the light from the lamp. The higher the value the whiter or "cooler" the light appears

Life:
Rated average life

Pack quantity:
Number of product units packed in a case

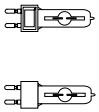
Discharge - Single Ended Hot Restrike

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
125	80	GZX9.5	**CSR125/SE/HR**	**48461**	9,800	5400	U	200	75	10
200	70	GZY9.5	**CSR200/SE/HR/UV-C**	**48462**	17,500	5600	U	200	80	10
400	70	GZZ9.5	**CSR400/SE/HR/UV-C**	**21853**	32,000	6000	U	750	110	10
400	70	GZZ9.5	**CSR400/SE/HR/75**	**45238**	28,000	7500	U	750	110	10
575	95	G22	**CSR575/SE/HR**	**48463**	50,000	5600	U	750	145	10
575	95	G22	**CSR575/SE/HR/UV-C**	**40460**	48,000	5600	U	750	145	10
800	95	G22	**CSR800/SE/HR/UV-C**	**22495**	64,000	5600	U	750	145	6
1200	100	G38	**CSR1200/SE/HR**	**48464**	105,000	5600	U	750	200	6
1200	100	G38	**CSR1200/SE/HR/UV-C**	**27764**	110,000	5600	U	750	200	6
1800	140	G38	**CSR1800/SE/HR/UV-C**	**77390**	165,000	6000	U	750	200	4
2500	115	G38	**CSR2500/SE/HR**	**48465**	220,000	6000	U	500	240	6
2500	115	G38	**CSR2500/SE/HR/UV-C**	**40482**	220,000	5600	U	500	240	6
4000	200	G38	**CSR4000/SE/HR**	**48466**	370,000	6000	U	500	260	6
4000	200	G38	**CSR4000/SE/HR/UV-C**	**27765**	380,000	5600	U	500	260	6
6000	130	G38	**CSR6000/SE/HR**	**48467**	540,000	5900	U	300	360	6
6000	130	G38	**CSR6000/SE/HR/UV-C**	**40492**	540,000	5600	U	300	360	6
12000	160	G38	**CSR12000/SE/HR**	**48468**	1,100,000	6000	U	250	450	4
18000	225	G51	**CSR18000/SE/HR**	**22496**	1,650,000	6000	U	250	470	1



Discharge - Single Ended Cold Start

250	94	GY9.5	**CSD250/2/SE**	**27817**	17,700	9000	U	3,000	108	10
250	94	GY9.5	**CSD250/2/SE BULK**	**21328**	17,700	9000	U	3,000	108	100
575	97	GX9.5	**CSR575/2/T/SE**	**49492**	42,000	7500	U	1,000	125	10
575	97	GX9.5	**CSR575/2/SE**	**15378**	46,000	7200	U	1,000	125	10
700	70	G22	**CSR700/2/SE**	**49491**	55,000	6500	U	1,000	155	10
1200	100	G22	**CSR1200/2/SE**	**49490**	110,000	7000	U	800	175	6

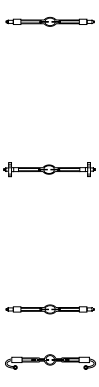


Discharge - CSR Turn and Lock (TAL)

300	95	PGJX28	**CSR300/2/TAL**	**76160**	23,000	7800	U	750	126	4
700	70	PGJX50	**CSR700/TAL/60/PGJX50**	**76161**	59,000	6000	U	750	130	4
700	70	PGJX28	**CSR700/TAL/60/PGJX28**	**78718**	59,000	6000	U	750	130	4
1500	100	PGJX50	**CSR1500/TAL/60/S**	**74873**	TBA	6000	U	750	130	4

Discharge - Double Ended Hot Restrike

200	80	X515	**CSR200/DE**	**48450**	15,000	5600	HOR±15°	300	75	10
400	49	SFc 10-4 Sl/M4	**CSR400/S/DE/90**	**45232**	24,000	9000	U	750	138	10
400	49	SFc 10-4 Sl/M4	**CSR400/S/DE/70**	**22478**	26,000	7000	U	1000	138	10
575	95	SFc 10-4 Sl/M4	**CSR575/DE**	**70979**	40,000	7000	U	750	138	10
575	95	SFc 10-4 Sl/M4	**CSR575/DE/70 BULK**	**70978**	40,000	7000	U	750	138	100
575	100	SFc 10-4 Sl/M4	**CSR575/SS/DE/75**	**45231**	44,000	7500	HOR±15°	500	92	10
700	70	SFc 10-4 Sl/M4	**CSR700/S/DE/60**	**22493**	59,000	6000	U	750	138	10
700	70	SFc 10-4 Sl/M4	**CSR700/S/DE/72**	**41357**	51,000	7200	U	750	138	10
1200	100	SFc 10-4 Sl/M4	**CSR1200S/DE/60**	**22494**	110,000	6000	U	750	138	10
1200	100	SFc 10-4 Sl/M4	**CSR1200/S/DE/60/STB**	**96802**	105,000	6000	U	750	135	10
1500	115	SFc 10-4 Sl/M4	**CSR1500/S/DE/STB**	**96800**	132,000	6000	HOR±15°	500	138	10
1200	100	SFc 10-5-6 Sl/M6	**CSR1200/DE**	**48453**	110,000	6000	HOR±15°	750	220	10
2500	115	SFa21-12	**CSR2500/DE**	**48454**	240,000	6000	HOR±15°	500	355	6
4000	200	SFa21-12	**CSR4000/DE**	**48455**	400,000	6000	HOR±15°	500	405	6
6000	125	25X51 Cyl 165mm	**CSR6000/DE**	**48456**	570,000	6000	HOR±15°	300	450	10
12000	160	30x70 Cyl 165mm	**CSR12000/DE**	**48457**	1,100,000	6000	HOR±15°	300	470	10
18000	225	30x70 Cyl 165mm	**CSR18000/DE**	**48459**	1,650,000	5600	HOR±15°	500	500	4
24000	270	30x70 Cyl 165mm	**CSR24000/DE**	**78710**	2,300,000	6000	HOR±15°	500	500	1



SHOWBIZ™ Lamps

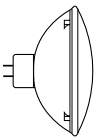
Discharge - Short Arc

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
700	70	GY9.5	**CSR700SA**	**15380**	58,000	6200	U	500	85	10
700	70	GY9.5	**CSR700SA/72**	**45234**	58,000	7200	U	500	85	10
1200	100	GY22	**CSR1200SA**	**21849**	100,000	5800	U	750	135	6
1800	100	GY22	**CSR2000SA**	**21801**	155,000	6000	U	750	135	6

ConstantColor™ - CMH Single Ended GX9.5

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
400	135	GX9.5	**CMH400/932/GX9.5**	**73579**	40,000	3200	U	5,000	135	4
400	135	GX9.5	**CMH400/941/GX9.5**	**73580**	40,000	4100	U	5,000	135	4

ConstantColor™ CMH - PAR64

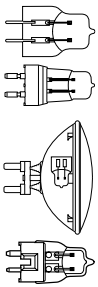


Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
150	95	GX16d	**CMH150/PAR64/830/GX16d/SP**	**88545**	154,000	Narrow	9x9	4x4	3000	U	8,000	152	6
150	95	GX16d	**CMH150/PAR64/830/GX16d/MFL**	**88537**	47,000	Medium	18x15	13x11	3000	U	8,000	152	6
150	95	GX16d	**CMH150/PAR64/830/GX16d/WFL**	**16960**	16,000	WFL	62x36	46x23	3000	U	3,000	152	6
150	100	GX16d	**CMH150/PAR64/942/GX16d/SP**	**88543**	154,000	Narrow	9x9	4x4	4200	U	8,000	152	6
150	100	GX16d	**CMH150/PAR64/942/GX16d/MFL**	**88542**	47,000	Medium	18x15	13x11	4200	U	8,000	152	6
150	100	GX16d	**CMH150/PAR64/942/GX16d/WFL**	**88541**	16,000	Wide	25x20	18x15	4200	U	8,000	152	6

CSS

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
140	85	GY9.5	**CSS150/850/GY9.5**	**88485**	10,000	5000	VBD±90	1,000	48	10

CSI/CID



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
400	100	Special	**99-0201 CSI**	**88495**	32,000	-	-	4000±400	VBD±90	500	55	1
1000	77	G22	**99-0221 CSI**	**88494**	90,000	-	-	4000±400	VBD±90	500	115	1
1000	77	G38	**99-1222 CSI CS**	**88514**	1,350,000	18	6	3800±500	U	3,500	80	1
1000	77	G38	**99-1422 CSI HR**	**88513**	1,350,000	18	6	3800±500	U	3,500	80	1
1000	77	G22	**99-0222 CID**	**88493**	70,000	-	-	5500±400	BDTH	500	115	1

Cinema Studio Biax™

Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
55	2G11-4 Pin	**F55BX/StudioBiax32**	**41869**	4,100	3200	U	8,000	55	10
55	2G11-4 Pin	**F55BX/StudioBiax56**	**41873**	4,100	5600	U	8,000	55	10

Cinema Plus Biax™

Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
55	2G11-4 Pin	**F55BX/CINPLUS/32**	**41903**	2,400	3200	U	2,000	55	10
55	2G11-4 Pin	**F55BX/CINPLUS/55**	**41911**	2,400	5600	U	2,000	55	10

Cinema T8

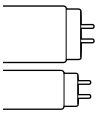
Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
28	G-13 Med BiPin	**F24T8CINEMA32/CVG**	**72658**	1,250	3200	U	2,000	600	26	24
28	G-13 Med BiPin	**F24T8CINEMA55/CVG**	**72659**	1,200	5500	U	2,000	600	26	24
55	G-13 Med BiPin	**F48T8/Cinema32/CVG**	**81207**	2,750	3200	U	2,000	1200	26	24
55	G-13 Med BiPin	**F48T8/Cinema55/CVG**	**81208**	2,750	5500	U	2,000	1200	26	24

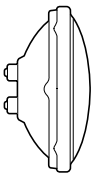
Cinema T12

Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
35	G-13 Med BiPin	**F20T12/CINEMA32/HO/CVG**	**15775**	1,130	3200	U	2,000	600	38	24
35	G-13 Med BiPin	**F20T12/CINEMA55/HO/CVG**	**15776**	1,100	5500	U	2,000	600	38	24
75	G-13 Med BiPin	**F40T12/CINEMA32/HO/CVG**	**15782**	2,900	3200	U	2,000	1200	38	30
75	G-13 Med BiPin	**F40T12/CINEMA55/HO/CVG**	**15783**	2,820	5500	U	2,000	1200	38	30

Blacklight Blue

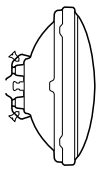
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
20	57	G-13 Med BiPin	**F20T12/BLB**	**34747**	U	9000	600	38	6
40	101	G-13 Med BiPin	**F40T12/BLB**	**25618**	U	20000	1,200	38	6
18	57	G-13 Med BiPin	**F18T8/BLB**	**88832**	U	12,000	600	26	25
36	103	G-13 Med BiPin	**F36T8/BLB**	**88833**	U	12,000	1200	26	25

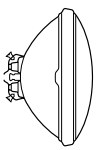




PAR 36

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	ANSI Code	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
650	120	Ferrule	**FCX**	**41673**	FCX	24,000	MFL	-	40 X 30	3200	HOR±15°	100	69.8	114.3	12
25	5.5	Scr. Term.	**25PAR36**	**14553**	-	30,000	VNSP	-	5 x 5	3000	U	1,000	69.8	114.3	12
25	12	Scr. Term.	**25PAR36/WFL**	**14555**	-	500	WFL	49 x 41	37 x 26	-	U	2,000	69.8	114.3	12
30	12.8	Scr. Term.	**4405**	**24425**	-	50,000	VNSP	6 x 5	-	-	U	100	69.8	114.3	12
30	6.2	Scr. Term.	**4511**	**24663**	-	2,300	-	-	-	-	U	300	69.8	114.3	12
30	6.4	Scr. Term.	**H4515**	**15133**	-	67,000	VNSP	5.5 x 4	-	-	U	100	69.8	114.3	12
30	6.4	Scr. Term.	**4515**	**24673**	-	55,000	VNSP	5 x 5	-	-	U	100	69.8	114.3	12
50	12.8	Scr. Term.	**H7604**	**43576**	-	100,000	NSP	7 x 5	-	-	U	100	69.8	114.3	12
50	12	Scr. Term.	**50PAR36/VNSP**	**12892**	-	25,000	VNSP	-	6 x 6	-	U	2,000	69.8	114.3	12
50	12	Scr. Term.	**50PAR36/NSP**	**16540**	-	9,200	NSP	-	10 x 10	-	U	2,000	69.8	114.3	12
50	12	Scr. Term.	**50PAR36/WFL**	**16541**	-	1,300	WFL	48 x 41	36 x 28	-	U	2,000	69.8	114.3	12
50	12	Scr. Term.	**50PAR36/WFL/H**	**19880**	-	1,300	WFL	-	30 x 30	3050	U	4,000	69.8	114.3	12
50	12	Scr. Term.	**50PAR36/VWFL**	**16542**	-	600	VWFL	-	55 x 55	-	U	2,000	69.8	114.3	12
50	28	Scr. Term.	**4502**	**24627**	-	10,000	WFL	40 x 7	-	-	U	400	69.8	114.3	12
50	28	Scr. Term.	**4505**	**24640**	-	45,000	NSP	11 x 5	-	-	U	400	69.8	114.3	12
100	13	Scr. Term.	**4509**	**24650**	-	110,000	NSP	12 x 6	-	-	U	25	69.8	114.3	12
100	13	Scr. Term.	**4509X**	**41503**	-	110,000	NSP	12 x 6	-	-	U	25	69.8	114.3	12
50	28	Scr. Term.	**4593**	**24887**	-	1,500	VWFL	80 x 30	-	-	U	400	69.8	114.3	12
100	28	Scr. Term.	**4594**	**24891**	-	70,000	NSP	13 x 7	-	-	U	300	69.8	114.3	12
150	28	Scr. Term.	**4626**	**24964**	-	25,000	WFL	40 x 9	-	-	U	300	69.8	114.3	12
100	28	Scr. Term.	**4627**	**24966**	-	3,000	VWFL	80 x 30	-	-	U	300	69.8	114.3	12
250	28	Scr. Term.	**4587**	**24867**	-	4,000	WFL	40 x 13	-	-	U	25	69.8	114.3	12
250	28	Scr. Term.	**4596**	**24898**	-	150,000	NSP	11 x 12	-	3000	U	25	69.8	114.3	12
650	120	Scr. Term.	**DWE**	**41667**	DWE	24,000	MFL	-	40 X 30	3200	HOR±15°	100	69.8	114.3	12
650	120	Scr. Term.	**FBO**	**41671**	FBO	75,000	SP	-	25 X 15	3400	HOR±15°	30	69.8	114.3	12



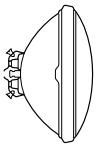


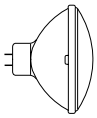
PAR 46

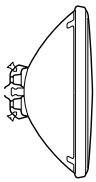
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Type	Beam 50%	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
50	12.8	Scr. Term	**H7635**	**43591**	160,000	VNSP	6.5 x 4	U	100	95.2	146	12
100	13	Scr. Term	**4537-2**	**40822**	200,000	SP	11 x 6	U	25	95.2	146	12
250	28	Scr. Term	**4553**	**24799**	300,000	SP	11 x 12	U	25	95.2	146	12
450	28	Scr. Term	**4580**	**24859**	400,000	SP	13 x 14	U	10	95.2	146	12
450	28	Scr. Term	**4581**	**24862**	400,000	SP	13 x 14	U	10	95.2	146	12
450	28	Scr. Term	**Q4554**	**37706**	65,000	WFL	50 x 11	U	100	95.2	146	12
450	28	Scr. Term	**Q4681**	**36271**	310,000	SP	15 x 9	U	50	95.2	146	12

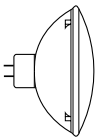
PAR 56

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
100	12	Scr. Term	**4545**	**24768**	225,000	NSP	-	9 x 5	-	U	100	127	177.8	12
120	12	Scr. Term	**120PAR56/MFL**	**19024**	19,000	MFL	18 x 9	29 x 15	-	U	2,000	127	177.8	12
120	12	Scr. Term	**120PAR56/WFL**	**19025**	5,625	WFL	35 x 18	50 x 25	-	U	2,000	127	177.8	12
200	30	Scr. Term	**200PAR**	**20122**	270,000	SP	-	9 x 9	-	U	350	127	177.8	12
240	12	Scr. Term	**240PAR56/VNSP**	**20575**	140,000	VNSP	9 x 6	7 x 10	-	U	2,000	127	177.8	12
240	12	Scr. Term	**240PAR56/WFL**	**20577**	13,000	WFL	35 x 18	50 x 27	-	U	2,000	127	177.8	12
300	12	Scr. Term	**300PAR56/WFL**	**23427**	NA	WFL	-	-	-	U	1,000	127	177.8	12
300	120	Mog End Pr GX16d	**300PAR56/NSP**	**20803**	68,000	NSP	10 x 8	20 x 14	2750	U	2,000	127	177.8	12
300	120	Mog End Pr GX16d	**300PAR56/MFL**	**20836**	24,000	MFL	23 x 11	34 x 19	2750	U	2,000	127	177.8	12
300	120	Mog End Pr GX16d	**300PAR56/WFL**	**20849**	11,000	WFL	37 x 18	57 x 27	2750	U	2,000	127	177.8	12
300	230	ExMogEndPr GX16d	**300PAR56/NSP**	**20853**	40,000	NSP	-	-	-	U	2,000	127	177.8	12
300	230	ExMogEndPr GX16d	**300PAR56/MFL**	**20852**	30,000	MFL	-	-	-	U	2,000	127	177.8	12
300	230	ExMogEndPr GX16d	**300PAR56/WFL**	**20854**	10,000	WFL	-	-	-	U	2,000	127	177.8	12
300	240	ExMogEndPr GX16d	**300PAR56/NSP**	**18676**	40,000	NSP	-	-	-	U	2,000	127	177.8	12
300	240	ExMogEndPr GX16d	**300PAR56/MFL**	**18677**	30,000	MFL	-	-	-	U	2,000	127	177.8	12
300	240	ExMogEndPr GX16d	**300PAR56/WFL**	**18678**	10,000	WFL	-	-	-	U	2,000	127	177.8	12
500	120	Mog End Pr GX16d	**Q500PAR56/NSP**	**43494**	96,000	NSP	13 x 8	32 x 15	2950	U	4,000	127	177.8	6
500	120	Mog End Pr GX16d	**Q500PAR56/MFL**	**43495**	43,000	MFL	26 x 10	42 x 20	2950	U	4,000	127	177.8	6
500	120	Mog End Pr GX16d	**Q500PAR56/WFL**	**43496**	19,000	WFL	44 x 20	66 x 34	2950	U	4,000	127	177.8	6







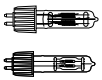


PAR 64

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	LIF Code	ANSI Code	Candela [cd]	Beam Type	Beam 10%	Beam 50%	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
250	28	Scr. Term	**4552**	**40576**	-	-	500,000	SP	-	7 X 8	-	U	25	152.4	203.2	12
600	28	Scr. Term	**4559**	**40578**	-	-	600,000	SP	-	11 X 12	-	U	25	152.4	203.2	12
600	28	Scr. Term	**Q4559**	**40579**	-	-	600,000	SP	-	12 X 8	-	U	100	152.4	203.2	12
600	28	Scr. Term	**Q4559X**	**42552**	-	-	765,000	SP	11x7.5	-	-	U	100	152.4	203.2	12
500	230	GX16d	**CP86 PAR64/VNSP**	**73581**	CP86	-	240,000	VNSP	16x13	10x7	3200	U	300	152.4	203.2	6
500	240	GX16d	**CP86 PAR64/VNSP**	**99944**	CP86	-	240,000	VNSP	16x13	10x7	3200	U	300	152.4	203.2	6
500	230	GX16d	**CP87 PAR64/NSP**	**25504/99945**	CP87	-	140,000	NSP	19x16	11x9	3200	U	300	152.4	203.2	6
500	240	GX16d	**CP87 PAR64/NSP**	**99946**	CP87	-	140,000	NSP	19x16	11x9	3200	U	300	152.4	203.2	6
500	230	GX16d	**CP88 PAR64/MFL**	**99947**	CP88	-	65,000	MFL	32x19	21x10	3200	U	300	152.4	203.2	6
500	240	GX16d	**CP88 PAR64/MFL**	**99948**	CP88	-	65,000	MFL	32x19	21x10	3200	U	300	152.4	203.2	6
500	230	ExMogEndPr GX16d	**500/PAR64/MFL**	**39411**	-	-	-	MFL	21 X 10	32 x 19	2700	U	2,000	152.4	203.2	12
500	230	ExMogEndPr GX16d	**500/PAR64/W FL**	**39414**	-	-	-	WFL	42 X 20	55 x 32	2700	U	2,000	152.4	203.2	12
1000	230	GX16d	**CP60 EXC SUPER**	**88425**	CP60	-	352,000	VNSP	12x9	20x17	3200	U	300	152.4	203.2	6
1000	240	GX16d	**CP60 EXC SUPER**	**88551**	CP60	-	352,000	VNSP	12x9	20x17	3200	U	300	152.4	203.2	6
1000	230	GX16d	**CP61 EXD SUPER**	**88535**	CP61	-	297,000	NSP	14x10	22x20	3200	U	300	152.4	203.2	6
1000	240	GX16d	**CP61 EXD SUPER**	**88550**	CP61	-	297,000	NSP	14x10	22x20	3200	U	300	152.4	203.2	6
1000	230	GX16d	**CP62 EXE SUPER**	**88549**	CP62	-	138,000	MFL	24x11	38x20	3200	U	300	152.4	203.2	6
1000	240	GX16d	**CP62 EXE SUPER**	**88536**	CP62	-	138,000	MFL	24x11	38x20	3200	U	300	152.4	203.2	6
1000	230	ExMogEndPr GX16d	**CP95**	**88511**	CP95	-	15,000	VWFL	70 X 70	125 x 95	3200	U	300	152.4	203.2	6
1000	240	ExMogEndPr GX16d	**CP95**	**88510**	CP95	-	15,000	VWFL	70 X 70	125 x 95	3200	U	300	152.4	203.2	6
1000	230	ExMogEndPr GX16d	**EXG/PAR64/WFL**	**88480**	-	EXG	38,000	WFL	57 X 21	73 x 36	3200	U	300	152.4	203.2	6
1000	240	ExMogEndPr GX16d	**EXG/PAR64/WFL**	**88479**	-	EXG	38,000	WFL	57 X 21	73 x 36	3200	U	300	152.4	203.2	6
500	120	ExMogEndPr GX16d	**500PAR64/MFL**	**39409**	-	-	37,000	MFL	23 X 11	35 x 19	2800	U	2,000	152.4	203.2	12
1000	120	ExMogEndPr GX16d	**FFN**	**13233**	-	FFN	400,000	VNSP	12 X 6	24 x 10	3200	U	800	152.4	203.2	6
1000	120	ExMogEndPr GX16d	**FFP**	**13229**	-	FFP	330,000	NSP	14 X 7	26 x 14	3200	U	800	152.4	203.2	6
1000	120	ExMogEndPr GX16d	**FFR**	**13228**	-	FFR	125,000	MFL	28 X 12	44 x 21	3200	U	800	152.4	203.2	6
1000	120	ExMogEndPr GX16d	**FFS**	**13227**	-	FFS	40,000	WFL	48 X 24	71 x 45	3200	U	800	152.4	203.2	6
1000	120	ExMogEndPr GX16d	**Q1000PAR64/NSP**	**43497**	NA	NA	200,000	NSP	15 X 8	31 X 14	3000	U	4,000	152.4	203.2	6
1000	120	ExMogEndPr GX16d	**Q1000PAR64/MFL**	**43498**	-	-	80,000	MFL	28 X 12	45 x 22	3000	U	4,000	152.4	203.2	6
1000	120	ExMogEndPr GX16d	**Q1000PAR64/WFL**	**43499**	-	-	33,000	WFL	48 X 24	72 x 45	3000	U	4,000	152.4	203.2	6

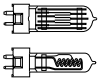
Single Ended Halogen - HPL

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Diameter [mm]	Pack Qty
575	230	G9.5/Heat Sink	**HPL 575**	**88478**	14,900	3200	U	300	106	19	12
575	240	G9.5/Heat Sink	**HPL 575**	**88477**	14,900	3200	U	300	106	19	12
575	120	G9.5/Heat Sink	**HPL 575-C**	**88436**	16,520	3250	U	300	106	19	12
575	115	G9.5/Heat Sink	**HPL 575-C**	**88438**	16,520	3250	U	300	106	19	12
575	230	G9.5/Heat Sink	**HPL 575-X LL**	**88476**	11,780	3050	U	1,500	106	19	12
575	240	G9.5/Heat Sink	**HPL 575-X LL**	**88475**	11,780	3050	U	1,500	106	19	12
575	120	G9.5/Heat Sink	**HPL 575-C LL-X**	**88434**	12,360	3050	U	2,000	106	19	12
575	115	G9.5/Heat Sink	**HPL 575-C LL-X**	**88435**	12,360	3050	U	2,000	106	19	12
750	230	G9.5/Heat Sink	**HPL 750**	**88474**	19,750	3200	U	300	106	19	12
750	240	G9.5/Heat Sink	**HPL 750**	**88473**	19,750	3200	U	300	106	19	12
750	115	G9.5/Heat Sink	**HPL 750-C**	**88437**	22,000	3250	U	300	106	19	12
750	115	G9.5/Heat Sink	**HPL 750-C-XLL**	**88428**	16,400	3050	U	2,000	106	19	12
750	230	G9.5/Heat Sink	**HPL 750-X-LL**	**88430**	15,600	3050	U	1,500	106	19	12
750	240	G9.5/Heat Sink	**HPL 750-X-LL**	**88429**	15,600	3050	U	1,500	106	19	12



Single Ended Halogen

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	LIF Code	ANSI Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
500	120	G9.5	**EHD**	**88624**	-	EHD	10,000	2900	U	2,000	105	24
575	115	G9.5	**FLK**	**88548**	-	FLK	16,500	3200	U	300	105	24
575	115	G9.5	**FLK-LL**	**88452**	-	EHD	10,000	3100	U	2000	105	50
600	230	G9.5	**GKV**	**88448**	-	GKV	14,000	3200	U	250	105	24
600	240	G9.5	**GKV**	**88447**	-	GKV	14,000	3200	U	250	105	24
600	230	G9.5	**GKV/LL**	**88446**	-	GKV	11,000	3000	U	1,500	105	24
600	240	G9.5	**GKV/LL**	**88445**	-	GKV	11,000	3000	U	1,500	105	24
650	230-240	G9.5	**FKR**	**88450**	-	FKR	15,000	3100	U	300	105	24
750	120	G9.5	**EHF**	**88627**	-	EHF	20,000	3200	U	300	105	24
750	120	G9.5	**EHG**	**88626**	-	FLK	16,500	3000	U	300	105	24
800	230-240	G9.5	**HX800**	**88432**	HX800	-	20,000	3200	U	250	105	24
1000	120	G9.5	**FEL**	**88625**	CP77	FEL	27,500	3200	U	300	105	24
1000	230-240	G9.5	**CP77 FEP**	**88449**	CP77	FEP	25,000	3200	U	300	105	24
300	120	GY9.5	**CP81 FKW**	**88443**	CP81	FKW	6,900	3200	BDTH	50	90	24
300	230	GY9.5	**CP81 FSL**	**88433**	CP81	FSL	6,900	3200	BDTH	150	90	24
300	240	GY9.5	**CP81 FSK**	**88444**	CP81	FSK	6,900	3200	BDTH	150	90	24
500	120	GY9.5	**CP82 FRG**	**88467**	CP82	FRG	13,000	3200	BDTH	150	90	24
500	230	GY9.5	**CP82 FRH**	**88466**	CP82	FRH	12,500	3200	BDTH	150	90	24
500	240	GY9.5	**CP82 FRJ**	**88464**	CP82	FRJ	12,500	3200	BDTH	150	90	24
500	230-240	GY9.5	**T18 GCW**	**88465**	T18	GCW	11,000	3050	BDTH	400	90	24
500	230-240	GY9.5	**T25 GCW**	**88470**	T25	GCW	11,000	3000	BDTH	360	90	24
650	230-240	GY9.5	**T27 GCS**	**88469**	T27	GCS	14,500	3050	BDTH	400	90	24
650	230-240	GY9.5	**T26 GCS**	**88463**	T26	GCS	15,500	3100	BDTH	400	90	24
650	120	GY9.5	**CP89 FRK**	**88462**	CP89	-	16,900	3200	BDTH	200	90	24
650	230-240	GY9.5	**CP89 FRM**	**88461**	CP89	FRM	16,250	3200	BDTH	150	90	24
600	120	GY9.5	**FMR**	**88504**	FMR	-	12,600	3050	BDTHCH	2,000	85	24

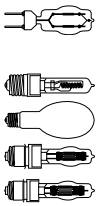


Single Ended Halogen

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	LIF Code	ANSI Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
650	230-240	GX9.5	**T12**	**88431**	T12	-	13,500	3000	BDTH	750	110	12
650	230	GX9.5	**CP23**	**72680**	CP23	-	16,900	3200	BDTH	100	110	12
650	230-240	GX9.5	**CP23**	**88455**	CP23	-	16,900	3200	BDTH	100	110	12
1000	230-240	GX9.5	**CP24**	**88459**	CP24	-	26,000	3200	BDTH	200	110	12
1000	115/120	GX9.5	**T11 Q1000T8/CL**	**88515**	T11	-	23,500	3050	BDTH	750	110	24
1000	240	GX9.5	**T11**	**88456**	T11	-	23,000	3050	BDTH	750	110	12
1000	230-240	GX9.5	**T19 FWR**	**88457**	T19	FWR	21,000	3050	BDTH	750	110	12
1000	230	GX9.5	**CP70 FVA**	**88472**	CP70	FVA	25,000	3200	BDTH	200	110	12
1000	240	GX9.5	**CP70 FVA**	**88471**	CP70	FVB	25,000	3200	BDTH	200	110	12
1200	230-240	GX9.5	**T29 FWT**	**88454**	T29	FWT	29,000	3050	BDTH	400	110	12
1200	230-240	GX9.5	**CP90**	**88453**	CP90	-	33,000	3200	BDTH	200	110	12
2000	230	GY16	**CP43 FTL**	**96735**	CP43	FTM	54,000	3200	BDTH	400	145	12
2000	230-240	GY16	**CP43 FTL**	**88533**	CP43	FTL	54,000	3200	BDTH	400	145	12
2000	230-240	GY16	**CP79**	**88503**	CP79	-	54,000	3200	BDTH	350	145	12
1200	80	G22	**CP110 OC1200**	**88439**	-	-	37,500	3300	BDTH	300	140	12
500	120	G22	**EGN**	**88509**	-	EGN	13,000	3200	BDTH	150	140	12
650	230-240	G22	**CP39 FKH**	**88531**	CP39	FKH	16,900	3200	BDTH	100	140	12
1000	120	G22	**EGT**	**88622**	-	EGT	28,500	3200	BDTH	250	127	12
1000	230	G22	**CP40 FKJ**	**88458**	CP40	FKJ	26,000	3200	BDTH	200	140	12
1000	240	G22	**CP40 FKJ**	**88538**	CP40	FKJ	26,000	3200	BDTH	200	140	12
1200	230-240	G22	**CP93**	**88508**	CP93	-	33,000	3200	BDTH	200	140	12
2000	120	G22	**CP92**	**88507**	CP92	-	55,000	3200	BDTH	400	175	12
2000	230-240	G22	**CP92**	**88506**	CP92	-	52,000	3200	BDTH	400	175	12
2500	230-240	G22	**CP91**	**88505**	CP91	-	67,500	3200	BDTH	400	175	12
500	120	P28s	**EGE**	**88617**	-	EGE	10450	2950	U	2,000	152	12
500	120	P28s	**BTM**	**88546**	-	BTM	13000	3200	BDTH	150	130	12
500	230-240	P28s	**T17 FKF**	**88498**	T17	-	9,500	2950	BDTH	750	130	12
500	230-240	P28s	**T28**	**88451**	T28	-	11,000	3000	BDTH	300	130	12
650	230-240	P28s	**T13 FKB**	**88497**	T13	-	13,500	3000	BDTH	750	130	12
650	240	P28s	**CP51 FKM**	**88530**	CP51	-	16900	3200	BDTH	200	130	12
1000	120	P28s	**EGJ**	**88615**	-	EGJ	27500	3200	U	500	152	12
1000	230-240	P28s	**T14 FKD**	**88529**	T14	-	23,000	3050	BDTH	750	130	12
1000	230-240	P28s	**FKE**	**88499**	T15	FKE	23,000	3050	BDTH	750	160	12
1000	230-240	P28s	**CP52 FKN**	**88496**	CP52	FKN	26,000	3200	BDTH	200	121	12
2000	120	G38	**CYX**	**88610**	HX270	CYX	59000	3200	BDTH	400	216	6
2000	230	G38	**CP41 FKK**	**88489**	CP41	FKK	54,000	3200	BDTH	400	216	12
2000	240	G38	**CP41 FKK**	**88488**	CP41	FKK	54,000	3200	BDTH	400	216	12
2500	230-240	G38	**CP94**	**88502**	CP94	-	67500	3200	BDTH	400	210	12
3000	230-240	G38	**HX48**	**88874**	HX48	-	82000	3200	BDTH	400	210	12
5000	230	G38	**CP29**	**88875**	CP29	-	135000	3200	BDTH	500	279	12
5000	240	G38	**CP29**	**88876**	CP29	-	135,000	3200	BDTH	500	279	12
10000	220-230	G38	**CP83**	**12036**	CP83	-	280,000	3200	BDTH	250	405	1
10000	240	G38	**CP83**	**12037**	CP83	-	280,000	3200	BDTH	250	405	1
12000	230	GX38	**Q12MT26/4CL**	**48771**	-	-	420,000	3400	BD45	130	410	1
12000	240	GX38	**Q12MT26/4CL**	**48779**	-	-	420,000	3400	BD45	130	410	1
20000	230	GX38	**BCM-020MT324CL**	**48773**	-	BCM	580,000	3200	BD45	400	560	1
20000	240	GX38	**BCM-020MT324CL**	**48774**	-	BCM	580,000	3200	BD45	400	560	1
24000	240	GX38	**Q24MT32/4CL**	**48777**	-	-	800,000	3400	BD45	150	560	1

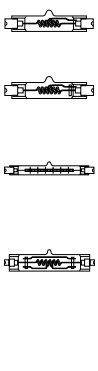
Single Ended Halogen

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	LIF Code	ANSI Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
1250/650	230-240	GX38q	**CP105**	**88880**	CP105	-	27000/13000	3050	BD45	250	220	1
1250/1250	230-240	GX38q	**CP30**	**88877**	CP30	-	27M/56M	3200	BD45	300	220	1
1250/2500	230-240	GX38q	**CP58**	**88878**	CP58	-	27M/91M	3200	BD45	300	220	1
2500/2500	230-240	GX38q	**CP32**	**88879**	CP32	-	5900/127000	3200	BD45	300	220	1
2000	240	R7s	**CP59**	**88512**	FAD	-	16,500	3200	U	100	191	1
1000	120	E39	**DKZ/DSE**	**19926**	-	DSE	28,000	3200	U	750	330	10
1500	120	P40s	**T16**	**88500**	T16	DTA	41000	3200	BDTH	750	180	6
2000	230-240	P40s	**CP53**	**88532**	CP53	-	54,000	3200	BDTH	400	200	12



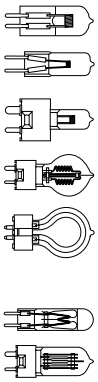
Double Ended Quartzline

650	120	R7s	**FAD**	**30325**	P2/6	FAD	16,500	3200	U	100	80	24
800	230	R7s	**DXX**	**36952**	P2/13	DXX	21,400	3200	U	75	80	24
800	240	R7s	**DXX**	**36953**	P2/13	DXX	21,400	3200	U	75	80	24
1000	120	R7s	**DXW**	**30157**	-	DXW	28,000	3200	U	150	95	24
1000	120	R7s	**FBY**	**30374**	-	FBY	26,000	3200	U	150	95	24
750	120	R7s	**EJG**	**23756**	-	EJG	20,600	3200	HOR±15°	400	119	12
800	240	R7s	**P2/11 EME/Clear**	**23760**	P2/11	EME	22,000	3200	HOR±15°	150	119	12
800	240	R7s	**P2/11 EMF/Frosted**	**23761**	P2/11	EMF	21,400	3200	HOR±15°	150	119	12
1000	120	R7s	**P2/28 FCM**	**23797**	P2/28	FCM	28,000	3200	HOR±15°	400	119	12
2000	230	R7s	**P2/27 FEX**	**88482**	P2/27	FEX	50,000	3200	HOR±15°	300	143	12
2000	240	R7s	**P2/27 FEX**	**88481**	P2/27	FEX	50,000	3200	HOR±15°	300	143	12
2000	120	R7s	**FEY**	**88629**	P2/27	FEY	57,000	3200	HOR±15°	400	143	12
625	230	R7s	**P2/10**	**19697**	P2/10	-	16,900	3200	HOR±15°	300	189	12
625	240	R7s	**P2/10**	**19698**	P2/10	-	16,900	3200	HOR±15°	300	189	12
1000	230	R7s	**P2/7 EKM**	**20249**	P2/7	EKM	28,000	3200	HOR±15°	300	189	12
1000	240	R7s	**P2/7 EKM**	**20253**	P2/7	EKM	28,000	3200	HOR±15°	300	189	12
1250	230	R7s	**P2/12**	**19695**	P2/12	-	35,000	3200	HOR±15°	300	189	12
1250	240	R7s	**P2/12**	**19696**	P2/12	-	35,000	3200	HOR±15°	300	189	12

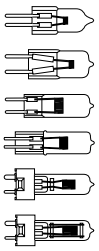


Specialist Projector

30	10.8	G5.3	**DZA**	**37346**	-	DZA	530	3100	BDTHCH	400	51	24
50	12	G6.35	**BRL A1/220**	**18234**	A1/220	BRL	1,400	3400	BDTH	50	44	100
100	12	GY6.35	**FCR A1/215**	**14876**	A1/215	FCR	3,500	3300	BDTH	50	44	100
150	15	G6.35	**BRJ/EVB A1/234**	**18235**	A1/234	BRJ/EVB	5,000	3400	BDTH	50	44	100
150	24	GZ9.5	**DZE/FDS A1/262**	**37695**	A1/262	DZE/FDS	5,000	3250	BDTH	100	68	24
150	24	G6.35	**FCS A1/216**	**13598**	A1/216	FCS	4,500	3300	BDTH	50	51	100
250	24	G6.35	**EHJ A1/223**	**14874**	A1/223	EHJ	9,000	3400	BDTH	50	57	100
275	24	G6.35	**FNT**	**18241**	–	FNT	10,000	3400	BDTH	50	57	100
400	36	GY6.35	**EVD A1/239**	**41164**	A1/239	EVD	16,000	3200	BDTH	50	60	25
650	240	GZ9.5	**DYR A1/233**	**26895**	A1/233	DYR	16,500	3200	U	50	64	24
800	230-240	GX9.5	**HX185**	**88484**	HX185	-	19,000	3050	BDTH	300	100	24
150	230-240	G6.35	**A1/248**	**88492**	A1/248	-	3,000	NA	BDTH	50	62	50
300	230-240	G6.35	**A1/249**	**88491**	A1/249	-	7,200	NA	BDTH	50	62	50
500	230-240	GY9.5	**A1/244**	**88460**	A1/244	-	13,000	NA	BDTH	75	62	24

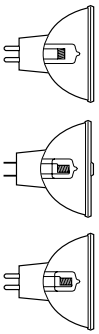


Single Ended Tungsten Halogen



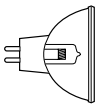
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	LIF Code	Lumen [lm]	CCT [K]	Operating position	Life [h]	Length [mm]	Pack Qty
10	6	G4	**M29/ESA**	**34720**	M29/ESA	200	3200	BDTH	100	30	20
20	6	G4	**M30/ESB**	**34718**	M30/ESB	450	3200	BDTH	100	30	20
50	12	GY6.35	**M32**	**34702**	M32	930	3000	BDTH	4,000	44	20
100	12	GY6.35	**M28/EVA**	**34676**	M28/EVA	2,400	3000	BDTH	2,000	44	20
250	24	G6.35	**M33**	**34768**	M33	8,600	3000	BDTH	300	55	100
250	24	G6.35	**M36**	**88516**	M36	5,750	3000	BDTH	2,000	58	100
300	230-240	GY9.5	**M38**	**88442**	M38	5,000	2900	BDTH	2,000	80	24
300	120	GY9.5	**M38**	**78343**	M38	TBA	2900	BDTH	2,000	80	24
500	230-240	GY9.5	**M40**	**88468**	M40	8,500	2900	BDTH	2,000	85	24

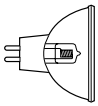
Multi-Mirror® Quartzline® Projection - MR16



Wattage [W]	Volts [V]	Cap	Product Description	Product Code	LIF Code	ANSI Code	CCT [K]	Operating position	Life [h]	Pack Qty
30	10.8	GX5.3	**EKZ**	**36902**	–	EKZ	3100	BDTH	200	20
80	21	GX5.3	**DDS**	**43988**	–	DDS	3125	BDTH	1000	20
85	13.8	GX5.3	**DED**	**43950**	–	DED	3150	BDTH	1000	20
150	20	GX5.3	**DDL**	**43537**	–	DDL	3150	BDTH	500	20
150	21	GX5.3	**ELD/EJN**	**38306**	–	ELD/EJN	3350	BDTH	40	20
150	21	GX5.3	**EKE**	**35200**	–	EKE	3250	BDTH	200	20
200	24	GX5.3	**EJL A1/252**	**29150**	A1/252	EJL	3400	BDTH	50	20
250	24	GX5.3	**ELC A1/259**	**37462**	A1/259	ELC	3400	BDTH	50	20
250	24	GY5.3	**ELC500**	**15377**	–	ELC500	3250	BDTH	500	20
250	120	GY5.3	**ENH**	**38686**	–	ENH	3250	BDTH	175	20
300	120	GY5.3	**ELH**	**38476**	–	ELH	3350	BDTH	35	10
150	21	GX5.3	**EJA**	**32882**	–	EJA	3350	BDTH	40	20

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	ANSI Code	CCT [K]	Operating position	Life [h]	Pack Qty
Multi-Mirror® Quartzline® Projection - MR16									
42	10.8	GX5.3	**EPT**	**41729**	EPT	2900	BDTH	8000	20
50	12	GX5.3	**ENL**	**25475**	ENL	3050	BDTH	4000	20
90	14.5	GX5.3	**EPV**	**41882**	EPV	3150	BDTH	500	20
90	14.5	GX5.3	**EPX**	**42614**	EPX	3150	BDTH	500	20
340	36	GX5.3	**ERV**	**41874**	ERV	3300	BDTH	75	20
360	82	GY5.3	**ENX**	**41705**	ENX	3300	BDTH	75	20
410	82	GY5.3	**FXL**	**21613**	FXL	3300	BDTH	38	20
Multi-Mirror® Quartzline® Projection - MR11									
28	13.8	GZ4	**FLT**	**25261**	FLT	3050	BDTH	500	10
Multi-Mirror® Quartzline® Projection - MR13									
250	82	GX5.3	**EXY**	**12097**	EXY	3200	BDTH	200	10
300	82	GX5.3	**EXR**	**12092**	EXR	3350	BDTH	35	10





SHOWBIZ™ Lamps

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
Discharge CSR/CSD (Daylight) Metal Halide, Turn and Lock	**GE Product Code**		
CSR300/2/TAL	76160	-	MSR 300/2 MiniFastFit
CSD300/2/TAL	TBA	HSD300W/80/P28	MSD 300/2 MiniFastFit
CSR700/TAL/60/PGJX50	76161	HTI 700W/75/P50	MSR 700 FastFit
CSR700/TAL/60/PGJX28	78718	HTI 700W/75/P28	MSR 700/2 MiniFastFit
CSR1500/TAL/60/S	74873	HTI 1500W/60/P50	MSR 1500 FastFit
Discharge CSR/CSD (Daylight) Metal Halide, Single End Cold Start			
CSD250/2/SE	27817	HSD250/80	MSD250/2
CSR575/2/T/SE	49492	-	-
CSR575/2/SE	15378	HSR575/2	MSR575/2
CSR700/2/SE	49491	HSR700/2	MSR700/2
CSR1200/2/SE	49490	HSR1200/2	MSR1200/2
Discharge CSR (Daylight) Metal Halide, Single End Short Arc			
CSR700/SA	15380	HTI705W/SE	MSR700/SA
CSR700/SA/72	45234	-	-
CSR1200/SA	21849	HTI1200W/SE	MSR1200/SA
CSR2000/SA	21801	HTI1800W/SE	MSR2000/SA
Discharge CSR (Daylight) Metal Halide, Single End Hot Restrike			
CSR125/SE/HR	48461	HMI125W	MSR125/HR
CSR400/SE/HR/75	45238	-	-
CSR575/SE/HR	48463	HMI575W/SE	MSR575/HR
CSR1200/SE/HR	48464	HMI1200W/SE	MSR1200/HR
CSR2500/SE/HR	48465	HMI2500W/SE	MSR2500/HR
CSR4000/SE/HR	48466	HMI4000W/SE	MSR4000/HR
CSR6000/SE/HR	48467	HMI6000W/SE	MSR6000/HR
CSR12000/SE/HR	48468	HMI12000W/SE	MSR12000/HR
CSR18000/SE/HR	22496	HMI18000W/SE	MSR18000/HR
Discharge CSR (Daylight) Metal Halide, Single End Hot Restrike, UV Control			
CSR200/SE/HR/UVC	48462	HMI200W/SE	MSR200/HR
CSR400/SE/HR/UVC	21853	HMI400W/SE	MSR400/HR
CSR575/SE/HR/UVC	40460	HMI575W/SE	MSR575/HR
CSR800/SE/HR/UVC	22495	-	-
CSR1200/SE/HRUVC	27764	HMI1200W/SE	MSR1200/HR
CSR1800/SE/HRUVC	77390	HMI1800W/SE/XS	-
CSR2500/SE/HRUVC	40482	HMI2500W/SE	MSR2500/HR
CSR4000/SE/HRUVC	27765	HMI4000W/SE	MSR4000/HR
CSR6000/SE/HRUVC	40492	HMI6000W/SE	MSR6000/HR

Brand cross reference

GE		OSRAM	PHILIPS
Discharge CSR (Daylight) Metal Halide, Linear Double End Hot Restrike	**GE Product Code**		
CSR200/DE	48450	HMI200W	-
CSR400/S/DE/70	22478	HTI400W/D3/75	MSR400/SA/2/DE
CSR400/S/DE/90	45232	-	-
CSR575/S/DE/70	70979	HTI575W/D4/75	MSR575/SA/2/DE
CSR575/SS/DE/75	45231	-	-
CSR700/S/DE/60	22493	HTI700W/D4/60	-
CSR700/S/DE/72	41357	HTI700W/D4/75	MSR700/SA/2/DE
CSR1200/S/DE/60	22494	HTI1200W/D7/60	MSR1200/SA/DE
CSR1200/S/DE/72	41361	HTI1200W/D7/75	MSR1200/SA/2/DE
CSR1200/S/DE/60/STB	96802	-	-
CSR200/DE	48453	HMI1200W/GS	MSI1200
CSR1500/S/DE/60/STB	96800	HTI1500 D7/60	-
CSR2500/DE	48454	HMI2500W/GS	MSI2500
CSR4000/DE	48455	HMI4000W/GS	MSI4000
CSR6000/DE	48456	HMI6000W	MSI6000
CSR12000/DE	48457	HMI12000W/GS	MSI12000
CSR18000/DE	48459	HMI18000W	-
CSR24000/DE	78710	HMI24000W/DXS	-

GE has a wide range of lamps for a variety of special applications. These applications include:

Fly and insect control

- Special Phosphor – Black Light (BL)
- UVA 315-400nm
- Lamps to attract fly and insects
- Effect UV irradiance over life
- For use in fly traps
- Common use in food production areas

Inspection and effect

- Special Phosphor – Black Light Blue (BLB)
- UVA lamps with special Blue cobalt glass
- Used where fine detail or trace evidence is examined
- Create glow effect for club and event lighting

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

Aquarium

- Various colours and UV outputs
- Promotes coral, invertebrate and plant growth
- For use with tropical fish and reptiles

Space and industrial heating

- Turning light to heat
- Directional instant radiant heat
- Heats objects and people not the air between
- Ideal for space heating outside bars and restaurants
- Many industrial applications from paint drying to plastic bottle making

Airfield

- Range of lamps for use on airfields
- Runway and taxiway lighting

GE UV Lamps

UVC Germicidal, UVA Blacklight, Blacklight Blue

GE provides the very best in product innovation, reliability, and quality. As one of the largest lamp manufacturers in the world, we offer customers our extensive knowledge and a comprehensive portfolio of UV lamps.

Application areas

- Sterilisation
- Insect traps
- Night clubs and events
- Diazo copy machines
- Marine/aquarium
- Film making

UVC Germicidal

Water, air, and surface sterilisation

As our society demands a cleaner environment to live and work in, GE provides a safer and more efficient sterilisation technique. UVC Germicidal lamps' special glass transmits a spectral band of UV light effective for sterilisation. The UVC wavelength of 254 nm is proven to destroy air-borne bacteria, viruses, and mold spores by preventing DNA replication, effective even if the organism has become immune to other disinfection methods.

Application areas

- Healthcare
- HVAC Systems in commercial buildings
- Food processing
- Scientific labs
- Industrial, municipal, and residential water and pond treatment
- Biotech industry

Blacklight & Blacklight Blue

Blacklight lamps consist of a regular fluorescent tube with a special phosphor coating to emit in the UVA range. These phosphors contain rare earth components that enable the lamp to last over a complete insect season. Blacklight Blue lamps are made of cobalt blue glass which absorbs most visible light.

Application areas

- Special effects in night clubs and events
- Insect traps
- Inspection and authentication
- Food processing plants
- Supermarkets/butchers/bakeries
- Restaurants

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/cm2 @ 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: 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 134-135 for cap drawings

Product description: The lamp's identification code

Peak Wavelength [nm]

Length: Lamp length in mm

Blacklight Blue T5

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
4	29	G5	**F4W/BLB**	**39882**	368	5,000	150	25
6	42	G5	**F6W/BLB**	**39883**	368	5,000	225	25
8	57	G5	**F8W/BLB**	**39884**	368	5,000	300	25

F4W / BLB

(F) Identifies the lamp as Fluorescent

Volts: Lamp data is based on operating voltage

(4W) Identifies the lamp's wattage

(BLB) Identifies product type

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

Life: Rated average life

Pack quantity: Number of product units packed in a case

Blacklight Blue T5

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
4	29	G5	**F4W/T5/BLB**	**39882**	368	5,000	150	25
6	42	G5	**F6W/T5/BLB**	**39883**	368	5,000	225	25
8	57	G5	**F8W/T5/BLB**	**39884**	368	5,000	300	25

Blacklight Blue T8

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
18	57	G13	**F18/T8/BLB**	**88832**	368	12,000	600	25
36	103	G13	**F36/T8/BLB**	**88833**	368	12,000	1,200	25

Blacklight Blue T12

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
20	57	G13	**F20W/T12/BLB**	**34747**	368	9,000	600	6
40	101	G13	**F40W/T12/BLB**	**25618**	368	20,000	1200	6

Black Light T8

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
15	55	G13	**F15WBL 350**	**16941**	350	7,500	450	25

covRguard™ Blacklight

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
15	55	G13	**F15WBLCVG**	**72939**	368	7,500	450	6

UVA Blacklight Biax™ - Internal Starter

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Initial UVA Irradiance1 [mW/cm2 @ 20cm]	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
9	60	G23	**F9BX BL G23**	**42935**	440	368	440	167	10
11	91	G23	**F11BX BL G23**	**42936**	670	368	670	237	10
13.4	58	GX23	**F13BX BL GX23**	**42937**	630	368	630	177.5	10

UVA Blacklight Biax™ L - External Starter

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Initial UVA Irradiance1 [mW/cm2 @ 20cm]	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
24	87	2G11	**F24BX BL 2G11**	**42939**	980	368	980	326.8	10
36	107	2G11	**F36BX BL 2G11**	**42940**	1280	368	1,280	421.8	10
55	101	2G11	**F55BX BL 2G11**	**42941**	1630	368	1,630	541.8	10

Germicidal T5

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	UV Output [Watts]	Peak Wavelength [nm]	Life [h]	Length [mm]	Pack Qty
4	29	Miniature Bi-pin	**G4T5**	**15872**	0.8	254	6,000	150	24
6	42	Miniature Bi-pin	**G6T5**	**15873**	1.7	254	6,000	226	24
8	57	Miniature Bi-pin	**G8T5**	**11077**	2.3	254	8,000	302	24
11	37	Miniature Bi-pin	**G11T5**	**29495**	2.2	254	8,000	226	24
16	50	Miniature Bi-pin	**G16T5**	**16494**	3.2	254	8,000	302	24
39	107	Single-pin (Fa8)	**G36T5**	**15874**	12	254	9,000	865	24
65	180	Single-pin (Fa8)	**G64T5**	**15864**	18	254	7,500	1575	24
65	250	Single 4 pin end cap	**G64T5/4P/SE**	**29504**	25	NA	8,000	1556	24

Specialty Lamps

Germicidal T8

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	UV Output [Watts]	Life [h]	Length [mm]	Pack Qty
15	55	G13 Medium Bi-pin	**G15T8**	**11078**	4.8	8,000	451	24
25	46	G13 Medium Bi-pin	**G25T8**	**11082**	6.9	8,000	451	24
30	90	G13 Medium Bi-pin	**G30T8**	**11080**	12.4	8,000	908	24
55	83	G13 Medium Bi-pin	**G55T8HO**	**15875**	18	8,000	908	24

Germicidal T4 Biax

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	UV Output [Watts]	Life [h]	Length [mm]	Pack Qty
5	35	G23 2-pin	**GBX5/UVC G23**	**40695**	1.0	8,000	85	10
9	59	G23 2-pin	**GBX9/UVC G23**	**40696**	2.4	8,000	145	10
11	89	G23 2-pin	**GBX11/UVC G23**	**40700**	3.6	8,000	215	10

Germicidal T6 Biax

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	UV Output [Watts]	Life [h]	Length [mm]	Pack Qty
13	59	GX23 2-pin	**GBX13/UVC GX23**	**40703**	3.6	8,000	170	10
18	58	2G11 4-pin	**GBX18/UVC/2G11**	**40704**	5.3	8,000	225	10
36	106	2G114-pin	**GBX36/UVC/2G11**	**40705**	12	8,000	415	10
55	101	2G114-pin	**GBX55/UVC/2G11**	**40706**	16.5	8,000	535	10

covRguard™ Germicidal

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	UV Output [Watts]	Life [h]	Length [mm]	Pack Qty
15	55	G13 Medium Bi-pin	**G15T8/CVG**	**72761**	4.8	8,000	451	24
25	46	G13 Medium Bi-pin	**G25T8/CVG**	**72762**	6.9	8,000	451	24
30	90	G13 Medium Bi-pin	**G30T8/CVG**	**72763**	12.4	8,000	908	24
55	83	G13 Medium Bi-pin	**G55T8/CVG**	**72764**	18	8,000	908	24

T8 covRguard™ Polylux XLR™

Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
18	G13	**F18W/830CVG**	**17203**	1300	2950	85	15,000	600	25
18	G13	**F18W/835CVG**	**17204**	1300	3400	85	15,000	600	25
18	G13	**F18W/840CVG**	**17205**	1300	4000	85	15,000	600	25
36	G13	**F36W/830CVG**	**17208**	3250	2950	85	15,000	1200	25
36	G13	**F36W/835CVG**	**17202**	3250	3400	85	15,000	1200	25
36	G13	**F36W/840CVG**	**17209**	3250	4000	85	15,000	1200	25
58	G13	**F58W/830CVG**	**12403**	5050	2950	85	15,000	1500	25
58	G13	**F58W/835CVG**	**12405**	5050	3400	85	15,000	1500	25
58	G13	**F58W/840CVG**	**12407**	5050	4000	85	15,000	1500	25
70	G13	**F70W/835CVG**	**12423**	6100	3400	85	15,000	1800	25
70	G13	**F70W/840CVG**	**12424**	6100	4000	85	15,000	1800	25

T5 covRguard™ Starcoat™ High Output (HO)

Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
24	G5	F24W/T5/830/ECO/CVG	71000	1950	3000	85	30,000	549	40
24	G5	F24W/T5/835/ECO/CVG	70998	1950	3500	85	30,000	549	40
24	G5	F24W/T5/841/ECO/CVG	70997	1950	4100	85	30,000	549	40
24	G5	F24W/T5/850/ECO/CVG	70999	1850	5000	85	30,000	549	40
24	G5	F24W/T5/865/ECO/CVG	70996	1800	6500	85	30,000	549	40
39	G5	F39W/T5/830/ECO/CVG	70995	3400	3000	85	30,000	849	40
39	G5	F39W/T5/835/ECO/CVG	70994	3400	3500	85	30,000	849	40
39	G5	F39W/T5/841/ECO/CVG	70993	3400	4100	85	30,000	849	40
39	G5	F39W/T5/850/ECO/CVG	70991	3250	5000	85	30,000	849	40
39	G5	F39W/T5/865/ECO/CVG	70990	3200	6500	85	30,000	849	40
54	G5	F54T5/830/HO/ECO/CVG	48433	4560	3000	85	30,000	1149	40
54	G5	F54T5/835/HO/ECO/CVG	48436	4560	3500	85	30,000	1149	40
54	G5	F54T5/841/HO/ECO/CVG	48458	4560	4100	85	30,000	1149	40
54	G5	F54T5/850/HO/ECO/CVG	80311	4465	5000	85	30,000	1149	40
54	G5	F54T5/865/HO/ECO/CVG	48469	4465	6500	85	30,000	1149	40

T5 Watt-Miser™ covRguard™

Wattage [W]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
54	G5	F54T5/830//ECO/WM/CVG	72985	4330	3000	85	25,000	1149	40
54	G5	F54T5/835//ECO/WM/CVG	72986	4330	3500	85	25,000	1149	40
54	G5	F54T5/841/ECO/WM/CVG	72987	4330	4100	85	25,000	1149	40
54	G5	F54T5/850//ECO/WM/CVG	72988	4120	5000	85	25,000	1149	40
54	G5	F54T5/865//ECO/WM/CVG	72989	3980	6500	85	25,000	1149	40

T8 Aquarium and Reptile*

Wattage [W]	Cap	Product Description	Product Code	Additional Information	Lumen [lm]	CCT [K]	CRI [Ra]	Life [h]	Length [mm]	Pack Qty
15	G13	F15T8 F&SA	44212	Fresh & Salt Aqua	700	10000	60	9,000	450	6
15	G13	F15T8 SW	16987 /44230	Salt Water	210	-	-	7,500	450	10/6
15	G13	F15T8 REP	44239	Reptile	400	6400	82	7,500	450	6
18	G13	F18T8 F&SA	44213	Fresh & Salt Aqua	950	10000	60	10,000	450	6
18	G13	F18T8 SW	44231	Salt Water	430	-	-	9,000	600	6
18	G13	F18T8 REP	44240	Reptile	550	6400	82	7,500	600	6
25	G13	F25T8 F&SA	16968	Fresh & Salt Aqua	1350	10000	60	15,000	760	10
25	G13	F25T8 SW	16991	Salt Water	430	-	-	7,500	762	10
30	G13	F30T8 F&SA	16969 /44218	Fresh & Salt Aqua	1700	10000	60	15,000	910	10/6
30	G13	F30T8 SW	16992 /44235	Salt Water	540	-	-	7,500	910	10/6
30	G13	F30T8 REP	44241	Reptile	1100	6400	82	7,500	910	6
36	G13	F36T8 F&SA	16970 /44219	Fresh & Salt Aqua	2350	10000	60	15,000	1200	10/6
36	G13	F36T8 SW	16995 /44236	Salt Water	700	-	-	7,500	1200	10/6
36	G13	F36T8 REP	44242	Reptile	1250	6400	82	7,500	1200	6
38	G13	F38T8 F&SA	44220	Fresh & Salt Aqua	2200	10000	60	15,000	1060	6
38	G13	F38T8 FA	16984	Fresh Aqua	1320	5000	70	7,500	1060	10
38	G13	F38T8 SW	16999	Salt Water	650	-	-	7,500	1060	10

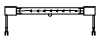
*This range is in transition from a 10 pack to a 6 pack.

Quartz Heat

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	CCT [K]	Life [h]	Length [mm]	Pack Qty
500	120	Slv	**QH500T3/CL**	**21788**	2400	5,000	223.8	12
500	120	R7S	**QH500T3/CL/7**	**21787**	2400	5,000	220.5	12
1000	200-220	Slv	**QH1000T3/CL**	**22355**	2400	5,000	351	12
1000	230-250	Slv	**QH1000T3/CL**	**22357**	2400	5,000	351	12
1000	235	Slv	**QH1MT3/CL/R/MS-235V**	**21377**	2500	5,000	483	12
1000	230-250	Slv	**QH1000T3/CL**	**22357**	2400	5,000	351	12
1200	144	Slv	**QH1200T3/CL**	**22531**	2450	5,000	223.8	12
1200	144	Slv	**QH1200T3/CL/HT**	**22532**	2450	5,000	223.8	12
1600	230-250	R7S	**QH1600T3/CL/7**	**22691**	2400	5,000	498.4	12
1600	230-250	Slv	**QH1600T3/CL**	**22688**	2400	5,000	503	12
2000	230	Slv	**QH2M/T3/1CL/HT**	**22789**	2450	5,000	303	12
2000	230-250	Slv	**QH2M/T3/1CL/HT/VB**	**15551**	2450	5,000	303	12
2000	220-250	Slv	**QH2MT3/CL/VB**	**18668**	2450	5,000	350.5	12
2000	230-250	Slv	**QH2M/T3/CL/HT**	**22790**	2450	5,000	350.8	12
2000	230-250	CER	**QH2MT3/CL/HT/R**	**12716**	2450	5,000	352.5	12
2500	460-500	Slv	**QH2500T3/CL**	**22838**	2400	5,000	731	12
3650	480	Slv	**QH3650/CL/5**	**10872**	2500	5,000	1057	6
3800	550-600	Slv	**QH3800/CL**	**22875**	2500	5,000	1062	6
5000	575-625	Slv	**QH5M/T3/1CL/HT**	**22900**	2500	5,000	731.8	12

Jacketed Quartz Heat

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	CCT [K]	Life [h]	Length [mm]	Pack Qty
1500	230-240	Special	**HH 451 1500W RUBY 230-240V**	**20092**	2450	5,000	348	10
2000	230-240	Special	**HH 804 2000W RUBY 230-240V**	**20093**	2450	5,000	348	10



Infrared Quartz Heat – Ruby Slim

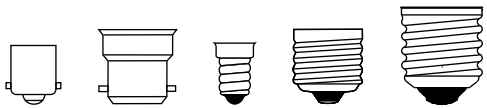
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	CCT [K]	Life [h]	Length [mm]	Pack Qty
750	230-240	RX7s	**QH 750W 230-240V Ruby Slim**	**40723**	2450	5000	202.8	10
1300	230-240	RX7s	**QH 1300W 230-240V Ruby Slim**	**42740**	2450	5000	254	10

Airfield Lighting

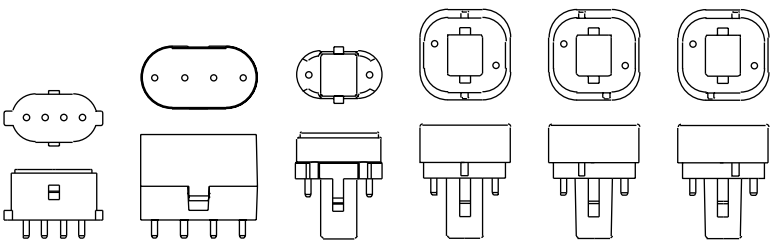
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	Life [h]	Length [mm]	Pack Qty
30	6.6A	Gz9.5 2 Pin	**EXL**	**11478**	375	1000	44.5	24
45	6.6A	Gz9.5 2 Pin	**EXM**	**11482**	750	1000	44.5	24
45	6.6A	PK30d	**Q6.6A45PK30d male**	**80583**	800	1000	13.5	10
45	6.6A	Mycalex cap & Prefocus collar	**AF6/2 6.6A 45W**	**88420**	760	600	54	100
65	6.6A	Special	**Q65T2 1/2/1/CL**	**32917**	1200	1000		200
100	6.6A	Mycalex cap & Prefocus collar	**AF 6/5T 6.6A 100W**	**88417**	2100	600	60	100
100	6.6A	PK30d	**Q6.6A100PK30d male**	**80584**	2700	1000	13.5	10
100	6.6A	PK30d	**Q6.6A100PK30d female**	**80588**	2700	1000	13.5	10
150	6.6A	PK30d	**Q6.6A150PK30d male**	**80585**	3600	1000	13.5	10
150	6.6A	PK30d	**Q6.6A150PK30d female**	**80589**	3600	1000	13.5	10
200	6.6A	PK30d	**Q6.6A200PK30d male**	**80586**	4800	1000	13.5	10
200	6.6A	PK30d	**Q6.6A200PK30d female**	**80590**	4800	1000	13.5	10
200	6.6A	Special 1" Ribbon Leads	**Q6.6A/T4/5CL**	**23857**	5000	500	76	12
200	6.6A	D.C.Bay	**Q6.6AT4/DCR**	**23860**	5150	500	64	12
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
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
1200	115	G38 Mog BiPost	**1200T20**	**88523**	29600	750	241	12

Cap drawings

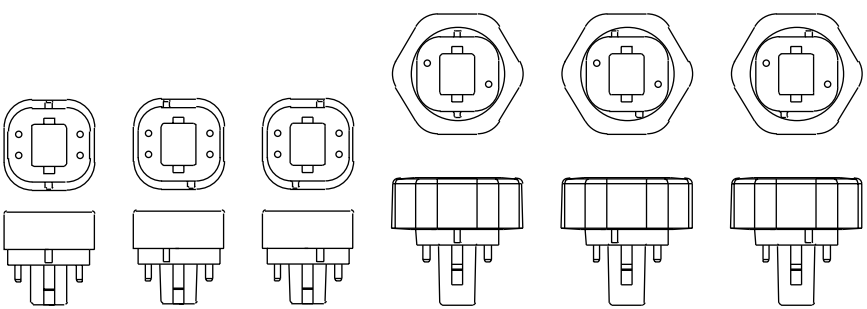
All cap drawings are a guide, if further technical details are required please contact your nearest sales office.



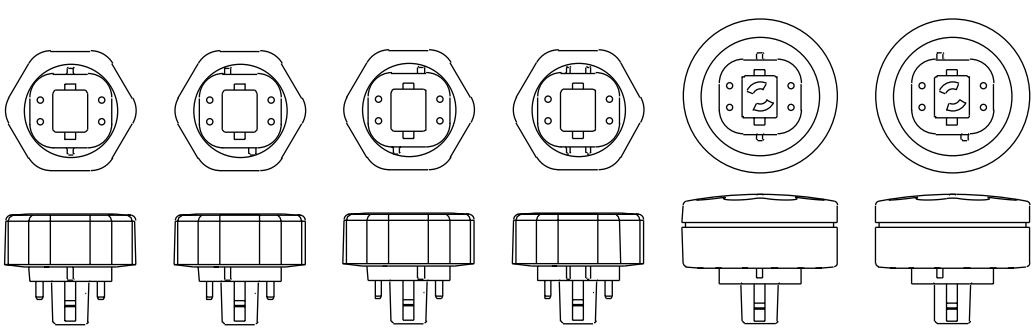
B15 B22 E14 E27 E40



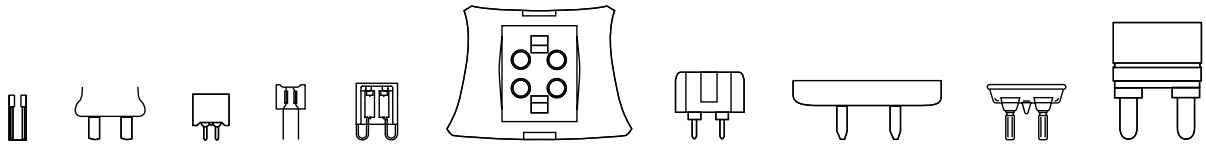
2G7 2G11 G23 G24d-1 G24d-2 G24d-3

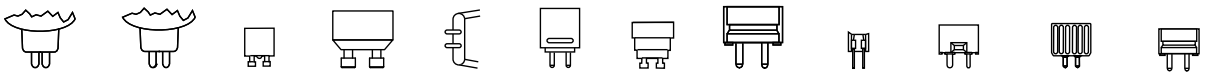


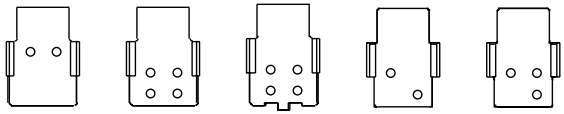
G24q-1 G24q-2 G24q-3 GX24d-1 GX24d-2 GX24d-3

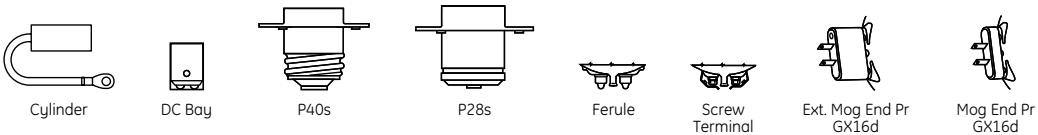


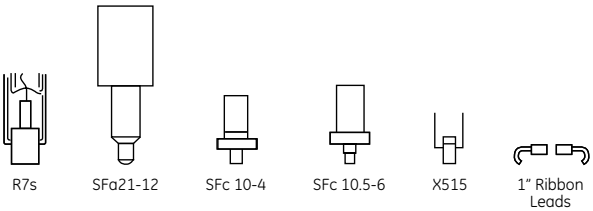
GX24q-1 GX24q-2 GX24q-3 GX24q-4 GX24q-5 GX24q-6


G4
G5
G5.3
G8.5
G9
G10q
G12
G13
G22
G38


GU4
GU5.3
GU6.5
GU10
GX5.3
GX9.5
GX10
GX16d
GY6.35
G6.35
GZ6.35
GY9.5
GY9.5/
Heat Sink
GZ9.5


GR8
GR10q
GRY10q-3
GRZ10d
GRZ10t


Cylinder
DC Bay
P40s
P28s
Ferule
Screw
Terminal
Ext. Mog End Pr
GX16d
Mog End Pr
GX16d


R7s
SFa21-12
SFc 10-4
SFc 10.5-6
X515
1" Ribbon
Leads

Choosing the right fitting

Highways, streets, industrial, commercial and residential areas – GE has carefully selected a range of lamps and luminaires that offer specific benefits, depending upon what lighting effects you require.

Outdoor Lighting

Designing a lighting scheme for a stretch of road is by no means as simple as it may first appear. There are guidelines that advise on the required brightness levels, and widely available information on the energy efficiency of different lighting types.

Given the huge public investment involved, one of the main requirements for traffic lighting is the highest illuminance for the least cost, so high efficacy, long-life sources are the standard. For safety and security reasons, outdoor lighting must also create highly uniform lighting on the road surface, with minimum glare.

In addition, cities and towns are becoming 24 hour venues with ongoing activity, day or night. In order to facilitate this 24/7 operation we need light; but the lighting solution needs to provide more than just functional illumination. It also needs to be aesthetically pleasing both during daylight hours and whilst in operation.

With all these requirements in mind GE Lighting manufactures a comprehensive range of outdoor lighting fittings. The range provides lighting solutions for secondary residential roads, through to highways and motorways and decorative amenity lighting fittings to help create a more pleasant environment.

Indoor Lighting

For industrial and commercial environments, the use of appropriate illumination systems is essential for profitable growth: greater safety in the workplace, improved productivity and reduced error and reject rates.
The design of the 'most appropriate illumination system' is not limited to easily quantifiable aspects (energy savings, efficacy, etc.), but must also pay heed to qualitative aspects, such as visual comfort and the appearance of the installation.

GE has a comprehensive range of indoor and outdoor fittings. For detailed information please refer to our separate luminaire catalogue.

Solutions for sustainable cities

Our heritage, our future

We believe that better technology is the answer to our customers' environmental challenges. We are confident that we can find tomorrow's solutions to those challenges just as we have since the days of our founder, Thomas Edison.

Throughout our 130 year history, we have invented solutions to meet our customers' greatest needs. Over many years, we have developed one of the broadest ranges of environmentally advanced technologies. We will build on this legacy of success by searching and developing next generation clean technologies. Our goal is to be a leader in bringing clean energy, air and improved quality of life to the world's citizens.

GE Lighting has combined its luminaire and LED expertise to bring unmatched product quality and reliability together in an integrated approach. With a full understanding of customers' needs, we have developed an advanced and effective system.

Applications

Site, area and general lighting utilising advanced LED optical system providing uniformity, improved vertical light distribution, reduced both off-site and on-site glare and effective security light levels.

LED Area Lighter

Iberia

Duna

Odyssey

Sustainable lighting

LED area lighting luminaire

New Technology

LED systems

Product Description	Product Code	Page No.
9409	75514	30
192160004	75545	31
192160005	75608	31
9409	75514	31
9409	75514	31
GE020/G/V12T1-B	74914	29
GE020/G/V12T1-B	74914	31
GE020/G/V24T1-B	74917	31
GE060/G/V12T1-A	74601	29
GE060/G/V12T1-A	74601	31
GE080/G/V24T1-A	74915	31
GE100/MV/V24T1-A	74916	31
GEBLMMS5-27K-A	75597	31
GEBLXNLE1-A	75485	30
GE-CV-LT3060CTR	75974	27
GEGLMMS5-27K-A	75598	31
GEGLXNLE1-A	75484	30
GE-LT303041CTR	75961	26
GE-LT303041CTR	75968	27
GE-LT303041EDL	75962	26
GE-LT303041EDL	75969	27
GE-LT303041EDR	75967	26
GE-LT303041EDR	75970	27
GE-LT303050CTR	75955	26
GE-LT303050CTR	75958	27
GE-LT303050EDL	75956	26
GE-LT303050EDL	75959	27
GE-LT303050EDR	75957	26
GE-LT303050EDR	75960	27
GE-LT306035CTR	78923	26
GE-LT306035CTR	78926	27
GE-LT306035EDL	78924	26
GE-LT306035EDL	78927	27
GE-LT306035EDR	78925	26
GE-LT306035EDR	78928	27
GE-LT306041CTR	78917	26
GE-LT306041CTR	78920	27
GE-LT306041EDL	78918	26
GE-LT306041EDL	78921	27
GE-LT306041EDR	78919	26
GE-LT306041EDR	78922	27
GE-LT306050CTR	78633	26
GE-LT306050CTR	78914	27
GE-LT306050EDL	78634	26
GE-LT306050EDL	78915	27
GE-LT306050EDR	78913	26
GE-LT306050EDR	78916	27
GE-LT307035CTR	78978	26
GE-LT307035CTR	78981	27
GE-LT307035EDL	78979	26
GE-LT307035EDL	78982	27
GE-LT307035EDR	78980	26
GE-LT307035EDR	78983	27
GE-LT307041CTR	78972	26
GE-LT307041CTR	78975	27
GE-LT307041EDL	78973	26
GE-LT307041EDL	78976	27
GE-LT307041EDR	78974	26
GE-LT307041EDR	78977	27
GE-LT307050CTR	78966	26
GE-LT307050CTR	78969	27
GE-LT307050EDL	78967	26
GE-LT307050EDL	78970	27
GE-LT307050EDR	78968	26
GE-LT307050EDR	78971	27
GE-MC-LT3060CTR	75971	27
GE-MC-LT3060ED1	75972	27
GE-MC-LT3060ED2	75973	27
GEPGEC1	75546	31
GE-PS1700NCMUL-SY	78348	31
GERDMMS5-27K-A	75596	31
GERDXNLE1-A	75481	30
GEWHMMS5-50K-A	75607	31
GEWHMMS5-65K-A	75599	31
GEWHPGP6-50K-A	75551	31
GEWHPGP6-65K-A	75552	31
GEWHXNLE1-50K-A	75493	30
GEWHXNLE1-65K-A	75486	30
GEWWMMS5-27K-A	75601	31
GEWWMMS5-30K-A	75603	31
GEWWMMS5-35K-A	75604	31
GEWWMMS5-40K-A	75606	31
GEWWPGP6-27K-A	75547	31
GEWWPGP6-30K-A	75548	31
GEWWPGP6-35K-A	75549	31
GEWWPGP6-40K-A	75550	31
GEWWXNLE1-27K-A	75487	30
GEWWXNLE1-30K-A	75488	30
GEWWXNLE1-35K-A	75489	30
GEWWXNLE1-40K-A	75490	30
GEXNBA	75537	30
GEXNMC15	75520	30
GEXNMCAC	75498	30
GEXNWB2	75494	30
JC-12	78907	29
JC-72	78908	29
LB24/35K	74217	25
LB24/42K	74225	25
LB30/35K	74218	25
LB30/42K	74226	25
LB36/35K	74219	25
LB36/42K	74227	25
LB42/35K	74220	25
LB42/42K	74228	25
LB48/35K	74221	25
LB48/42K	74229	25
LB54/35K	74222	25
LB54/42K	74230	25
LB60/35K	74223	25
LB60/42K	74231	25
LB72/35K	74224	25
LB72/42K	74232	25
LB-CLIP	74243	26
LB-EXT-CLIP	74244	26
LB-TUBE-MOUNT	74245	26
LB-WIRE-END (BEAUTY COVER)	74241	26
LC12/727/240V	73100	30
LC12/730/240V	73101	30
LC12/741/240V	73826	30
LC-120	78906	29
LC-36	78905	29
LC-JC/1m/CE	73616	30
LC-LC/12m/CE	73617	30
LC-LC/3m/CE	73618	30
LC-MT48/0	73105	30
LC-MT48/15	73106	30
LC-MT48/30	73107	30
LED GU10 1W 220-240V	96737	23
LED GU10 1W 220-240V	96738	23
LED MR16 GU5.3 1W 12V	96739	23
LED PAR16 E14 1W 220-240V	96740	23
LED/GU10 1W 220-240V	96736	23
LED10/PAR30/827/220-240V/FL/E27	78553	23
LED10/PAR30/827/220-240V/WFL/E27	78554	23
LED10/PAR30/830/220-240V/FL/E27	78555	23
LED10/PAR30/830/220-240V/WFL/E27	78556	23
LED2.5/G80/829/220-240V/B22/D	78770	24
LED2.5/G80/829/220-240V/E27/D	78769	24
LED2/A47/829/220-240V/B22/C	78761	24
LED2/A47/829/220-240V/B22/D	78762	24
LED2/A47/829/220-240V/E27/C	78759	24
LED2/A47/829/220-240V/E27/D	78760	24
LED2/B35/829/220-240V/B22/C	78773	24
LED2/B35/829/220-240V/B22/D	78774	24
LED2/B35/829/220-240V/E14/C	78775	24
LED2/B35/829/220-240V/E14/D	78776	24
LED2/B35/829/220-240V/E27/C	78771	24
LED2/B35/829/220-240V/E27/D	78772	24
LED2/P45/829/220-240V/B22/C	78765	24
LED2/P45/829/220-240V/B22/D	78766	24
LED2/P45/829/220-240V/E14/C	78767	24
LED2/P45/829/220-240V/E14/D	78768	24
LED2/P45/829/220-240V/E27/C	78763	24
LED2/P45/829/220-240V/E27/D	78764	24
LED4/GU10/830/230V/WFL	75280	23
LED4/GU10/830/240V/WFL	75281	23
LED4/R50/830/230V/WFL/E14	75288	23
LED4/R50/830/240V/WFL/E14	75289	23
LED7/R63/827/220-240V/FL/B22	76099	23
LED7/R63/827/220-240V/FL/E27	76093	23
LED7/R63/827/220-240V/WFL/B22	76100	23
LED7/R63/827/220-240V/WFL/E27	76094	23
LED7/R63/830/220-240V/FL/B22	75295	23
LED7/R63/830/220-240V/FL/E27	75294	23
LED7/R63/830/220-240V/WFL/B22	75297	23
LED7/R63/830/220-240V/WFL/E27	75296	23
LPL-G09-060C-927	78881	29
LPL-G09-060C-930	78882	29
LPL-G09-060C-940	78883	29
LPL-G09-090C-927	78884	29
LPL-G09-090C-930	78885	29
LPL-G09-090C-940	78886	29
LPL-G09-120C-927	78887	29
LPL-G09-120C-930	78888	29
LPL-G09-120C-940	78889	29
LPL-G09-120D-927	78890	29
LPL-G09-120D-930	78891	29
LPL-G09-120D-940	78892	29
LPL-G18-060C-927	78893	29
LPL-G18-060C-930	78894	29
LPL-G18-060C-940	78895	29
LPL-G18-090C-927	78896	29
LPL-G18-090C-930	78897	29

High-Intensity Discharge Lamps

Product Description	Product Code	Page No.
LPL-G18-090C-940	78898	29
LPL-G18-120C-927	78899	29
LPL-G18-120C-930	78900	29
LPL-G18-120C-940	78901	29
LPL-G18-120D-927	78902	29
LPL-G18-120D-930	78903	29
LPL-G18-120D-940	78904	29
LPL-W09-060C-927	78855	28
LPL-W09-060C-930	78856	28
LPL-W09-060C-940	78857	28
LPL-W09-090C-927	78858	28
LPL-W09-090C-930	78859	28
LPL-W09-090C-940	78860	28
LPL-W09-120C-927	78861	28
LPL-W09-120C-930	78862	28
LPL-W09-120C-940	78863	28
LPL-W09-120D-927	78864	28
LPL-W09-120D-930	78865	28
LPL-W09-120D-940	78866	28
LPL-W18-060C-927	78867	28
LPL-W18-060C-930	78868	28
LPL-W18-060C-940	78870	28
LPL-W18-090C-927	78871	28
LPL-W18-090C-930	78872	28
LPL-W18-090C-940	78873	28
LPL-W18-120C-927	78874	28
LPL-W18-120C-930	78875	28
LPL-W18-120C-940	78877	28
LPL-W18-120D-927	78878	28
LPL-W18-120D-930	78879	28
LPL-W18-120D-940	78880	28
MB-G15	78911	29
MB-G30	78912	29
MB-W15	78909	29
MB-W30	78910	29
OT VIO/CON	73738	25
VIO/1.2W/730	73357	24
VIO/1.2W/735	73355	24
VIO/1.2W/741	73353	24
VIO/1.2W/830	73351	24
VIO/1.2W/835	73349	24
VIO/1.2W/841	73347	24
VIO/3.6W/730	73356	24
VIO/3.6W/735	73354	24
VIO/3.6W/741	73352	24
VIO/3.6W/830	73350	24
VIO/3.6W/835	73348	24
VIO/3.6W/841	73346	24
VIO/7.2W/730	74759	24
VIO/7.2W/735	74760	24
VIO/7.2W/741	74761	24
VIO/7.2W/830	74762	24
VIO/7.2W/835	74763	24
VIO/7.2W/841	74764	24
VIO/G4/MODULE/3.6W/730	77499	25
VIO/G4/MODULE/3.6W/735	77502	25
VIO/G4/MODULE/3.6W/741	77503	25
VIO/G4/MODULE/3.6W/830	77476	25
VIO/G4/MODULE/3.6W/835	77477	25
VIO/G4/MODULE/3.6W/841	77481	25
VIO/MODULE/CON	77526	25

Product Description	Product Code	Page No.
ARC150/AQUA/TD/865/Rx7s-24	35284	48
ARC150/G12/830	88654	48
ARC150/G12/842	88655	48
ARC150/TD/952/Rx7s-24	93772	48
ARC150/UVC/TD/732/Rx7s-24	34527	48
ARC150/UVC/TD/742/Rx7s-24	34535	48
ARC150/UVC/TD/BLUE/RX7S-24	12182	48
ARC150/UVC/TD/GREEN/RX7S-24	12181	48
ARC150/UVC/TD/MAGENTA/RX7S-24	12184	48
ARC150/UVC/TD/ORANGE/RX7S-24	12183	48
ARC250/D/H/740/E40	16870	48
ARC250/D/H/960/E40	30047	48
ARC250/D/VBU/960/E40	32666	48
ARC250/T/H/742/E40	42357	48
ARC250/T/H/960/E40	32664	48
ARC250/T/VBU/960/E40	32665	48
ARC250/TD/832/Fc2	30099	48
ARC250/TD/842/Fc2	30101	48
ARC400/T/H/742/E40	42369	48
ARC70/T/U/730/G12	35794	48
ARC70/T/U/842/G12	35795	48
ARC70/UVC/TD/730/Rx7s	34530	48
ARC70/UVC/TD/742/Rx7s	34536	48
BLS/E/20W/CMH	78711	47
BLS/E/20W/CMH/R/CC	78712	47
BLS/E/20W/CMH/R/LP	78713	47
BLS/E/35W/CMH	78714	47
BLS/E/35W/CMH/R/CC	78715	47
BLS/E/35W/CMH/R/LP	78716	47
CMH100/E/UVC/U/830/E27/C	46191	47
CMH100/E/UVC/U/830/E27/D	46194	47
CMH100/TT/UVC/730/E40 STREETWISE	77399	47
CMH100/TT/UVC/830/E40	92478	47
CMH150/T/UVC/U/830/G12	20012	45
CMH150/T/UVC/U/942/G12	20014	45
CMH150/TD/UVC/830/RX7s-24	36912	45
CMH150/TD/UVC/942/RX7s-24	38692	45
CMH150/TT/UVC/730/E40 STREETWISE	77402	47
CMH150/TT/UVC/830/E40	38749	47
CMH150/UVC/O/T/U/830/E40	21516	47
CMH150/UVC/O/T/U/942/E40	21517	47
CMH150/UVC/O/U/940/E27/D	43286	47
CMH150/UVC/O/U/942/E27/C	43285	47
CMH150/UVC/T/U/842/E40	21514	47
CMH20/MR16/UVC/830/GX10/FL GX10	40401	46
CMH20/MR16/UVC/830/GX10/SP	40400	46
CMH20/MR16/UVC/830/GX10/WFL GX10	42691	46
CMH20/PAR20/UVC/830/E27/FL25	26481	46
CMH20/T/UVC/830/GU6.5	40399	45
CMH20/T/UVC/U/830/G12 PLUS**	42708	45
CMH20/TC/UVC/U/830/G8.5 PLUS**	39858	45
CMH20PAR20/UVC/830/E27/SP10	26478	46
CMH20PAR30/UVC/830/E27/FL25	26518	46
CMH20PAR30/UVC/830/E27/SP10	26497	46
CMH250/E/UVC/U/830/E40/D	10591	47
CMH250/TT/UVC/U/830/E40	10589	47
CMH35/MR16/UVC/930/GX10/FL GX10	88659	46
CMH35/MR16/UVC/930/GX10/FL Ultra	76124	46
CMH35/MR16/UVC/930/GX10/SP GX10	88658	46
CMH35/MR16/UVC/930/GX10/SP Ultra	76123	46
CMH35/MR16/UVC/930/GX10/WFL GX10	88660	46

Product Description	Product Code	Page No.
CMH35/MR16/UVC/930/GX10/WFL Ultra	76125	46
CMH35/MR16/UVC/942/GX10/FL GX10	88662	46
CMH35/MR16/UVC/942/GX10/SP GX10	88661	46
CMH35/MR16/UVC/942/GX10/WFL GX10	88663	46
CMH35/PAR20/UVC/830/E27/FL25	21685	46
CMH35/PAR20/UVC/830/E27/SP10	21684	46
CMH35/PAR20/UVC/942/E27/FL25	44919	46
CMH35/PAR20/UVC/942/E27/SP10	44890	46
CMH35/PAR30/UVC/830/E27/FL 25	21690	46
CMH35/PAR30/UVC/830/E27/SP10	21689	46
CMH35/PAR30/UVC/942/E27/FL25	44942	46
CMH35/PAR30/UVC/942/E27/SP10	44939	46
CMH35/T/UVC/930/GU6.5	88656	45
CMH35/T/UVC/930/GU6.5 Ultra	76122	45
CMH35/T/UVC/942/GU6.5	88657	45
CMH35/T/UVC/U/830/G12 PLUS**	43272	45
CMH35/T/UVC/U/842/G12	92141	45
CMH35/T/UVC/U/930/G12 Ultra	76121	45
CMH35/TC/UVC/U/830/G8.5 PLUS**	43273	45
CMH35/TC/UVC/U930/G8.5 Ultra	76120	45
CMH35/TC/UVC/U942/G8.5	26348	45
CMH35/TD/UVC/830/RX7s	43278	45
CMH400/E/UVC/U/830/E40	13087	47
CMH400/TT/UVC/U/830/E40	13067	47
CMH50/TT/UVC/730/E27 STREETWISE	77400	47
CMH70/E/UVC/U/830/E27/C	46189	47
CMH70/E/UVC/U/830/E27/D	46187	47
CMH70/PAR30/UVC/830/E27/FL40	21682	46
CMH70/PAR30/UVC/830/E27/SP15	21683	46
CMH70/PAR30/UVC/942/E27/FL40	74620	46
CMH70/PAR30/UVC/942/E27/SP15	74619	46
CMH70/T/UVC/U/830/G12	20005	45
CMH70/T/UVC/U/830/G12 Ultra	96752	45
CMH70/T/UVC/U/942/G12	20013	45
CMH70/TC/UVC/U/830/G8.5 PLUS**	43274	45
CMH70/TC/UVC/U/830/G8.5 Ultra	96751	45
CMH70/TC/UVC/U/942/G8.5	26349	45
CMH70/TD/UVC/830/RX7s	36910	45
CMH70/TD/UVC/942/RX7s	38698	45
CMH70/TT/UVC/730/E27 STREETWISE	77401	47
CMH70/TT/UVC/830/E27	38752	47
CMH70/UVC/O/U/940/E27/D	43282	47
H125/27 1/24	73736	52
H125/B22 1/24	77071	52
H125NDX E27 1/24	77057	52
H250/40 1/12	73737	52
H250NDX E40 1/12	77058	52
H400 DX E40 1/12	77061	52
H400/40 1/12	74174	52
H50 DX E27 1/24	77055	52
H50/27 1/24	74171	52
H80 DX E27 1/24	77056	52
H80/27 1/24	74172	52
H80/B22 1/24	74173	52
KRC250/CMH/830/T/H/E40	20302	47
KRC400/D/H/740/E40	16875	49
KRC400/D/H/960/E40	10834	49
KRC400/D/VBU/740/E40	16872	49
KRC400/D/VBU/960/E40	10837	49
KRC400/E/VBU/645/E40	16871	49
KRC400/T/H/960/E40	30052	49

Index By Product Description

Product Description	Product Code	Page No.
KRC400/T/VBU/960/E40	30704	49
LU 100/XO/SBY/D/E40	88255	50
LU 100/XO/SBY/T/E40	88256	50
LU 150/XO/SBY/T/E40	78737	50
LU 250/XO/SBY/T/E40	78738	50
LU 400/XO/SBY/T/E40	78739	50
LU 50/XO/SBY/T/E27	78736	50
LU 70/90/MO/D/E27 1/12	46217	51
LU 70/90/MO/I/E27 1/12	46209	51
LU 70/90/MO/T/E27 1/25	46221	50
LU 70/XO/SBY/D/E27	88257	50
LU 70/XO/SBY/T/E27	88258	50
LU100/100/MO/D/40	93766	51
LU100/100/MO/SBY/T/40	17899	50
LU100/100/MO/T/40	93767	50
LU100/100/XO/D/40	93379	50
LU100/100/XO/T/40	93376	50
LU1000/110/D/40	30228	51
LU1000/110/T/40 4pk	45751	50
LU1000/TD	30246	51
LU150/100/40	44244	50
LU150/100/D/40	44245	51
LU150/100/SBY/D/40	35589	50
LU150/100/SBY/T/40	35594	50
LU150/100/XO/D/40	93380	50
LU150/100/XO/T/40	93377	50
LU250/D/40	44052	51
LU250/SBY/D/40 w	35590	50
LU250/SBY/T/40	35586	50
LU250/T/40	22453	50
LU250/TD	30241	51
LU250/XO/D/40	93381	50
LU250/XO/T/40	93378	50
LU250W/PSL/T/E40	88665	51
LU400/D/40	44057	51
LU400/SBY/D/40	35591	50
LU400/SBY/T/40	35582	50
LU400/T/40	11678	50
LU400/TD	30244	51
LU400/XO/D/40	93296	50
LU400/XO/T/40	93269	50
LU400V/600W/PSL/T/E40	43440	51
LU400V/600W/PSL/T/E40/Bulk	43439	51
LU400V/750W/PSL/T/E40	43438	51
LU400V/750W/PSL/T/E40/Bulk	43437	51
LU400W/PSL/T/E40	17106	51
LU400W/PSL/T/E40/Bulk	44304	51
LU50/85/MO/D/E27 1/25	88554	51
LU50/85/MO/D/I/E27 1/12	88556	51
LU50/85/MO/SBY/D/E27	88557	50
LU50/85/MO/SBY/T/E27	88558	50
LU50/85/MO/T/E27 1/25	88553	50
LU50/85/XO/D/27	45696	50
LU50/85/XO/T/27	93373	50
LU600/XO/T/40	93270	50
LU600W/PSL/T/E40	17107	51
LU600W/PSL/T/E40/Bulk	44305	51
LU70/90/MO/D/I/E27 1/12	46186	51
LU70/90/MO/SBY/D/E27	88269	50
LU70/90/MO/SBY/T/E27	88268	50
LU70/90/XO/D/27	45697	50
LU70/90/XO/T/27	93375	50
LU750W/PSL/T/E40	17108	51

Product Description	Product Code	Page No.
LU750W/PSL/T/E40/Bulk	44306	51
LUH110/D/27-SHx	39512	51
ML 230-240V 160W B22	96727	52
ML 230-240V 160W E27	96724	52
ML 230-240V 250W E27	96725	52
ML 230-240V 250W E40	96723	52
ML 230-240V 500W E40	96713	52
ML 240-250V 160W E27	96728	52
ML 240-250V 250W E40	96726	52
MPR400/C/VBU/0/40	27738	49
MVR1000/U/40	41828	49
MVR250/C/U/40	44543	49
MVR250/U/40	44542	49
MVR400/C/U/40	43908	49
MVR400/C/VBU/40	49857	49
MVR400/U/40	43907	49
MVR400/VBU/40	49860	49
SPL1000/T/H/960/E40 1/4	88882	49
SPL1500/L/H/652/Rx7SM	16920	49
SPL2000/I/T/H/640/E40	33148	49
SPL2000/I/T/H/960/E40	30103	49
SPL2000/L/H/654	16922	49
SPL2000/T/H/960/E40	30102	49

Linear Fluorescent Lamps

Product Description	Product Code	Page No.
155/200/4-22W/TANDEM/BX	36711	67
155/200/4-22W/TANDEM/IND	36714	67
155/501/4/65W/UNIV/BX	36536	67
155/501/4/65W/UNIV/IND	36537	67
155/800/75-140W/BX	37864	67
155/800/75-140W/IND	37729	67
155/801/75-115W/BX	37975	67
155/801/75-115W/IND	37974	67
F13W/T5/29/SL	12684	65
F13W/T5/33/SL	12693	65
F13W/T5/35/SL	12694	65
F13W/T5/827/SL	12701	65
F13W/T5/840/SPECFILL/IND	45695	65
F14/T5/830/WM	88364	63
F14/T5/840/WM	88362	63
F14W/T5/827/LL	90230	63
F14W/T5/830/LL	90239	63
F14W/T5/835/LL	90246	63
F14W/T5/840/LL	90247	63
F14W/T5/865/LL	90244	63
F15W/T8/827/POLYLUX	23247	66
F15W/T8/830/POLYLUX	23248	66
F15W/T8/835 POLYLUX	78133	66
F15W/T8/840/POLYLUX	23249	66
F15W/T8/860/POLYLUX	78131	66
F18/T8/830/16W/WM	73605	66
F18/T8/830/POLYLUX/LL	70980	66
F18/T8/840/16W/WM	73607	66
F18/T8/840/POLYLUX/LL	70981	66
F18W/T8/827/POLYLUX	93315	66
F18W/T8/830/CVG	17203	67
F18W/T8/830/POLYLUX	93319	66
F18W/T8/835/CVG	17204	67
F18W/T8/835/POLYLUX	93311	66
F18W/T8/840/CVG	17205	67
F18W/T8/840/POLYLUX	93317	66
F18W/T8/860/POLYLUX	12606	66

Product Description	Product Code	Page No.
F21/T5/830/WM	88360	63
F21/T5/840/WM	88357	63
F21W/T5/827/LL	90245	63
F21W/T5/830/LL	90248	63
F21W/T5/835/LL	90249	63
F21W/T5/840/LL	90250	63
F21W/T5/865/LL	90251	63
F24/T5/830/WM	88352	63
F24/T5/840/WM	88350	63
F24W/T5/827/LL	90262	64
F24W/T5/830/ECO/CVG	71000	64
F24W/T5/830/LL	90263	64
F24W/T5/835/ECO/CVG	70998	64
F24W/T5/835/LL	90264	64
F24W/T5/840/LL	90265	64
F24W/T5/841/ECO/CVG	70997	64
F24W/T5/850/ECO/CVG	70999	64
F24W/T5/865/ECO/CVG	70996	64
F24W/T5/865/LL	90266	64
F28/T5/830/WM	88345	63
F28/T5/840/WM	88356	63
F28W/T5/827/LL	90252	63
F28W/T5/830/LL	90253	63
F28W/T5/835/LL	90254	63
F28W/T5/840/LL	90255	63
F28W/T5/865/LL	90256	63
F30W/T8/827/POLYLUX	18138	66
F30W/T8/830/POLYLUX	18141	66
F30W/T8/835/POLYLUX	78132	66
F30W/T8/840/POLYLUX	18142	66
F35/T5/830/WM	88355	63
F35/T5/840/WM	88354	63
F35W/T5/827/LL	90257	63
F35W/T5/830/LL	90258	63
F35W/T5/835/LL	90259	63
F35W/T5/840/LL	90260	63
F35W/T5/865/LL	90261	63
F36/T8/830/32W/WM	96748	66
F36/T8/830/POLYLUX/LL	43508	66
F36/T8/840/32W/WM	96750	66
F36/T8/840/POLYLUX/LL	43509	66
F36W/T8/827/POLYLUX	19977	66
F36W/T8/830/CVG	17208	67
F36W/T8/830/POLYLUX	18192	66
F36W/T8/835/CVG	17202	67
F36W/T8/835/POLYLUX	19991	66
F36W/T8/840/CVG	17209	67
F36W/T8/840/POLYLUX	16856	66
F36W/T8/860/POLYLUX	12942	66
F36W-1M/T8/830/POLYLUX	23260	66
F36W-1M/T8/840/POLYLUX	23262	66
F39/T5/830/WM	88348	63
F39/T5/840/WM	88344	63
F39W/T5/827/LL	90267	64
F39W/T5/830/ECO/CVG	70995	64
F39W/T5/830/LL	90268	64
F39W/T5/835/ECO/CVG	70994	64
F39W/T5/835/LL	90269	64
F39W/T5/840/LL	90270	64
F39W/T5/841/ECO/CVG	70993	64
F39W/T5/850/ECO/CVG	70991	64
F39W/T5/865/ECO/CVG	70990	64
F39W/T5/865/LL	90271	64

Product Description	Product Code	Page No.
F45W/T5/830/ECO/WM/CVG	72985	65
F45W/T5/835/ECO/WM/CVG	72986	65
F45W/T5/841/ECO/WM/CVG	72987	65
F45W/T5/850/ECO/WM/CVG	72988	65
F45W/T5/865/ECO/WM/CVG	72989	65
F49/T5/830/WM	88343	63
F49/T5/840/WM	88336	63
F49W/T5/827/LL	90277	64
F49W/T5/830/LL	90278	64
F49W/T5/835/LL	90279	64
F49W/T5/840/LL	90280	64
F49W/T5/865/LL	90281	64
F4W/T5/33/SL	39441	65
F4W/T5/35/SL	39446	65
F54/T5/830/WM	88328	63
F54/T5/840/WM	88337	63
F54W/T5/827/LL	90272	64
F54W/T5/830/ECO/CVG	48433	64
F54W/T5/830/LL	90273	64
F54W/T5/835/ECO/CVG	48436	64
F54W/T5/835/LL	90274	64
F54W/T5/840/LL	90275	64
F54W/T5/841/ECO/CVG	48458	64
F54W/T5/850/ECO/CVG	80311	64
F54W/T5/865/ECO/CVG	48469	64
F54W/T5/865/LL	90276	64
F58/T8/830/51W/WM	73609	66
F58/T8/830/POLYLUX/LL	43510	66
F58/T8/840/51W/WM	73611	66
F58/T8/840/POLYLUX/LL	43511	66
F58W/T8/827/POLYLUX	93330	66
F58W/T8/830/CVG	12403	67
F58W/T8/830/POLYLUX	93334	66
F58W/T8/835/CVG	12405	67
F58W/T8/835/POLYLUX	93331	66
F58W/T8/840/CVG	12407	67
F58W/T8/840/POLYLUX	93333	66
F58W/T8/860/POLYLUX	12943	66
F6W/T5/33/SL	39445	65
F6W/T5/33/SPECFILL/IND	40307	65
F6W/T5/35/SL	39442	65
F6W/T5/840/SPECFILL/IND	40327	65
F70/T8/830/POLYLUX/LL	43513	66
F70/T8/840/63W WM	73615	66
F70/T8/840/POLYLUX/LL	43514	66
F70W/T8/835/CVG	12423	67
F70W/T8/835/POLYLUX	42792	66
F70W/T8/840/CVG	12424	67
F70W/T8/840/POLYLUX	42793	66
F72T8/CW	10829	67
F80/T5/830/WM	88329	63
F80/T5/840/WM	88332	63
F80W/T5/830/LL	90283	64
F80W/T5/835/LL	90284	64
F80W/T5/840/LL	90285	64
F80W/T5/865/LL	90286	64
F8W/35/T5/SPECFILL/IND	91451	65
F8W/T5/29/SL	37754	65
F8W/T5/33/SL	37755	65
F8W/T5/33/SPECFILL/IND	91450	65
F8W/T5/33/SPECFILL/SL	27011	65
F8W/T5/35/SL	37756	65
F8W/T5/35/SPECFILL/SL	27027	65

Product Description	Product Code	Page No.
F8W/T5/827/IND	37008	65
F8W/T5/840/IND	37009	65
F8W/T5/840/SPECFILL/IND	40331	65
F8W/T5/865/SPECFILL/IND	45034	65
F96PG17/CW	11009	67
F96T12/CW	25619	67
F96T8/CW	10912	67
FC22W/T5/830	75709	65
FC22W/T5/840	75720	65
FC40W/T5/830	75712	65
FC40W/T5/840	75713	65
FC55W/T5/830	75717	65
FC55W/T5/840	75718	65

Compact Fluorescent Lamps Non-Integrated

BLS/E/1X57-70W/QBX 220-240V	13248	80
F10DBX/T3/827/2P	78211	77
F10DBX/T3/827/4P	78217	78
F10DBX/T3/830/2P	78212	77
F10DBX/T3/830/4P	78218	78
F10DBX/T3/835/2P	78213	77
F10DBX/T3/835/4P	78219	78
F10DBX/T3/840/2P	78214	77
F10DBX/T3/840/4P	78220	78
F10DBX/T3/865/2P	78215	77
F10DBX/T3/865/4P	78231	78
F10W/2D/827/4P	88105	80
F10W/2D/835/4P	88106	80
F11BX/827	37663	77
F11BX/827/4P	37717	77
F11BX/830	38928	77
F11BX/835	37666	77
F11BX/840	37664	77
F11BX/840	38986	77
F11BX/840/4P	37713	77
F11BX/865/4P	12603	77
F13DBX/T3/827/2P	78221	77
F13DBX/T3/827/4P	78226	78
F13DBX/T3/830/2P	78222	77
F13DBX/T3/830/4P	78227	78
F13DBX/T3/835/2P	78223	77
F13DBX/T3/835/4P	78228	78
F13DBX/T3/840/2P	78224	77
F13DBX/T3/840/4P	78229	78
F13DBX/T3/865/2P	78225	77
F13DBX/T3/865/4P	78232	78
F13TBX/827/A/2P	35940	78
F13TBX/SPX27/827/A/4P	34391	78
F13TBX/SPX30/830/A/2P	35966	78
F13TBX/SPX30/830/A/4P	34395	78
F13TBX/SPX35/835/A/4P	34400	78
F13TBX/SPX41/840/A/4P	34387	78
F13TBX/SPX41/A/2P	35941	78
F162D/827	41744	80
F162D/827/4P	41746	80
F162D/830/4P	75066	80
F162D/835	41745	80
F162D/835/4P	41747	80
F162D/860	41749	80
F18BX/827	41087	79
F18BX/830	41088	79

Product Description	Product Code	Page No.
F18BX/835	41089	79
F18BX/840	41090	79
F18DBX/SPX27/827/4P	12865	78
F18DBX/SPX30/830/4P	12866	78
F18DBX/SPX35/835/4P	12869	78
F18DBX/SPX41/840/4P	12870	78
F18DBXT4/SPX27/827	12860	77
F18DBXT4/SPX30/830	12861	77
F18DBXT4/SPX35/835	12863	77
F18DBXT4/SPX41/840	12864	77
F18DBXT4/SPX65/865	13017	77
F18TBX/SPX27/827/A/2P	35945	78
F18TBX/SPX27/827/A/4P	34392	78
F18TBX/SPX30/830/A/2P	35944	78
F18TBX/SPX30/830/A/4P	34396	78
F18TBX/SPX35/835/A/2P	35937	78
F18TBX/SPX35/835/A/4P	34405	78
F18TBX/SPX41/840/A/2P	35939	78
F18TBX/SPX41/840/A/4P	34385	78
F212D/827/4P	41794	80
F212D/835/4P	41806	80
F212D/860/4P	41808	80
F24BX/827	41128	79
F24BX/830	41134	79
F24BX/835	41145	79
F24BX/840	41155	79
F26DBX/SPX27/827/4P	35247	78
F26DBX/SPX30/830/4P	35235	78
F26DBX/SPX35/835/4P	35248	78
F26DBX/SPX41/840/4P	35236	78
F26DBX/SPX65/865/4P	42798	78
F26DBXT4/SPX27/827	35250	77
F26DBXT4/SPX30/830	35237	77
F26DBXT4/SPX35/835	35251	77
F26DBXT4/SPX41/840	35252	77
F26DBXT4/SPX65/865	35305	77
F26TBX/SPX27/827/A/2P	35959	78
F26TBX/SPX27/827/A/4P	34393	78
F26TBX/SPX30/830/A/2P	35952	78
F26TBX/SPX30/830/A/4P	34397	78
F26TBX/SPX35/835/A/2P	35963	78
F26TBX/SPX35/835/A/4P	34406	78
F26TBX/SPX41/840/A/2P	35964	78
F26TBX/SPX41/840/A/4P	34381	78
F26TBX/SPX65/865/A/2P	35965	78
F282DT5/827/2P	10546	80
F282DT5/827/4P	10547	80
F282DT5/830/4P	75068	80
F282DT5/835/4P	10567	80
F282DT5/840/4P	10548	80
F32TBX/SPX27/827/AP4P	39377	79
F32TBX/SPX30/830/AP4P	39378	79
F32TBX/SPX35/835/A/4P	39379	79
F32TBX/SPX41/840/A/4P	39380	79
F34BX/830	41163	79
F34BX/835	41166	79
F34BX/840	41167	79
F36BX/827	41307	79
F36BX/830	41168	79
F36BX/835	41169	79
F36BX/840	41170	79
F36BX/865	75694	79
F382DT5/827/4P	10550	80

Index By Product Description

Product Description	Product Code	Page No.
F382DT5/830/4P	75067	80
F382DT5/835/4P	10566	80
F40BX/830	41171	79
F40BX/835	41172	79
F40BX/840	41173	79
F42TBX/827/A/4P	46312	79
F42TBX/830/A/4P	46313	79
F42TBX/835/A/4P	46314	79
F42TBX/841/A/4P	46315	79
F55BX/830	41174	79
F55BX/835	41260	79
F55BX/840	41298	79
F55BX/865	75695	79
F57QBX/827/A/4P/LL	45213	79
F57QBX/830/A/4P/LL	45204	79
F57QBX/835/A/4P/LL	45202	79
F57QBX/840/A/4P/LL	45201	79
F5BX/827/4P	37714	77
F5BX/840/4P	37715	77
F5BX/SPX27/827	37654	77
F5BX/SPX41/840	37661	77
F70QBX/830/A/4P/LL	45208	79
F70QBX/835/A/4P/LL	45219	79
F70QBX/840/A/4P/LL	45218	79
F7BX/827/4P	37658	77
F7BX/830	38930	77
F7BX/840/4P	37716	77
F7BX/865	38984	77
F7BX/SPX27/827	37846	77
F7BX/SPX35/835	37659	77
F7BX/SPX41/840	37660	77
F9BX/827	37651	77
F9BX/827/4P	37710	77
F9BX/830	38929	77
F9BX/840/4P	37711	77
F9BX/865	38985	77
F9BX/SPX35/835	37652	77
F9BX/SPX41/840	37653	77
FLE18W2D/827 GRZ10D	18122	80
FLE18W2D/835 GRZ10D	18123	80
FLE18W2D/840 GRZ10D	18120	80
FLE30W2D/827 GRZ10T	78237	80
FLE30W2D/835 GRZ10T	78238	80
FLE30W2D/840 GRZ10T	78239	80

Compact Fluorescent Lamps Integrated

EFL23W/827/R80/E27	82174	95
EFL23W/830/R80/E27	92246	95
FLE11AG/T2/830/B22	78234	93
FLE11AG/T2/830/E27	77367	93
FLE11AG/T2/865/E27	78687	93
FLE11CDL/T3/827/B22	76202	94
FLE11CDL/T3/827/E14	76198	94
FLE11CDL/T3/827/E27	76201	94
FLE11HLX/T3/827/E27	82926	93
FLE11HLX/T3/865/E27	43271	93
FLE11R63/T2/827/E14	78699	95
FLE11R63/T2/827B22	88850	95
FLE11R63/T2/827E27	88849	95
FLE11R63/T2/840/E14	73405	95
FLE11TBX/T3/827/B22	72690	91
FLE11TBX/T3/827/E14	78690	91
FLE11TBX/T3/827/E14	40831	92
FLE11TBX/T3/827/E27	72689	91
FLE11TBX/T3/827/E27	40837	92
FLE11TBX/T3/840/E14	88709	91
FLE11TBX/T3/865/B22	75731	91
FLE11TBX/T3/865/E14	88712	91
FLE11TBX/T3/865/E27	75730	91
FLE12GLS/T2/827/B22	88208	93
FLE12GLS/T2/827/E14	88177	93
FLE12GLS/T2/827/E27	88209	93
FLE12GLS/T2/840/E14	88149	93
FLE12GLS/T2/840/E27	88150	93
FLE12HLX/T2/827/B22	78190	92
FLE12HLX/T2/827/B22	72716	92
FLE12HLX/T2/827/E14	76155	92
FLE12HLX/T2/827/E14	72714	92
FLE12HLX/T2/827/E27	76157	92
FLE12HLX/T2/827/E27	72715	92
FLE12HLX/T2/840/E14	78191	92
FLE12HLX/T2/840/E27	78192	92
FLE12HLX/T2/865/E14	78193	92
FLE12HLX/T2/865/E14	71004	92
FLE12HLX/T2/865/E27	78194	92
FLE12HLX/T2/865/E27	71005	92
FLE15AG/T2/830/B22	78235	93
FLE15AG/T2/830/E27	77366	93
FLE15AG/T2/865/E27	78688	93
FLE15GG/827/B22	96779	94
FLE15GG/827/E27	96776	94
FLE15GG/840/E27	96778	94
FLE15GLS/T3/827/B22	88175	93
FLE15GLS/T3/827/E27	88176	93
FLE15GLS/T3/840/E27	88148	93
FLE15HLX/T2/827/B22	78195	92
FLE15HLX/T2/827/B22	72718	92
FLE15HLX/T2/827/E27	76156	92
FLE15HLX/T2/827/E27	72717	92
FLE15HLX/T2/840/E27	78196	92
FLE15HLX/T2/865/E27	78197	92
FLE15HLX/T2/865/E27	71006	92
FLE15TBX/T3/827/B22	88713	91
FLE15TBX/T3/827/E27	72688	91
FLE15TBX/T3/827/E27	26447	92
FLE15TBX/T3/840/B22	88715	91
FLE15TBX/T3/840/E27	88714	91
FLE15TBX/T3/865/B22	88717	91
FLE15TBX/T3/865/E27	88716	91
FLE20AG/T3/830/B22	78236	93
FLE20AG/T3/830/E27	77365	93
FLE20AG/T3/865/E27	78689	93
FLE20GG/827/B22	75675	94
FLE20GG/827/E27	96780	94
FLE20GG/840/E27	96794	94
FLE20GLS/T3/827/E27	82151	93
FLE20HLX/T2/827/B22	78198	92
FLE20HLX/T2/827/B22	88681	92
FLE20HLX/T2/827/E27	76158	92
FLE20HLX/T2/827/E27	88680	92
FLE20HLX/T2/840/E27	78199	92
FLE20HLX/T2/840/E27	88684	92
FLE20HLX/T2/865/B22	78201	92
FLE20HLX/T2/865/E27	78200	92
FLE20HLX/T2/865/E27	88685	92
FLE20HLX/T3/827/B22	97031	92
FLE20HLX/T3/827/B22	88123	93
FLE20HLX/T3/827/E27	97030	92
FLE20HLX/T3/827/E27	82941	93
FLE20HLX/T3/865/E27	43270	93
FLE20TBX/T3/827/B22	88719	91
FLE20TBX/T3/827/E27	88718	91
FLE20TBX/T3/827/E27	82911	92
FLE20TBX/T3/840/B22	88721	91
FLE20TBX/T3/840/E27	88720	91
FLE20TBX/T3/865/B22	88723	91
FLE20TBX/T3/865/E27	88722	91
FLE22/CLITE/T5/827/E27	73767	95
FLE22/CLITE/T5/865/E27	73768	95
FLE23GG/827/B22	96791	94
FLE23GG/827/E27	96793	94
FLE23GG/840/E27	96790	94
FLE23HLX/T2/827/B22	88687	92
FLE23HLX/T2/827/E27	76159	92
FLE23HLX/T2/827/E27	88686	92
FLE23HLX/T2/840/E27	78202	92
FLE23HLX/T2/840/E27	88690	92
FLE23HLX/T2/865/E27	78203	92
FLE23HLX/T2/865/E27	88691	92
FLE23QBX/T3/827/B22	75039	91
FLE23QBX/T3/827/E27	75268	91
FLE23QBX/T3/840/B22	97001	91
FLE23QBX/T3/840/E27	97000	91
FLE23QBX/T3/865/B22	97007	91
FLE23QBX/T3/865/E27	97006	91
FLE32HLX/T4/827E27/HPF	76152	93
FLE5CDL/T2/827/B22	88853	94
FLE5CDL/T2/827/E14	75676	94
FLE5CDL/T2/827/E27	78698	94
FLE5CDL/T2/840/E14	73408	94
FLE5CDL/T2/840/E27	73410	94
FLE5SPH/T2/827/B22	88841	93
FLE5SPH/T2/827/E14	88839	93
FLE5SPH/T2/827/E27	78691	93
FLE5SPH/T2/840/E14	73387	93
FLE5SPH/T2/840/E27	73389	93
FLE5TWSTCDL/AMBER E14	78692	94
FLE5TWSTCDL/AMBER/E14	72706	94
FLE5TWSTCDL/OP/827/E14	78693	94
FLE7BTCDL/OP/827/E14	88162	94
FLE7CDL/T2/827/B22	88856	94
FLE7CDL/T2/827/E14	75677	94
FLE7CDL/T2/827/E27	75311	94
FLE7CDL/T2/840/E14	73451	94
FLE7CDL/T2/840/E27	73453	94
FLE7GU10/T2/827	73454	95
FLE7R50/T2/827/B22	78700	95
FLE7R50/T2/827/E14	88845	95
FLE7R50/T2/827/E27	78701	95
FLE7R50/T2/840/E14	73403	95
FLE7SPH/T2/827/B22	88844	93
FLE7SPH/T2/827/E14	88842	93
FLE7SPH/T2/827/E27	75313	93
FLE7SPH/T2/840/E14	73402	93
FLE7SPH/T2/840/E27	73398	93
FLE7TWSTCDL/AMBER E14	78694	94

Product Description	Product Code	Page No.
FLE7TWSTCDL/AMBER/E14	72707	94
FLE7TWSTCDL/OP/827/B22	73375	94
FLE7TWSTCDL/OP/827/E14	75312	94
FLE7TWSTCDL/OP/827/E27	78695	94
FLE8GLS/T2/827/B22	88179	93
FLE8GLS/T2/827/E14	88178	93
FLE8GLS/T2/827/E27	88180	93
FLE8GLS/T2/840/E14	88151	93
FLE8GLS/T2/840/E27	88152	93
FLE8HLX/T2/827/B22	78156	92
FLE8HLX/T2/827/B22	72713	92
FLE8HLX/T2/827/E14	76153	92
FLE8HLX/T2/827/E14	72711	92
FLE8HLX/T2/827/E27	76154	92
FLE8HLX/T2/827/E27	72712	92
FLE8HLX/T2/840/E14	78157	92
FLE8HLX/T2/840/E27	78188	92
FLE8HLX/T2/865/E14	71002	92
FLE8HLX/T2/865/E27	78189	92
FLE8HLX/T2/865/E27	71003	92
FLE9AG/T2/830/B22	78233	93
FLE9AG/T2/830/E27	77368	93
FLE9AG/T2/865/E27	78686	93
FLE9GU10/T2/827	78702	95
FLE9TBX/T3/827/B22	88696	91
FLE9TBX/T3/827/E14	88697	91
FLE9TBX/T3/827/E14	40828	91
FLE9TBX/T3/827/E14	40828	92
FLE9TBX/T3/827/E27	88695	91
FLE9TBX/T3/827/E27	82896	91
FLE9TBX/T3/827/E27	82896	92
FLE9TBX/T3/840/B22	88699	91
FLE9TBX/T3/840/E14	88700	91
FLE9TBX/T3/840/E27	88698	91
FLE9TBX/T3/865/B22	88702	91
FLE9TBX/T3/865/E14	88703	91
FLE9TBX/T3/865/E27	88701	91
FLE9TWSTCDL/OP/827/E14	78696	94
FLE9TWSTCDL/OP/827/E27	78697	94

Halogen Lamps

100PAR30/230/FL	32484	108
100PAR30/240/FL	32482	108
100W HALO A CL B22 240V	76942	108
100W HALO A CL E27 230V	76944	108
100W HALO A CL E27 240V	76941	108
18W HALO C CL B22 240V	76938	109
18W HALO C CL E14 230V	76940	109
18W HALO C CL E14 240V	76937	109
18W HALO S CL B22 240V	76563	109
18W HALO S CL E14 230V	76567	109
18W HALO S CL E14 240V	76562	109
18W HALO S CL E27 230V	76565	109
28W HALO A CL B22 240V	76955	108
28W HALO A CL E27 230V	76957	108
28W HALO A CL E27 240V	76954	108
28W HALO C CL B15 240V	76932	109
28W HALO C CL B22 240V	76931	109
28W HALO C CL E14 230V	76936	109
28W HALO C CL E14 240V	76930	109
28W HALO C CL E27 230V	76934	109
28W HALO C CL E27 240V	76929	109

Product Description	Product Code	Page No.
28W HALO R50 E14 230V	76546	109
28W HALO R50 E14 240V	76544	109
28W HALO S CL B15 240V	76557	109
28W HALO S CL B22 240V	76556	109
28W HALO S CL E14 230V	76561	109
28W HALO S CL E14 240V	76555	109
28W HALO S CL E27 230V	76559	109
28W HALO S CL E27 240V	76554	109
40PAR16/230/FL	27826	108
40PAR16/240/FL	27845	108
42W HALO A CL B22 240V	76951	108
42W HALO A CL E27 230V	76953	108
42W HALO A CL E27 240V	76950	108
42W HALO C CL B15 240V	76571	109
42W HALO C CL B22 240V	76570	109
42W HALO C CL E14 230V	76575	109
42W HALO C CL E14 240V	76569	109
42W HALO C CL E27 230V	76573	109
42W HALO C CL E27 240V	76568	109
42W HALO R63 E27 230V	76543	109
42W HALO R63 E27 240V	76541	109
42W HALO R80 E27 230V	76540	109
42W HALO R80 E27 240V	76538	109
42W HALO S CL E14 230V	76553	109
42W HALO S CL E27 230V	76551	109
42W HALOS CL B22 240V	76549	109
42W HALOS CL E14 240V	76548	109
42W HALOS CL E27 240V	76547	109
50PAR20/230/FL	40362	108
50PAR20/230/SP	40363	108
50PAR20/240/FL	40365	108
50PAR20/240/SP	40364	108
70W HALO A CL B22 240V	76946	108
70W HALO A CL E27 230V	76948	108
70W HALO A CL E27 240V	76945	108
70W HALO R80 E27 230V	76537	109
75PAR25/230/FL	91775	108
75PAR25/240/FL	92165	108
75PAR30/230/FL	40349	108
75PAR30/230/SP	40366	108
75PAR30/240/FL	40361	108
75PAR30/240/SP	40367	108
AR111 100W12V FL	41922	104
AR111 100W12V SP	41915	104
AR111 100W12V WFL	41923	104
AR111 35W12V FL	10775	104
AR111 35W12V SP	10774	104
AR111 50W12V FL	10767	104
AR111 50W12V SP	10766	104
AR111 75W12V FL	10769	104
AR111 75W12V SP	10768	104
AR111 75W12V WFL	10771	104
BAB/CG	20857	103
ESX/CG	20858	103
EXN/CG	20867	103
EXT/CG	20872	103
EXZ/CG	20871	103
EYC/CC	20840	103
EYC/CG	20873	103
EYF/CG	20876	103
EYJ/CC	20841	103
EYJ/CG	20874	103
FMW/CG	20859	103

Product Description	Product Code	Page No.
FNV/CG	20865	103
FRA/CG	20860	103
FRB/CG	20864	103
FRB/CG/EC	38013	104
Halo T38/1000W/E40/230	32108	108
Halo T38/1000W/E40/240	32109	108
K1 C330W 230V R7S	76207	107
K1 C330W 240V R7S	76527	107
K1/Q375 T3/230V HIR	31598	107
K1/Q375 T3/240V HIR	31612	107
K1/Q500 T2.5/CL	29161	107
K1/Q500 T2.5/CL	29165	107
K1/Q500 T2.5/CL	29168	107
K10/1000 T3/CL	43712	107
K11 C130W 230V R7S	76209	107
K11 C130W 240V R7S	76529	107
K12 C100W 230V R7S	76210	107
K12 C100W 240V R7S	76530	107
K4/Q1000 T3/CL	29180	107
K4/Q1000 T3/CL	29181	107
K5/Q1500 T3/CL	29184	107
K5/Q1500 T3/CL	23830	107
K5/Q1500 T3/CL	29187	107
K5/Q1500 T3/CL	23832	107
K8/Q2000 T3/CL	30886	107
K9 C200W 230V R7S	76208	107
K9 C200W 240V R7S	76528	107
K9/Q225 T3/230V HIR	91515	107
K9/Q225 T3/240V HIR	43299	107
M11/H10 G4	34674	106
M11/Q10/G4 ST	12708	106
M180/Q100/GY6.35	34664	106
M199/FTH	19634	103
M249/EXT/CG/EC	38014	104
M250/EXZ/CG	88237	104
M250/EXZ/CG/EC	39611	104
M251/FTC/CG	19636	103
M258/EXN/CG	88239	104
M258/EXN/CG/AL	88215	104
M258/EXN/CG/EC	38011	104
M262/FTD/CG	19625	103
M264/FTA/CG	19639	103
M266/FTF/CG	19627	103
M268/ESX/CG/EC	38012	104
M269/BAB/CG	88235	104
M269/BAB/CG/AL	88216	104
M269/BAB/CG/EC	38006	104
M28/Q100 GY6.35	34676	106
M280/FNV/CG	88238	104
M280/FNV/CG/EC	39236	104
M280/FNW/CG/AL	88214	104
M281/FMW/CG	88236	104
M281/FMW/CG/AL	88217	104
M281/FMW/CG/EC	38007	104
M29/Q10 G4	34720	106
M30/ESB/Q20 G4	34718	106
M313/Q75/GY6.35	34682	106
M32/Q50 GY6.35	34702	106
M32/Q50/GY6.35 ST	12713	106
M34/FHE/Q20 G4	34719	106
M35/Q20 G4	34714	106
M42/Q10 G4	34728	106
M47/Q20 G4	34715	106

Index By Product Description

Incandescent Lamps

Product Description	Product Code	Page No.
M47/Q20/G4 ST	12711	106
M58/EXN	88234	104
M58/EXN/EC	38002	104
M62/FTD	19626	103
M66/FTF	19635	103
M67/Q100 GY6.35 24V	34663	106
M69/BAB	88231	104
M69/BAB/EC	38000	104
M73/Q75/GY6.35	34683	106
M74/Q50/GY6.35	34703	106
M75/Q35/GY6.35	34710	106
M76/Q20/GY6.35	34712	106
M80/FNV	88232	104
M81/FMW	88229	104
M81/FMW/EC	38001	104
M9/H5 G4	42959	106
M95/Q35/GY6.35	34708	106
M95/Q35/GY6.35 ST	12712	106
MR16 IR 20W 12V WFL	77657	103
MR16 IR 35W 12V WFL	77658	103
Q100/GY6.35 ST	12718	106
Q10T2,5/12V G4	35705	106
Q20MR16/230/FL	10898	105
Q20MR16/240/FL	10859	105
Q20MR16HIR/CCG10	77900	103
Q20MR16HIR/CCG24	77901	103
Q20MR16HIR/CCG36	77902	103
Q20T2,5/12V G4	35710	106
Q20T3/12V GY6.35	35696	106
Q30MR16HIR/CCG10	79584	103
Q30MR16HIR/CCG24	79585	103
Q30MR16HIR/CCG36	79586	103
Q35MR16/230/FL	10896	105
Q35MR16/240/FL	10857	105
Q35MR16HIR/CCG10	77904	103
Q35MR16HIR/CCG24	77905	103
Q35MR16HIR/CCG36	77906	103
Q35T3/12V GY6.35	35699	106
Q45MR16HIR/CCG10	77907	103
Q45MR16HIR/CCG24	77908	103
Q45MR16HIR/CCG36	77909	103
Q50MR16/230/25°	40402	105
Q50MR16/230/36°	40403	105
Q50MR16/230/FL	92729	105
Q50MR16/240/25°	40404	105
Q50MR16/240/36°	40405	105
Q50MR16/240/FL	92730	105
Q50MR16/240/FL START	12988	105
Q50MR16/240/FL START	12995	105
Q50MR16/240/FL START	13003	105
Q50T3/12V GY6.35	35700	106
Q75T3/12V GY6.35	35701	106
SHORTG9 25W CL 230V	45692	106
SHORTG9 25W CL 240V	88941	106
SHORTG9 40W CL 230V	22504	106
SHORTG9 40W CL 240V	22498	106

Product Description	Product Code	Page No.
100A1/CL/B22	21634	115
100A1/CL/B22	18117	115
100A1/CL/E27	22422	115
100A1/CL/E27	21669	115
100A1/CL/E27	19949	115
100A1/CL/E27 24V	35174	116
100A1/F/B22	21665	115
100A1/F/E27	21677	115
100A1/F/E27	19956	115
100A1/F/E27 24V	91873	116
100A1/F-RS/E27	91227	116
100A1/P/GRS/B22	31560	116
100A1/P/GRS/E27	31573	116
100A65/CL/E27	22620	116
100PAR/FL/IR/E27	92060	120
100R80/E27	91345	120
100R80/PL/E27	42837	120
100R80S/E27	92860	119
100R95/E27	91366	119
120PAR/WMISER/FL/E27	91573	120
120PAR/WMISER/SP/E27	91576	120
150/IR/F/E27	91288	121
150A65/CL/E27	22566	115
150A65/FR/E27	22568	115
150R/IR/CL/E27	28720	120
150R/IR/R/E27	91372	121
150R95/E27	91367	119
15A1/CL/E27	23546	115
15D1/B/E14	92001	117
15D1/B/E27	91522	117
15D1/CL/B22	91911	117
15D1/CL/E14	92002	117
15D1/CL/E27	91917	117
15D1/F/E27	90569	117
15D1/G/E14	92004	117
15D1/G/E27	91521	117
15D1/ORANGE/E27	90528	117
15D1/R/E14	90525	117
15D1/R/E27	90531	117
15D1/Y/E14	90526	117
15D1/Y/E27	90527	117
15P1/B/E14	12318	122
15P1/CL E14	73478	122
15P1/CL/B22	31811	122
15P1/CL/E14	31821	122
15P1/CL/E14	12512	122
15P1/CL/E14	91950	122
15P1/CL/E14	92046	122
15P1/F/E14	92047	122
15P1/G/E14	12587	122
15P1/OVEN22/CL/E14	12447	122
15P1/R/E14	12585	122
15P1/RS/CL/E14	93301	122
15P1/Y/E14	12586	122
15T25/CL/E14	13118	123
15TC1/CL/E14	10823	118
175PAR/IR/E27	91542	120
200A1/CL/E27	91127	115
200A1/F/E27	91128	115
250R/IR/CL/E27	28724	120
250R/IR/F/E27	91390	121

Product Description	Product Code	Page No.
250R/IR/R/E27	91391	121
25A1/B/E27	90924	116
25A1/CL/E27	23547	115
25A1/CL/E27 24V	35178	116
25A1/G/E27	90920	116
25A1/O/E27	90923	116
25A1/R/E27	90922	116
25A1/Y/E27	90921	116
25C1/BT/FR/E14	27148	119
25C1/CL/E14	90488	118
25C1/CL/E27	10870	118
25C1/F/E14	91322	118
25C1/FR/E14	91680	118
25C1/O/E27	10875	118
25C1/SL/E14	90483	118
25D1/CL/E14	19781	117
25D1/CL/E14	19775	117
25D1/CL/E27	90564	117
25D1/CL/E27	12513	123
25D1/F/E27	90566	117
25D1/FR/E14	19777	117
25D1/SB/E14	19796	117
25P/E14/CL	73479	122
25P1/CL/E14	91955	122
25P1/CL/E14	34420	122
25P1/F/E14	92048	122
25P1/OVEN/T25/CL	45330	122
25P1/OVEN25/CL/E14	43381	122
25R39/E14	91523	119
25R50/E14	92373	119
25T25/CL/E14	13119	123
25T28/CL/E14	13109	123
25TC1/CL/E14	10826	118
25TC1/F/E14	10831	118
275R/IR/CL/E27	32569	120
275R/IR/SA/E27	32296	121
300A1/CL/E27	91226	115
300A1/CL/E40	91724	115
30R39/E14	91524	119
35SL/O/300/2S14	91487	123
35SL/O/300/S14	91505	123
40A1/CL/B22	21619	115
40A1/CL/B22 24V	91879	116
40A1/CL/E27	21666	115
40A1/CL/E27	19946	115
40A1/CL/E27 24V	91876	116
40A1/F/E27	21671	115
40A1/F/E27	19952	115
40A1/F/E27 24V	91874	116
40A1/F-RS/E27	91228	116
40C1/BT/FR/E14	27151	119
40C1/CL/E14	91674	118
40C1/CL/E14	90487	118
40C1/CL/E27	10871	118
40C1/F/E14	91323	118
40C1/FR/E14	91682	118
40C1/O/E27	10877	118
40C1/SL/E14	90482	118
40C1BT/CL/B15	27160	119
40C1BT/CL/B22	27158	119
40C1BT/CL/E14	27190	119

Product Description	Product Code	Page No.
40D1/CL/B22	91989	117
40D1/CL/E14	19788	117
40D1/CL/E14	19782	117
40D1/CL/E14	12462	123
40D1/CL/E27	90565	117
40D1/CL/E27	12515	123
40D1/F/E14	19789	117
40D1/F/E27	90567	117
40D1/FR/E14	19778	117
40R50/B/E14	91387	121
40R50/E14	92366	119
40R50/G/E14	91389	121
40R50/NEO/E14	91393	120
40R50/R/E14	91386	121
40R50/Y/E14	91388	121
40R63/B/E27	91530	121
40R63/E27	91079	119
40R63/G/E27	91533	121
40R63/PL/E27	47978	120
40R63/R/E27	91532	121
40R63/Y/E27	91531	121
40R80S/E27	92858	119
40T28/CL/E14	13110	123
40T45/SL/E14	90562	118
40TC1/CL/E14	10827	118
40TC1/F/E14	10832	118
42V60/F/E27	29051	116
60A1/CL/B22	21629	115
60A1/CL/B22 24V	91878	116
60A1/CL/E27	21667	115
60A1/CL/E27	19947	115
60A1/CL/E27 24V	91877	116
60A1/CL/E27/TSR	35239	116
60A1/F/B22	21663	115
60A1/F/E27	22433	115
60A1/F/E27	21673	115
60A1/F/E27	19954	115
60A1/F/E27 24V	91875	116
60A1/F-RS/E27	91229	116
60A1/P/VRS/B22	31535	116
60A1/P/VRS/E27	31546	116
60A1/SB/E27	91131	117
60C1/CL/E14	91678	118
60C1/CL/E14	90480	118
60C1/CL/E27	10873	118
60C1/F/E14	91534	118
60C1/FR/E14	91683	118
60C1/O/E27	10878	118
60C1/SL/E14	90481	118
60C1BT/CL/B15	27164	119
60C1BT/CL/B22	27162	119
60C1BT/CL/E14	27192	119
60C1BT/FR/E14	27176	119
60D1/CL/E14	19791	117
60D1/CL/E14	19784	117
60D1/CL/E27	91593	117
60D1/F/E14	19793	117
60D1/F/E27	90568	117
60D1/FR/E14	19786	117
60PAR/WMISER/FL/E27	91575	120
60R50/E14	91327	119

Product Description	Product Code	Page No.
60R63/E27	91080	119
60R63/E27	91340	120
60R63/PL/E27	42831	120
60R80/B/E27	91525	121
60R80/E27	91344	120
60R80/G/E27	91526	121
60R80/PL/E27	42830	120
60R80/R/E27	91528	121
60R80/Y/E27	91527	121
60R80S/E27	92839	119
60SL/O/500/2S14	91488	123
60SL/O/500/S14	91486	123
60T28/CL/E14	13111	123
60T45/SL/E14	91952	118
60TC1/CL/E14	10828	118
60TC1/F/E14	10833	118
70A1/CL/E27	35238	116
75A1/CL/B22	21633	115
75A1/CL/E27	88165	115
75A1/CL/E27	21668	115
75A1/CL/E27	19948	115
75A1/F/B22	21664	115
75A1/F/E27	21675	115
75R80S/E27	92859	119
75R95/E27	91351	119
80PAR/WMISER/FL/B/E27	91578	121
80PAR/WMISER/FL/E27	91574	120
80PAR/WMISER/FL/G/E27	91543	121
80PAR/WMISER/FL/R/E27	91540	121
80PAR/WMISER/FL/Y/E27	91539	121
80PAR/WMISER/SP/E27	91577	120

SHOWBIZ™ Lamps

4405	24425	130
4502	24627	130
4505	24640	130
4509	24650	130
4511	24663	130
4515	24673	130
4545	24768	131
4552	40576	132
4553	24799	130
4559	40578	132
4580	24859	130
4581	24862	130
4587	24867	130
4593	24887	130
4594	24891	130
4596	24898	130
4626	24964	130
4627	24966	130
120PAR56/MFL	19024	131
120PAR56/WFL	19025	131
200PAR	20122	131
240PAR56/VNSP	20575	131
240PAR56/WFL	20577	131
25PAR36	14553	130
25PAR36/WFL	14555	130
300PAR56/MFL	20836	131
300PAR56/MFL	20852	131

Product Description	Product Code	Page No.
300PAR56/MFL	18677	131
300PAR56/NSP	20803	131
300PAR56/NSP	20853	131
300PAR56/NSP	18676	131
300PAR56/WFL	23427	131
300PAR56/WFL	20849	131
300PAR56/WFL	20854	131
300PAR56/WFL	18678	131
4509X	41503	130
4537-2	40822	130
500/PAR64/MFL	39411	132
500/PAR64/W FL	39414	132
500PAR64/MFL	39409	132
50PAR36/NSP	16540	130
50PAR36/VNSP	12892	130
50PAR36/VWFL	16542	130
50PAR36/WFL	16541	130
50PAR36/WFL/H	19880	130
99-0201 CSI	88495	128
99-0221 CSI	88494	128
99-0222 CID	88493	128
99-1222 CSI CS	88514	128
99-1422 CSI HR	88513	128
A1/244	88460	135
A1/248	88492	135
A1/249	88491	135
BCM-020MT324CL	48773	134
BCM-020MT324CL	48774	134
BRJ/EVB A1/234	18235	135
BRL A1/220	18234	135
BTM	88546	134
CMH150/PAR64/830/GX16d/MFL	88537	128
CMH150/PAR64/830/GX16d/SP	88545	128
CMH150/PAR64/830/GX16d/WFL	16960	128
CMH150/PAR64/942/GX16d/MFL	88542	128
CMH150/PAR64/942/GX16d/SP	88543	128
CMH150/PAR64/942/GX16d/WFL	88541	128
CMH400/932/GX9.5	73579	128
CMH400/941/GX9.5	73580	128
CP105	88880	135
CP110 OC1200	88439	134
CP23	72680	134
CP23	88455	134
CP24	88459	134
CP29	88875	134
CP29	88876	134
CP30	88877	135
CP32	88879	135
CP39 FKH	88531	134
CP40 FKJ	88458	134
CP40 FKJ	88538	134
CP41 FKK	88489	134
CP41 FKK	88488	134
CP43 FTL	96735	134
CP43 FTL	88533	134
CP51 FKM	88530	134
CP52 FKN	88496	134
CP53	88532	135
CP58	88878	135
CP59	88512	135
CP60 EXC SUPER	88425	132

Index By Product Description

Product Description	Product Code	Page No.
CP60 EXC SUPER	88551	132
CP61 EXD SUPER	88535	132
CP61 EXD SUPER	88550	132
CP62 EXE SUPER	88549	132
CP62 EXE SUPER	88536	132
CP70 FVA	88472	134
CP70 FVA	88471	134
CP77 FEP	88449	133
CP79	88503	134
CP81 FKW	88443	133
CP81 FSK	88444	133
CP81 FSL	88433	133
CP82 FRG	88467	133
CP82 FRH	88466	133
CP82 FRJ	88464	133
CP83	12036	134
CP83	12037	134
CP86 PAR64/VNSP	73581	132
CP86 PAR64/VNSP	99944	132
CP87 PAR64/NSP	25504	132
CP87 PAR64/NSP	99945	132
CP87 PAR64/NSP	99946	132
CP88 PAR64/MFL	99947	132
CP88 PAR64/MFL	99948	132
CP89 FRK	88462	133
CP89 FRM	88461	133
CP90	88453	134
CP91	88505	134
CP92	88507	134
CP92	88506	134
CP93	88508	134
CP94	88502	134
CP95	88511	132
CP95	88510	132
CSD250/2/SE	27817	127
CSD250/2/SE BULK	21328	127
CSR1200/2/SE	49490	127
CSR1200/DE	48453	127
CSR1200/S/DE/60/STB	96802	127
CSR1200/SE/HR	48464	127
CSR1200/SE/HR/UV-C	27764	127
CSR12000/DE	48457	127
CSR12000/SE/HR	48468	127
CSR1200S/DE/60	22494	127
CSR1200SA	21849	128
CSR125/SE/HR	48461	127
CSR1500/S/DE/STB	96800	127
CSR1500/TAL/60/S	74873	127
CSR1800/SE/HR/UV-C	77390	127
CSR18000/DE	48459	127
CSR18000/SE/HR	22496	127
CSR200/DE	48450	127
CSR200/SE/HR/UV-C	48462	127
CSR2000SA	21801	128
CSR24000/DE	78710	127
CSR2500/DE	48454	127
CSR2500/SE/HR	48465	127
CSR2500/SE/HR/UV-C	40482	127
CSR300/2/TAL	76160	127
CSR400/S/DE/70	22478	127
CSR400/S/DE/90	45232	127
CSR400/SE/HR/75	45238	127
CSR400/SE/HR/UV-C	21853	127

Product Description	Product Code	Page No.
CSR4000/DE	48455	127
CSR4000/SE/HR	48466	127
CSR4000/SE/HR/UV-C	27765	127
CSR575/2/SE	15378	127
CSR575/2/T/SE	49492	127
CSR575/DE	70979	127
CSR575/DE/70 BULK	70978	127
CSR575/SE/HR	48463	127
CSR575/SE/HR/UV-C	40460	127
CSR575/SS/DE/75	45231	127
CSR6000/DE	48456	127
CSR6000/SE/HR	48467	127
CSR6000/SE/HR/UV-C	40492	127
CSR700/2/SE	49491	127
CSR700/S/DE/60	22493	127
CSR700/S/DE/72	41357	127
CSR700/TAL/60/PGJX28	78718	127
CSR700/TAL/60/PGJX50	76161	127
CSR700SA	15380	128
CSR700SA/72	45234	128
CSR800/SE/HR/UV-C	22495	127
CSS150/850/GY9.5	88485	128
CYX	88610	134
DDL	43537	136
DDS	43988	136
DED	43950	136
DKZ/DSE	19926	135
DWE	41667	130
DXW	30157	135
DXX	36952	135
DXX	36953	135
DYR A1/233	26895	135
DZA	37346	135
DZE/FDS A1/262	37695	135
EGE	88617	134
EGJ	88615	134
EGN	88509	134
EGT	88622	134
EHD	88624	133
EHF	88627	133
EHG	88626	133
EHJ A1/223	14874	135
EJA	32882	136
EJG	23756	135
EJL A1/252	29150	136
EKE	35200	136
EKZ	36902	136
ELC A1/259	37462	136
ELC500	15377	136
ELD/EJN	38306	136
ELH	38476	136
ENH	38686	136
ENL	25475	137
ENX	41705	137
EPT	41729	137
EPV	41882	137
EPX	42614	137
ERV	41874	137
EVD A1/239	41164	135
EXG/PAR64/WFL	88480	132
EXG/PAR64/WFL	88479	132
EXR	12092	137
EXY	12097	137

Product Description	Product Code	Page No.
F18T8/BLB	88832	129
F20T12/BLB	34747	129
F20T12/CINEMA32/HO/CVG	15775	129
F20T12/CINEMA55/HO/CVG	15776	129
F24T8CINEMA32/CVG	72658	129
F24T8CINEMA55/CVG	72659	129
F36T8/BLB	88833	129
F40T12/BLB	25618	129
F40T12/CINEMA32/HO/CVG	15782	129
F40T12/CINEMA55/HO/CVG	15783	129
F48T8/Cinema32/CVG	81207	129
F48T8/Cinema55/CVG	81208	129
F55BX/CINPLUS/32	41903	129
F55BX/CINPLUS/55	41911	129
F55BX/StudioBiax32	41869	129
F55BX/StudioBiax56	41873	129
FAD	30325	135
FBO	41671	130
FBY	30374	135
FCR A1/215	14876	135
FCS A1/216	13598	135
FCX	41673	130
FEL	88625	133
FEY	88629	135
FFN	13233	132
FFP	13229	132
FFR	13228	132
FFS	13227	132
FKE	88499	134
FKR	88450	133
FLK	88548	133
FLK-LL	88452	133
FLT	25261	137
FMR	88504	133
FNT	18241	135
FXL	21613	137
GKV	88448	133
GKV	88447	133
GKV/LL	88446	133
GKV/LL	88445	133
H4515	15133	130
H7604	43576	130
H7635	43591	130
HPL 575	88478	133
HPL 575	88477	133
HPL 575-C	88436	133
HPL 575-C	88438	133
HPL 575-C LL-X	88434	133
HPL 575-C LL-X	88435	133
HPL 575-X LL	88476	133
HPL 575-X LL	88475	133
HPL 750	88474	133
HPL 750	88473	133
HPL 750-C	88437	133
HPL 750-C-XLL	88428	133
HPL 750-X-LL	88430	133
HPL 750-X-LL	88429	133
HX185	88484	135
HX48	88874	134
HX800	88432	133
M28/EVA	34676	136
M29/ESA	34720	136
M30/ESB	34718	136

Product Description	Product Code	Page No.
M32	34702	136
M33	34768	136
M36	88516	136
M38	88442	136
M38	78343	136
M40	88468	136
P2/10	19697	135
P2/10	19698	135
P2/11 EME/Clear	23760	135
P2/11 EMF/Frosted	23761	135
P2/12	19695	135
P2/12	19696	135
P2/27 FEX	88482	135
P2/27 FEX	88481	135
P2/28 FCM	23797	135
P2/7 EKM	20249	135
P2/7 EKM	20253	135
Q1000PAR64/MFL	43498	132
Q1000PAR64/NSP	43497	132
Q1000PAR64/WFL	43499	132
Q12MT26/4CL	48771	134
Q12MT26/4CL	48779	134
Q24MT32/4CL	48777	134
Q4554	37706	130
Q4559	40579	132
Q4559X	42552	132
Q4681	36271	130
Q500PAR56/MFL	43495	131
Q500PAR56/NSP	43494	131
Q500PAR56/WFL	43496	131
T11	88456	134
T11 Q1000T8/CL	88515	134
T12	88431	134
T13 FKB	88497	134
T14 FKD	88529	134
T16	88500	135
T17 FKF	88498	134
T18 GCW	88465	133
T19 FWR	88457	134
T25 GCW	88470	133
T26 GCS	88463	133
T27 GCS	88469	133
T28	88451	134
T29 FWT	88454	134

Specialty Lamps

1200T20	88523	147
AF6/2 6.6A 45W	88420	147
AF6/5T 6.6A 100W	88417	147
AF7/2 6.6A 200W	88413	147
EXL	11478	147
EXM	11482	147
F11BX BL G23	42936	143
F13BX BL GX23	42937	143
F15T8 F&SA	44212	145
F15T8 REP	44239	145
F15T8 SW	16987	145
F15T8 SW	44230	145
F15WBL 350	16941	143
F15WBLCVG	72939	143
F18/T8/BLB	88832	143
F18T8 F&SA	44213	145

Product Description	Product Code	Page No.
F18T8 REP	44240	145
F18T8 SW	44231	145
F18W/830CVG	17203	144
F18W/835CVG	17204	144
F18W/840CVG	17205	144
F20W/T12/BLB	34747	143
F24BX BL 2G11	42939	143
F24W/T5/830/ECO/CVG	71000	145
F24W/T5/835/ECO/CVG	70998	145
F24W/T5/841/ECO/CVG	70997	145
F24W/T5/850/ECO/CVG	70999	145
F24W/T5/865/ECO/CVG	70996	145
F25T8 F&SA	16968	145
F25T8 SW	16991	145
F30T8 F&SA	16969	145
F30T8 F&SA	44218	145
F30T8 REP	44241	145
F30T8 SW	16992	145
F30T8 SW	44235	145
F36/T8/BLB	88833	143
F36BX BL 2G11	42940	143
F36T8 F&SA	16970	145
F36T8 F&SA	44219	145
F36T8 REP	44242	145
F36T8 SW	16995	145
F36T8 SW	44236	145
F36W/830CVG	17208	144
F36W/835CVG	17202	144
F36W/840CVG	17209	144
F38T8 F&SA	44220	145
F38T8 FA	16984	145
F38T8 SW	16999	145
F39W/T5/830/ECO/CVG	70995	145
F39W/T5/835/ECO/CVG	70994	145
F39W/T5/841/ECO/CVG	70993	145
F39W/T5/850/ECO/CVG	70991	145
F39W/T5/865/ECO/CVG	70990	145
F40W/T12/BLB	25618	143
F4W/T5/BLB	39882	143
F54T5/830//ECO/WM/CVG	72985	145
F54T5/830/HO/ECO/CVG	48433	145
F54T5/835//ECO/WM/CVG	72986	145
F54T5/835/HO/ECO/CVG	48436	145
F54T5/841/ECO/WM/CVG	72987	145
F54T5/841/HO/ECO/CVG	48458	145
F54T5/850//ECO/WM/CVG	72988	145
F54T5/850/HO/ECO/CVG	80311	145
F54T5/865//ECO/WM/CVG	72989	145
F54T5/865/HO/ECO/CVG	48469	145
F55BX BL 2G11	42941	143
F58W/830CVG	12403	144
F58W/835CVG	12405	144
F58W/840CVG	12407	144
F6W/T5/BLB	39883	143
F70W/835CVG	12423	144
F70W/840CVG	12424	144
F8W/T5/BLB	39884	143
F9BX BL G23	42935	143
G11T5	29495	143
G15T8	11078	144
G15T8/CVG	72761	144
G16T5	16494	143
G25T8	11082	144

Product Description	Product Code	Page No.
G25T8/CVG	72762	144
G30T8	11080	144
G30T8/CVG	72763	144
G36T5	15874	143
G4T5	15872	143
G55T8/CVG	72764	144
G55T8HO	15875	144
G64T5	15864	143
G64T5/4P/SE	29504	143
G6T5	15873	143
G8T5	11077	143
GBX11/UVC G23	40700	144
GBX13/UVC GX23	40703	144
GBX18/UVC/2G11	40704	144
GBX36/UVC/2G11	40705	144
GBX5/UVC G23	40695	144
GBX55/UVC/2G11	40706	144
GBX9/UVC G23	40696	144
HH 451 1500W RUBY 230-240V	20092	146
HH 804 2000W RUBY 230-240V	20093	146
IM T20BP	88525	147
Q20A/PAR56/3	23863	147
Q20A/PAR56/C	15482	147
Q6.6A/PAR56/3	33279	147
Q6.6A/T4/5CL	23857	147
Q6.6A100PK30d female	80588	147
Q6.6A100PK30d male	80584	147
Q6.6A150PK30d female	80589	147
Q6.6A150PK30d male	80585	147
Q6.6A200PK30d female	80590	147
Q6.6A200PK30d male	80586	147
Q6.6A45PK30d male	80583	147
Q6.6AT4/DCR	23860	147
Q65T2 1/2/1/CL	32917	147
QH 1300W 230-240V Ruby Slim	42740	146
QH 750W 230-240V Ruby Slim	40723	146
QH1000T3/CL	22355	146
QH1000T3/CL	22357	146
QH1000T3/CL	22357	146
QH1200T3/CL	22531	146
QH1200T3/CL/HT	22532	146
QH1600T3/CL	22688	146
QH1600T3/CL/7	22691	146
QH1MT3/CL/R/MS-235V	21377	146
QH2500T3/CL	22838	146
QH2M/T3/1CL/HT	22789	146
QH2M/T3/1CL/HT/VB	15551	146
QH2M/T3/CL/HT	22790	146
QH2MT3/CL/HT/R	12716	146
QH2MT3/CL/VB	18668	146
QH3650/CL/5	10872	146
QH3800/CL	22875	146
QH500T3/CL	21788	146
QH500T3/CL/7	21787	146
QH5M/T3/1CL/HT	22900	146

Index By Product Code

LED systems

Product Code	Product Description	Page No.
73100	LC12/727/240V	30
73101	LC12/730/240V	30
73105	LC-MT48/0	30
73106	LC-MT48/15	30
73107	LC-MT48/30	30
73346	VIO/3.6W/841	24
73347	VIO/1.2W/841	24
73348	VIO/3.6W/835	24
73349	VIO/1.2W/835	24
73350	VIO/3.6W/830	24
73351	VIO/1.2W/830	24
73352	VIO/3.6W/741	24
73353	VIO/1.2W/741	24
73354	VIO/3.6W/735	24
73355	VIO/1.2W/735	24
73356	VIO/3.6W/730	24
73357	VIO/1.2W/730	24
73616	LC-JC/1m/CE	30
73617	LC-LC/12m/CE	30
73618	LC-LC/3m/CE	30
73738	OT VIO/CON	25
73826	LC12/741/240V	30
74217	LB24/35K	25
74218	LB30/35K	25
74219	LB36/35K	25
74220	LB42/35K	25
74221	LB48/35K	25
74222	LB54/35K	25
74223	LB60/35K	25
74224	LB72/35K	25
74225	LB24/42K	25
74226	LB30/42K	25
74227	LB36/42K	25
74228	LB42/42K	25
74229	LB48/42K	25
74230	LB54/42K	25
74231	LB60/42K	25
74232	LB72/42K	25
74241	LB-WIRE-END (BEAUTY COVER)	26
74243	LB-CLIP	26
74244	LB-EXT-CLIP	26
74245	LB-TUBE-MOUNT	26
74601	GE060/G/V12T1-A	29
74601	GE060/G/V12T1-A	31
74759	VIO/7.2W/730	24
74760	VIO/7.2W/735	24
74761	VIO/7.2W/741	24
74762	VIO/7.2W/830	24
74763	VIO/7.2W/835	24
74764	VIO/7.2W/841	24
74914	GE020/G/V12T1-B	29
74914	GE020/G/V12T1-B	31
74915	GE080/G/V24T1-A	31
74916	GE100/MV/V24T1-A	31
74917	GE020/G/V24T1-B	31
75280	LED4/GU10/830/230V/WFL	23
75281	LED4/GU10/830/240V/WFL	23
75288	LED4/R50/830/230V/WFL/E14	23
75289	LED4/R50/830/240V/WFL/E14	23
75294	LED7/R63/830/220-240V/FL/E27	23
75295	LED7/R63/830/220-240V/FL/B22	23
75296	LED7/R63/830/220-240V/WFL/E27	23
75297	LED7/R63/830/220-240V/WFL/B22	23
75481	GERDXNLE1-A	30
75484	GEGLXNLE1-A	30
75485	GEBLXNLE1-A	30
75486	GEWHXNLE1-65K-A	30
75487	GEWWXNLE1-27K-A	30
75488	GEWWXNLE1-30K-A	30
75489	GEWWXNLE1-35K-A	30
75490	GEWWXNLE1-40K-A	30
75493	GEWHXNLE1-50K-A	30
75494	GEXNWB2	30
75498	GEXNMCAC	30
75514	9409	30
75514	9409	31
75514	9409	31
75520	GEXNMC15	30
75537	GEXNBA	30
75545	192160004	31
75546	GEPGEC1	31
75547	GEWWPGP6-27K-A	31
75548	GEWWPGP6-30K-A	31
75549	GEWWPGP6-35K-A	31
75550	GEWWPGP6-40K-A	31
75551	GEWHPGP6-50K-A	31
75552	GEWHPGP6-65K-A	31
75596	GERDMMS5-27K-A	31
75597	GEBLMMS5-27K-A	31
75598	GEGLMMS5-27K-A	31
75599	GEWHMMS5-65K-A	31
75601	GEWWMMS5-27K-A	31
75603	GEWWMMS5-30K-A	31
75604	GEWWMMS5-35K-A	31
75606	GEWWMMS5-40K-A	31
75607	GEWHMMS5-50K-A	31
75608	192160005	31
75955	GE-LT303050CTR	26
75956	GE-LT303050EDL	26
75957	GE-LT303050EDR	26
75958	GE-LT303050CTR	27
75959	GE-LT303050EDL	27
75960	GE-LT303050EDR	27
75961	GE-LT303041CTR	26
75962	GE-LT303041EDL	26
75967	GE-LT303041EDR	26
75968	GE-LT303041CTR	27
75969	GE-LT303041EDL	27
75970	GE-LT303041EDR	27
75971	GE-MC-LT3060CTR	27
75972	GE-MC-LT3060ED1	27
75973	GE-MC-LT3060ED2	27
75974	GE-CV-LT3060CTR	27
76093	LED7/R63/827/220-240V/FL/E27	23
76094	LED7/R63/827/220-240V/WFL/E27	23
76099	LED7/R63/827/220-240V/FL/B22	23
76100	LED7/R63/827/220-240V/WFL/B22	23
77476	VIO/G4/MODULE/3.6W/830	25
77477	VIO/G4/MODULE/3.6W/835	25
77481	VIO/G4/MODULE/3.6W/841	25
77499	VIO/G4/MODULE/3.6W/730	25
77502	VIO/G4/MODULE/3.6W/735	25
77503	VIO/G4/MODULE/3.6W/741	25
77526	VIO/MODULE/CON	25
78348	GE-PS1700NCMUL-SY	31
78553	LED10/PAR30/827/220-240V/FL/E27	23
78554	LED10/PAR30/827/220-240V/WFL/E27	23
78555	LED10/PAR30/830/220-240V/FL/E27	23
78556	LED10/PAR30/830/220-240V/WFL/E27	23
78633	GE-LT306050CTR	26
78634	GE-LT306050EDL	26
78759	LED2/A47/829/220-240V/E27/C	24
78760	LED2/A47/829/220-240V/E27/D	24
78761	LED2/A47/829/220-240V/B22/C	24
78762	LED2/A47/829/220-240V/B22/D	24
78763	LED2/P45/829/220-240V/E27/C	24
78764	LED2/P45/829/220-240V/E27/D	24
78765	LED2/P45/829/220-240V/B22/C	24
78766	LED2/P45/829/220-240V/B22/D	24
78767	LED2/P45/829/220-240V/E14/C	24
78768	LED2/P45/829/220-240V/E14/D	24
78769	LED2.5/G80/829/220-240V/E27/D	24
78770	LED2.5/G80/829/220-240V/B22/D	24
78771	LED2/B35/829/220-240V/E27/C	24
78772	LED2/B35/829/220-240V/E27/D	24
78773	LED2/B35/829/220-240V/B22/C	24
78774	LED2/B35/829/220-240V/B22/D	24
78775	LED2/B35/829/220-240V/E14/C	24
78776	LED2/B35/829/220-240V/E14/D	24
78855	LPL-W09-060C-927	28
78856	LPL-W09-060C-930	28
78857	LPL-W09-060C-940	28
78858	LPL-W09-090C-927	28
78859	LPL-W09-090C-930	28
78860	LPL-W09-090C-940	28
78861	LPL-W09-120C-927	28
78862	LPL-W09-120C-930	28
78863	LPL-W09-120C-940	28
78864	LPL-W09-120D-927	28
78865	LPL-W09-120D-930	28
78866	LPL-W09-120D-940	28
78867	LPL-W18-060C-927	28
78868	LPL-W18-060C-930	28
78870	LPL-W18-060C-940	28
78871	LPL-W18-090C-927	28
78872	LPL-W18-090C-930	28
78873	LPL-W18-090C-940	28
78874	LPL-W18-120C-927	28
78875	LPL-W18-120C-930	28
78877	LPL-W18-120C-940	28
78878	LPL-W18-120D-927	28
78879	LPL-W18-120D-930	28
78880	LPL-W18-120D-940	28
78881	LPL-G09-060C-927	29
78882	LPL-G09-060C-930	29
78883	LPL-G09-060C-940	29
78884	LPL-G09-090C-927	29
78885	LPL-G09-090C-930	29
78886	LPL-G09-090C-940	29
78887	LPL-G09-120C-927	29
78888	LPL-G09-120C-930	29
78889	LPL-G09-120C-940	29
78890	LPL-G09-120D-927	29

High-Intensity Discharge Lamps

Product Code	Product Description	Page No.
78891	LPL-G09-120D-930	29
78892	LPL-G09-120D-940	29
78893	LPL-G18-060C-927	29
78894	LPL-G18-060C-930	29
78895	LPL-G18-060C-940	29
78896	LPL-G18-090C-927	29
78897	LPL-G18-090C-930	29
78898	LPL-G18-090C-940	29
78899	LPL-G18-120C-927	29
78900	LPL-G18-120C-930	29
78901	LPL-G18-120C-940	29
78902	LPL-G18-120D-927	29
78903	LPL-G18-120D-930	29
78904	LPL-G18-120D-940	29
78905	LC-36	29
78906	LC-120	29
78907	JC-12	29
78908	JC-72	29
78909	MB-W15	29
78910	MB-W30	29
78911	MB-G15	29
78912	MB-G30	29
78913	GE-LT306050EDR	26
78914	GE-LT306050CTR	27
78915	GE-LT306050EDL	27
78916	GE-LT306050EDR	27
78917	GE-LT306041CTR	26
78918	GE-LT306041EDL	26
78919	GE-LT306041EDR	26
78920	GE-LT306041CTR	27
78921	GE-LT306041EDL	27
78922	GE-LT306041EDR	27
78923	GE-LT306035CTR	26
78924	GE-LT306035EDL	26
78925	GE-LT306035EDR	26
78926	GE-LT306035CTR	27
78927	GE-LT306035EDL	27
78928	GE-LT306035EDR	27
78966	GE-LT307050CTR	26
78967	GE-LT307050EDL	26
78968	GE-LT307050EDR	26
78969	GE-LT307050CTR	27
78970	GE-LT307050EDL	27
78971	GE-LT307050EDR	27
78972	GE-LT307041CTR	26
78973	GE-LT307041EDL	26
78974	GE-LT307041EDR	26
78975	GE-LT307041CTR	27
78976	GE-LT307041EDL	27
78977	GE-LT307041EDR	27
78978	GE-LT307035CTR	26
78979	GE-LT307035EDL	26
78980	GE-LT307035EDR	26
78981	GE-LT307035CTR	27
78982	GE-LT307035EDL	27
78983	GE-LT307035EDR	27
96736	LED/GU10 1W 220-240V	23
96737	LED GU10 1W 220-240V	23
96738	LED GU10 1W 220-240V	23
96739	LED MR16 GU5.3 1W 12V	23
96740	LED PAR16 E14 1W 220-240V	23

Product Code	Product Description	Page No.
10589	CMH250/TT/UVC/U/830/E40	47
10591	CMH250/E/UVC/U/830/E40/D	47
10834	KRC400/D/H/960/E40	49
10837	KRC400/D/VBU/960/E40	49
11678	LU400/T/40	50
12181	ARC150/UVC/TD/GREEN/RX7S-24	48
12182	ARC150/UVC/TD/BLUE/RX7S-24	48
12183	ARC150/UVC/TD/ORANGE/RX7S-24	48
12184	ARC150/UVC/TD/MAGENTA/RX7S-24	48
13067	CMH400/TT/UVC/U/830/E40	47
13087	CMH400/E/UVC/U/830/E40	47
16870	ARC250/D/H/740/E40	48
16871	KRC400/E/VBU/645/E40	49
16872	KRC400/D/VBU/740/E40	49
16875	KRC400/D/H/740/E40	49
16920	SPL1500/L/H/652/Rx7SM	49
16922	SPL2000/L/H/654	49
17106	LU400W/PSL/T/E40	51
17107	LU600W/PSL/T/E40	51
17108	LU750W/PSL/T/E40	51
17899	LU100/100/MO/SBY/T/40	50
20005	CMH70/T/UVC/U/830/G12	45
20012	CMH150/T/UVC/U/830/G12	45
20013	CMH70/T/UVC/U/942/G12	45
20014	CMH150/T/UVC/U/942/G12	45
20302	KRC250/CMH/830/T/H/E40	47
21514	CMH150/UVC/T/U/842/E40	47
21516	CMH150/UVC/O/T/U/830/E40	47
21517	CMH150/UVC/O/T/U/942/E40	47
21682	CMH70/PAR30/UVC/830/E27/FL40	46
21683	CMH70/PAR30/UVC/830/E27/SP15	46
21684	CMH35/PAR20/UVC/830/E27/SP10	46
21685	CMH35/PAR20/UVC/830/E27/FL25	46
21689	CMH35/PAR30/UVC/830/E27/SP10	46
21690	CMH35/PAR30/UVC/830/E27/FL 25	46
22453	LU250/T/40	50
26348	CMH35/TC/UVC/U942/G8.5	45
26349	CMH70/TC/UVC/U/942/G8.5	45
26478	CMH20PAR20/UVC/830/E27/SP10	46
26481	CMH20/PAR20/UVC/830/E27/FL25	46
26497	CMH20PAR30/UVC/830/E27/SP10	46
26518	CMH20PAR30/UVC/830/E27/FL25	46
27738	MPR400/C/VBU/0/40	49
30047	ARC250/D/H/960/E40	48
30052	KRC400/T/H/960/E40	49
30099	ARC250/TD/832/Fc2	48
30101	ARC250/TD/842/Fc2	48
30102	SPL2000/T/H/960/E40	49
30103	SPL2000/I/T/H/960/E40	49
30228	LU1000/110/D/40	51
30241	LU250/TD	51
30244	LU400/TD	51
30246	LU1000/TD	51
30704	KRC400/T/VBU/960/E40	49
32664	ARC250/T/H/960/E40	48
32665	ARC250/T/VBU/960/E40	48
32666	ARC250/D/VBU/960/E40	48
33148	SPL2000/I/T/H/640/E40	49
34527	ARC150/UVC/TD/732/Rx7s-24	48
34530	ARC70/UVC/TD/730/Rx7s	48
34535	ARC150/UVC/TD/742/Rx7s-24	48

Product Code	Product Description	Page No.
34536	ARC70/UVC/TD/742/Rx7s	48
35284	ARC150/AQUA/TD/865/Rx7s-24	48
35582	LU400/SBY/T/40	50
35586	LU250/SBY/T/40	50
35589	LU150/100/SBY/D/40	50
35590	LU250/SBY/D/40 w	50
35591	LU400/SBY/D/40	50
35594	LU150/100/SBY/T/40	50
35794	ARC70/T/U/730/G12	48
35795	ARC70/T/U/842/G12	48
36910	CMH70/TD/UVC/830/RX7s	45
36912	CMH150/TD/UVC/830/RX7s-24	45
38692	CMH150/TD/UVC/942/RX7s-24	45
38698	CMH70/TD/UVC/942/RX7s	45
38749	CMH150/TT/UVC/830/E40	47
38752	CMH70/TT/UVC/830/E27	47
39512	LUH110/D/27-SHx	51
39858	CMH20/TC/UVC/U/830/G8.5 PLUS**	45
40399	CMH20/T/UVC/830/GU6.5	45
40400	CMH20/MR16/UVC/830/GX10/SP	46
40401	CMH20/MR16/UVC/830/GX10/FL GX10	46
41828	MVR1000/U/40	49
42357	ARC250/T/H/742/E40	48
42369	ARC400/T/H/742/E40	48
42691	CMH20/MR16/UVC/830/GX10/WFL GX10	46
42708	CMH20/T/UVC/U/830/G12 PLUS**	45
43272	CMH35/T/UVC/U/830/G12 PLUS**	45
43273	CMH35/TC/UVC/U/830/G8.5 PLUS**	45
43274	CMH70/TC/UVC/U/830/G8.5 PLUS**	45
43278	CMH35/TD/UVC/830/RX7s	45
43282	CMH70/UVC/O/U/940/E27/D	47
43285	CMH150/UVC/O/U/942/E27/C	47
43286	CMH150/UVC/O/U/940/E27/D	47
43437	LU400V/750W/PSL/T/E40/Bulk	51
43438	LU400V/750W/PSL/T/E40	51
43439	LU400V/600W/PSL/T/E40/Bulk	51
43440	LU400V/600W/PSL/T/E40	51
43907	MVR400/U/40	49
43908	MVR400/C/U/40	49
44052	LU250/D/40	51
44057	LU400/D/40	51
44244	LU150/100/40	50
44245	LU150/100/D/40	51
44304	LU400W/PSL/T/E40/Bulk	51
44305	LU600W/PSL/T/E40/Bulk	51
44306	LU750W/PSL/T/E40/Bulk	51
44542	MVR250/U/40	49
44543	MVR250/C/U/40	49
44890	CMH35/PAR20/UVC/942/E27/SP10	46
44919	CMH35/PAR20/UVC/942/E27/FL25	46
44939	CMH35/PAR30/UVC/942/E27/SP10	46
44942	CMH35/PAR30/UVC/942/E27/FL25	46
45696	LU50/85/XO/D/27	50
45697	LU70/90/XO/D/27	50
45751	LU1000/110/T/40 4pk	50
46186	LU70/90/MO/D/I/E27 1/12	51
46187	CMH70/E/UVC/U/830/E27/D	47
46189	CMH70/E/UVC/U/830/E27/C	47
46191	CMH100/E/UVC/U/830/E27/C	47
46194	CMH100/E/UVC/U/830/E27/D	47
46209	LU 70/90/MO/I/E27 1/12	51

Index By Product Code

Product Code	Product Description	Page No.
46217	LU 70/90/MO/D/E27 1/12	51
46221	LU 70/90/MO/T/E27 1/25	50
49857	MVR400/C/VBU/40	49
49860	MVR400/VBU/40	49
73736	H125/27 1/24	52
73737	H250/40 1/12	52
74172	H80/27 1/24	52
74173	H80/B22 1/24	52
74174	H400/40 1/12	52
74619	CMH70/PAR30/UVC/942/E27/SP15	46
74620	CMH70/PAR30/UVC/942/E27/FL40	46
76120	CMH35/TC/UVC/U930/G8.5 Ultra	45
76121	CMH35/T/UVC/U/930/G12 Ultra	45
76122	CMH35/T/UVC/930/GU6.5 Ultra	45
76123	CMH35/MR16/UVC/930/GX10/SP Ultra	46
76124	CMH35/MR16/UVC/930/GX10/FL Ultra	46
76125	CMH35/MR16/UVC/930/GX10/WFL Ultra	46
77056	H80 DX E27 1/24	52
77057	H125NDX E27 1/24	52
77058	H250NDX E40 1/12	52
77061	H400 DX E40 1/12	52
77071	H125/B22 1/24	52
77399	CMH100/TT/UVC/730/E40 STREETWISE	47
77400	CMH50/TT/UVC/730/E27 STREETWISE	47
77401	CMH70/TT/UVC/730/E27 STREETWISE	47
77402	CMH150/TT/UVC/730/E40 STREETWISE	47
78711	BLS/E/20W/CMH	47
78712	BLS/E/20W/CMH/R/CC	47
78713	BLS/E/20W/CMH/R/LP	47
78714	BLS/E/35W/CMH	47
78715	BLS/E/35W/CMH/R/CC	47
78716	BLS/E/35W/CMH/R/LP	47
78736	LU 50/XO/SBY/T/E27	50
78737	LU 150/XO/SBY/T/E40	50
78738	LU 250/XO/SBY/T/E40	50
78739	LU 400/XO/SBY/T/E40	50
88255	LU 100/XO/SBY/D/E40	50
88256	LU 100/XO/SBY/T/E40	50
88257	LU 70/XO/SBY/D/E27	50
88258	LU 70/XO/SBY/T/E27	50
88268	LU70/90/MO/SBY/T/E27	50
88269	LU70/90/MO/SBY/D/E27	50
88553	LU50/85/MO/T/E27 1/25	50
88554	LU50/85/MO/D/E27 1/25	51
88556	LU50/85/MO/D/I/E27 1/12	51
88557	LU50/85/MO/SBY/D/E27	50
88558	LU50/85/MO/SBY/T/E27	50
88654	ARC150/G12/830	48
88655	ARC150/G12/842	48
88656	CMH35/T/UVC/930/GU6.5	45
88657	CMH35/T/UVC/942/GU6.5	45
88658	CMH35/MR16/UVC/930/GX10/SP GX10	46
88659	CMH35/MR16/UVC/930/GX10/FL GX10	46
88660	CMH35/MR16/UVC/930/GX10/WFL GX10	46
88661	CMH35/MR16/UVC/942/GX10/SP GX10	46
88662	CMH35/MR16/UVC/942/GX10/FL GX10	46
88663	CMH35/MR16/UVC/942/GX10/WFL GX10	46
88665	LU250W/PSL/T/E40	51
88882	SPL1000/T/H/960/E40 1/4	49
92141	CMH35/T/UVC/U/842/G12	45
92478	CMH100/TT/UVC/830/E40	47
93269	LU400/XO/T/40	50
93270	LU600/XO/T/40	50
93296	LU400/XO/D/40	50
93373	LU50/85/XO/T/27	50
93375	LU70/90/XO/T/27	50
93376	LU100/100/XO/T/40	50
93377	LU150/100/XO/T/40	50
93378	LU250/XO/T/40	50
93379	LU100/100/XO/D/40	50
93380	LU150/100/XO/D/40	50
93381	LU250/XO/D/40	50
93766	LU100/100/MO/D/40	51
93767	LU100/100/MO/T/40	50
93772	ARC150/TD/952/Rx7s-24	48
96713	ML 230-240V 500W E40	52
96723	ML 230-240V 250W E40	52
96724	ML 230-240V 160W E27	52
96725	ML 230-240V 250W E27	52
96726	ML 240-250V 250W E40	52
96727	ML 230-240V 160W B22	52
96728	ML 240-250V 160W E27	52
96751	CMH70/TC/UVC/U/830/G8.5 Ultra	45
96752	CMH70/T/UVC/U/830/G12 Ultra	45
74171	H50/27 1/24	52
77055	H50 DX E27 1/24	52

Linear Fluorescent Lamps

10829	F72T8/CW	67
10912	F96T8/CW	67
11009	F96PG17/CW	67
12403	F58W/T8/830/CVG	67
12405	F58W/T8/835/CVG	67
12407	F58W/T8/840/CVG	67
12423	F70W/T8/835/CVG	67
12424	F70W/T8/840/CVG	67
12606	F18W/T8/860/POLYLUX	66
12684	F13W/T5/29/SL	65
12693	F13W/T5/33/SL	65
12694	F13W/T5/35/SL	65
12701	F13W/T5/827/SL	65
12942	F36W/T8/860/POLYLUX	66
12943	F58W/T8/860/POLYLUX	66
16856	F36W/T8/840/POLYLUX	66
17202	F36W/T8/835/CVG	67
17203	F18W/T8/830/CVG	67
17204	F18W/T8/835/CVG	67
17205	F18W/T8/840/CVG	67
17208	F36W/T8/830/CVG	67
17209	F36W/T8/840/CVG	67
18138	F30W/T8/827/POLYLUX	66
18141	F30W/T8/830/POLYLUX	66
18142	F30W/T8/840/POLYLUX	66
18192	F36W/T8/830/POLYLUX	66
19977	F36W/T8/827/POLYLUX	66
19991	F36W/T8/835/POLYLUX	66
23247	F15W/T8/827/POLYLUX	66
23248	F15W/T8/830/POLYLUX	66
23249	F15W/T8/840/POLYLUX	66
23260	F36W-1M/T8/830/POLYLUX	66
23262	F36W-1M/T8/840/POLYLUX	66
25619	F96T12/CW	67
27011	F8W/T5/33/SPECFILL/SL	65
27027	F8W/T5/35/SPECFILL/SL	65
36536	155/501/4/65W/UNIV/BX	67
36537	155/501/4/65W/UNIV/IND	67
36711	155/200/4-22W/TANDEM/BX	67
36714	155/200/4-22W/TANDEM/IND	67
37008	F8W/T5/827/IND	65
37009	F8W/T5/840/IND	65
37729	155/800/75-140W/IND	67
37754	F8W/T5/29/SL	65
37755	F8W/T5/33/SL	65
37756	F8W/T5/35/SL	65
37864	155/800/75-140W/BX	67
37974	155/801/75-115W/IND	67
37975	155/801/75-115W/BX	67
39441	F4W/T5/33/SL	65
39442	F6W/T5/35/SL	65
39445	F6W/T5/33/SL	65
39446	F4W/T5/35/SL	65
40307	F6W/T5/33/SPECFILL/IND	65
40327	F6W/T5/840/SPECFILL/IND	65
40331	F8W/T5/840/SPECFILL/IND	65
42792	F70W/T8/835/POLYLUX	66
42793	F70W/T8/840/POLYLUX	66
43508	F36/T8/830/POLYLUX/LL	66
43509	F36/T8/840/POLYLUX/LL	66
43510	F58/T8/830/POLYLUX/LL	66
43511	F58/T8/840/POLYLUX/LL	66
43513	F70/T8/830/POLYLUX/LL	66
43514	F70/T8/840/POLYLUX/LL	66
45034	F8W/T5/865/SPECFILL/IND	65
45695	F13W/T5/840/SPECFILL/IND	65
48433	F54W/T5/830/ECO/CVG	64
48436	F54W/T5/835/ECO/CVG	64
48458	F54W/T5/841/ECO/CVG	64
48469	F54W/T5/865/ECO/CVG	64
70980	F18/T8/830/POLYLUX/LL	66
70981	F18/T8/840/POLYLUX/LL	66
70990	F39W/T5/865/ECO/CVG	64
70991	F39W/T5/850/ECO/CVG	64
70993	F39W/T5/841/ECO/CVG	64
70994	F39W/T5/835/ECO/CVG	64
70995	F39W/T5/830/ECO/CVG	64
70996	F24W/T5/865/ECO/CVG	64
70997	F24W/T5/841/ECO/CVG	64
70998	F24W/T5/835/ECO/CVG	64
70999	F24W/T5/850/ECO/CVG	64
71000	F24W/T5/830/ECO/CVG	64
72985	F45W/T5/830/ECO/WM/CVG	65
72986	F45W/T5/835/ECO/WM/CVG	65
72987	F45W/T5/841/ECO/WM/CVG	65
72988	F45W/T5/850/ECO/WM/CVG	65
72989	F45W/T5/865/ECO/WM/CVG	65
73605	F18/T8/830/16W/WM	66
73607	F18/T8/840/16W/WM	66
73609	F58/T8/830/51W/WM	66
73611	F58/T8/840/51W/WM	66
73615	F70/T8/840/63W WM	66
75709	FC22W/T5/830	65
75712	FC40W/T5/830	65
75713	FC40W/T5/840	65
75717	FC55W/T5/830	65
75718	FC55W/T5/840	65
75720	FC22W/T5/840	65
78131	F15W/T8/860/POLYLUX	66
78132	F30W/T8/835/POLYLUX	66

Product Code	Product Description	Page No.
78133	F15W/T8/835 POLYLUX	66
80311	F54W/T5/850/ECO/CVG	64
88328	F54/T5/830/WM	63
88329	F80/T5/830/WM	63
88332	F80/T5/840/WM	63
88336	F49/T5/840/WM	63
88337	F54/T5/840/WM	63
88343	F49/T5/830/WM	63
88344	F39/T5/840/WM	63
88345	F28/T5/830/WM	63
88348	F39/T5/830/WM	63
88350	F24/T5/840/WM	63
88352	F24/T5/830/WM	63
88354	F35/T5/840/WM	63
88355	F35/T5/830/WM	63
88356	F28/T5/840/WM	63
88357	F21/T5/840/WM	63
88360	F21/T5/830/WM	63
88362	F14/T5/840/WM	63
88364	F14/T5/830/WM	63
90230	F14W/T5/827/LL	63
90239	F14W/T5/830/LL	63
90244	F14W/T5/865/LL	63
90245	F21W/T5/827/LL	63
90246	F14W/T5/835/LL	63
90247	F14W/T5/840/LL	63
90248	F21W/T5/830/LL	63
90249	F21W/T5/835/LL	63
90250	F21W/T5/840/LL	63
90251	F21W/T5/865/LL	63
90252	F28W/T5/827/LL	63
90253	F28W/T5/830/LL	63
90254	F28W/T5/835/LL	63
90255	F28W/T5/840/LL	63
90256	F28W/T5/865/LL	63
90257	F35W/T5/827/LL	63
90258	F35W/T5/830/LL	63
90259	F35W/T5/835/LL	63
90260	F35W/T5/840/LL	63
90261	F35W/T5/865/LL	63
90262	F24W/T5/827/LL	64
90263	F24W/T5/830/LL	64
90264	F24W/T5/835/LL	64
90265	F24W/T5/840/LL	64
90266	F24W/T5/865/LL	64
90267	F39W/T5/827/LL	64
90268	F39W/T5/830/LL	64
90269	F39W/T5/835/LL	64
90270	F39W/T5/840/LL	64
90271	F39W/T5/865/LL	64
90272	F54W/T5/827/LL	64
90273	F54W/T5/830/LL	64
90274	F54W/T5/835/LL	64
90275	F54W/T5/840/LL	64
90276	F54W/T5/865/LL	64
90277	F49W/T5/827/LL	64
90278	F49W/T5/830/LL	64
90279	F49W/T5/835/LL	64
90280	F49W/T5/840/LL	64
90281	F49W/T5/865/LL	64
90283	F80W/T5/830/LL	64
90284	F80W/T5/835/LL	64
90285	F80W/T5/840/LL	64

Product Code	Product Description	Page No.
90286	F80W/T5/865/LL	64
91450	F8W/T5/33/SPECFILL/IND	65
91451	F8W/35/T5/SPECFILL/IND	65
93311	F18W/T8/835/POLYLUX	66
93315	F18W/T8/827/POLYLUX	66
93317	F18W/T8/840/POLYLUX	66
93319	F18W/T8/830/POLYLUX	66
93330	F58W/T8/827/POLYLUX	66
93331	F58W/T8/835/POLYLUX	66
93333	F58W/T8/840/POLYLUX	66
93334	F58W/T8/830/POLYLUX	66
96748	F36/T8/830/32W/WM	66
96750	F36/T8/840/32W/WM	66

Compact Fluorescent Lamps Non-Integrated

10546	F282DT5/827/2P	80
10547	F282DT5/827/4P	80
10548	F282DT5/840/4P	80
10550	F382DT5/827/4P	80
10566	F382DT5/835/4P	80
10567	F282DT5/835/4P	80
12603	F11BX/865/4P	77
12860	F18DBXT4/SPX27/827	77
12861	F18DBXT4/SPX30/830	77
12863	F18DBXT4/SPX35/835	77
12864	F18DBXT4/SPX41/840	77
12865	F18DBX/SPX27/827/4P	78
12866	F18DBX/SPX30/830/4P	78
12869	F18DBX/SPX35/835/4P	78
12870	F18DBX/SPX41/840/4P	78
13017	F18DBXT4/SPX65/865	77
13248	BLS/E/1X57-70W/QBX 220-240V	80
18120	FLE18W2D/840 GRZ10D	80
18122	FLE18W2D/827 GRZ10D	80
18123	FLE18W2D/835 GRZ10D	80
34381	F26TBX/SPX41/840/A/4P	78
34385	F18TBX/SPX41/840/A/4P	78
34387	F13TBX/SPX41/840/A/4P	78
34391	F13TBX/SPX27/827/A/4P	78
34392	F18TBX/SPX27/827/A/4P	78
34393	F26TBX/SPX27/827/A/4P	78
34395	F13TBX/SPX30/830/A/4P	78
34396	F18TBX/SPX30/830/A/4P	78
34397	F26TBX/SPX30/830/A/4P	78
34400	F13TBX/SPX35/835/A/4P	78
34405	F18TBX/SPX35/835/A/4P	78
34406	F26TBX/SPX35/835/A/4P	78
35235	F26DBX/SPX30/830/4P	78
35236	F26DBX/SPX41/840/4P	78
35237	F26DBXT4/SPX30/830	77
35247	F26DBX/SPX27/827/4P	78
35248	F26DBX/SPX35/835/4P	78
35250	F26DBXT4/SPX27/827	77
35251	F26DBXT4/SPX35/835	77
35252	F26DBXT4/SPX41/840	77
35305	F26DBXT4/SPX65/865	77
35937	F18TBX/SPX35/835/A/2P	78
35939	F18TBX/SPX41/840/A/2P	78
35940	F13TBX/827/A/2P	78
35941	F13TBX/SPX41/A/2P	78
35944	F18TBX/SPX30/830/A/2P	78

Product Code	Product Description	Page No.
35945	F18TBX/SPX27/827/A/2P	78
35952	F26TBX/SPX30/830/A/2P	78
35959	F26TBX/SPX27/827/A/2P	78
35963	F26TBX/SPX35/835/A/2P	78
35964	F26TBX/SPX41/840/A/2P	78
35965	F26TBX/SPX65/865/A/2P	78
35966	F13TBX/SPX30/830/A/2P	78
37651	F9BX/827	77
37652	F9BX/SPX35/835	77
37653	F9BX/SPX41/840	77
37654	F5BX/SPX27/827	77
37658	F7BX/827/4P	77
37659	F7BX/SPX35/835	77
37660	F7BX/SPX41/840	77
37661	F5BX/SPX41/840	77
37663	F11BX/827	77
37664	F11BX/840	77
37666	F11BX/835	77
37710	F9BX/827/4P	77
37711	F9BX/840/4P	77
37713	F11BX/840/4P	77
37714	F5BX/827/4P	77
37715	F5BX/840/4P	77
37716	F7BX/840/4P	77
37717	F11BX/827/4P	77
37846	F7BX/SPX27/827	77
38928	F11BX/830	77
38929	F9BX/830	77
38930	F7BX/830	77
38984	F7BX/865	77
38985	F9BX/865	77
38986	F11BX/840	77
39377	F32TBX/SPX27/827/AP4P	79
39378	F32TBX/SPX30/830/AP4P	79
39379	F32TBX/SPX35/835/A/4P	79
39380	F32TBX/SPX41/840/A/4P	79
41087	F18BX/827	79
41088	F18BX/830	79
41089	F18BX/835	79
41090	F18BX/840	79
41128	F24BX/827	79
41134	F24BX/830	79
41145	F24BX/835	79
41155	F24BX/840	79
41163	F34BX/830	79
41166	F34BX/835	79
41167	F34BX/840	79
41168	F36BX/830	79
41169	F36BX/835	79
41170	F36BX/840	79
41171	F40BX/830	79
41172	F40BX/835	79
41173	F40BX/840	79
41174	F55BX/830	79
41260	F55BX/835	79
41298	F55BX/840	79
41307	F36BX/827	79
41744	F162D/827	80
41745	F162D/835	80
41746	F162D/827/4P	80
41747	F162D/835/4P	80
41749	F162D/860	80
41794	F212D/827/4P	80

Index By Product Code

Product Code	Product Description	Page No.
41806	F212D/835/4P	80
41808	F212D/860/4P	80
42798	F26DBX/SPX65/865/4P	78
45201	F57QBX/840/A/4P/LL	79
45202	F57QBX/835/A/4P/LL	79
45204	F57QBX/830/A/4P/LL	79
45208	F70QBX/830/A/4P/LL	79
45213	F57QBX/827/A/4P/LL	79
45218	F70QBX/840/A/4P/LL	79
45219	F70QBX/835/A/4P/LL	79
46312	F42TBX/827/A/4P	79
46313	F42TBX/830/A/4P	79
46314	F42TBX/835/A/4P	79
46315	F42TBX/841/A/4P	79
75066	F162D/830/4P	80
75067	F382DT5/830/4P	80
75068	F282DT5/830/4P	80
75694	F36BX/865	79
75695	F55BX/865	79
78211	F10DBX/T3/827/2P	77
78212	F10DBX/T3/830/2P	77
78213	F10DBX/T3/835/2P	77
78214	F10DBX/T3/840/2P	77
78215	F10DBX/T3/865/2P	77
78217	F10DBX/T3/827/4P	78
78218	F10DBX/T3/830/4P	78
78219	F10DBX/T3/835/4P	78
78220	F10DBX/T3/840/4P	78
78221	F13DBX/T3/827/2P	77
78222	F13DBX/T3/830/2P	77
78223	F13DBX/T3/835/2P	77
78224	F13DBX/T3/840/2P	77
78225	F13DBX/T3/865/2P	77
78226	F13DBX/T3/827/4P	78
78227	F13DBX/T3/830/4P	78
78228	F13DBX/T3/835/4P	78
78229	F13DBX/T3/840/4P	78
78231	F10DBX/T3/865/4P	78
78232	F13DBX/T3/865/4P	78
78237	FLE30W2D/827 GRZ10T	80
78238	FLE30W2D/835 GRZ10T	80
78239	FLE30W2D/840 GRZ10T	80
88105	F10W/2D/827/4P	80
88106	F10W/2D/835/4P	80

Compact Fluorescent Lamps Integrated

26447	FLE15TBX/T3/827/E27	92
40828	FLE9TBX/T3/827/E14	91
40828	FLE9TBX/T3/827/E14	92
40831	FLE11TBX/T3/827/E14	92
40837	FLE11TBX/T3/827/E27	92
43270	FLE20HLX/T3/865/E27	93
43271	FLE11HLX/T3/865/E27	93
71002	FLE8HLX/T2/865/E14	92
71003	FLE8HLX/T2/865/E27	92
71004	FLE12HLX/T2/865/E14	92
71005	FLE12HLX/T2/865/E27	92
71006	FLE15HLX/T2/865/E27	92
72688	FLE15TBX/T3/827/E27	91
72689	FLE11TBX/T3/827/E27	91
72690	FLE11TBX/T3/827/B22	91
72706	FLE5TWSTCDL/AMBER/E14	94
72707	FLE7TWSTCDL/AMBER/E14	94
72711	FLE8HLX/T2/827/E14	92
72712	FLE8HLX/T2/827/E27	92
72713	FLE8HLX/T2/827/B22	92
72714	FLE12HLX/T2/827/E14	92
72715	FLE12HLX/T2/827/E27	92
72716	FLE12HLX/T2/827/B22	92
72717	FLE15HLX/T2/827/E27	92
72718	FLE15HLX/T2/827/B22	92
73375	FLE7TWSTCDL/OP/827/B22	94
73387	FLE5SPH/T2/840/E14	93
73389	FLE5SPH/T2/840/E27	93
73398	FLE7SPH/T2/840/E27	93
73402	FLE7SPH/T2/840/E14	93
73403	FLE7R50/T2/840/E14	95
73405	FLE11R63/T2/840/E14	95
73408	FLE5CDL/T2/840/E14	94
73410	FLE5CDL/T2/840/E27	94
73451	FLE7CDL/T2/840/E14	94
73453	FLE7CDL/T2/840/E27	94
73454	FLE7GU10/T2/827	95
73767	FLE22/CLITE/T5/827/E27	95
73768	FLE22/CLITE/T5/865/E27	95
75039	FLE23QBX/T3/827/B22	91
75268	FLE23QBX/T3/827/E27	91
75311	FLE7CDL/T2/827/E27	94
75312	FLE7TWSTCDL/OP/827/E14	94
75313	FLE7SPH/T2/827/E27	93
75675	FLE20GG/827/B22	94
75676	FLE5CDL/T2/827/E14	94
75677	FLE7CDL/T2/827/E14	94
75730	FLE11TBX/T3/865/E27	91
75731	FLE11TBX/T3/865/B22	91
76152	FLE32HLX/T4/827E27/HPF	93
76153	FLE8HLX/T2/827/E14	92
76154	FLE8HLX/T2/827/E27	92
76155	FLE12HLX/T2/827/E14	92
76156	FLE15HLX/T2/827/E27	92
76157	FLE12HLX/T2/827/E27	92
76158	FLE20HLX/T2/827/E27	92
76159	FLE23HLX/T2/827/E27	92
76198	FLE11CDL/T3/827/E14	94
76201	FLE11CDL/T3/827/E27	94
76202	FLE11CDL/T3/827/B22	94
77365	FLE20AG/T3/830/E27	93
77366	FLE15AG/T2/830/E27	93
77367	FLE11AG/T2/830/E27	93
77368	FLE9AG/T2/830/E27	93
78156	FLE8HLX/T2/827/B22	92
78157	FLE8HLX/T2/840/E14	92
78188	FLE8HLX/T2/840/E27	92
78189	FLE8HLX/T2/865/E27	92
78190	FLE12HLX/T2/827/B22	92
78191	FLE12HLX/T2/840/E14	92
78192	FLE12HLX/T2/840/E27	92
78193	FLE12HLX/T2/865/E14	92
78194	FLE12HLX/T2/865/E27	92
78195	FLE15HLX/T2/827/B22	92
78196	FLE15HLX/T2/840/E27	92
78197	FLE15HLX/T2/865/E27	92
78198	FLE20HLX/T2/827/B22	92
78199	FLE20HLX/T2/840/E27	92
78200	FLE20HLX/T2/865/E27	92
78201	FLE20HLX/T2/865/B22	92
78202	FLE23HLX/T2/840/E27	92
78203	FLE23HLX/T2/865/E27	92
78233	FLE9AG/T2/830/B22	93
78234	FLE11AG/T2/830/B22	93
78235	FLE15AG/T2/830/B22	93
78236	FLE20AG/T3/830/B22	93
78686	FLE9AG/T2/865/E27	93
78687	FLE11AG/T2/865/E27	93
78688	FLE15AG/T2/865/E27	93
78689	FLE20AG/T3/865/E27	93
78690	FLE11TBX/T3/827/E14	91
78691	FLE5SPH/T2/827/E27	93
78692	FLE5TWSTCDL/AMBER E14	94
78693	FLE5TWSTCDL/OP/827/E14	94
78694	FLE7TWSTCDL/AMBER E14	94
78695	FLE7TWSTCDL/OP/827/E27	94
78696	FLE9TWSTCDL/OP/827/E14	94
78697	FLE9TWSTCDL/OP/827/E27	94
78698	FLE5CDL/T2/827/E27	94
78699	FLE11R63/T2/827/E14	95
78700	FLE7R50/T2/827/B22	95
78701	FLE7R50/T2/827/E27	95
78702	FLE9GU10/T2/827	95
82151	FLE20GLS/T3/827/E27	93
82174	EFL23W/827/R80/E27	95
82896	FLE9TBX/T3/827/E27	91
82896	FLE9TBX/T3/827/E27	92
82911	FLE20TBX/T3/827/E27	92
82926	FLE11HLX/T3/827/E27	93
82941	FLE20HLX/T3/827/E27	93
88123	FLE20HLX/T3/827/B22	93
88148	FLE15GLS/T3/840/E27	93
88149	FLE12GLS/T2/840/E14	93
88150	FLE12GLS/T2/840/E27	93
88151	FLE8GLS/T2/840/E14	93
88152	FLE8GLS/T2/840/E27	93
88162	FLE7BTCDL/OP/827/E14	94
88175	FLE15GLS/T3/827/B22	93
88176	FLE15GLS/T3/827/E27	93
88177	FLE12GLS/T2/827/E14	93
88178	FLE8GLS/T2/827/E14	93
88179	FLE8GLS/T2/827/B22	93
88180	FLE8GLS/T2/827/E27	93
88208	FLE12GLS/T2/827/B22	93
88209	FLE12GLS/T2/827/E27	93
88680	FLE20HLX/T2/827/E27	92
88681	FLE20HLX/T2/827/B22	92
88684	FLE20HLX/T2/840/E27	92
88685	FLE20HLX/T2/865/E27	92
88686	FLE23HLX/T2/827/E27	92
88687	FLE23HLX/T2/827/B22	92
88690	FLE23HLX/T2/840/E27	92
88691	FLE23HLX/T2/865/E27	92
88695	FLE9TBX/T3/827/E27	91
88696	FLE9TBX/T3/827/B22	91
88697	FLE9TBX/T3/827/E14	91
88698	FLE9TBX/T3/840/E27	91
88699	FLE9TBX/T3/840/B22	91
88700	FLE9TBX/T3/840/E14	91
88701	FLE9TBX/T3/865/E27	91
88702	FLE9TBX/T3/865/B22	91

Product Code	Product Description	Page No.
88703	FLE9TBX/T3/865/E14	91
88709	FLE11TBX/T3/840/E14	91
88712	FLE11TBX/T3/865/E14	91
88713	FLE15TBX/T3/827/B22	91
88714	FLE15TBX/T3/840/E27	91
88715	FLE15TBX/T3/840/B22	91
88716	FLE15TBX/T3/865/E27	91
88717	FLE15TBX/T3/865/B22	91
88718	FLE20TBX/T3/827/E27	91
88719	FLE20TBX/T3/827/B22	91
88720	FLE20TBX/T3/840/E27	91
88721	FLE20TBX/T3/840/B22	91
88722	FLE20TBX/T3/865/E27	91
88723	FLE20TBX/T3/865/B22	91
88839	FLE5SPH/T2/827/E14	93
88841	FLE5SPH/T2/827/B22	93
88842	FLE7SPH/T2/827/E14	93
88844	FLE7SPH/T2/827/B22	93
88845	FLE7R50/T2/827/E14	95
88849	FLE11R63/T2/827E27	95
88850	FLE11R63/T2/827B22	95
88853	FLE5CDL/T2/827/B22	94
88856	FLE7CDL/T2/827/B22	94
92246	EFL23W/830/R80/E27	95
96776	FLE15GG/827/E27	94
96778	FLE15GG/840/E27	94
96779	FLE15GG/827/B22	94
96780	FLE20GG/827/E27	94
96790	FLE23GG/840/E27	94
96791	FLE23GG/827/B22	94
96793	FLE23GG/827/E27	94
96794	FLE20GG/840/E27	94
97000	FLE23QBX/T3/840/E27	91
97001	FLE23QBX/T3/840/B22	91
97006	FLE23QBX/T3/865/E27	91
97007	FLE23QBX/T3/865/B22	91
97030	FLE20HLX/T3/827/E27	92
97031	FLE20HLX/T3/827/B22	92

Halogen Lamps

10766	AR111 50W12V SP	104
10767	AR111 50W12V FL	104
10768	AR111 75W12V SP	104
10769	AR111 75W12V FL	104
10771	AR111 75W12V WFL	104
10774	AR111 35W12V SP	104
10775	AR111 35W12V FL	104
10857	Q35MR16/240/FL	105
10859	Q20MR16/240/FL	105
10896	Q35MR16/230/FL	105
10898	Q20MR16/230/FL	105
12708	M11/Q10/G4 ST	106
12711	M47/Q20/G4 ST	106
12712	M95/Q35/GY6.35 ST	106
12713	M32/Q50/GY6.35 ST	106
12718	Q100/GY6.35 ST	106
12988	Q50MR16/240/FL START	105
12995	Q50MR16/240/FL START	105
13003	Q50MR16/240/FL START	105
19625	M262/FTD/CG	103
19626	M62/FTD	103
19627	M266/FTF/CG	103

Product Code	Product Description	Page No.
19634	M199/FTH	103
19635	M66/FTF	103
19636	M251/FTC/CG	103
19639	M264/FTA/CG	103
20840	EYC/CC	103
20841	EYJ/CC	103
20857	BAB/CG	103
20858	ESX/CG	103
20859	FMW/CG	103
20860	FRA/CG	103
20864	FRB/CG	103
20865	FNV/CG	103
20867	EXN/CG	103
20871	EXZ/CG	103
20872	EXT/CG	103
20873	EYC/CG	103
20874	EYJ/CG	103
20876	EYF/CG	103
22498	SHORTG9 40W CL 240V	106
22504	SHORTG9 40W CL 230V	106
23830	K5/Q1500 T3/CL	107
23832	K5/Q1500 T3/CL	107
27826	40PAR16/230/FL	108
27845	40PAR16/240/FL	108
29161	K1/Q500 T2.5/CL	107
29165	K1/Q500 T2.5/CL	107
29168	K1/Q500 T2.5/CL	107
29180	K4/Q1000 T3/CL	107
29181	K4/Q1000 T3/CL	107
29184	K5/Q1500 T3/CL	107
29187	K5/Q1500 T3/CL	107
30886	K8/Q2000 T3/CL	107
31598	K1/Q375 T3/230V HIR	107
31612	K1/Q375 T3/240V HIR	107
32108	Halo T38/1000W/E40/230	108
32109	Halo T38/1000W/E40/240	108
32482	100PAR30/240/FL	108
32484	100PAR30/230/FL	108
34663	M67/Q100 GY6.35 24V	106
34664	M180/Q100/GY6.35	106
34674	M11/H10 G4	106
34676	M28/Q100 GY6.35	106
34682	M313/Q75/GY6.35	106
34683	M73/Q75/GY6.35	106
34702	M32/Q50 GY6.35	106
34703	M74/Q50/GY6.35	106
34708	M95/Q35/GY6.35	106
34710	M75/Q35/GY6.35	106
34712	M76/Q20/GY6.35	106
34714	M35/Q20 G4	106
34715	M47/Q20 G4	106
34718	M30/ESB/Q20 G4	106
34719	M34/FHE/Q20 G4	106
34720	M29/Q10 G4	106
34728	M42/Q10 G4	106
35696	Q20T3/12V GY6.35	106
35699	Q35T3/12V GY6.35	106
35700	Q50T3/12V GY6.35	106
35701	Q75T3/12V GY6.35	106
35705	Q10T2,5/12V G4	106
35710	Q20T2,5/12V G4	106
38000	M69/BAB/EC	104
38001	M81/FMW/EC	104

Product Code	Product Description	Page No.
38002	M58/EXN/EC	104
38006	M269/BAB/CG/EC	104
38007	M281/FMW/CG/EC	104
38011	M258/EXN/CG/EC	104
38012	M268/ESX/CG/EC	104
38013	FRB/CG/EC	104
38014	M249/EXT/CG/EC	104
39236	M280/FNV/CG/EC	104
39611	M250/EXZ/CG/EC	104
40349	75PAR30/230/FL	108
40361	75PAR30/240/FL	108
40362	50PAR20/230/FL	108
40363	50PAR20/230/SP	108
40364	50PAR20/240/SP	108
40365	50PAR20/240/FL	108
40366	75PAR30/230/SP	108
40367	75PAR30/240/SP	108
40402	Q50MR16/230/25°	105
40403	Q50MR16/230/36°	105
40404	Q50MR16/240/25°	105
40405	Q50MR16/240/36°	105
41915	AR111 100W12V SP	104
41922	AR111 100W12V FL	104
41923	AR111 100W12V WFL	104
42959	M9/H5 G4	106
43299	K9/Q225 T3/240V HIR	107
43712	K10/1000 T3/CL	107
45692	SHORTG9 25W CL 230V	106
76207	K1 C330W 230V R7S	107
76208	K9 C200W 230V R7S	107
76209	K11 C130W 230V R7S	107
76210	K12 C100W 230V R7S	107
76527	K1 C330W 240V R7S	107
76528	K9 C200W 240V R7S	107
76529	K11 C130W 240V R7S	107
76530	K12 C100W 240V R7S	107
76537	70W HALO R80 E27 230V	109
76538	42W HALO R80 E27 240V	109
76540	42W HALO R80 E27 230V	109
76541	42W HALO R63 E27 240V	109
76543	42W HALO R63 E27 230V	109
76544	28W HALO R50 E14 240V	109
76546	28W HALO R50 E14 230V	109
76547	42W HALOS CL E27 240V	109
76548	42W HALOS CL E14 240V	109
76549	42W HALOS CL B22 240V	109
76551	42W HALO S CL E27 230V	109
76553	42W HALO S CL E14 230V	109
76554	28W HALO S CL E27 240V	109
76555	28W HALO S CL E14 240V	109
76556	28W HALO S CL B22 240V	109
76557	28W HALO S CL B15 240V	109
76559	28W HALO S CL E27 230V	109
76561	28W HALO S CL E14 230V	109
76562	18W HALO S CL E14 240V	109
76563	18W HALO S CL B22 240V	109
76565	18W HALO S CL E27 230V	109
76567	18W HALO S CL E14 230V	109
76568	42W HALO C CL E27 240V	109
76569	42W HALO C CL E14 240V	109
76570	42W HALO C CL B22 240V	109
76571	42W HALO C CL B15 240V	109
76573	42W HALO C CL E27 230V	109

Index By Product Code

Incandescent Lamps

Product Code	Product Description	Page No.
76575	42W HALO C CL E14 230V	109
76929	28W HALO C CL E27 240V	109
76930	28W HALO C CL E14 240V	109
76931	28W HALO C CL B22 240V	109
76932	28W HALO C CL B15 240V	109
76934	28W HALO C CL E27 230V	109
76936	28W HALO C CL E14 230V	109
76937	18W HALO C CL E14 240V	109
76938	18W HALO C CL B22 240V	109
76940	18W HALO C CL E14 230V	109
76941	100W HALO A CL E27 240V	108
76942	100W HALO A CL B22 240V	108
76944	100W HALO A CL E27 230V	108
76945	70W HALO A CL E27 240V	108
76946	70W HALO A CL B22 240V	108
76948	70W HALO A CL E27 230V	108
76950	42W HALO A CL E27 240V	108
76951	42W HALO A CL B22 240V	108
76953	42W HALO A CL E27 230V	108
76954	28W HALO A CL E27 240V	108
76955	28W HALO A CL B22 240V	108
76957	28W HALO A CL E27 230V	108
77657	MR16 IR 20W 12V WFL	103
77658	MR16 IR 35W 12V WFL	103
77900	Q20MR16HIR/CCG10	103
77901	Q20MR16HIR/CCG24	103
77902	Q20MR16HIR/CCG36	103
77904	Q35MR16HIR/CCG10	103
77905	Q35MR16HIR/CCG24	103
77906	Q35MR16HIR/CCG36	103
77907	Q45MR16HIR/CCG10	103
77908	Q45MR16HIR/CCG24	103
77909	Q45MR16HIR/CCG36	103
79584	Q30MR16HIR/CCG10	103
79585	Q30MR16HIR/CCG24	103
79586	Q30MR16HIR/CCG36	103
88214	M280/FNW/CG/AL	104
88215	M258/EXN/CG/AL	104
88216	M269/BAB/CG/AL	104
88217	M281/FMW/CG/AL	104
88229	M81/FMW	104
88231	M69/BAB	104
88232	M80/FNV	104
88234	M58/EXN	104
88235	M269/BAB/CG	104
88236	M281/FMW/CG	104
88237	M250/EXZ/CG	104
88238	M280/FNV/CG	104
88239	M258/EXN/CG	104
88941	SHORTG9 25W CL 240V	106
91515	K9/Q225 T3/230V HIR	107
91775	75PAR25/230/FL	108
92165	75PAR25/240/FL	108
92729	Q50MR16/230/FL	105
92730	Q50MR16/240/FL	105

Product Code	Product Description	Page No.
10823	15TC1/CL/E14	118
10826	25TC1/CL/E14	118
10827	40TC1/CL/E14	118
10828	60TC1/CL/E14	118
10831	25TC1/F/E14	118
10832	40TC1/F/E14	118
10833	60TC1/F/E14	118
10870	25C1/CL/E27	118
10871	40C1/CL/E27	118
10873	60C1/CL/E27	118
10875	25C1/O/E27	118
10877	40C1/O/E27	118
10878	60C1/O/E27	118
12318	15P1/B/E14	122
12447	15P1/OVEN22/CL/E14	122
12462	40D1/CL/E14	123
12512	15P1/CL/E14	122
12513	25D1/CL/E27	123
12515	40D1/CL/E27	123
12585	15P1/R/E14	122
12586	15P1/Y/E14	122
12587	15P1/G/E14	122
13109	25T28/CL/E14	123
13110	40T28/CL/E14	123
13111	60T28/CL/E14	123
13118	15T25/CL/E14	123
13119	25T25/CL/E14	123
18117	100A1/CL/B22	115
19775	25D1/CL/E14	117
19777	25D1/FR/E14	117
19778	40D1/FR/E14	117
19781	25D1/CL/E14	117
19782	40D1/CL/E14	117
19784	60D1/CL/E14	117
19786	60D1/FR/E14	117
19788	40D1/CL/E14	117
19789	40D1/F/E14	117
19791	60D1/CL/E14	117
19793	60D1/F/E14	117
19796	25D1/SB/E14	117
19946	40A1/CL/E27	115
19947	60A1/CL/E27	115
19948	75A1/CL/E27	115
19949	100A1/CL/E27	115
19952	40A1/F/E27	115
19954	60A1/F/E27	115
19956	100A1/F/E27	115
21619	40A1/CL/B22	115
21629	60A1/CL/B22	115
21633	75A1/CL/B22	115
21634	100A1/CL/B22	115
21663	60A1/F/B22	115
21664	75A1/F/B22	115
21665	100A1/F/B22	115
21666	40A1/CL/E27	115
21667	60A1/CL/E27	115
21668	75A1/CL/E27	115
21669	100A1/CL/E27	115
21671	40A1/F/E27	115
21673	60A1/F/E27	115
21675	75A1/F/E27	115

Product Code	Product Description	Page No.
21677	100A1/F/E27	115
22422	100A1/CL/E27	115
22433	60A1/F/E27	115
22566	150A65/CL/E27	115
22568	150A65/FR/E27	115
22620	100A65/CL/E27	116
23546	15A1/CL/E27	115
23547	25A1/CL/E27	115
27148	25C1/BT/FR/E14	119
27151	40C1/BT/FR/E14	119
27158	40C1BT/CL/B22	119
27160	40C1BT/CL/B15	119
27162	60C1BT/CL/B22	119
27164	60C1BT/CL/B15	119
27176	60C1BT/FR/E14	119
27190	40C1BT/CL/E14	119
27192	60C1BT/CL/E14	119
28720	150R/IR/CL/E27	120
28724	250R/IR/CL/E27	120
29051	42V60/F/E27	116
31535	60A1/P/VRS/B22	116
31546	60A1/P/VRS/E27	116
31560	100A1/P/GRS/B22	116
31573	100A1/P/GRS/E27	116
31811	15P1/CL/B22	122
31821	15P1/CL/E14	122
32296	275R/IR/SA/E27	121
32569	275R/IR/CL/E27	120
34420	25P1/CL/E14	122
35174	100A1/CL/E27 24V	116
35178	25A1/CL/E27 24V	116
35238	70A1/CL/E27	116
35239	60A1/CL/E27/TSR	116
42830	60R80/PL/E27	120
42831	60R63/PL/E27	120
42837	100R80/PL/E27	120
43381	25P1/OVEN25/CL/E14	122
45330	25P1/OVEN/T25/CL	122
47978	40R63/PL/E27	120
73478	15P1/CL E14	122
73479	25P/E14/CL	122
88165	75A1/CL/E27	115
90480	60C1/CL/E14	118
90481	60C1/SL/E14	118
90482	40C1/SL/E14	118
90483	25C1/SL/E14	118
90487	40C1/CL/E14	118
90488	25C1/CL/E14	118
90525	15D1/R/E14	117
90526	15D1/Y/E14	117
90527	15D1/Y/E27	117
90528	15D1/ORANGE/E27	117
90531	15D1/R/E27	117
90562	40T45/SL/E14	118
90564	25D1/CL/E27	117
90565	40D1/CL/E27	117
90566	25D1/F/E27	117
90567	40D1/F/E27	117
90568	60D1/F/E27	117
90569	15D1/F/E27	117
90920	25A1/G/E27	116

Product Code	Product Description	Page No.
90921	25A1/Y/E27	116
90922	25A1/R/E27	116
90923	25A1/O/E27	116
90924	25A1/B/E27	116
91079	40R63/E27	119
91080	60R63/E27	119
91127	200A1/CL/E27	115
91128	200A1/F/E27	115
91131	60A1/SB/E27	117
91226	300A1/CL/E27	115
91227	100A1/F-RS/E27	116
91228	40A1/F-RS/E27	116
91229	60A1/F-RS/E27	116
91288	150/IR/F/E27	121
91322	25C1/F/E14	118
91323	40C1/F/E14	118
91327	60R50/E14	119
91340	60R63/E27	120
91344	60R80/E27	120
91345	100R80/E27	120
91351	75R95/E27	119
91366	100R95/E27	119
91367	150R95/E27	119
91372	150R/IR/R/E27	121
91386	40R50/R/E14	121
91387	40R50/B/E14	121
91388	40R50/Y/E14	121
91389	40R50/G/E14	121
91390	250R/IR/F/E27	121
91391	250R/IR/R/E27	121
91393	40R50/NEO/E14	120
91486	60SL/O/500/S14	123
91487	35SL/O/300/2S14	123
91488	60SL/O/500/2S14	123
91505	35SL/O/300/S14	123
91521	15D1/G/E27	117
91522	15D1/B/E27	117
91523	25R39/E14	119
91524	30R39/E14	119
91525	60R80/B/E27	121
91526	60R80/G/E27	121
91527	60R80/Y/E27	121
91528	60R80/R/E27	121
91530	40R63/B/E27	121
91531	40R63/Y/E27	121
91532	40R63/R/E27	121
91533	40R63/G/E27	121
91534	60C1/F/E14	118
91539	80PAR/WMISER/FL/Y/E27	121
91540	80PAR/WMISER/FL/R/E27	121
91542	175PAR/IR/E27	120
91543	80PAR/WMISER/FL/G/E27	121
91573	120PAR/WMISER/FL/E27	120
91574	80PAR/WMISER/FL/E27	120
91575	60PAR/WMISER/FL/E27	120
91576	120PAR/WMISER/SP/E27	120
91577	80PAR/WMISER/SP/E27	120
91578	80PAR/WMISER/FL/B/E27	121
91593	60D1/CL/E27	117
91674	40C1/CL/E14	118
91678	60C1/CL/E14	118
91680	25C1/FR/E14	118
91682	40C1/FR/E14	118

Product Code	Product Description	Page No.
91683	60C1/FR/E14	118
91724	300A1/CL/E40	115
91873	100A1/F/E27 24V	116
91874	40A1/F/E27 24V	116
91875	60A1/F/E27 24V	116
91876	40A1/CL/E27 24V	116
91877	60A1/CL/E27 24V	116
91878	60A1/CL/B22 24V	116
91879	40A1/CL/B22 24V	116
91911	15D1/CL/B22	117
91917	15D1/CL/E27	117
91950	15P1/CL/E14	122
91952	60T45/SL/E14	118
91955	25P1/CL/E14	122
91989	40D1/CL/B22	117
92001	15D1/B/E14	117
92002	15D1/CL/E14	117
92004	15D1/G/E14	117
92046	15P1/CL/E14	122
92047	15P1/F/E14	122
92048	25P1/F/E14	122
92060	100PAR/FL/IR/E27	120
92366	40R50/E14	119
92373	25R50/E14	119
92839	60R80S/E27	119
92858	40R80S/E27	119
92859	75R80S/E27	119
92860	100R80S/E27	119
93301	15P1/RS/CL/E14	122

SHOWBIZ™ Lamps

12036	CP83	134
12037	CP83	134
12092	EXR	137
12097	EXY	137
12892	50PAR36/VNSP	130
13227	FFS	132
13228	FFR	132
13229	FFP	132
13233	FFN	132
13598	FCS A1/216	135
14553	25PAR36	130
14555	25PAR36/WFL	130
14874	EHJ A1/223	135
14876	FCR A1/215	135
15133	H4515	130
15377	ELC500	136
15378	CSR575/2/SE	127
15380	CSR700SA	128
15775	F20T12/CINEMA32/HO/CVG	129
15776	F20T12/CINEMA55/HO/CVG	129
15782	F40T12/CINEMA32/HO/CVG	129
15783	F40T12/CINEMA55/HO/CVG	129
16540	50PAR36/NSP	130
16541	50PAR36/WFL	130
16542	50PAR36/VWFL	130
16960	CMH150/PAR64/830/GX16d/WFL	128
18234	BRL A1/220	135
18235	BRJ/EVB A1/234	135
18241	FNT	135
18676	300PAR56/NSP	131
18677	300PAR56/MFL	131

Product Code	Product Description	Page No.
18678	300PAR56/WFL	131
19024	120PAR56/MFL	131
19025	120PAR56/WFL	131
19695	P2/12	135
19696	P2/12	135
19697	P2/10	135
19698	P2/10	135
19880	50PAR36/WFL/H	130
19926	DKZ/DSE	135
20122	200PAR	131
20249	P2/7 EKM	135
20253	P2/7 EKM	135
20575	240PAR56/VNSP	131
20577	240PAR56/WFL	131
20803	300PAR56/NSP	131
20836	300PAR56/MFL	131
20849	300PAR56/WFL	131
20852	300PAR56/MFL	131
20853	300PAR56/NSP	131
20854	300PAR56/WFL	131
21328	CSD250/2/SE BULK	127
21613	FXL	137
21801	CSR2000SA	128
21849	CSR1200SA	128
21853	CSR400/SE/HR/UV-C	127
22478	CSR400/S/DE/70	127
22493	CSR700/S/DE/60	127
22494	CSR1200S/DE/60	127
22495	CSR800/SE/HR/UV-C	127
22496	CSR18000/SE/HR	127
23427	300PAR56/WFL	131
23756	EJG	135
23760	P2/11 EME/Clear	135
23761	P2/11 EMF/Frosted	135
23797	P2/28 FCM	135
24425	4405	130
24627	4502	130
24640	4505	130
24650	4509	130
24663	4511	130
24673	4515	130
24768	4545	131
24799	4553	130
24859	4580	130
24862	4581	130
24867	4587	130
24887	4593	130
24891	4594	130
24898	4596	130
24964	4626	130
24966	4627	130
25261	FLT	137
25475	ENL	137
25504	CP87 PAR64/NSP	132
25618	F40T12/BLB	129
26895	DYR A1/233	135
27764	CSR1200/SE/HR/UV-C	127
27765	CSR4000/SE/HR/UV-C	127
27817	CSD250/2/SE	127
29150	EJL A1/252	136
30157	DXW	135
30325	FAD	135
30374	FBY	135

Index By Product Code

Product Code	Product Description	Page No.
32882	EJA	136
34676	M28/EVA	136
34702	M32	136
34718	M30/ESB	136
34720	M29/ESA	136
34747	F20T12/BLB	129
34768	M33	136
35200	EKE	136
36271	Q4681	130
36902	EKZ	136
36952	DXX	135
36953	DXX	135
37346	DZA	135
37462	ELC A1/259	136
37695	DZE/FDS A1/262	135
37706	Q4554	130
38306	ELD/EJN	136
38476	ELH	136
38686	ENH	136
39409	500PAR64/MFL	132
39411	500/PAR64/MFL	132
39414	500/PAR64/W FL	132
40460	CSR575/SE/HR/UV-C	127
40482	CSR2500/SE/HR/UV-C	127
40492	CSR6000/SE/HR/UV-C	127
40576	4552	132
40578	4559	132
40579	Q4559	132
40822	4537-2	130
41164	EVD A1/239	135
41357	CSR700/S/DE/72	127
41503	4509X	130
41667	DWE	130
41671	FBO	130
41673	FCX	130
41705	ENX	137
41729	EPT	137
41869	F55BX/StudioBiax32	129
41873	F55BX/StudioBiax56	129
41874	ERV	137
41882	EPV	137
41903	F55BX/CINPLUS/32	129
41911	F55BX/CINPLUS/55	129
42552	Q4559X	132
42614	EPX	137
43494	Q500PAR56/NSP	131
43495	Q500PAR56/MFL	131
43496	Q500PAR56/WFL	131
43497	Q1000PAR64/NSP	132
43498	Q1000PAR64/MFL	132
43499	Q1000PAR64/WFL	132
43537	DDL	136
43576	H7604	130
43591	H7635	130
43950	DED	136
43988	DDS	136
45231	CSR575/SS/DE/75	127
45232	CSR400/S/DE/90	127
45234	CSR700SA/72	128
45238	CSR400/SE/HR/75	127
48450	CSR200/DE	127
48453	CSR1200/DE	127
48454	CSR2500/DE	127

Product Code	Product Description	Page No.
48455	CSR4000/DE	127
48456	CSR6000/DE	127
48457	CSR12000/DE	127
48459	CSR18000/DE	127
48461	CSR125/SE/HR	127
48462	CSR200/SE/HR/UV-C	127
48463	CSR575/SE/HR	127
48464	CSR1200/SE/HR	127
48465	CSR2500/SE/HR	127
48466	CSR4000/SE/HR	127
48467	CSR6000/SE/HR	127
48468	CSR12000/SE/HR	127
48771	Q12MT26/4CL	134
48773	BCM-020MT324CL	134
48774	BCM-020MT324CL	134
48777	Q24MT32/4CL	134
48779	Q12MT26/4CL	134
49490	CSR1200/2/SE	127
49491	CSR700/2/SE	127
49492	CSR575/2/T/SE	127
70978	CSR575/DE/70 BULK	127
70979	CSR575/DE	127
72658	F24T8CINEMA32/CVG	129
72659	F24T8CINEMA55/CVG	129
72680	CP23	134
73579	CMH400/932/GX9.5	128
73580	CMH400/941/GX9.5	128
73581	CP86 PAR64/VNSP	132
74873	CSR1500/TAL/60/S	127
76160	CSR300/2/TAL	127
76161	CSR700/TAL/60/PGJX50	127
77390	CSR1800/SE/HR/UV-C	127
78343	M38	136
78710	CSR24000/DE	127
78718	CSR700/TAL/60/PGJX28	127
81207	F48T8/Cinema32/CVG	129
81208	F48T8/Cinema55/CVG	129
88425	CP60 EXC SUPER	132
88428	HPL 750-C-XLL	133
88429	HPL 750-X-LL	133
88430	HPL 750-X-LL	133
88431	T12	134
88432	HX800	133
88433	CP81 FSL	133
88434	HPL 575-C LL-X	133
88435	HPL 575-C LL-X	133
88436	HPL 575-C	133
88437	HPL 750-C	133
88438	HPL 575-C	133
88439	CP110 OC1200	134
88442	M38	136
88443	CP81 FKW	133
88444	CP81 FSK	133
88445	GKV/LL	133
88446	GKV/LL	133
88447	GKV	133
88448	GKV	133
88449	CP77 FEP	133
88450	FKR	133
88451	T28	134
88452	FLK-LL	133
88453	CP90	134
88454	T29 FWT	134

Product Code	Product Description	Page No.
88455	CP23	134
88456	T11	134
88457	T19 FWR	134
88458	CP40 FKJ	134
88459	CP24	134
88460	A1/244	135
88461	CP89 FRM	133
88462	CP89 FRK	133
88463	T26 GCS	133
88464	CP82 FRJ	133
88465	T18 GCW	133
88466	CP82 FRH	133
88467	CP82 FRG	133
88468	M40	136
88469	T27 GCS	133
88470	T25 GCW	133
88471	CP70 FVA	134
88472	CP70 FVA	134
88473	HPL 750	133
88474	HPL 750	133
88475	HPL 575-X LL	133
88476	HPL 575-X LL	133
88477	HPL 575	133
88478	HPL 575	133
88479	EXG/PAR64/WFL	132
88480	EXG/PAR64/WFL	132
88481	P2/27 FEX	135
88482	P2/27 FEX	135
88484	HX185	135
88485	CSS150/850/GY9.5	128
88488	CP41 FKK	134
88489	CP41 FKK	134
88491	A1/249	135
88492	A1/248	135
88493	99-0222 CID	128
88494	99-0221 CSI	128
88495	99-0201 CSI	128
88496	CP52 FKN	134
88497	T13 FKB	134
88498	T17 FKF	134
88499	FKE	134
88500	T16	135
88502	CP94	134
88503	CP79	134
88504	FMR	133
88505	CP91	134
88506	CP92	134
88507	CP92	134
88508	CP93	134
88509	EGN	134
88510	CP95	132
88511	CP95	132
88512	CP59	135
88513	99-1422 CSI HR	128
88514	99-1222 CSI CS	128
88515	T11 Q1000T8/CL	134
88516	M36	136
88529	T14 FKD	134
88530	CP51 FKM	134
88531	CP39 FKH	134
88532	CP53	135
88533	CP43 FTL	134
88535	CP61 EXD SUPER	132

Product Code	Product Description	Page No.
88536	CP62 EXE SUPER	132
88537	CMH150/PAR64/830/GX16d/MFL	128
88538	CP40 FKJ	134
88541	CMH150/PAR64/942/GX16d/WFL	128
88542	CMH150/PAR64/942/GX16d/MFL	128
88543	CMH150/PAR64/942/GX16d/SP	128
88545	CMH150/PAR64/830/GX16d/SP	128
88546	BTM	134
88548	FLK	133
88549	CP62 EXE SUPER	132
88550	CP61 EXD SUPER	132
88551	CP60 EXC SUPER	132
88610	CYX	134
88615	EGJ	134
88617	EGE	134
88622	EGT	134
88624	EHD	133
88625	FEL	133
88626	EHG	133
88627	EHF	133
88629	FEY	135
88832	F18T8/BLB	129
88833	F36T8/BLB	129
88874	HX48	134
88875	CP29	134
88876	CP29	134
88877	CP30	135
88878	CP58	135
88879	CP32	135
88880	CP105	135
96735	CP43 FTL	134
96800	CSR1500/S/DE/STB	127
96802	CSR1200/S/DE/60/STB	127
99944	CP86 PAR64/VNSP	132
99945	CP87 PAR64/NSP	132
99946	CP87 PAR64/NSP	132
99947	CP88 PAR64/MFL	132
99948	CP88 PAR64/MFL	132

Specialty Lamps

10872	QH3650/CL/5	146
11077	G8T5	143
11078	G15T8	144
11080	G30T8	144
11082	G25T8	144
11478	EXL	147
11482	EXM	147
12403	F58W/830CVG	144
12405	F58W/835CVG	144
12407	F58W/840CVG	144
12423	F70W/835CVG	144
12424	F70W/840CVG	144
12716	QH2MT3/CL/HT/R	146
15482	Q20A/PAR56/C	147
15551	QH2M/T3/1CL/HT/VB	146
15864	G64T5	143
15872	G4T5	143
15873	G6T5	143
15874	G36T5	143
15875	G55T8HO	144
16494	G16T5	143
16941	F15WBL 350	143

Product Code	Product Description	Page No.
16968	F25T8 F&SA	145
16969	F30T8 F&SA	145
16970	F36T8 F&SA	145
16984	F38T8 FA	145
16987	F15T8 SW	145
16991	F25T8 SW	145
16992	F30T8 SW	145
16995	F36T8 SW	145
16999	F38T8 SW	145
17202	F36W/835CVG	144
17203	F18W/830CVG	144
17204	F18W/835CVG	144
17205	F18W/840CVG	144
17208	F36W/830CVG	144
17209	F36W/840CVG	144
18668	QH2MT3/CL/VB	146
20092	HH 451 1500W RUBY 230-240V	146
20093	HH 804 2000W RUBY 230-240V	146
21377	QH1MT3/CL/R/MS-235V	146
21787	QH500T3/CL/7	146
21788	QH500T3/CL	146
22355	QH1000T3/CL	146
22357	QH1000T3/CL	146
22357	QH1000T3/CL	146
22531	QH1200T3/CL	146
22532	QH1200T3/CL/HT	146
22688	QH1600T3/CL	146
22691	QH1600T3/CL/7	146
22789	QH2M/T3/1CL/HT	146
22790	QH2M/T3/CL/HT	146
22838	QH2500T3/CL	146
22875	QH3800/CL	146
22900	QH5M/T3/1CL/HT	146
23857	Q6.6A/T4/5CL	147
23860	Q6.6AT4/DCR	147
23863	Q20A/PAR56/3	147
25618	F40W/T12/BLB	143
29495	G11T5	143
29504	G64T5/4P/SE	143
32917	Q65T2 1/2/1/CL	147
33279	Q6.6A/PAR56/3	147
34747	F20W/T12/BLB	143
39882	F4W/T5/BLB	143
39883	F6W/T5/BLB	143
39884	F8W/T5/BLB	143
40695	GBX5/UVC G23	144
40696	GBX9/UVC G23	144
40700	GBX11/UVC G23	144
40703	GBX13/UVC GX23	144
40704	GBX18/UVC/2G11	144
40705	GBX36/UVC/2G11	144
40706	GBX55/UVC/2G11	144
40723	QH 750W 230-240V Ruby Slim	146
42740	QH 1300W 230-240V Ruby Slim	146
42935	F9BX BL G23	143
42936	F11BX BL G23	143
42937	F13BX BL GX23	143
42939	F24BX BL 2G11	143
42940	F36BX BL 2G11	143
42941	F55BX BL 2G11	143
44212	F15T8 F&SA	145
44213	F18T8 F&SA	145
44218	F30T8 F&SA	145

Product Code	Product Description	Page No.
44219	F36T8 F&SA	145
44220	F38T8 F&SA	145
44230	F15T8 SW	145
44231	F18T8 SW	145
44235	F30T8 SW	145
44236	F36T8 SW	145
44239	F15T8 REP	145
44240	F18T8 REP	145
44241	F30T8 REP	145
44242	F36T8 REP	145
48433	F54T5/830/HO/ECO/CVG	145
48436	F54T5/835/HO/ECO/CVG	145
48458	F54T5/841/HO/ECO/CVG	145
48469	F54T5/865/HO/ECO/CVG	145
70990	F39W/T5/865/ECO/CVG	145
70991	F39W/T5/850/ECO/CVG	145
70993	F39W/T5/841/ECO/CVG	145
70994	F39W/T5/835/ECO/CVG	145
70995	F39W/T5/830/ECO/CVG	145
70996	F24W/T5/865/ECO/CVG	145
70997	F24W/T5/841/ECO/CVG	145
70998	F24W/T5/835/ECO/CVG	145
70999	F24W/T5/850/ECO/CVG	145
71000	F24W/T5/830/ECO/CVG	145
72761	G15T8/CVG	144
72762	G25T8/CVG	144
72763	G30T8/CVG	144
72764	G55T8/CVG	144
72939	F15WBLCVG	143
72985	F54T5/830//ECO/WM/CVG	145
72986	F54T5/835//ECO/WM/CVG	145
72987	F54T5/841/ECO/WM/CVG	145
72988	F54T5/850//ECO/WM/CVG	145
72989	F54T5/865//ECO/WM/CVG	145
80311	F54T5/850/HO/ECO/CVG	145
80583	Q6.6A45PK30d male	147
80584	Q6.6A100PK30d male	147
80585	Q6.6A150PK30d male	147
80586	Q6.6A200PK30d male	147
80588	Q6.6A100PK30d female	147
80589	Q6.6A150PK30d female	147
80590	Q6.6A200PK30d female	147
88413	AF7/2 6.6A 200W	147
88417	AF6/5T 6.6A 100W	147
88420	AF6/2 6.6A 45W	147
88523	1200T20	147
88525	IM T20BP	147
88832	F18/T8/BLB	143
88833	F36/T8/BLB	143

Glossary

A

Accent Lighting
Directional lighting to emphasize a particular object or draw attention to a display item.

Adaptation
The process by which the human eye adjusts to a change in light level.

Ambient Lighting
The general lighting present in an area -excluding task lighting and accent lighting but including general lighting and daylight streaming in.

Ambient Temperature
The surrounding temperature within an environment.

Amperes ("Amps.")
A measure of electrical current. In incandescent lamps, the current is related to voltage and power as follows: Watts (power) = Volts x Amps (current).

American National Standards Institute (ANSI)
A consensus-based organization which coordinates voluntary standards for the physical, electrical and performance characteristics of lamps, ballasts, luminaires and other lighting and electrical equipment.

Anode
The "positive" terminal of a diode.

ANSI Ballast Type
Ballast type used to operate lamp in accordance with ANSI standard.

ANSI Codes
These are 3-letter codes assigned by the American National Standards Institute. They provide a system of assuring mechanical and electrical interchangeability among similarly coded lamps from various manufacturers. General Electric uses the assigned ANSI Codes as Lamp Ordering Codes for most Projection Lamps.

Application
Also called "lighting application," it refers to the particular use the lamp is being put to. (e.g. high-bay industrial application or retail lighting application.) The term can also refer in a general way to "application engineering" which deals with specific parameters and usage of light sources. (e.g. how to do a lighting layout, where to place fixtures and so on.)

Arc
A general term for a high intensity electrical discharge occurring between two electrodes in a gaseous medium, usually accompanied by the generation of heat and the emission of light (See ELECTRICAL DISCHARGE).

Arc Lamp
A light source containing an arc (see above). Also called a discharge lamp, or an arc discharge lamp (See ELECTRICAL DISCHARGE).

Arc Length
In High Intensity Discharge lamps this is the distance between the electrode tips, which represents the physical length of the electrical discharge.

Atmosphere
This field designates the type of gas or vacuum filling a volume or chamber of the lamp. This chamber might contain a filament or it might refer to the bulb which contains the arc tube.

Auto Reset Shutdown Circuit
Circuit senses lamp end life and will automatically shut off power to the lamp(s). When a new lamp is inserted in the socket, the ballast resets, and turns on the lamp automatically. Some shutdown circuits require the power to be cycled before a new lamp will re-light.

B

Ballast
An auxiliary piece of equipment required to start and to properly control the flow of current to gas discharge light sources such as fluorescent and high intensity discharge (HID) lamps.

Ballast Efficacy Factor (BEF)
Defined as ballast factor x 100 divided by input watts. The value is used to evaluate various lighting systems based on light output and power input. The BEF can only be used to compare systems operating the same type and quantityof lamps.

Ballast Factor (BF)
This is the percentage of a lamp's rated lumen output that can be expected when operated on a specific, commercially available ballast. For example, a ballast with a ballast factor of 0.93 will result in the lamp's emitting 93% of its rated lumen output. A ballast with a lower BF results in less light output and also generally consumes less power.

Ballast Hum
Sound generated by the vibration of laminations in the iron core of the transformer or inductor present in the ballast.

Ballast Losses
Power or energy dissipated in the ballast as heat and not converted to lamp energy.

Base or Socket
The socket is the receptacle connected to the electrical supply; the base is the end of the lamp that fits into the socket. There are many types of bases used in lamps, screw bases being the most common for incandescent and HID lamps, while bipin bases are common for linear fluorescent lamps.

Base Temperature (Maximum)
The maximum operating temperature permitted for the base in Celsius. Fixture manufacturers need to ensure that these conditions are satisfied in their fixture.

Bayonet
A style of bulb base which uses keyways instead of threads to connect the bulb to the fixture base. The bulb is locked in place by pushing it down and turning it clockwise.

Beam Angle
The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 50% of maximum. The beam angle sometimes called "beam spread" is often part of the ordering code for the reflectorized lamps. Example: The 50PAR30/HIR/NFL25 is a 50 watt PAR30 narrow flood lamp with a beam angle of 25 degrees (See FIELD ANGLE).

Beam Lumens
The total lumens present within the portion of the beam contained in the beam angle.

Beam Spread (Approximate)
For reflector type lamps. The total angle of the directed beam (in degrees horizontal or vertical) to where the intensity of the beam falls to 50% or 10% of the maximum candlepower value as indicated.

Bi-Pin
Any base with two metal pins for electrical contact. This is the typical base for a fluorescent tube of 1 to 4 feet in length. It consists of 2 prong contacts which connect into the fixture. Medium bi-pins are used with type T-8 and T-12 tubular fluorescent lamps, and miniature bi-pins are used for tubular T-5 fluorescent lamps.

Biax™

GE trademark for its biaxial family of high-efficiency and long-life compact fluorescent lamps. DBX (Double Biax), TBX (Triple Biax) and QBX (Quad Biax) refer to the number of U-shaped legs present in the lamp.

Blackbody

A hot body with an incandescent black surface at a certain temperature used as a standard for comparison. Note that a black surface is the best radiator possible. A tungsten filament will emit slightly less radiation than a blackbody at the same temperature.

Black Light

A popular term referring to a light source emitting mostly near UV (320 to 400 nm) and very little visible light.

Blacktop

Whether or not the top of the miniature lamp has a blacktop coating. The coating is used to control unwanted brightness or glare.

Bollard

A short, thick post with a light at its top, used for grounds and outdoor walkway lighting.

Bottom Exit Studs (BES)

(LFL plug-in ballasts) A configuration with screw studs mounted on the base plate or bottom of the ballast. The screws are 3/8" inches long with a #8-32 thread size (#8-32 nut). They are mounted on a two-inch center. The studs are usually used to mount the ballast directly onto a junction box plate.

Bulb

A loose way of referring to a lamp. "Bulb" refers to the outer glass bulb containing the light source.

Bulb Material or Coating

The type of glass (or quartz) used in the glass envelope surrounding the light source. The material can also have coatings applied to achieve particular performances.

Bulb Size

Bulb shape followed by its size (the maximum diameter of the bulb expressed in eighths of an inch). For Compact Fluorescent products, "S", "D", "T", and "Q" are used to represent Single, Double, Triple and Quad Biax® sizes. The code also includes a reference such as T4 to represent the size of the tube. Rectangular headlamps are designated as "Rect" and the number of millimeters horizontally.

C

Canadian Energy Standards

Indicates ballast complies with Canadian Energy Standards and meets the requirements of CAN/CSA C654-M91.

Canadian Standards Association (CSA)

An organization that writes standards and tests lighting equipment for performance as well as electrical and fire safety. Canadian provincial laws generally require that all products sold for consumer use in Canada must have CSA or equivalent approval.

Candela [cd]

The measure of luminous intensity of a source in a given direction. The term has been retained from the early days of lighting when a standard candle of a fixed size and composition was defined as producing one candela in every direction. A plot of intensity versus direction is called a candela distribution curve and is often provided for reflectorized lamps and for luminaires with a lamp operating in them.

Candlepower

An obsolete term for luminous intensity; current practice is to refer to this simply as candelas (see CANDELA).

Candlepower (Mean Spherical)

Initial mean spherical candlepower at the design voltage. Mean spherical candlepower is the generally accepted method of rating the total light output of miniature lamps. To convert this rating to lumens, multiply it by 12.57 (4 pi).

Candlepower Distribution Curve

A graphical presentation of the distribution of light intensity of a light source, usually a reflector lamp or luminaire.

Capacitor

Device in an electronic circuit (part of ballast or a separate element) that stores electrical energy. Often used for power factor correction and lamp regulation.

Cathode

The "negative" terminal of a diode/arc.

Cathode Resistance

Resistance of the cathode in a Fluorescent lamp. It is measured "cold" before the lamp is turned on (Rc) or "hot" after the lamp is turned on (Rh). The ratio of the hot resistance to the cold resistance is also measured (Rh/Rc).

Center Beam Candlepower (CBCP)

Refers to the luminous intensity at the center of the beam of a blown or pressed reflector lamp (such as a PAR lamp). Measured in candelas.

Ceramic Metal Halide (CMH)

A type of metal halide lamp that uses a ceramic material for the arc tube instead of glass quartz, resulting in better colour rendering (>80 CRI) and improved lumen maintenance. GE ConstantColor™ CMH lamps feature a 3-piece arc tube design that delivers excellent colour consistency and lamp reliability.

Chip

A very small square of semi-conducting material. Also known as a "die," it is the "active" light-emitting component of an LED.

Chromaticity

Measure to identify the colour of a light source, typically expressed as (x,y) coordinates on a chromaticity chart (See COLOUR TEMPERATURE).

Chromaticity Coordinates

A system for measuring the colour of the light emitted from a light source-either a primary source like a lamp or a secondary source like an illuminated object. Usually two numbers, x and y coordinates ranging from 0 to 1 specify the chromaticity.

Class P Thermal Protector

A switching device sensitive to current and heat that automatically disconnects ballast if the temperature exceeds UL temperature limitations.

Coefficient of Utilization (CU)

In general lighting calculations, the fraction of initial lamp lumens that reach the work plane. CU is a function of luminaire efficiency, room surface reflectances and room shape.

Coil

Windings of copper or aluminum wire surrounding the steel core in ballast. Also refers to the entire assembly comprising the inductor or transformer.

Colour Bin

LEDs are often sorted according to their CIE chromaticity coordinates into different groupings or "bins."

Glossary

Colour Rendering Index (CRI)
An international system used to rate a lamp's ability to render object colours. The higher the CRI (based upon a 0-100 scale) the richer colours generally appear. CRI ratings of various lamps may be compared, but a numerical comparison is only valid if the lamps are close in colour temperature. CRI differences among lamps are not usually significant (visible to the eye) unless the difference is more than 3-5 points.

Colour Rendering Indicator
Draws attention to the fact that this is a lamp with high colour rendering, which helps objects and persons illuminated to appear more true to life.

Colour Temperature (Correlated Colour Temperature - CCT)
A number indicating the degree of "yellowness" or "blueness" of a white light source. Measured in Kelvins, CCT represents the temperature an incandescent object (like a filament) must reach to mimic the colour of the lamp. Yellowish-white ("warm") sources, like incandescent lamps, have lower colour temperatures in the 2700K-3000K range; white and bluish-white ("cool") sources, such as cool white (4100K) and natural daylight (6000K), have higher colour temperatures. The higher the colour temperature the whiter, or bluer, the light will be (See CHROMATICITY).

Compact Fluorescent Lamp (CFL)
The general term applied to fluorescent lamps that are single-ended and that have smaller diameter tubes that are bent to form a compact shape. Some CFLs have integral ballasts and medium or candelabra screw bases for easy replacement of incandescent lamps.

ConstantColor™
A GE registered name for lamp families that show very little colour shift over life, such as GE's Precise™ MR16 lamps and GE's ceramic metal halide (CMH) lamps.

Coolbeam
(See DICHROIC REFLECTOR)

Cool White
A term loosely used to denote a colour temperature of around 4100 K or higher. The Cool White (CW) designation is used specifically for T12 and other fluorescent lamps using halophosphors and having a CRI of 62.

Core
Component of electromagnetic ballast that is surrounded by the coil. Core is comprised of steel laminations or solid ferrite material.

Core & Coil Ballast
A ballast that uses a "Core & Coil" assembly to operate fluorescent or HID lamps. Refers to copper or aluminum windings on a steel core.

Cosine-Corrected
An illuminance meter that measures the light level correctly irrespective of the angle the light is coming from. (See ILLUMINANCE METER)

Cost of Light
Usually refers to the cost of operating and maintaining a lighting system on an ongoing basis. The 88-8-4 rule states that (typically) 88% is the cost of electricity, 8% is labor and only 4% is the cost of lamps.

covRguard™
A lamp encased by a plastic sleeve or coating to help contain glass fragments if the lamp breaks.

Crest Factor (Max Current)
The ratio of the peak lamp current to average lamp operating current (RMS). The lower the current crest factor is, the gentler the ballast is on the lamp.

Current Type (AC/DC)
Whether the operational voltage is based on Alternating Current or Direct Current.

D

Daylight Harvesting
Lighting design for building interiors that makes of daylight as a way of reducing energy consumption.

Daylight Lamp
A lamp resembling the colour of daylight, typically with a colour temperature of 5500 K to 6500K.

Declaration of Conformity (DoC)
A self-declaration of a product on its compliance to the Electromagnetic Compatibility Directive and the Low Voltage Directive and it can bare CE conformity marking (EU).

Dichroic Reflector (or Filter)
A reflector (or filter) that reflects one region of the spectrum while allowing the other region(s) to pass through. A reflector lamp with a dichroic reflector will have a "cool beam" i.e. most of the heat has been removed from the beam by allowing it to pass through the reflector while the light has been reflected.

Die
See Chip.

Dimmable
Whether or not the lamp lumens can be varied while maintaining reliability.

Dimmer, Dimming Control
A device used to lower the light output of a source, usually by reducing the wattage it is being operated at. Dimming controls are increasing in popularity as energy conserving devices.

Discharge Lamp
A lamp where light is emitted from an electrical discharge between two electrodes as opposed to a filament lamp. Examples are: Fluorescent lamps and HID (High Intensity Discharge) lamps like Metal Halide, Mercury and High Pressure Sodium.

All discharge lamps require some kind of current limiting device, e.g. a ballast, to operate them.

Driver
Control gear for LED-based products. Can be either constant current or constant voltage. For LED lamps the driver is often integral (see 'Self-Ballasted Lamps').

E

Eccentricity (Maximum)
In High Intensity Discharge lamps the Bulb to Arc Angle is the angle off of center between electrodes and bulb. The Bulb to Base Angle is the angle off of center that the bulb is from the base.

Edison Award
An annual competition where lighting designers submit their best projects. The entries are judged by an international panel and awards are presented at a banquet accompanying Light Fair, the North American trade show for the lighting industry.

Efficacy
A measurement of how effective the light source is in converting electrical energy to LUMENS of visible light. Expressed in LUMENS-PER-WATT [LPW] this measure gives more weight to the yellow region of the spectrum and less weight to the blue and red region where the eye is not as sensitive.

Efficiency

The efficiency of a light source is simply the fraction of electrical energy converted to light, i.e. watts of visible light produced for each watt of electrical power with no concern about the wavelength where the energy is being radiated. For example, a 100 watt incandescent lamp converts 7% of the electrical energy into light; discharge lamps convert 25% to 40% into light.

The efficiency of a luminaire or fixture is the percentage of the lamp lumens that actually comes out of the fixture (See LUMINOUS EFFICACY).

Efficiency of Ballast

The ratio of output power divided by input power. A premium ballast would have an electrical efficiency greater than 90%. The efficiency of a luminaire or fixture is the percentage of the lamp lumens that actually comes out of the fixture.

e-HID ballast

(see ELECTRONIC HID BALLAST).

ELC (European Lamp Companies Federation)

Created in 1985, the European Lamp Companies Federation (ELC) is both the forum and the voice of the lamp industry in Europe. It represents the leading European lamp manufacturers, which collectively directly employ 50,000 people, and account for 95 percent of total European production, with an annual turnover in Europe of €5 billion. From the outset, ELC objectives have been to promote efficient lighting practice for a sustainable environment and the advancement of human comfort, health and safety. To this end, ELC monitors, advises and co-operates with legislative bodies in developing European Directives and Regulations relevant to the European lamp industry.

Electrical Discharge

A condition under which a gas becomes electrically conducting and becomes capable of transmitting current, usually accompanied by the emission of visible and other radiation. An electric spark in air is an example of an electrical discharge, as is a welder's arc and a lightning bolt. (See ARC, ELECTRODELESS LAMPS)

Electrical Testing Laboratory (ETL)

Independent testing laboratory that performs ballast tests and certifies accuracy of performance data.

Electrode

Any metal terminal emitting or collecting charged particles, typically inside the chamber of a gas discharge lamp. In a fluorescent lamp, the electrodes are typically metal filaments coated with special powders called emission mix. Negatively charged free electrons emitted by one electrode are attracted to the positive electrode (anode), creating an electric current and arc between electrodes.

Electrodeless Lamps

Light sources where the discharge occurs in a chamber with no electrodes (no metal). The energy for the discharge is supplied by radio frequency excitation, e.g. microwaves (See GENURA).

Electromagnetic Ballast

(See MAGENTIC BALLASTS).

Electromagnetic Inference (EMI)

High frequency electronic ballasts and other electronic devices can produce a small amount of radio waves which can interfere with radio and TV. Federal mandated requirements must be met for EMI levels before an electronic device is considered FCC compliant (US). (FCC is the Federal Communications Commission).

Electromagnetic Spectrum

A continuum of electric and magnetic radiation that can be characterized by wavelength or frequency. Visible light encompasses a small part of the electromagnetic spectrum in the region from about 380 nanometers (violet) to 770 nanometers (red) by wavelength.

Electronic Ballast

A short name for a fluorescent high frequency electronic ballast. Electronic ballasts use solid state electronic components and typically operate fluorescent lamps at frequencies in the range of 25-35 kHz. The benefits are: increased lamp efficacy, reduced ballast losses and lighter, smaller ballasts compared to electromagnetic ballasts. Electronic ballasts may also be used with HID (high intensity discharge) lamps (See ELECTROMAGNETIC BALLAST).

Electronic HID Ballast

An electronic ballast capable of operating an HID lamp. GE's UltraMax® (electronic HID ballast) operates PulseArc® (metal halide) and CMH (ceramic metal halide) lamps between 250W and 400W and provides higher efficiency and significantly improved lumen maintenance over magnetic ballasts.

Elliptical Reflector (ER) Lamp

An incandescent lamp with a built-in elliptically-shaped reflecting surface. This shape produces a focal point directly in front of the lamp which reduces the light absorption in some types of luminaires . It is particularly effective at increasing the efficacy of baffled downlights.

Enclosed Fixtures

(See OPEN FIXTURE RATED)

Energy Policy Act (EPACT)

Comprehensive energy legislation passed by the U. S. Congress in 1992. The lighting portion includes lamp labeling and minimum energy efficacy (lumens/watt) requirements for many commonly used incandescent and fluorescent lamp types. Federal Canadian legislation sets similar minimum energy efficacy requirements for incandescent reflector lamps and common linear fluorescent lamps.

Energy Policy Act (EPACT) Indicator

Means this lamp is Federally regulated for Energy Efficiency (US) (See ENERGY POLICY ACT).

EoL (End-of-Life Protection)

A circuit that senses that a lamp has reached end of life (compact fluorescent lamps and small diameter linear fluorescent lamps) and turns off power to the lamp. Continuing to power the lamp beyond end of life can result in overheating of the lamp ends.

Energy-Using Products (EuP)

The EuP Directive establishes a framework for the setting of eco-design requirements for energy-using products. It aims to improve the environmental performance of products throughout the life-cycle, by systematic integration of environmental aspects at a very early stage in the product design.

Eye Sensitivity

A curve depicting the sensitivity of the human eye as a function of wavelength (or colour). The peak of human eye sensitivity is in the yellow-green region of the spectrum. The normal curve refers to photopic vision or the response of the cones. (See Photopic, Scotopic, Fovea, Foveal vision)

F

Federal Communications Commission (FCC)

The U. S. Federal agency that regulates emissions in the radio frequency portion of the electromagnetic spectrum. Part 18 of the FCC rules specifies electromagnetic interference (EMI) from lighting devices operating at frequencies greater than 9 kilohertz (kHz). Typical electronically-ballasted compact fluorescent lamps operate in the 24 - 100 kHz frequency range.

Field Angle

The angular dimension of the cone of light from reflectorized lamps (such as R and PAR types) encompassing the central part of the beam out to the angle where the intensity is 10% of maximum (See BEAM ANGLE).

Filament Design

Filaments are designated by a letter combination in which C is a coiled wire filament, CC is a coiled wire that is itself wound into a larger coil, and SR is a straight ribbon filament. Numbers represent the type of filament-support arrangement.

Fixture Requirements

Describes fixture requirements for HID lamps.
O = Open or Enclosed Fixtures
E = Enclosed Fixtures Only
S = Lamps operated in a vertical position (Base Up or Down) ±15°, can be used in an open fixture. Lamps burned in any other orientation must be used in "enclosed fixtures only".

Flicker

The periodic variation in light level caused by AC operation that can lead to strobe effects.

Flood

Used to refer to the beam pattern of a reflector lamp, which disperses the light over a wide beam angle, typically 20 degrees or more. ("Flood" as opposed to "Spot")

Floodlight

A luminaire used to light a scene or object to a level much brighter than its surroundings. Usually floodlights can be aimed at the object or area of interest.

Fluorescence

A physical phenomenon whereby an atom of a material absorbs a photon of light an immediately emits a photon of longer wavelength. If there is a significant delay the phenomenon is called phosphorescence rather than fluorescence. It is interesting that "phosphors" used in lamps exhibit "fluorescence," not "phosphorescence." (See PHOSPHOR).

Fluorescent HO

Fluorescent HO and VHO lamps require special ballasts that generate higher currents than standard ballasts and operate the lamps at higher wattage than standard lamps. These lamps are generally less efficient than the standard product. Metal Halide HO and XHO lamps operate on the same ballasts as standard lamps and at the same wattage but are more efficient and produce higher light output than standard lamps.

Fluorescent Lamp

A high efficiency lamp utilizing an electric discharge through low pressure mercury vapour to produce ultraviolet (UV) energy. The UV excites phosphor materials applied as a thin layer on the inside of a glass tube which makes up the structure of the lamp. The phosphors transform the UV to visible light.

Footcandle (fc)

A unit of illuminance or light falling onto a surface. It stands for the light level on a surface one foot from a standard candle. One footcandle is equal to one lumen per square foot. See also Lux.

Footcandle Meter

(See ILLUMINANCE METER).

Footlambert

An obsolete term referring to a luminance of 1/? candelas per square foot.

Forward Current

Current through an LED in the direction of its greatest conduction.

Forward Voltage (VF)

The voltage across an LED for a given forward current.

Four-Pin Compact Fluorescent Lamps

A "plug-in" compact fluorescent lamp with 4 pins in the base to make electrical contact with the ballast. Four-pin lamps can be dimmed on appropriate dimming ballasts while two-pin lamps cannot.

Frequency

Rate of alternation in an AC current. Expressed in cycles per second or Hertz (Hz).

Fovea, Foveal Vision

A small region of the retina corresponding to what an observer is looking straight at. This region is populated almost entirely with cones, while the peripheral region has increasing numbers of rods. Cones have a sensitivity peaking in the yellow and corresponding to the eye response curve (See PHOTOPIC, SCOTOPIC, EYE SENSITIVITY).

Full Spectrum Lighting

A marketing term, typically associated with light sources that are similar to some forms of natural daylight (5000K and above, 90+ CRI), but sometimes more broadly used for lamps that have a smooth and continuous colour spectrum.

G

Genura™

GE's electrodeless compact fluorescent lamp, Genura™, uses induction to power the discharge. The chamber generates UV (just like a discharge in a regular fluorescent lamp) that is converted by phosphors to visible light. Because Genura™ uses no electrodes, the life of this unique reflector lamp is longer than typical compact fluorescent products (see INDUCTION LIGHTING).

Glare

Visual discomfort caused by excessive brightness is called discomfort glare. If task performance is affected it is called disability glare. Glare can be direct glare or indirect (reflected) glare (See VEILING REFLECTIONS and VISUAL COMFORT PROBABILITY).

Group Relamping

The practice of replacing all the lamps at an installation at one time with new lamps when the lamps have operated for (typically) 65% to 70% of rated life. The two benefits of group relamping are: (1) reduced maintenance costs because of the expense and inconvenience of replacing failing lamps one at a time, and (2) improved appearance and performance since older lamps are often degrading in brightness and colour as they age.

H

Halogen Lamp

A halogen lamp is an incandescent lamp with a filament that is surrounded by halogen gases, such as iodine or bromine. Halogen gases allow the filaments to be operated at higher temperatures and higher efficacies. The halogen participates in a tungsten transport cycle, returning tungsten to the filament and prolonging lamp life.

Halogen-IR (HIR™) Lamp

GE designation for high-efficiency tungsten halogen lamps. HIR lamps utilize shaped filament tubes coated with numerous layers of materials that transmit light but reflect the heat (infrared) back into the filament. This reduces the power needed to keep the filament hot.

High-Efficiency (Energy Saving) Electromagnetic Ballast
Ballast with core & coils, designed to minimize ballast losses compared to the "standard" ballast.

High-Bay Lighting
Lighting designed for (typically) industrial locations with a ceiling height of 25 feet and above.

High Intensity Discharge (HID) Lamp
A general term for mercury, metal halide and high-pressure sodium lamps. HID lamps contain compact arc tubes which enclose various gases and metal salts operating at relatively high pressures and temperatures.

High Output/Very High Output (HO, VHO) Lamps
Designation for lamps generating more light than standard lamps.

High Power Factor
A ballast or lamp with integral electronics whose power factor is corrected to 90% or greater.

High-Pressure Sodium (HPS) Lamp
HPS lamps are high intensity discharge light sources that produce light by an electrical discharge through sodium vapor operating at relatively high pressures and temperatures. GE markets these lamps under the trade name of Lucalox™.

Hot Restart Time
Time it takes for a High Intensity Discharge lamp to reach 90% of light output after going from on to off to on.

I

I-Line
A GE designation for a family of metal halide lamps which will operate on a mercury ballast. Designed as a simple retrofit for mercury lamp.

Ignitor
An electronic device providing a high voltage pulse to initiate an electrical discharge. Typically, the ignitor is paired with or is a part of the ballast (See STARTER).

Illuminance
The "density" of light (lumens/area) incident on a surface; i.e. the light level on a surface. Illuminance is measured in footcandles or lux.

Illuminance Meter
A device that measures the illuminance at a location calibrated either in footcandles or in lux. (Also know as a light meter - See COSINE CORRECTED).

Incandescent Lamp
A light source that generates light utilizing a thin filament wire (usually of tungsten) heated to white heat by an electric current passing through it.

Indirect Lighting
The method of lighting a space by directing the light from luminaires upwards towards the ceiling. The light scattered off the ceiling produces a soft, diffuse illumination for the entire area.

Induction Lighting
Gases can be excited directly by radio-frequency or microwaves from a coil that creates induced electromagnetic fields. This is called induction lighting and it differs from a conventional discharge, which uses electrodes to carry current into the arc. Induction lamps have no electrodes inside the chamber and generally, therefore, have longer life than standard lamps.

Infrared Radiation
Electromagnetic energy radiated in the wavelength range of about 770 to 1,000,000 nanometers. Energy in this range cannot be seen by the human eye, but can be sensed as heat by the skin.

Input Voltage
Power supply voltage required for proper operation of fluorescent or HID ballast.

Input Watts
The total power input to the ballast that includes lamp watts and ballast losses. The total power input to the fixture is the input watts to the ballast or ballasts and is the value to be used when calculating cost of energy and air conditioning loads. More than 90% of the input watts is wattage or power delivered to the lamp load with typical ballast.

Instant Start
A type of ballast designed to start fluorescent lamps as soon as the power is applied. Most T8 fluorescent lamps are being operated on electronic instant-start ballasts.
Slimline fluorescent lamps operate only on instant-start circuits.

Instant-Start Lamp
A fluorescent lamp, usually with a single pin at each end, approved to operate on instant-start ballasts. The lamp is ignited by a high voltage without any filament heating.

Integral
A popular term for a lamp which includes a built-in ballast (CFL or HID), driver (LED) or transformer (halogen).

Intensity Bin
LEDs are often sorted according to their luminous intensity values into different groupings or "bins".

Inverse Square Law
Formula stating that if you double the distance from the light source, the light level goes down by a factor of 4, if you triple the distance, it goes down by a factor of 9, and so on.

Isocandela Plot
A plot with lines connecting points of equal luminous intensity around a source.

Isolux Plot (or Isofootcandle Plot)
A line plotted to show points of equal illuminance (lux or footcandles) on a surface illuminated by a source or sources.

K

Kelvin
A unit of temperature starting from absolute zero, parallel to the Celsius (or Centigrade) scale. 0C is 273K.

Kilowatt [kW]
The measure of electrical power equal to 1000 watts.

Kilowatt Hour [kWh]
The standard measure of electrical energy and the typical billing unit used by electrical utilities for electricity use. A 100-watt lamp operated for 10 hours consumes 1000 watt-hours (100 x 10) or one kilowatt-hour. If the utility charges $.10/kWh, then the electricity cost for the 10 hours of operation would be 10 cents (1 x $.10)

L

Laminations
Layers of steel, making up the "core" that is surrounded by the coils in a core & coil ballast.

Glossary

Lamp

The term used to refer to the complete light source package, including the inner parts as well as the outer bulb or tube. "Lamp", of course, is also commonly used to refer to a type of small light fixture such as a table lamp.

Lamp Current Crest Factor

Ratio of peak lamp current to RMS or average lamp operating current.

Lamp Height

Referenced by IEC as Dimension C. Also referred to as "Base Face to Top of Lamp".

Lamp Types

Filament lamps: Incandescent, Halogen, Halogen-IR.

Discharge Lamps: Fluorescent, HID (High Intensity Discharge)

HID Lamps: Mercury, HPS (High Pressure Sodium), MH (Metal Halide) and CMH (Ceramic Metal Halide)

LED Lamps

Lamp Width

Referenced by IEC as Dimension A.

Leadframe

A metallic frame used for mounting and connecting LED chips. The leadframe functions as the electrical leads of the device.

Lens

A transparent or semi-transparent element which controls the distribution of light by redirecting individual rays. Luminaires often have lenses in addition to reflectors.

Life

(See RATED LAMP LIFE).

Light

Radiant energy that can be sensed or seen by the human eye. Visible light is measured in lumens.

Light Center Length (L.C.L.)

The distance between the center of the filament, or arc tube, and a reference plane - usually the bottom of the lamp base. Refer to the following chart for reference plane locations.

Base type	L.C.L Reference Plane Location
All screw bases (except Mini-Can)	Bottom of base contact
Mini-Can	Where diameter of ceramic base insulator is .531 inches
3-Contact Medium	Bottom of base contact
Mogul Medium Prefocus	Top of base fins
Mogul Prefocus	Top of base fins
Medium BiPost	Base end of bulb (Glass lamps) Bottom of ceramic base (Quartz lamps)
Mogul BiPost	Shoulder of posts (Glass lamps) Bottom of ceramic base (Quartz lamps)
2-Pin Prefocus	Bottom of ceramic base
S.C. or D.C. Bayonet Candelabra	Top of base pins
Medium Bayonet	Top of base pins
S.C. or D.C. Prefocus	Plane of locating bases on prefocus collar
Medium 2-Pin	Bottom of metal base shell

Light Emitting Diode (LED)

A solid that directly converts electrical impulses into light. Most white light LEDs incorporate phosphors to change the colour characteristics of the emitted light.

Lighting Industry Federation (LIF) Code

For Stage & Studio lamps, these are assigned by the Lighting Federation of London U.K. They ensure electrical and mechanical interchangeability of similarly coded lamps. LIF codes are divided into groups according to the primary application of the lamps.

Light Loss Factor

The product of all factors that contribute to lowering the illumination level including reflector degradation, dirt, lamp depreciation over time, voltage fluctuations, etc.

Light Meter

(See ILLUMINANCE METER)

Light Pollution

Light that is directed to areas where it is not needed, and thereby interferes with some visual act. Light pollution directed or reflected into the sky creates a "dome" of wasted light and makes it difficult to see stars above cities.

Light Trespass (Spill Light)

Light that is not aimed properly or shielded effectively can spill out at into areas that don't want it: it can be directed towards drivers, pedestrians or neighbors. It is distracting and annoying and can sometimes be disabling.

Lucalox™

The GE brand name for high-pressure sodium lamps.

Lumens

A measure of the luminous flux or quantity of light emitted by a source. For example, a dinner candle provides about 12 lumens. A 60-watt Soft White incandescent lamp provides about 840 lumens.

Lumen Depreciation, Lumen Maintenance

A measure of how well a lamp maintains its light output over time. It may be expressed numerically or as a graph of light output vs. time. The "mean lumens" of a lamp is the lumens at 40% of rated life (50% for HPS lamp).

Lumens Per Watt (LPW)

A ratio expressing the luminous efficacy of a lightsource.

Typical lamp efficacies:

Edison's first lamp	1.4 LPW
Incandescent lamps	10-20
Halogen lamps	15-30
Fluorescent lamps	35-105
Mercury lamps	50-60
Metal halide lamps	60-120
High-pressure sodium lamps	60-140

Note: The values above for discharge lamps do not include the effect of the ballasts, which must be used with those lamps. Taking ballast losses into account reduces "system" or lamp ballast efficacies typically by 10-20% depending upon the type of ballast used.

Luminaire

A complete lighting unit consisting of a lamp (or lamps), ballast (or ballasts) as required together with the parts designed to distribute the light, position and protect the lamps and connect them to the power supply. A luminaire is often referred to as a fixture.

Luminaire Efficiency

The ratio of total lumens emitted by a luminaire to those emitted by the lamp or lamps used in that luminaire. Also commonly referred to as 'Light Output Ratio' or LOR.

Luminance
A measure of "surface brightness" when an observer is looking in the direction of the surface. It is measured in candelas per square meter (or per square foot) and was formerly referred to as "photometric brightness."

Luminous Efficacy
The light output (lumens) of a light source divided by the total power input (watts) to that source. It is expressed in lumens per watt (see LUMENS PER WATT).

Luminous Intensity
A measure of the visibility of a light source generally expressed in candelas. It is defined as luminous flux per unit solid angle (steradian) in a given direction.

Lux (lx)
A unit of illuminance or light falling onto a surface. One lux is equal to one lumen per square meter. Ten lux approximately equals one footcandle. (See FOOTCANDLE)

M

Magnetic Ballast
A ballast used with discharge lamps that consists primarily of transformer-like copper or aluminum windings on a steel or iron core. Also called "Core & Coil" (see ELECTRONIC BALLASTS).

Maximum Overall Length (M.O.L.)
The end-to-end measurement of a lamp, expressed in inches or millimeters.

Mean Lumens
The average light output of a lamp over its rated life. Based on the shape of the lumen depreciation curve, for fluorescent and metal halide lamps, mean lumens are measured at 40% of rated lamp life. For mercury, high-pressure sodium and incandescent lamps , mean lumen ratings refer to lumens at 50% of rated lamp life (See LUMEN MAINTENANCE).

Medium Base
Usually refers to the screw base typically used in household incandescent lamps. There is also the medium bipin base commonly used in T12 and T8 fluorescent lamps.

Mercury Lamp
A high-intensity discharge light source operating at a relatively high pressure (about 1 atmosphere) and temperature in which most of the light is produced by radiation from excited mercury vapor. Phosphor coatings on some lamp types add additional light and improve colour rendering.

Metal Cases
Case design used in both magnetic and electronic ballasts. These ballasts are grounded once they are mounted to the fixture. They meet all safety codes, some of which do not allow plastic in open plenum areas.

Metal Halide Lamp
A high-intensity discharge light source in which the light is produced by the radiation from mercury, plus halides of metals such as sodium, scandium, indium and dysprosium. Some lamp types may also utilize phosphor coatings.

Mesopic
Typically referring to nighttime outdoor lighting conditions, the region between PHOTOPIC and SCOTOPIC vision (See SCOTOPIC).

Mogul Base
A screw base used on larger lamps, e.g. many HID lamps.

Monochromatic Light
Light with only one wavelength (i.e. colour) present.

Mortality Curve
Lamps have a rated or expected life but individual failures occur earlier and some lamps will last longer. The mortality curve depicts the expected percent surviving in a group of lamps at various points between zero hours and rated life or beyond. The curve starts with 100% at zero hours and goes to 50% surviving at the rated life (e.g. 3000 hours or 20,000 hours, etc.) However, the shape of the curve between these two end points can vary depending on the lamp type.

Mounting Height
Distance from the bottom of the fixture to either the floor or work plane, depending on usage.

Multi-Vapor™
A GE brand name for metal halide lamps.

N

Nanometer
A unit of wavelength equal to one billionth of a meter.

National Energy Standards for Fluorescent Ballasts
A federal law enacted in 1988 that sets energy standards for ballasts consistent throughout the United States.

National Electric Code (NEC)
A nationally accepted electrical installation code to reduce the risk of fire, developed by the National Fire Protection Association (US).

National Stock Number
The standardized part number used by the US Government for procurement.

Non-PCB Capacitor
Capacitor used in ballasts to help provide power factor correction. Contains no polychlorinated biphenyls and meets EPA requirements.

Normal Power Factor
Ballasts with power factor less than .90 and do not incorporate any means of Power Factor Correction.

O

Open Circuit Voltage (OCV)
Open Circuit Voltage measured across the socket the lamp screws into, with the ballast powered on. It is dangerous to stick a voltmeter into such a socket without precise knowledge of the ballast because exceedingly high voltages could be present.

Open Fixture Rated
Lamps that are approved for burning in open fixtures (as opposed to enclosed fixtures which have an acrylic lens or plate glass enclosure).

Operating Position or Burn Position
Mercury and High Pressure Sodium lamps may be operated in any burn position and will still maintain their rated performance specifications. Metal Halide and Low Pressure Sodium lamps, however, are optimized for performance in specific burn positions, or may be restricted to certain burn positions for safety reasons.

U = Universal burning position
HBU = Horizontal -15° to Base Up
HBD = Horizontal +15° to Base Down
HOR = Horizontal ±15°
H45 = Horizontal to -45° only
VBU = Vertical Base Up ±15°
VBD = Vertical Base Down ±15°

If no special burn position is noted, the burn position is universal.

Operating Voltage
For electrical discharge lamps, this is the voltage measured across the discharge when the lamp is operating. It is governed by the contents of the chamber and is somewhat independent of the ballast and other external factors.

P

PAR Lamp

PAR is an acronym for parabolic aluminized reflector. A PAR lamp, which may utilize either an incandescent filament, a halogen filament tube or a HID arc tube, is a precision pressed-glass reflector lamp. PAR lamps rely on both the internal reflector and prisms in the lens for control of the light beam.

Parallel Lamp Operation/Parallel Wiring

Refers to ballasts that employ multiple output current paths from a single ballast to allow lamps to operate independent of one another, allowing other lamps operated by the ballast to remain lit should companion lamp(s) fail (see SERIES LAMP OPERATION).

PCB (Polychlorinated Biphenyls)

Chemical pollutant formerly used in ballast capacitors that were part of ballasts. It is now illegal to use PCBs and most such ballasts have been replaced over time.

Peak Wavelength

The maximum wavelength of an LED.

Phosphor

An inorganic chemical compound processed into a powder and deposited on the inner glass surface of fluorescent tubes and some mercury and metal-halide lamp bulbs. Phosphors are designed to absorb short wavelength ultraviolet radiation and to transform and emit it as visible light (See FLUORESCENCE). Phosphors are also used in LED devices to create white light when used in combination with LEDs of certain wavelengths.

Photometry

The measurement of light and related quantities.

Photopic

Vision for which the cones in the eye are responsible; typically at high brightness and in the foveal or central region (See SCOTOPIC , FOVEA, FOVEAL VISON).

Plug-In

(See CFL).

Potting

Material used to completely surround and cover components of some magnetic and electronic ballasts. Potting compound fulfills functions of protecting components, dampening sound, and dissipating heat.

Power Factor (PF)

A measure of the phase difference between voltage and current drawn by an electrical device, such as a ballast or motor. Power factors can range from 0 to 1.0, with 1.0 being ideal. Power factor is sometimes expressed as a percent. Incandescent lamps have power factors close to 1.0 because they are simple "resistive" loads. The power factor of a fluorescent and HID lamp system is determined by the ballast used. "High" power factor usually means a rating of 0.9 or greater. Power companies may penalize users for using low power factor devices.

Power Factor Corrected

Ballasts that incorporate a means of Power Factor Correction yielding power factor of 90% or greater.

Precise™

The GE trade name for the compact MR-16 and MR-11 low-voltage halogen dichroic cool beam reflectorized spot and flood lamps.

Preheat Circuit

A type of fluorescent lamp-ballast circuit used with the first commercial fluorescent lamp products. A push button or automatic switch is used to preheat the lamp cathodes to a glow state. Starting the lamp can then be accomplished using simple "choke" or reactor ballasts.

Product Code

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

Programmed Rapid Start

Lamp starting method which preheats the lamp filaments while not allowing the lamp to ignite and then applies the open circuit voltage (OCV) to start the lamp. The user may experience a half- to one-second delay after turning on the lamps while the preheating takes place. This type of starting circuit keeps lamp end blackening to a minimum and improves lamp life performance, especially in applications where the lamps are frequently switched on and off.

Pulse Start

An HID ballast with a high voltage ignitor to start the lamp.

Q

Quad

Generally refers to a compact fluorescent lamp containing 4 U-shaped tubes.

Quartz

A name for fused silica or melted sand from which many high-temperature containers are fashioned in the lighting industry. Quartz looks like glass but can withstand the high temperatures needed to contain high intensity arc discharges.

Quartz-Halogen Lamp

(See HALOGEN LAMPS).

Quartzline®

A GE registered trademark term for some types of halogen lamps.

R

Radiation

A general term for the release of energy in a "wave" or "ray" form. All light is radiant energy or radiation, as is heat, UV, microwaves, radio waves, etc.

Rapid Start

Lamp starting method in which lamp filaments are heated while open circuit voltage (OCV) is applied to facilitate lamp ignition. A Rapid Start fluorescent lamp has two pins at each end connected to the filament. Some rapid start lamps may be instant-started without filament heat, for example, the F32T8 lamp.

Rapid Start Circuit

A fluorescent lamp-ballast circuit that utilizes continuous cathode heating, while the system is energized, to start and maintain lamp light output at efficient levels. Rapid start ballasts may be either electromagnetic, electronic or of hybrid designs. Full-range fluorescent lamp dimming is only possible with rapid start systems (See INSTANT START).

Rated Lamp Life

For most lamp types, rated lamp life is the length of time of a statistically large sample between first use and the point when 50% of the lamps have died. It is possible to define "useful life" of a lamp based on practical considerations involving lumen depreciation and colour shift and also on the need to reduce lamp replacement costs (See GROUP RELAMPING).

For GE LED products, rated life is quoted (unless where indicated otherwise), as the 'L70' value. This refers to the time taken to reach 70% of initial lumen output. This is the emerging industry standard for LED products.

Reflectance

The ratio of light reflected from a surface to that incident upon it.

Reflector Lamp (R)

A light source with a built-in reflecting surface. Sometimes, the term is used to refer specifically to blown bulbs like the R and ER lamps; at other times, it includes all reflectorized lamps like PAR and MR. Most LED lamps are also replacements for reflector lamps, even if they do not physically have a reflector as part of their construction.

Reverse Voltage (VR)

Voltage across the diode for a given reverse current.

RoHS (Restriction of Hazardous Substances)

The Restriction of Hazardous Substances (RoHS) Directive aims to minimise the environmental impact of waste electrical and electronic equipment by reducing the quantities of four heavy metals and two brominated flame retardants that it may contain.

Room Cavity Ratio (RCR)

A shape factor (for a room, etc.) used in lighting calculations.

RCR = 5H (L+W) / L x W, or, alternately,

RCR = (2.5) Total Wall Area / Floor Area.

Where H = height, L = length and W = width of the room. A cubical room will have an RCR of 10; the flatter the room the lower the RCR.

S

State and County Code (SCC)

The full 14 digit case code used on GE's content label.

Scotopic

Vision where the rods of the retina are exclusively responsible for seeing, typically like the light levels in the countryside on a moonless, starlit night (See also PHOTOPIC , FOVEA, FOVEAL VISION MESOPIC).

Scotopic/Photopic (S/P) Ratio

This measurement accounts for the fact that of the two light sensors in the retina, rods are more sensitive to blue light (scotopic vision) and cones to yellow light (photopic vision). The scotopic/photopic (S/P) ratio is an attempt to capture the relative strengths of these two responses. S/P is calculated as the ration of scotopic lumens to photopic lumens for the light source on an ANSI reference ballast. Cooler sources (higher colour temperatures lamps) tend to have higher values of the S/P ratio compared to warm sources.

Screw-In

(See CFL).

Seal Temperature (Maximum)

The maximum operating temperature of the seal of the lamp in Celsius.

Self-Ballasted Lamps

A lamp with an integral ballasting device allowing the lamp to be directly connected to a socket providing line voltage (See CFL).

Series Lamp Operation

Refers to ballasts that employ a single current path passing through all lamps operated by the ballast. If one lamp should fail, companion lamps operated by the same ballasts will also extinguish or dim.

Source Size

For Projection lamps, this is defined as the dimensions of the rectangular area, centered on the lamp axis, within which all luminous parts of the filament lie, when viewed perpendicular to the axis of the filament coil or to the plane of C-13 and C-13D filaments.

Spacing to Mounting Height Ratio

Ratio of fixture spacing (distance apart) to mounting height above the work plane; sometimes called spacing criterion. It is OK to have fixture spaced closer than the spacing criterion suggested by the manufacturer but not farther, or you will get dark spots in-between fixtures.

Specification Series (SP) Colours

Energy-efficient, all-purpose, tri- phosphor fluorescent lamp colours that provide good colour rendering. The CRI for SP colours is 70 or above and varies by specific lamp type.

Specification Series Deluxe (SPX) Colours

Energy-efficient, all-purpose, tri- phosphor fluorescent lamp colours that provide better colour rendering than Specification Series (SP) colours. The CRI for SPX colours is 80 or above and varies by specific lamp type. All GE CFL products use SPX phosphors.

Specification Series Deluxe eXtreme (SPXX) Colours

A colour designation for GE ceramic metal halide lamps with superior colour rendering ~ 90.

Spectral Power Distribution (SPD)

A graph of the radiant power emitted by a light source as a function of wavelength. SPDs provide a visual profile or "finger print" of the colour characteristics of the source throughout the visible part of the spectrum.

Spectrum

See SPECTRAL POWER DISTRIBUTION (SPD) .

Specular Reflection

Reflection from a smooth, shiny surface, as opposed to diffuse reflection.

Spiral™ Lamp

GE trademark for its helical family of high efficiency, long-life compact fluorescent lamps.

Spot

A colloquial term referring to a reflector lamp with a tight beam of light, typically around 10 degrees or less. It comes from the fact that such a lamp produces a narrow spot of light as opposed to a wide flood of light.

SPXX

A Colour Designation for GE Ceramic Metal Halide Lamps with superior Colour Rendering ~ 90.

Starcoat™

GE's special barrier coating applied on the inside of all GE T8 fluorescent lamps, as well as some other lamp types, to enhance lamp life and deliver superior lumen maintenance.

Starter

An electronic module or device used to assist in starting a discharge lamp, typically by providing a high-voltage surge (See IGNITOR).

Starting Temperature (Minimum)

The minimum ambient temperature at which the lamp will start reliably.

Sunburn

Skin reddening and inflammation caused by overexposure to sources containing UV-B and/or UV-C.

System

A term referring to the lamp and ballast combination, and sometimes to the entire lighting delivery system including the fixture, the optics, the thermal management system, the particular layout and the lighting controls.

T

T12, T8, T5

A designation for the diameter of a tubular bulb in eighths of an inch; T12 is 12 eighths of an inch, or 1-1/2 inches; T8 is 1 inch, and so on.

Task Lighting

Supplemental lighting provided to assist in performing a localized task, e.g. a table lamp for reading or an inspection lamp for fabric inspection.

Terminal-to-Terminal Starting Lamp Voltage (VRMS) (Minimum or Maximum)

The minimum or maximum voltage allowed into lamp from ballast under varying conditions as specified.

Total Harmonic Distortion (THD)

A measure of the distortion caused by ballasts and other inductive loads of the input current on alternating current (AC) power systems caused by higher order harmonics of the fundamental frequency (60Hz in North America). THD is expressed in percent and may refer to individual electrical loads (such as ballast) or a total electrical circuit or system in a building. ANSI C82.77 recommends THD not exceed 32% for individual commercial electronic ballasts, although some electrical utilities may require lower THDs on some systems. Excessive THDs on electrical systems can cause efficiency losses as well as overheating and deterioration of system components.

Transients

High voltage surges through an electrical system caused by lightning strikes to nearby transformers, overhead lines or the ground. May also be caused by switching of motors or compressors, as well as by short circuits or utility system switching. Can lead to premature ballast failure (see TVSS).

Troffer

A long, recessed lighting unit, usually installed in an opening in the ceiling.

Tungsten-Halogen Lamp

(See HALOGEN LAMP).

TVSS

Transient Voltage Surge Suppressors, which will protect ballasts and other electronic equipment from transient high-voltage spikes that may be present in the power line.

Two-Pin Compact Fluorescent Lamps

Type of lamps that have the glow bottle starter built into the base of the lamp. Traditionally 2-pin lamps are designed to work with electromagnetic ballasts (see FOUR-PIN COMPACT FLUORESCENT LAMPS).

U

Uniform Code Council (UCC)

The 12 digit case code derived from the last 12 digits of the 14 digit SCC code on GE's case content label.

Uniform Product Code (UPC)

The 12 digit code on the saleable unit that is used for scanning at the register.

Ultra

A common way of referring to high-efficiency.

Ultraviolet (UV) Radiation

For practical purposes, any radiant energy within the range of 100–380 nanometers. It is beyond the blue or violet region of the spectrum, and is invisible to the eye just like the silent "ultrasound" dog whistle is inaudible to the ear.

UV is divided into 3 regions:

UVA	100 to 280 nm
UVB	280 to 315 nm
UVC	315 to 400 nm

Some wavelengths (180–220) produce ozone, some (220–300) are bactericidal, some (280–320) erythemal (redden human skin); others (320–400) cause secondary luminance (black light).

V

Valance Lighting

Lighting from light sources on a wall typically above eye level, shielded by horizontal panels. The light may be upward or downward directed.

Veiling Reflection

Effective reduction in contrast between task and its background caused by the reflection of light rays; sometimes called "reflected glare". You might have dealt with veiling reflections when you have to tilt a shiny magazine to avoid glare so as to read it, or struggled with reading a computer monitor because of the reflection of a window or a light fixture (See GLARE).

Vio™

GE's unique LED platform that provides best in class quality and stability of light from LED's, due to its unique use of violet chips combined with proprietary phosphors.

Visual Comfort Probability (VCP)

For a given lighting scheme, VCP is a ratio expressed as a percent of people who, when viewing from a specific location and in a specified direction, find the system acceptable in terms of glare (See GLARE).

Visual Task

The task associated with seeing; objects and details that must be seen to perform an activity.

Volt

A measure of "electrical pressure" between two points. The higher the voltage, the more current will be pushed through a resistor connected across the points. The volt specification of an incandescent lamp is the electrical "pressure" required to drive it at its designed point. The "voltage" of a ballast (e.g. 277 V) refers to the line voltage it must be connected to.

Voltage

A measurement of the electromotive force in an electrical circuit or device expressed in volts. Voltage can be thought of as being analogous to the pressure in a waterline.

Voltage (Design)

For Automotive lamps, voltage at which the lamp is designed to provide the amperes, candlepower, and laboratory life characteristics. For Projection lamps, the voltage shown is the design voltage of the lamp, on which the life and wattage ratings are based. Lamps for which 115-120 is shown in the Volts column are designed at 118 volts. Lamps are available only in the design voltage(s) shown. When ordering lamps listed for more than one voltage, be sure to specify the voltage required. (Supply voltage variation can significantly affect lamp life.)

Voltage Surge

Transient spikes in line voltage that can be harmful to electronic equipment like computers and electronic ballasts. Surge suppressors are often used to protect against such transients.

W

Wall Temperature (Maximum Bulb)
The maximum operating bulb wall temperature in Celsius.

Warm-Up Time
HID lamps typically take a few minutes to warm up to full brightness after starting.

Warm Up Time to 90%
The time it takes for a High Intensity Discharge lamp to reach 90% of light output after being turned on.

Warm White
Refers to a colour temperature around 3000K, providing a yellowish-white light.

Watt
A unit of electrical power. Lamps are rated in watts to indicate the rate at which they consume energy (See KILOWATT HOUR).

Wattage Indicator Reduced
Indicates that this is a reduced wattage option for lamps normally used in this application. Be sure to check wattage, lumens and life to determine which lamp is best suited to your needs.

Watt-Miser™
A Watt-Miser™ lamp is a term used by GE to indicate a reduced-wattage lamp with performance characteristics (life, light output, etc.) such that it can usually directly replace a higher-wattage product. Watt-Miser™ lamps are available in a wide range of incandescent and fluorescent lamp types.

Wavelength
The distance between two neighboring crests of a traveling wave. The wavelength of light is between 400 and 700 nanometers.

WEEE (Waste Electrical and Electronic Equipment)
The Waste Electrical and Electronic Equipment Directive (WEEE Directive) aims to minimise the impact of electrical and electronic goods on the environment, by increasing re-use and recycling and reducing the amount of WEEE going to landfill. It seeks to achieve this by making producers responsible for financing the collection, treatment, and recovery of waste electrical equipment, and by obliging distributors to allow consumers to return their waste equipment free of charge.

Work Plane
Plane at which work is done and at which illumination is specified and measured; unless otherwise indicated, it is assumed to be a horizontal plane 30 inches above the floor (table-top height) having the same area as the floor.

Working Distance (Typical)
The Working Distance shown is the distance from the front surface of the reflector rim to the film plane, in the optical system for which the lamp was first designed. In most cases, it provides a uniform plane of light for the intended aperture.

Sales offices

ALBANIA
VSD Merkur dooel
Sales Representative of
GE Hungary Kft.
Bulv. Zogu I-re Pallati 103/6B
Tirane
Albania
Tel: (355) 4 226 4807

ALGERIA, GHANA, LYBIA, MORROCO, NIGERIA, TUNISIA
GE Hungary Kft.
Váci út 77
1340 Budapest
Hungary
Tel: (36) 1 231 5280
Fax: (36) 1 231 5121

ANGOLA, BOTSWANA, KENYA, MADAGASCAR, MAURITIUS, MOZAMBIQUE, NAMIBIA, TANZANIA, ZAMBIA, ZIMBABWE
GE South Africa - Consumer and Industrial
Unit 4, 130 Gazelle Avenue,
Corporate Park
Midrand 1685
South Africa
Tel: (27) 11 237 0000
Fax: (27) 11 314 7518

ARGENTINA
GE Iluminacion S.A.
Edificio Uruguay III
Virasoro 2656, 2° PISO
(B1643HDB) Beccar, Buenos Aires
Argentina
Tel: (54) 11 5556 3300
Fax: (54) 11 4736 6616

AUSTRALIA
GE Lighting Australia Ltd.
125-127 Long Street
Smithfield, NSW 2164
Australia
Tel: (61) 2 8788 6911
Fax: (61) 2 8788 7224

AUSTRIA
GE Lighting GmbH
Eisenstr. 5
65428 Rüsselsheim
Germany
Tel: (49) 6142 601 163
Fax: (49) 6142 601 164

BAHRAIN, IRAQ, JORDAN, KUWAIT, LEBANON, OMAN, PAKISTAN, QATAR, UAE, YEMEN
GE International Inc.
City Tower II, Sheikh Zayed Rd
P.O.Box 52905
Dubai
UAE
Tel: (971) 4 3310 444
Fax: (971) 4 3315 930

BOSNIA AND HERZEGOVINA
Media Light d.o.o.
Exclusive agent of GE Hungary Kft.
Lighting and Power Protection
Cesta na Brdo 109
1000 Ljubljana
Slovenia
Tel: (386) 1 530 4366
Fax: (386) 1 530 4361

BRAZIL, URUGUAY
General Electric do Brasil
Parque Industrial
Thomas Edison
Rua Miguel Angelo, 37
Maria da Graca
Rio de Janiero 20783-900
Brazil
Tel: (55) 21 582 6471
Fax: (55) 21 582 6533

BULGARIA
GEII-Bulgaria
Str. Dragan Tzankov 36,
1040 Sofia
Bulgaria
Tel: (359) 2 973 3148
Fax: (359) 2 971 4384

CANADA
GE Lighting Canada
468 South Service Road E,
Oakville, Ontario L6J 2X6
Canada
Tel: (1) 877 259 0941

CARIBBEAN & CENTRAL AMERICA
General Electric Company
790 N.W. 107 Avenue, Suite 204
Miami, Florida 33172
USA
Tel: (1) 305 551 5114
Fax: (1)305 551 5116

CHILE, BOLIVIA
General Electric de Chile S/A
Casilla 2103
Av. Vicuna Mackenna 2385,
Santiago
Chile
Tel: (56) 2 555 3031
Fax: (56) 2 556 7329

CHINA
GE Consumer & Industrial
Shanghai Office
(GE Enterprise Development Co., Ltd)
(GE Lighting Co., Ltd)
22F~24F, Building C, Hi-Tech
Building, 900 Yishan Road,
PC: 200233
Shanghai
P.R. China
Tel: (86) 21 24013333
Fax: (86) 21 64857177

COLOMBIA
GE Lighting, Colombia
Carrera 5 No. 81-50 Apto 204
El Pinar, Alto, Santafe de Bogota
Colombia
Tel: (58) 212 902 5131
Fax: (58) 212 902 5158

CROATIA
Media Light d.o.o.
Exclusive agent of GE Hungary Kft.
Lighting and Power Protection
Cesta na Brdo 109
1000 Ljubljana
Slovenia
Tel: (386) 1 530 4366
Fax: (386) 1 530 4361

CYPRUS, MALTA
General Electric Medical Systems SA
156 Kyprou Av. & 91
Konstantinoupoleos Str.
164 51 Argyroupolis, Athens
Greece
Tel: (30) 210 9690 669
Fax: (30) 210 9625 931

CZECH REPUBLIC
GE Industrial, s.r.o.
Lidická 965 / 31, 602 00 Brno
Czech Republic
Tel: (420) 5 4132 1015,
(420) 5 4132 1016
Fax: (420) 5 4132 1017

DENMARK
GE Lighting A/S
Park Alle 295
DK-2605 Bröndby
Denmark
Tel: (45) 8040 4945
Fax: (45) 8040 4947

EGYPT
GE International Operations Co.
54 Lebanon Street,
Mohandessin, Giza
Egypt
Tel: (20) 2 301 8060 or 8065
Fax: (20) 2 303 1082

ESTONIA, LATVIA, LITHUANIA
General Electric Co.
Polska Sp. z o.o.
ul Syrokomli 6
03-335 Warszawa
Poland
Tel: (48) 22 519 76 00
Fax: (48) 22 519 76 02

FINLAND
GE Consumer & Industrial Oy
Kuortaneenkatu 2
00510 Helsinki
Finland
Tel: (358) 103942507
Fax: (358) 103942515

FRANCE & BENELUX
GE Lighting SARL
ZAC Paris Nord II
13, rue de la Perdrix
B.P. 50073
95947 Roissy CDG Cedex
France
Tel: (33) 1 48 63 68 00
Fax: (33) 1 48 63 68 08

GERMANY
GE Lighting GmbH
Eisenstr. 5
65428 Rüsselsheim
Germany
Tel: (49) 6142 601 163
Fax: (49) 6142 601 164

GREECE
General Electric Medical Systems SA
156 Kyprou Av. & 91
Konstantinoupoleos Str.
164 51 Argyroupolis, Athens
Greece
Tel: (30) 210 9690 669
Fax: (30) 210 9625 931

HONG KONG
GE International Operations Co.Inc.
8th Floor, The Lee Gardens
33 Hysan Avenue
Causeway Bay
Hong Kong
Tel: (852) 2100 6900
Fax: (852) 2376 0013

HUNGARY
GE Hungary Kft.
1340 Budapest
Váci út 77.
Tel: (36) 1 399 1100
Fax: (36) 1 399 1672

INDIA, SRI LANKA
GE India Industrial Pvt Ltd.
42/1, Electronic City Phase 2
Bangalore – 560100
Karnataka
India
Tel: (91) 80 41113000
Fax: (91) 80 28528366

INDONESIA
PT.GE Lighting Indonesia
Gedung BRI II,27 th Floor
Jl.Jenderal Sudirman Kav.
44-46,Jakarta 10210
Indonesia
Tel: (62) 21 574 5240
Fax: (62) 21 574 5241

IRELAND
GE Lighting Ltd.
280 Holly Road
Western Industrial Estate
Naas Road
Dublin 12
Ireland
Tel: (353) 1 456 5591
Fax: (353) 1 450 4142

ITALY
GE Lighting Srl
Via Brescia 31,
36040 Torri di Quartesolo (VI)
Vicenza
Tel: (39) 0444 26781
Fax: (39) 0444 267818

ISRAEL
Sun Plaza, Dereboyu Sok
No. 24/6, Maslak,
Istanbul 34398
Turkey
Tel:(90) 212 366 28 00
Fax: (90) 212 366 28 40

JAPAN
GE Consumer Products Japan, Ltd.
12F Akasaka Park Bldg., 5-2-20
Akasaka, Minatoku,
Tokyo 107-6112
Japan
Tel: (81) 3 5544 6700
Fax: (81) 3 5544 6760

KAZAKHSTAN
GE International Inc. Branch in Kazakhstan
Prime Business Center
Ul. Furmanova, 100G, Office 302
480091, Almaty
Kazakhstan
Tel: (7) 3272 588 010
Fax: (7) 3272 588 011

KOREA
GE Lighting Korea
3F GE Tower, 71-3 Chungdam-Dong,
Kangnam-Gu, Seoul,
Korea 135-100
Tel: (82) 2 6201 4300
Fax: (82) 2-6201-4343, 4344

MACEDONIA
VSD MERKUR dooel Exclusive Agent of GE Hungary Kft.
Vasil Glavinov 7B/3
1000 Skopje
Macedonia
Tel: (389) 2 3244790
Fax: (389) 2 3244797

MALAYSIA
General Electric International Inc.
Level 6 & 7, 1 Sentral,
Jalan Travers,
Kuala Lumpur Sentral,
50470 Kuala Lumpur
Malaysia
Tel: (60) 3 2273 9788
Fax: (60) 3 2273 3473

MEXICO
GE Lighting Mexico, SA de CV
Av. Churubusco No 3900 Norte
Apartado Postal 216
64510 Monterrey, N.L. Mexico
Mexico
Tel: (52) 8 318 5600
Fax: (52) 8 318 5693

MONTENEGRO
VSD Merkur dooel Sales Representative of GE Hungary Kft.
Bul. Mihajla Pupina 10D/105
11070 Novi Beograd
Serbia
Tel: (381) 11 311 9256
Fax: (389) 2 324 4797

NEW ZEALAND
GE Lighting New Zealand
8 Tangihua St
Auckland 1010
New Zealand
Tel: (64) 9 353 6706
Fax: (64) 9 353 6707

NORWAY
GE Lighting AS
Karenslyst Allé 2,
Postboks 589
0214 Oslo
Norway
Tel: (47) 80011321
Fax: (47) 80011048

PERU, ECUADOR
GE Lighting Peru SA
Av. Larco 1301 Oficina 1902
Miraflores
Lima 18
Peru
Tel: (511) 610-4347
Fax: (511) 610-4330

PHILIPPINES
GE Lighting Philippines
1873 P. Domingo Street
1207 Makati City, Metro Manila
POB 2087 MCC
Philippines
Tel: (63) 2 895 7051
Fax: (63) 2 890 8186

POLAND
GE Power Controls S.A.
ul. Leszczynska 6
43-300 Bielsko Biala
VAT no.NIP 526-10-30-824
Registration: REGON 011165913 KRS 0000073794, Sad Rejonowy dla m. st. Warszawy, XIII Wydzial Gospodarczy
Krajowego Rejestru Sadowego
Initial capital: 9.365.500,00PLN
Sales Office: ul Syrokomli 6
03-335 Warszawa
Tel: (48) 22 519 76 00
Fax: (48) 22 519 76 02

PORTUGAL
GE Lighting Appliances España, s.a.
Av Galileo Galilei 11
Parque Empresarial La Carpetania
28906 getafe,Madrid
Spain
Freephone in Portugal: (800) 836 010
Free fax in Portugal: (800) 836 007

ROMANIA, MOLDAVIA
VSD MERKUR dooel
Exclusive Agent of GE Hungary Kft.
Buzesti 50-52
Bucharest
Romania
Tel: (40) 21 302 1114

RUSSIA
OOO GE Rus, Krasnopresnenskaya Nab., 18, Moscow, 123317
Russia
Tel: (7) 495 739 6855
Fax: (7) 495 739 6810

SAUDI ARABIA
GE International Inc.CO
5th Floor, Tatweer Towers
King Fahad Road,
PO Box: 10211
Riyadh 11433
Saudi Arabia
Tel: (966 1) 207-3800
Fax: (966 1) 207-3900 & 207-3901

SERBIA
VSD MERKUR dooel Exclusive Agent of GE Hungary Kft.
Bul. Mihajla Pupina 10D/105
11070 Novi Beograd
Serbia
Tel: (381) 11 3119256
Fax: (381) 11 3119257

SINGAPORE, BRUNEI
GE Pacific Pte. Ltd.
240 Tanjong Pagar Road
#06-00 GE Tower
Singapore 088540
Singapore
Tel: (65) 6326 3319
Fax: (65) 6326 3015

SLOVAKIA
GE Hungary Kft.
1340 Budapest
Váci út 77
Hungary
Tel: (36) 1 447 6461
Fax: (36) 1 399 1672

SLOVENIA
Media Light d.o.o.
Exclusive agent of GE Hungary Kft.
Lighting and Power Protection
Cesta na Brdo 109
1000 Ljubljana
Slovenia
Tel: (386) 1 5304366
Fax: (386) 1 530 4361

SOUTH AFRICA
GE South Africa - Consumer and Industrial
Unit 4, 130 Gazelle Avenue,
Corporate Park
Midrand 1685
South Africa
Tel: (27) 11 237 0000
Fax: (27) 11 314 7518

SPAIN
GE Lighting Appliances España, s.a.,
Av Galileo Galilei 11
Parque Empresarial La Carpetania
28906 getafe,Madrid
Spain
Freephone in Spain: 900 993.612
Free fax in Spain: 900 993.609

SWEDEN
GE Lighting AB
Box 306, Solna strandväg 98
171 75 Stockholm
Sweden
Tel: (46) 8 51 99 22 12
Fax: (46) 8 51 99 22 14

SWITZERLAND
GE Lighting GmbH
Eisenstr. 5,
65428 Rüsselsheim
Germany
Tel: (49) 6142 601 163
Fax: (49) 6142 601 164

THAILAND, CAMBODIA, LAOS
GE Lighting (Thailand) Ltd.
1126/2 Vanit Building II, 16th Floor,
Room No. 1603, New Petchburi Road, Makkasan, Rajchthewi,
Bangkok 10400
Thailand
Tel: (66) 2 255 8721-31
Fax: (66) 2 255 8733

TAIWAN
GE Lighting Taiwan
7FL, No 8, Sec 3, Min Sheng E. Rd,
Taipei, 104,
Taiwan
Tel: (886) 2 21837000
Fax: (886) 2 25167356

TURKEY
General Elektrik Turk Ltd.
Sun Plaza, Dereboyu Sokak
No. 24/6, Maslak,
Istanbul 34398
Turkey
Tel: (90) 212 366 28 00
Fax: (90) 212 366 28 40

UKRAINE
General Electric Co.
Horizont Tower
42/44 Shovkovichna str., 8 Floor
Kiev 01004
Ukraine
Tel: (380) 44 490 69 83
Fax: (380) 44 490 69 82

UNITED KINGDOM
GE Lighting Ltd.
Houghton Centre
Northampton
NN4 7EX
United Kingdom
Tel: (44) 800 169 8290
Fax: (44) 800 169 8284

UNITED STATES OF AMERICA
GE Lighting
Nela Park, 1975 Noble Road
Cleveland, Ohio 44112
USA
Tel: (1) 216 266 2121
Fax: (1) 216 266 2780

VENEZUELA
GE Iluminacion de Venezuela
S.A. TERMAQ
Centro Banaven (Cubo Negro)
Torre A Piso 6, Avenida La Estancia,
Chuao, Caracas,
Venezuela
Tel: (58) 212 902 5131
Fax: (58) 212 902 5158

VIETNAM
GE Consumer & Industrial
7fl, Saigon Centre, 65 Le Loi blv, Dist.1,
Hochiminh City,
Vietnam
Tel: (84) 4 8251016
Fax: (84) 4 8250551

Notes

Notes

www.gelighting.com/eu

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