

Aesthetics,  
economy and  
sustainability

Global  
leadership,  
innovative  
solutions

Advances in lighting technology – in particular the arrival of LED alternatives to traditional lamps – make it possible to create dramatically improved lighting systems and at the same time drive significant reductions in the carbon footprint and environmental impact of every street, office, retail store or public building.

How is this possible? Firstly, the vastly superior energy efficiency of LED lamps compared with traditional technologies brings immediate running cost savings of up to 90%, and a similar reduction in carbon footprint.

Secondly, the outstanding performance of LED lighting – quality of light, output and efficacy (lm/W) – and high reliability means a longer life, lower maintenance requirements and reduced relamping costs.

In addition to this, the development of advanced control tools such as daylight harvesting and presence detection systems builds on this inherent efficiency to deliver even greater cost and energy savings.

The sheer breadth of our LED product range means we're able to deliver complete solutions that offer fantastic aesthetics, sustainability, performance and economy.

As a global leader, we take our responsibilities very seriously indeed and are working to develop the innovative lighting solutions that will be essential to a more competitive low-carbon economy.

Lower energy lamps, longer lasting lamps, less harmful materials... they're all ways in which we are helping customers and end users take significant steps towards reducing the carbon footprint and environmental impact of everyday life.

- Up to 90% greater energy efficiency
- Reduced CO<sub>2</sub> emissions vs. older technologies
- Longer life and reduced maintenance requirements
- Environmentally-friendly: mercury free, lead free
- No UV or IR emissions



UP TO 90% GREATER  
ENERGY EFFICIENCY



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



SMART CONTROLS FOR  
EVEN GREATER COST/  
ENERGY SAVINGS



LED Retrofit  
Solutions



How many lumens  
do you need?

LED	eCFL	Halogen	Incandescent	Brightness LUMENS
4W	5W	20W	25W	220+
6W	8W	30W	40W	400+
10W	12W	42W	60W	700+
13W	15W	53W	75W	900+
18W	23W	70W	100W	1300+

The game-changing impact of LED

LED has taken lighting into the digital age. The world of lamps and ballasts has become the universe of chips and drivers; analogue technology has become digital. The significance of this change cannot be overstated. It has transformed the lighting industry.

The challenge for many users – from the consumer looking to replace a handful of lamps at home to the purchasing manager responsible for a nationwide chain of retail stores – has been when to take the plunge and upgrade from traditional technologies to the world of LED.

Here at GE we've made this transition as seamless as possible through the introduction of cost-effective retrofit solutions, products that offer a quick, easy and reliable replacement for less efficient lamps.

In short, our comprehensive range of LED Retrofit Lamps opens the door to the wealth of benefits offered by this technology – outstanding performance, long life and low energy use – without the need to invest in new fittings.

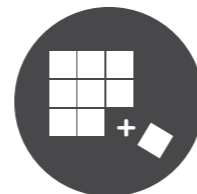
- Easy installation
- Energy savings up to 90% vs. traditional technologies
- Long life – up to 50 000 hours
- Low maintenance/replacement costs
- Future proof modular options
- Instant light, no warm-up time



EASY INSTALLATION

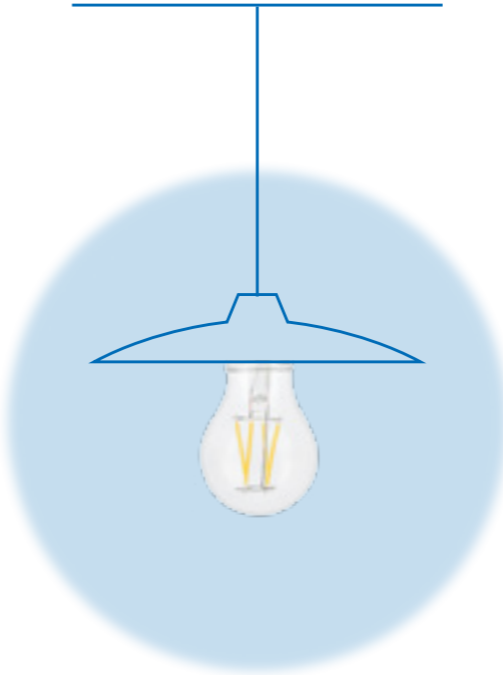


LONG LIFE - UP TO 50 000 HOURS



FUTURE PROOF MODULAR OPTIONS

LED lighting for everywhere



The introduction of our latest ranges has made selecting the right product easier than ever, with LED Retrofit Lamp ranges for almost every requirement. Whatever the specific requirements of your industry or application, we have the breadth of range to meet it.

CCT

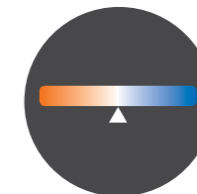
CCT describes how warm or cold a light feels. This is extremely important in lighting design as it plays a major role in determining mood and attracting sales.

Colour Rendering Index

Colour Rendering Index – or CRI – is a measurement of how true the colour of an object appears compared with how it would look under natural sunlight. From fresh produce to fashion, from galleries to gastronomy, we can deliver what you need.

Beam angle

From the wide beam required for general illumination to the narrow spotlight for feature lighting to accentuate a particular product or area, we can provide an extensive choice to meet any requirement.



CCT



COLOUR RENDERING INDEX



BEAM ANGLE



Wyndham Grand Regency Qatar  
GE SOLUTIONS:  
LED Energy Smart™ GU10 Dimmable

# LED Retrofit Solutions

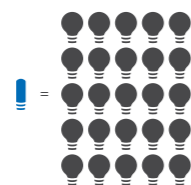
## LED Lamps

Choose from our most comprehensive LED range

LED technology has changed the world of lighting forever, delivering major savings in energy, instant illumination and a working life up to 25x longer than incandescent lamps.

At GE we've made selecting the right product easier than ever, with LED Retrofit Lamp ranges for every need, from low cost to high performance.

At the top of the range we have our Precise™ Lamps, offering high output and great aesthetics. Next there's our extremely popular Energy Smart™ range, combining the best of both worlds: impressive performance and outstanding efficiency. And for applications requiring maximum affordability, choose our functional LED Start range.



LED LAMPS LAST UP TO 25X LONGER THAN INCANDESCENT LAMPS



UP TO 80-90% ENERGY SAVING



REDUCED MAINTENANCE COSTS

### GE LED Precise™



Very long operating life

Premium performance Precise™ range for aesthetics, energy efficiency, high lumen output and long operating life.

- Premium products with superior performance
- High lumen output and energy efficiency
- Superior colour quality with CRI up to 90
- Very long operating life: L70 45 000 h+
- Optimised dimming function and compatibility



### GE LED Energy Smart™



Outstanding efficiency

Mainstream Energy Smart™ range for applications requiring high performance, reliability and efficiency.

- High quality performance and reliability
- Available in General, Decorative and Spotlights
- Wide range of base, finish and beam angles
- Outstanding efficiency: 80-90% energy saving
- Reduced maintenance costs for improved ROI



### GE LED Start



Dependable operation and reliability

Affordable Start range – functional design for dependable operation and reliable performance.

- Standard performance specifications
- Dependable operation and reliability
- Functional and economical design



# LED Retrofit Solutions

## LED Tubes

Quick and easy switch to energy-saving LED

Our unique range of LED Tubes provides a quick and convenient upgrade path for installations of all kinds, allowing users to convert existing T8 Linear Fluorescent Lamps (LFLs) to high quality, energy efficient LED lighting with a simple switch.

With products available in plastic and glass design options compatible with magnetic gears in all standards lengths and/or electronic gears (1200mm length only), upgrading from LFL couldn't be easier.



### Significant cost savings

- Energy savings of up to 60% or more
- Low power consumption
- High lumens means fewer luminaires required

### Reduced maintenance

- 2.5x longer life vs. fluorescents on electro-magnetic gear
- Excellent lumen maintenance
- Extra long relamping cycles

### Reliable, high quality light

- Instant on, no flicker
- Excellent colour rendering CRI 80+
- Colour options 3000/4000/6500K

### Quick and easy installation

- Plug-and-play products
- 600, 1200 and 1500 mm tubes
- Fit directly into standard T8 LFL G13 sockets
- Rotatable base to adjust lamp into perfect position

### Environmentally friendly solutions

- Extremely energy efficient
- Reduced carbon footprint
- No harmful lead or mercury
- Fully compliant with material restriction requirements of RoHS





# LED Retrofit Solutions

## LED Plug-in

LED replacements for plug-and-play simplicity

Our range of LED Plug-in products offers quick and cost-effective replacement options for 26W and 32W CFL Plug-in lamp without the need for tools.

GE LED Plug-in replacement lamps provide 2.5x the life of an average CFL and use only half the energy, delivering a more targeted light that requires fewer lumens and reduces waste. The result is a dramatic reduction in operating costs, coupled with equally impressive improvements in the quality of light.

With simple and reliable plug-and-play installation for both horizontal and vertical configurations, this is an extremely attractive and easy upgrade option.



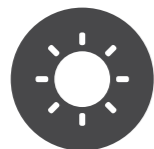
### Significant cost savings

- Energy savings of up to 60%
- More targeted light



### Long life, low maintenance

- 2.5x longer life vs. average CFL
- Reduced maintenance costs
- Excellent lumen maintenance



### Reliable, high quality light

- Instant on, no flicker
- Excellent colour rendering CRI 80+
- Colour options 2700/3000/4000/6500K



### Quick and easy installation

- Available for both horizontal and vertical configuration
- Plug-and-play for G24q-3 or GX24q-3 CFL sockets without costly upgrades
- No installation tools required



### Environmentally friendly solutions

- Extremely energy efficient
- Reduced carbon footprint
- No harmful lead or mercury
- Fully compliant with material restriction requirements of RoHS



Grosvenor House <sup>Dubai</sup>

GE SOLUTIONS:  
LED Precise™ MR16, LED drivers



## LED Retrofit Solutions

Product overview

Precise™

Energy Smart™

Start

**Precise™  
GU10 Dimmable**

Cap: GU10  
Wattage: 6W  
Voltage: 220 – 240V  
Beam Spread: 25 – 35°  
Rated life: 50 000 h

**Energy Smart™  
GU10 Dimmable**

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

**Start  
GU10**

Cap: GU10  
Wattage: 4.5W, 3W  
Voltage: 100 – 240V  
Beam Spread: 35°  
Rated life: 12 000 h

LED GU10

**Precise™  
MR16 Dimmable**

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

**Energy Smart™  
MR16**

Cap: GU5.3  
Wattage: 7W, 5.5W  
Voltage: 12V  
Beam Spread: 35°  
Rated life: 25 000 h

LED MR16

**Energy Smart™  
R111**

Cap: G53  
Wattage: 12W  
Voltage: 12V  
Beam Spread: 35°  
Rated life: 30 000 h

**Energy Smart™  
R111 Dimmable**

Cap: G53  
Wattage: 12W, 15W  
Voltage: 12V  
Beam spread: 35°  
Rated life: 30 000 h

LED R111

**Precise™  
PAR30  
Dimmable**

Cap: E27  
Wattage: 12W  
Voltage: 220 – 240V  
Beam Spread: 35°  
Rated life: 40 000 h

**Energy Smart™  
PAR38**

Cap: E27  
Wattage: 15W  
Voltage: 90 – 240V  
Beam Spread: 40°  
Rated life: 25 000 h

**Start  
R50**

Cap: E14  
Wattage: 3W  
Voltage: 100 – 240V  
Beam Spread: 35°  
Rated life: 15 000 h

**Precise™  
R63/PAR20  
Dimmable**

Cap: E27  
Wattage: 7W  
Voltage: 220 – 240V  
Beam Spread: 35°  
Rated life: 40 000 h

**Energy Smart™  
PAR16/R50**

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

LED PAR

**Filament**

Cap: E27  
Wattage: 4W  
Voltage: 220 – 240V  
Rated life: 10 000 h

**Bright Stik™**

Cap: E27  
Wattage: 6W, 10W, 16W  
Voltage: 100 – 240V  
Rated life: 15 000 h

**Energy Smart™  
Omni Dimmable**

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

**Start GLS**

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

LED GLS

# LED Retrofit Solutions

## Product overview

### Energy Smart™

### Start



#### Energy Smart™ Crown Deco Dimmable

Cap: E14, E27, B22  
Wattage: 6W, 4W  
Voltage: 220 – 240V  
Rated life: 20 000 h



#### Energy Smart™ Crown Deco Dimmable

Cap: E14, E27, B22, B15  
Wattage: 6W, 4W  
Voltage: 220 – 240V  
Rated life: 20 000 h



#### Start Candle

Cap: E14, E27  
Wattage: 3.5W  
Voltage: 100 – 240V  
Finish: White  
Rated life: 15 000 h

### LED Candle



#### Energy Smart™ Crown Deco Dimmable

Cap: E14, E27, B22  
Wattage: 6W, 4W  
Voltage: 220 – 240V  
Rated life: 20 000 h



#### Energy Smart™ Crown Deco Dimmable

Cap: E14, E27, B22  
Wattage: 6W, 4.5W  
Voltage: 220 – 240V  
Rated life: 20 000 h



#### Start Spherical

Cap: E14, E27  
Wattage: 3.5W  
Voltage: 100 – 240V  
Finish: White  
Rated life: 15 000 h

### LED Spherical, Globe

### Energy Smart™



#### Energy Smart™ Pygmy

Cap: E14  
Wattage: 1.6W  
Voltage: 100 – 240V  
Rated life: 15 000 h



#### Energy Smart™ Capsule G4

Cap: G4  
Wattage: 1.6W  
Voltage: 100 – 240V  
Rated life: 15 000 h



#### Energy Smart™ Capsule G9

Cap: G9  
Wattage: 2.5W  
Voltage: 100 – 240V  
Rated life: 15 000 h

### LED Pygmy, Capsules

### Premium universal

### Basic

### Glass



#### LED T8 Premium Universal

Cap: G13  
Wattage: 18W  
Voltage: 100 – 277V  
Rated life: 40 000 h



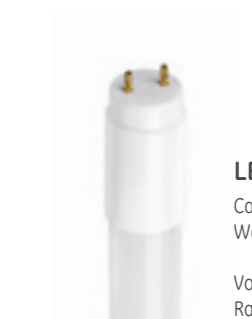
#### LED T8 Basic

Cap: G13, G13 Rot  
Wattage: 8W, 10W, 16W,  
20W, 27W  
Voltage: 100 – 240V  
Rated life: 40 000 h



#### LED T8 Glass Rotatable

Cap: G13 Rot  
Wattage: 8W, 10W, 14.5W,  
18W, 27W  
Voltage: 100 – 240V  
Rated life: 40 000 h



#### LED T8 Glass

Cap: G13  
Wattage: 8W, 10W, 14.5W,  
18W, 27W  
Voltage: 100 – 240V  
Rated life: 40 000 h

### LED T8 Tube

### LED Plug-ins



#### LED 4 pin Plug-in\*

Cap: G24q-3  
Wattage: 12.5W  
Rated life: 50 000 h  
Position: Vertical

\* Lamp can't be operated directly from  
Mains voltage, an electronic ballast is needed



#### LED 4 pin Plug-in\*

Cap: G24q-3  
Wattage: 12.5W  
Rated life: 50 000 h  
Position: Horizontal

\* Lamp can't be operated directly from  
Mains voltage, an electronic ballast is needed

### LED Plug-in

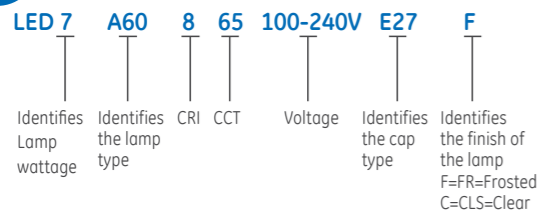
# LED Retrofit Solutions / LED Lamps

Model	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Dimming Capability	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty
<b>Energy Smart™ - LED Filament</b>															
1	4	40	E27	LED4/A60 FIL/827/220-240V/E27 H	93021980	420	2700	No	355	80	15 000	A++	60	115	6
<b>Start - Bright Stik™</b>															
2	6	40	E27	LED 6/STIK/830/100-240/E27/F 3/15	93023175	470	3000	No	240	80	15 000	A+	37	116	15
3	6	40	B22	LED 6/STIK/830/100-240/B22/F 3/15	93032230	470	3000	No	240	80	15 000	A+	37	116	15
2	6	40	E27	LED 6/STIK/840/100-240/E27/F 3/15	93023174	470	4000	No	240	80	15 000	A+	37	116	15
2	6	40	E27	LED 6/STIK/865/100-240/E27/F 3/15	93032231	470	6500	No	240	80	15 000	A+	37	116	15
3	10	60	B22	LED10/STIK/830/100-240/B22/F 3/15	93023171	810	3000	No	240	80	15 000	A+	37	115	15
2	10	60	E27	LED10/STIK/830/100-240/E27/F 1/15	93024033	810	3000	No	240	80	15 000	A+	37	116	15
2	10	60	E27	LED10/STIK/830/100-240/E27/F 3/15	93023173	810	3000	No	240	80	15 000	A+	37	116	15
2	10	60	E27	LED10/STIK/840/100-240/E27/F 1/15	93032233	810	4000	No	240	80	15 000	A+	37	116	15
2	10	60	E27	LED10/STIK/840/100-240/E27/F 3/15	93023172	810	4000	No	240	80	15 000	A+	37	116	15
2	10	60	E27	LED10/STIK/865/100-240/E27/F 1/15	93024034	810	6500	No	240	80	15 000	A+	37	116	15
2	10	60	E27	LED10/STIK/865/100-240/E27/F 3/15	93023110	810	6500	No	240	80	15 000	A+	37	116	15
3	16	100	E27	LED16/STIK/830/100-240/B22/F 2/10	93023112	1521	3000	No	240	80	15 000	A+	45	136	10
2	16	100	E27	LED16/STIK/830/100-240/E27/F 1/15	93024035	1521	3000	No	240	80	15 000	A+	45	136	15
2	16	100	E27	LED16/STIK/830/100-240/E27/F 2/10	93023114	1521	3000	No	240	80	15 000	A+	45	136	10
2	16	100	E27	LED16/STIK/840/100-240/E27/F 2/10	93023113	1521	4000	No	240	80	15 000	A+	45	136	10
2	16	100	E27	LED16/STIK/865/100-240/E27/F 1/15	93024037	1521	6500	No	240	80	15 000	A+	45	136	15
2	16	100	E27	LED16/STIK/865/100-240/E27/F 2/10	93023111	1521	6500	No	240	80	15 000	A+	45	136	10
<b>Start - GLS Snowcone</b>															
4	7	40	B22	LED 7/A60/827/100-240V/B22/F HBX1/6	93020196	470	2700	No	160	80	25 000	A+	60	107	6
5	7	40	E27	LED 7/A60/827/100-240V/E27/F HBX1/6	93020197	470	2700	No	160	80	25 000	A+	60	109	6
5	7	40	E27	LED 7/A60/865/100-240V/E27/F HBX1/6	93020198	500	6500	No	160	80	25 000	A+	60	109	6
4	10	60	B22	LED10/A60/827/100-240V/B22/F HBX1/6	93020371	810	2700	No	160	80	25 000	A+	60	107	6
5	10	60	E27	LED10/A60/827/100-240V/E27/F HBX1/6	93020372	810	2700	No	160	80	25 000	A+	60	109	6
4	10	60	B22	LED10/A60/840/100-240V/B22/F HBX1/6	93020205	810	4000	No	160	80	25 000	A+	60	107	6
5	10	60	E27	LED10/A60/840/100-240V/E27/F HBX1/6	93020210	810	4000	No	160	80	25 000	A+	60	109	6
5	10	60	E27	LED10/A60/865/100-240V/E27/F HBX 1/6	93020209	850	6500	No	160	80	25 000	A+	60	109	6
6	13	75	B22	LED13/A67/827/100-240V/B22/F HBX1/6	93020208	1055	2700	No	160	80	25 000	A+	67	107	6
7	13	75	E27	LED13/A67/827/100-240V/E27/F HBX1/6	93019930	1055	2700	No	160	80	25 000	A+	67	141	6
6	13	75	B22	LED13/A67/840/100-240V/B22/F HBX1/6	93020206	1055	4000	No	160	80	25 000	A+	67	139	6
7	13	75	E27	LED13/A67/840/100-240V/E27/F HBX1/6	93020207	1055	4000	No	160	80	25 000	A+	67	141	6
7	13	75	E27	LED13/A67/865/100-240V/E27/F HBX 1/6	93020204	1150	6500	No	160	80	25 000	A+	67	141	6
6	16	100	B22	LED16/A67/827/100-240V/B22/F HBX1/6	-*	1521	2700	No	160	80	15 000	A+	67	139	6
7	16	100	E27	LED16/A67/827/100-240V/E27/F HBX1/6	-*	1521	2700	No	160	80	15 000	A+	67	141	6
7	16	100	E27	LED16/A67/865/100-240V/E27/F HBX1/6	93020296	1521	6500	No	160	80	25 000	A+	67	141	6

\* Please contact your local account manager.

### Product Description - explanation

For further information check the glossary



1 2 3 4 5 6 7

# LED Retrofit Solutions / LED Lamps

Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Dimming Capability	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty	Model
<b>Energy Smart™ - GLS OMNI</b>															
7	40	B22	LED 7D/GLS OMNI/827/220-240V/B22 HBX	93010268	470	2700	Yes	240	80	25 000	A+	60	108	6	8
7	40	E27	LED 7D/GLS OMNI/827/220-240V/E27 HBX	93010067	470	2700	Yes	240	80	25 000	A+	60	109	6	9
11	60	B22	LED11D/GLS OMNI/827/220-240V/B22 HBX	93010312	810	2700	Yes	240	80	25 000	A+	60	108	6	8
11	60	E27	LED11D/GLS OMNI/827/220-240V/E27 HBX	93010267	810	2700	Yes	240	80	25 000	A+	60	109	6	9
14	75	B22	LED14D/GLS OMNI/827/220-240V/B22 HBX	96548	1 100	2700	Yes	240	80	25 000	A+	67	133	6	10
14	75	E27	LED14D/GLS OMNI/827/220-240V/E27 HBX	96547	1 100	2700	Yes	240	80	25 000	A+	67	134	6	11
<b>Start - DECO Candle</b>															
3.5	25	E14	LED3.5/B35/827/E14/100-240V/FR 1/10	93012862	250	2700	No	—	80	15 000	A+	35	104	10	12
<b>Start - DECO Spherical</b>															
3.5	25	E14	LED3.5/P45/827/E14/100-240V/FR 1/6	93012863	250	2700	No	—	80	15 000	A+	45	85	6	13
3.5	25	E27	LED3.5/P45/827/E27/100-240V/FR 1/6	93012864	250	2700	No	—	80	15 000	A+	45	78	6	13
<b>Energy Smart™ - CROWN DECO Candle</b>															
4	25	B22	LED4D/P45/827/B22/220-240V/FR 1/6	93030255	270	2700	Yes	240	80	20 000	A+	42	76	10	14
4	25	E14	LED4D/P45/827/E14/220-240V/CLS 1/6	93030256	270	2700	Yes	160	80	20 000	A+	42	76	10	14
4	25	E14	LED4D/P45/827/E14/220-240V/FR 1/6	93030257	270	2700	Yes	240	80	20 000	A+	42	76	10	14
4	25	E27	LED4D/P45/827/E27/220-240V/CLS 1/6	93030258	270	2700	Yes	160	80	20 000	A+	42	76	10	14
4	25	E27	LED4D/P45/827/E27/220-240V/FR 1/6	93030259	270	2700	Yes	240	80	20 000	A+	42	76	10	14
6	40	E14	LED6D/P45/827/E14/220-240V/CLS 1/6	93030263	470	2700	Yes	160	80	20 000	A+	45	90	10	14
6	40	E14	LED6D/P45/827/E14/220-240V/FR 1/6	93030264	470	2700	Yes	240	80	20 000	A+	45	90	10	14
6	40	E27	LED6D/P45/827/E27/220-240V/CLS 1/6	93030265	470	2700	Yes	160	80	20 000	A+	45	90	10	14
6	40	E27	LED6D/P45/827/E27/220-240V/FR 1/6	93030266	470	2700	Yes	240	80	20 000	A+	45	90	10	14
6	40	E14	LED6D/B38/827/E14/220-240V/FR 1/10	93030252	470	2700	Yes	240	80	20 000	A+	38	112	10	14
6	40	E27	LED6D/B38/827/E27/220-240V/CLS 1/10	93030253	470	2700	Yes	160	80	20 000	A+	38	112	10	14
6	40	E27	LED6D/B38/827/E27/220-240V/FR 1/10	93030254	470	2700	Yes	240	80	20 000	A+	38	112	10	14
<b>Energy Smart™ - CROWN DECO Spherical</b>															
4	25	B22	LED4D/P45/827/B22/220-240V/FR 1/6	93030255	270	2700	Yes	240	80	20 000	A+	42	76	10	15
4	25	E14	LED4D/P45/827/E14/220-240V/CLS 1/6	93030256	270	2700	Yes	160	80	20 000	A+	42	76	10	15
4	25	E14	LED4D/P45/827/E14/220-240V/FR 1/6	93030257	270	2700	Yes	240	80	20 000	A+	42	76	10	15
4	25	E27	LED4D/P45/827/E27/220-240V/CLS 1/6	93030258	270	2700	Yes	160	80	20 000	A+	42	76	10	15
4	25	E27	LED4D/P45/827/E27/220-240V/FR 1/6	93030259	270	2700	Yes	240	80	20 000	A+	42	76	10	15
6	40	E14	LED6D/P45/827/E14/220-240V/CLS 1/6	93030263	470	2700	Yes	160	80	20 000	A+	45	90	10	15
6	40	E14	LED6D/P45/827/E14/220-240V/FR 1/6	93030264	470	2700	Yes	240	80	20 000	A+	45	90	10	15
6	40	E27	LED6D/P45/827/E27/220-240V/CLS 1/6	93030265	470	2700	Yes	160	80	20 000	A+	45	90	10	15
6	40	E27	LED6D/P45/827/E27/220-240V/FR 1/6	93030266	470	2700	Yes	240	80	20 000	A+	45	90	10	15



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## LED Retrofit Solutions / LED Lamps

Model	Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Nominal lumens	CCT (K)	Dimming Capability	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty
<b>Energy Smart™ - CAPSULE G4/G9</b>															
1	1.6	15	G4	LED1.6/G4/827/12V/BL 1/10	93019426	150	2700	No	240	80	15 000	A++	14	38	10
2	2.5	20	G9	LED2.5/G9/827/220-240V/BL 1/10	93019427	200	2700	No	240	80	15 000	A++	18	52	10
<b>Energy Smart™ - PYGMY</b>															
3	1.6	15	E14	LED1.6/T25/827/100-240V/E14/F	93022938	140	2700	No	—	80	15 000	A++	25	59	10
3	1.6	15	E14	LED1.6/T25/865/100-240V/E14/F	93022937	150	6500	No	—	80	15 000	A++	25	59	200
<b>Start - GU10 &amp; E14</b>															
4	3	40	E14	LED3/R50/827//E14/100-240V/35/BX1/8	84609	230	2700	No	35	80	15 000	A++	50	76	8
5	3	35	GU10	LED3/GU10/827/100-240V/35/BX 1/8	93031285	230	2700	No	35	80	12 000	A++	50	54	8
5	3	35	GU10	LED3/GU10/827/100-240V/35/TWBX	93034626	230	2700	No	35	80	12 000	A++	50	54	12
5	3	35	GU10	LED3/GU10/830/100-240V/35/BX 1/8	93031289	240	3000	No	35	80	12 000	A++	50	54	8
5	3	35	GU10	LED3/GU10/840/100-240V/35/BX 1/8	93031288	250	4000	No	35	80	12 000	A++	50	54	8
5	4.5	50	GU10	LED4.5/GU10/827/100-240V/35/BX 1/8	93031287	345	2700	No	35	80	12 000	A+	50	54	8
5	4.5	50	GU10	LED4.5/GU10/830/100-240V/35/BX 1/8	93031290	360	3000	No	35	80	12 000	A+	50	54	8
5	4.5	50	GU10	LED4.5/GU10/840/100-240V/35/BX 1/8	93031411	365	4000	No	35	80	12 000	A++	50	54	8
5	3	35	GU10	LED3/GU10/827/100-240V/35/BL 1/8	93031284	230	2700	No	35	80	12 000	A++	50	54	8
5	4.5	50	GU10	LED4.5/GU10/827/100-240V/35/BL 1/8	93031286	345	2700	No	35	80	12 000	A++	50	54	8
<b>Energy Smart™ - GU10 &amp; E14/E27</b>															
6	3.5	35	GU10	LED3.5D/GU10G/827/220-240V/35/BX 1/8	84611*	240	2700	Yes	35	80	25 000	A+	50	54	8
6	3.5	35	GU10	LED3.5D/GU10G/830/220-240V/35/BX 1/8	84612*	250	3000	Yes	35	80	25 000	A+	50	54	8
6	3.5	35	GU10	LED3.5D/GU10G/840/220-240V/35/BX 1/8	84615*	260	4000	Yes	35	80	25 000	A+	50	54	8
7	3.5	40	E14	LED3.5D/R50G/827/E14/220-240V/35BX1/8	84618	240	2700	Yes	35	80	25 000	A+	50	76	8
8	3.5	40	E27	LED3.5D/P16G/827/E27/100-240V/35BX1/8 ES	93010611	240	2700	Yes	35	80	25 000	A+	50	76	8
6	5.5	50	GU10	LED5.5D/GU10G/827/220-240V/35/BX 1/8	84619	360	2700	Yes	35	80	25 000	A+	50	54	8
6	5.5	50	GU10	LED5.5D/GU10G/830/220-240V/35/BX 1/8	84620	370	3000	Yes	35	80	25 000	A+	50	54	8
6	5.5	50	GU10	LED5.5D/GU10G/840/220-240V/35/BX 1/8	84622	400	4000	Yes	35	80	25 000	A+	50	54	8
6	3.5	35	GU10	LED3.5D/GU10G/827/220-240V/35/BL 1/8	84617*	240	2700	Yes	35	80	25 000	A+	50	54	8
6	5.5	50	GU10	LED5.5D/GU10G/827/220-240V/35/BL 1/8	84623	360	2700	Yes	35	80	25 000	A+	50	54	8

\* Will be discontinued from Q4 2016

## Precise™ - GU10

6	6	50	GU10	LED6D/GU10G/927/220-240V/FL BX 1/10H PR	93025596	400	2700	Yes	25	90	50 000	A+	50.2	54	10
6	6	50	GU10	LED6D/GU10G/927/220-240V/WFL BX 1/10H PR	93025595	400	2700	Yes	35	90	50 000	A+	50.2	54	10
6	6	50	GU10	LED6D/GU10G/930/220-240V/FL BX 1/10H PR	93025594	420	3000	Yes	25	90	50 000	A+	50.2	54	10
6	6	50	GU10	LED6D/GU10G/930/220-240V/WFL BX 1/10H PR	93025546	420	3000	Yes	35	90	50 000	A+	50.2	54	10
6	6	50	GU10	LED6D/GU10G/940/220-240V/FL BX 1/10H PR	93025545	440	4000	Yes	25	90	50 000	A+	50.2	54	10
6	6	50	GU10	LED6D/GU10G/940/220-240V/WFL BX 1/10H PR	93025544	440	4000	Yes	35	90	50 000	A+	50.2	54	10



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## LED Retrofit Solutions / LED Lamps

Wattage (W)	Watt Replacement	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Dimming Capability	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	Energy efficiency class (IEC)	Diameter (mm)	Length (mm)	Pack Qty	Model
<b>Energy Smart™ - MR16</b>															
5.5	35	MR16	LED5.5/MR16/827/12V/GU5.3/WFL BX 1/8	93018421	380	2700	No	35	80	25 000	A+	50	47.5	8	9
5.5	35	MR16	LED5.5/MR16/830/12V/GU5.3/WFL BX 1/8	93018422	400	3000	No	35	80	25 000	A+	50	47.5	8	9
5.5	35	MR16	LED5.5/MR16/840/12V/GU5.3/WFL BX 1/8	93018423	430	4000	No	35	80	25 000	A+	50	47.5	8	9
7	50	MR16	LED7/MR16/827/12V/GU5.3/WFL BX 1/8	93018424	500	2700	No	35	80	25 000	A+	50	47.5	8	10
7	50	MR16	LED7/MR16/830/12V/GU5.3/WFL BX 1/8	93018425	510	3000	No	35	80	25 000	A+	50	47.5	8	10
7	50	MR16	LED7/MR16/840/12V/GU5.3/WFL BX 1/8	93018426	550	4000	No	35	80	25 000	A+	50	47.5	8	10
<b>Precise™ - MR16</b>															
7	35	MR16	LED7D/MR16GD/827/12V/25 BX1/8	84635*	370	2700	Yes	25	80	45 000	A	50	51	8	11
7	35	MR16	LED7D/MR16GD/827/12V/35 BX1/8	84639*	370	2700	Yes	35	80	45 000	A	50	51	8	11
7	35	MR16	LED7D/MR16GD/830/12V/25 BX1/8	84640*	390	3000	Yes	25	82	45 000	A	50	51	8	11
7	35	MR16	LED7D/MR16GD/830/12V/35 BX1/8	84645*	390	3000	Yes	35	82	45 000	A	50	51	8	11
7	35	MR16	LED7D/MR16GD/840/12V/25 BX1/8	84647*	430	4000	Yes	25	83	45 000	A	50	51	8	11
7	35	MR16	LED7D/MR16GD/840/12V/35 BX1/8	84651*	430	4000	Yes	35	83	45 000	A	50	51	8	11
7	50	MR16	LED7XD/MR16DG/827/12V/25 BX 1/8	93029635	470	2700	Yes	25	80	45 000	A+	50	51.2	8	11
7	50	MR16	LED7XD/MR16DG/827/12V/35 BX 1/8	93021373	500	2700	Yes	35	80	45 000	A+	50	51.2	8	11
7	50	MR16	LED7XD/MR16DG/830/12V/25 BX1/8	93031283	490	3000	Yes	25	80	45 000	A+	50	51.2	8	11
7	50	MR16	LED7XD/MR16DG/830/12V/35 BX 1/8	93021372	530	3000	Yes	35	80	45 000	A+	50	51.2	8	11
7	50	MR16	LED7XD/MR16DG/840/12V/35 BX 1/8	93021371	570	4000	Yes	35	80	45 000	A+	50	51.2	8	11

\* Will be discontinued from Q4 2016

## Precise™ - PAR20/30

7	60	E27	LED7D/R63G/927/220-240V/35/E27 BX 1/6	93011164	380	2700	Yes	35	90	40 000	A	63	93	6	12
7	60	E27	LED7D/R63G/930/220-240V/35/E27 BX 1/6	93011165	420	3000	Yes	35	90	40 000	A	63	93	6	12
12	75	E27	LED12D/P30SG/927/220-240V/35/E27BX1/6	93011166	720	2700	Yes	35	90	40 000	A	93	97	6	13
12	75	E27	LED12D/P30SG/930/220-240V/35/E27BX1/6	93011167	740	3000	Yes	35	90	40 000	A	93	97	6	13

## Energy Smart™ - PAR38

18	140	E27	LED18/P38/827/90-240V/25/E27 BX 1/6	13387*	1200	2700	No	25	84	40 000	A+	123	132	6	14
15	140	E27	LED15/PAR38G/830/90-240/E27/WFL BX 1/6	93013421	1200	2700	No	40	81	25 000	A+	122	131	6	14

\* Will be discontinued from Q4 2016

## Energy Smart™ - R111

12	75	G53	LED12/R111/827/12V/G53/35 BX 1/10	11540	700	2700	No	35	80	30 000	A	111	59	10	15
12	75	G53	LED12/R111/830/12V/G53/35 BX 1/10	11543	730	3000	No	35	80	30 000	A	111	59	10	15
12	75	G53	LED12D/R111G/827/12V/G53/35 BX 1/10	93012778	720	2700	Yes	35	80	25 000	A	111	57	10	16
12	75	G53	LED12D/R111G/830/12V/G53/35 BX 1/10	93012777	720	3000	Yes	35	80	25 000	A	111	57	10	16
15	100	G53	LED15D/R111G/827/12V/G53/35 BX 1/10	93012749	900	2700	Yes	35	80	25 000	A	111	57	10	16
15	100	G53	LED15D/R111G/830/12V/G53/35 BX 1/10	93012750	900	3000	Yes	35	80	25 000	A	111	57	10	16



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# LED Retrofit Solutions / LED Tubes



Model	Wattage (W)	Length (mm)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>LED T8 Premium Universal</b>															
1	18	1200	100-277	G13	LED 18/T8 PPU 4ft/830	93011778	1944	3000	135	80<	40 000	28	18	A+	10
1	18	1200	100-277	G13	LED 18/T8 PPU 4ft/840	93011780	2160	4000	135	80<	40 000	28	18	A+	10
1	18	1200	100-277	G13	LED 18/T8 PPU 4ft/865	93011779	2160	6500	135	80<	40 000	28	18	A+	10
<b>LED T8 Basic</b>															
2	8	600	100-240	G13	LED 8/T8 BP 2ft/830	93011198	700	3000	150	80<	40 000	28	8	A+	15
2	8	600	100-240	G13	LED 8/T8 BP 2ft/840	93011195	800	4000	150	80<	40 000	28	8	A+	15
2	8	600	100-240	G13	LED 8/T8 BP 2ft/865	93011196	800	6500	150	80<	40 000	28	8	A+	15
2	10	600	100-240	G13	LED 10/T8 BP 2ft/830	93011296	950	3000	150	80<	40 000	28	10	A+	15
2	10	600	100-240	G13	LED 10/T8 BP 2ft/840	93011197	1050	4000	150	80<	40 000	28	10	A+	15
2	10	600	100-240	G13	LED 10/T8 BP 2ft/865	93011305	1050	6500	150	80<	40 000	28	10	A+	15
2	16	1200	100-240	G13	LED 16/T8 BP 4ft/830	93011304	1450	3000	150	80<	40 000	28	16	A+	15
2	16	1200	100-240	G13	LED 16/T8 BP 4ft/840	93011303	1600	4000	150	80<	40 000	28	16	A+	15
2	16	1200	100-240	G13	LED 16/T8 BP 4ft/865	93011302	1600	6500	150	80<	40 000	28	16	A+	15
2	20	1200	100-240	G13	LED 20/T8 BP 4ft/830	93011301	1850	3000	150	80<	40 000	28	20	A+	15
2	20	1200	100-240	G13	LED 20/T8 BP 4ft/840	93011200	2050	4000	150	80<	40 000	28	20	A+	15
2	20	1200	100-240	G13	LED 20/T8 BP 4ft/865	93011199	2050	6500	150	80<	40 000	28	20	A+	15
2	27	1500	100-240	G13	LED 27/T8 BP 5ft/830*	93011309	3000	3000	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13	LED 27/T8 BP 5ft/840*	93011310	3000	4000	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13	LED 27/T8 BP 5ft/865*	93011311	3000	6500	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13 Rot	LED 27/T8 BPR 5ft/830	93011312	3000	3000	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13 Rot	LED 27/T8 BPR 5ft/840	93011313	3000	4000	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13 Rot	LED 27/T8 BPR 5ft/865	93011314	3000	6500	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13	LED 27/T8 VP 5ft/830*	93011306	2500	3000	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13	LED 27/T8 VP 5ft/840*	93011307	2700	4000	140	80<	40 000	28	27	A+	15
2	27	1500	100-240	G13	LED 27/T8 VP 5ft/865*	93011308	2700	6500	140	80<	40 000	28	27	A+	15

\* Will be delisted



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# LED Retrofit Solutions / LED Tubes

Wattage (W)	Length (mm)	Volts (V)	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Model
<b>LED T8 Glass</b>															
8	600	100-240	G13	LED 8/T8 VG 2ft/830	93013212	700	3000	200	80<	40 000	28	8	A+	15	3
8	600	100-240	G13	LED 8/T8 VG 2ft/840	93013213	800	4000	200	80<	40 000	28	8	A+	15	3
8	600	100-240	G13	LED 8/T8 VG 2ft/865	93013214	800	6500	200	80<	40 000	28	8	A+	15	3
10	600	100-240	G13	LED 10/T8 VG 2ft/830	93013215	950	3000	200	80<	40 000	28	10	A+	15	3
10	600	100-240	G13	LED 10/T8 VG 2ft/840	93013220	1050	4000	200	80<	40 000	28	10	A+	15	3
10	600	100-240	G13	LED 10/T8 VG 2ft/865	93013221	1050	6500	200	80<	40 000	28	10	A+	15	3
14.5	1200	100-240	G13	LED 14.5/T8 VG 4ft/830	93013231	1450	3000	200	80<	40 000	28	14.5	A+	15	3
14.5	1200	100-240	G13	LED 14.5/T8 VG 4ft/840	93013232	1650	4000	200	80<	40 000	28	14.5	A+	15	3
14.5	1200	100-240	G13	LED 14.5/T8 VG 4ft/865	93013233	1650	6500	200	80<	40 000	28	14.5	A+	15	3
18	1200	100-240	G13	LED 18/T8 VG 4ft/830	93013139	1850	3000	200	80<	40 000	28	18	A+	15	3
18	1200	100-240	G13	LED 18/T8 VG 4ft/840	93013222	2050	4000	200	80<	40 000	28	18	A+	15	3
18	1200	100-240	G13	LED 18/T8 VG 4ft/865	93013140	2050	6500	200	80<	40 000	28	18	A+	15	3
18	1500	100-240	G13	LED 18/T8 VG 5ft/830	93013354	1850	3000	200	80<	40 000	28	18	A+	10	3
18	1500	100-240	G13	LED 18/T8 VG 5ft/840	93013355	2050	4000	200	80<	40 000	28	18	A+	10	3
18	1500	100-240	G13	LED 18/T8 VG 5ft/865	93013356	2050	6500	200	80<	40 000	28	18	A+	10	3
27	1500	100-240	G13	LED 27/T8 VG 5ft/830	93013234	2500	3000	200	80<	40 000	28	27	A+	10	3
27	1500	100-240	G13	LED 27/T8 VG 5ft/840	93013235	2700	4000	200	80<	40 000	28	27	A+	10	3
27	1500	100-240	G13	LED 27/T8 VG 5ft/865	93013236	2700	6500	200	80<	40 000	28	27	A+	10	3
<b>LED T8 Glass Rotatable</b>															
8	600	100-240	G13 Rot	LED 8/T8 VGR 2ft/830	93022320	700	3000	200	80<	40 000	28	8	A+	15	4
8	600	100-240	G13 Rot	LED 8/T8 VGR 2ft/840	93022319	800	4000	200	80<	40 000	28	8	A+	15	4
8	600	100-240	G13 Rot	LED 8/T8 VGR 2ft/865	93022327	800	6500	200	80<	40 000	28	8	A+	15	4
10	600	100-240	G13 Rot	LED 10/T8 VGR 2ft/830	93022322	950	3000	200	80<	40 000	28	10	A+	15	4
10	600	100-240	G13 Rot	LED 10/T8 VGR 2ft/840	93022323	1050	4000	200	80<	40 000	28	10	A+	15	4
10	600	100-240	G13 Rot	LED 10/T8 VGR 2ft/865	93022321	1050	6500	200	80<	40 000	28	10	A+	15	4
14.5	1200	100-240	G13 Rot	LED 14.5/T8 VGR 4ft/830	93022312	1450	3000	200	80<	40 000	28	14.5	A+	15	4
14.5	1200	100-240	G13 Rot	LED 14.5/T8 VGR 4ft/840	93022315	1650	4000	200	80<	40 000	28	14.5	A+	15	4
14.5	1200	100-240	G13 Rot	LED 14.5/T8 VGR 4ft/865	93022313	1650	6500	200	80<	40 000	28	14.5	A+	15	4
18	1200	100-240	G13 Rot	LED 18/T8 VGR 4ft/830	93022316	1850	3000	200	80<	40 000	28	18	A+	15	4
18	1200	100-240	G13 Rot	LED 18/T8 VGR 4ft/840	93022317	2050	4000	200	80<	40 000	28	18	A+	15	4
18	1200	100-240	G13 Rot	LED 18/T8 VGR 4ft/865	93022318	2050	6500	200	80<	40 000	28	18	A+	15	4
27	1500	100-240	G13 Rot	LED 27/T8 VGR 5ft/830	93022324	3000	3000	200	80<	40 000	28	27	A+	10	4
27	1500	100-240	G13 Rot	LED 27/T8 VGR 5ft/840	93022326	3000	4000	200	80<	40 000	28	27	A+	10	4
27	1500	100-240	G13 Rot	LED 27/T8 VGR 5ft/865	93022325	3000	6500	200	80<	40 000	28	27	A+	10	4

# LED Retrofit Solutions / LED Plug-in



Model	Wattage (W)	Burning Position	Cap	Product Description	Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Length (mm)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
<b>LED 4 Pin Plug-in *</b>															
1	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/827 GE BX1/6	93019485	1 250	2700	100 x 75	80<	50 000	132	35	12.5	A+	6
1	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/830 GE BX1/6	93019486	1 290	3000	100 x 75	80<	50 000	132	35	12.5	A+	6
1	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/840 GE BX1/6	93019487	1 300	4000	100 x 75	80<	50 000	132	35	12.5	A+	6
1	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/865 GE BX1/6	93019488	1 350	6500	100 x 75	80<	50 000	132	35	12.5	A+	6
2	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/827 GE BX1/6	93024415	1 250	2700	87	80<	50 000	144	94	12.5	A+	6
2	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/830 GE BX1/6	93024294	1 290	3000	87	80<	50 000	144	94	12.5	A+	6
2	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/840 GE BX1/6	93024110	1 300	4000	87	80<	50 000	144	94	12.5	A+	6
2	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/865 GE BX1/6	93024109	1 350	6500	87	80<	50 000	144	94	12.5	A+	6

\* Lamp can't be operated directly from Mains voltage, an electronic ballast is needed.

Visit this website for list of ballasts tested and approved for compatibility: [www.gelighting.com/LEDPlugIn-compatibility](http://www.gelighting.com/LEDPlugIn-compatibility)



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