

LED Indoor

Product catalogue

2018



TRUNGSRAM™



European Producer
Lighting Solutions



Joerg Bauer
President & Chief Executive Officer

Dear Partner,

Welcome to Tungsram and a bright future for our respective businesses.

With a history that stretches back to 1896, the Tungsram name has always been highly respected. This heritage has now entered an exciting new phase following our acquisition of GE Lighting's Europe, Middle East, Africa and Turkey operation, together with GE's Global Automotive Lighting business.

So what does this mean for you, our valued partners? I firmly believe that the revival of the Tungsram brand represents a major opportunity for all of us, a chance to move forward with confidence and increase our share of national and international markets.

We will of course continue to offer a comprehensive range of market-leading lighting solutions, from traditional technologies such as HID, LFL, CFL, Halogen and Specialty lamps, to ultra-efficient, high performance indoor and outdoor LED solutions. Our renowned automotive lighting ranges include basic and premium lamps for original equipment and aftermarket, and we supply products for all major auto brands.

Our new company will drive forward the design and development of all kinds of light sources, from traditional technologies to state-of-the-art LED products, and will secure our position as a global force in lighting solutions.

In addition, we will work towards ever more efficient and advanced solutions in areas such as human centric light, energy optimisation and system intelligence.

Tungsram was the most innovative Hungarian industrial company of the last century and, by applying this attitude to a 21st century business, we will deliver the solutions, products and services that your customers are looking for.

These are exciting times for Tungsram. We are committed to enhancing the support we offer our partners – following the principle of “What can we do for your success?” – and we look forward to continuing our journey together.

Thank you.
Joerg

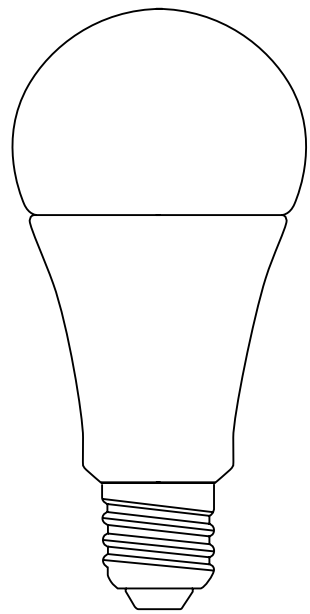
Contents

4	Introduction
7	LED Retrofit Solutions
8	LED Lamps
28	LED Tubes
30	LED Plug-in
35	LED Indoor Solutions
35	Fundamental Fixtures
57	LED Drivers



Introduction

Serving the lighting industry through innovation and tradition



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

LED – the next generation of indoor lighting solutions

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

As you will see on the following pages, we are able to offer LED lamps for every need and every application, from a comprehensive range of Retrofit LED products to our LED Fundamental Fixtures.

The arrival of today's advanced LED lighting technologies and associated control systems is delivering the twin benefits of dramatically improved lighting and a significant reduction in energy consumption.

The vastly superior energy efficiency of LED lamps compared with traditional technologies brings immediate and permanent costs savings of as much as 90%, and a similar reduction in carbon footprint. The superior performance also means fewer luminaires are required. And a high degree of reliability means a longer life and lower maintenance requirements.

Reducing costs, enhancing quality of life

This reduction in operational costs and energy consumption has been the most immediate benefit of LED technology but its impact goes even deeper than this. The arrival of high quality LED lighting is having a profound impact on society as a whole, making offices more productive and even extending the shelf life of fresh products.

These are just some of the ways in which LED technology is impacting on everyday life:

- Fewer road accidents
- Reduced light pollution
- More effective retail merchandising
- Higher quality working environments
- Enhanced architectural features
- More welcoming public spaces



LED Retrofit Solutions



Start



ECO Snowcone
Cap: E27, B22
Wattage: 5W, 7W, 11W, 16W
Voltage: 220 – 240V
Rated life: 10 000 h



Energy Smart™ Omni Dimmable
Cap: E27, B22
Wattage: 7W, 9W, 12W, 15W
Voltage: 220 – 240V
Rated life: 15 000 h



Bright Stik™ and E14
Cap: E27, B22, E14
Wattage: 6W, 7W, 9W, 12W, 15W
Voltage: 220 – 240V
Rated life: 10 000 h (E14) and 15 000 h (E27, B22)



LED Glass
Cap: E27, B22
Wattage: 4.5W, 8W, 10W, 13W
Voltage: 220 – 240V
Rated life: 10 000 h

LED GLS

Start



Start Deco Candle
Cap: E14, E27, B22
Wattage: 3.5W, 5.5W
Voltage: 220 – 240V
Finish: White
Rated life: 10 000 h



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

LED Candle

Start



Start Deco Spherical
Cap: E14, E27, B22
Wattage: 3.5W, 5.5W
Voltage: 220 – 240V
Finish: White
Rated life: 10 000 h



Energy Smart™ Crown Deco Dimmable
Cap: E14, E27
Wattage: 6W, 4W
Voltage: 220 – 240V
Rated life: 20 000 h



Energy Smart™ Crown Deco Dimmable
Cap: E14, E27, B22
Wattage: 6W, 4W
Voltage: 220 – 240V
Rated life: 20 000 h

LED Spherical and Globe

LED Filament

Dimmable



Candle Clear
Cap: E14, B22
Wattage: 3.5W
Voltage: 220 – 240V
Rated life: 15 000 h



Candle Gold
Cap: E14, B22
Wattage: 3.5W
Voltage: 220 – 240V
Rated life: 15 000 h



Pear Clear
Cap: E27, B22
Wattage: 5.5W
Voltage: 220 – 240V
Rated life: 15 000 h



Pear Gold
Cap: E27, B22
Wattage: 5.5W
Voltage: 220 – 240V
Rated life: 15 000 h



Globe 80
Cap: E27, B22
Wattage: 5.5W
Voltage: 220 – 240V
Rated life: 15 000 h



Globe 95
Cap: E27, B22
Wattage: 5.5W
Voltage: 220 – 240V
Rated life: 15 000 h



GLS 160
Cap: E27, B22
Wattage: 6W
Voltage: 220 – 240V
Rated life: 15 000 h



Globe 200
Cap: E27, B22
Wattage: 6W
Voltage: 220 – 240V
Rated life: 15 000 h

LED Filament Heliax

Non-Dimmable



Filament GLS
Cap: E27
Wattage: 4W, 5W, 6.5W
Voltage: 220 – 240V
Rated life: 10 000 h



Filament Globe
Cap: E27
Wattage: 4W, 5W, 6.5W
Voltage: 220 – 240V
Rated life: 10 000 h



Filament Spherical
Cap: E27, B22, E14
Wattage: 2.5 – 4W
Voltage: 220 – 240V
Rated life: 10 000 h



Filament Candle
Cap: E27, B22, E14
Wattage: 2.5 – 4W
Voltage: 220 – 240V
Rated life: 10 000 h

LED Filament

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: 12V
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

Simplifying the step-up to LED technology

The arrival of LED has transformed the lighting industry, bringing a whole host of qualities, benefits and specifications that would have been unimaginable just a few years ago.

That LED will replace many if not most traditional technologies over the coming years is now beyond doubt. The question is no longer 'if' but 'when'.

In developing our 2018 portfolio of LED Retrofit Solutions, our goal has been to make this upgrade path as smooth, simple and hassle-free as possible, enabling all sectors – home, retail, office, industry, hospitality and more – to take immediate advantage of this game-changing lighting technology.

It has never been easier to step up to LED. Our comprehensive range of LED Retrofit Lamps opens the door to the wealth of benefits offered by this technology – outstanding performance, long life and energy savings of as much as 90% – without having to invest in new fittings.

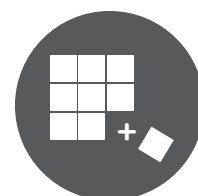
- Easy installation
- Energy savings up to 90% vs. traditional technologies
- Long life – up to 50 000 hours
- Low maintenance/replacement costs
- Future proof modular options
- Instant light, no warm-up time



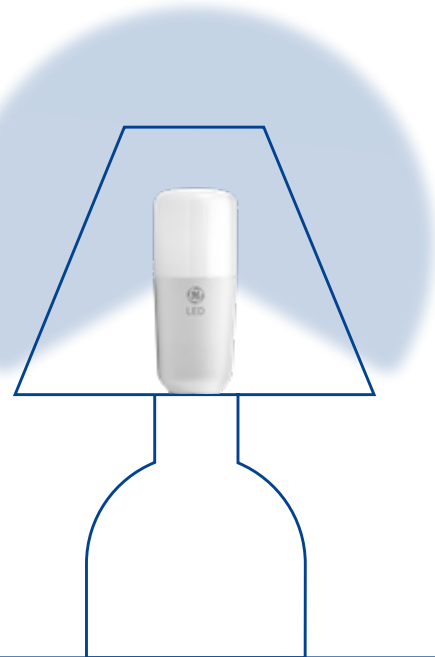
EASY INSTALLATION



LONG LIFE – UP TO 50 000 HOURS



FUTURE PROOF MODULAR OPTIONS



LED Retrofit Solutions for every need and application

We have designed our LED Retrofit Solutions range to make selecting the right product as easy and intuitive as possible. With products suitable for every need and application, every sector and specification, you can rely on the Lighting having precisely the right product for your particular requirement

CCT

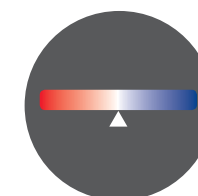
CCT describes how warm or cold a light feels. This is extremely important in lighting design as it plays a major role in creating ambiance and attracting sales. Whatever mood you're looking to achieve, we can help you deliver it.

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 wide beams required for general illumination to narrow spotlights for feature lighting to accentuate a particular product or area, the breadth of our ranges means we can meet any requirement.



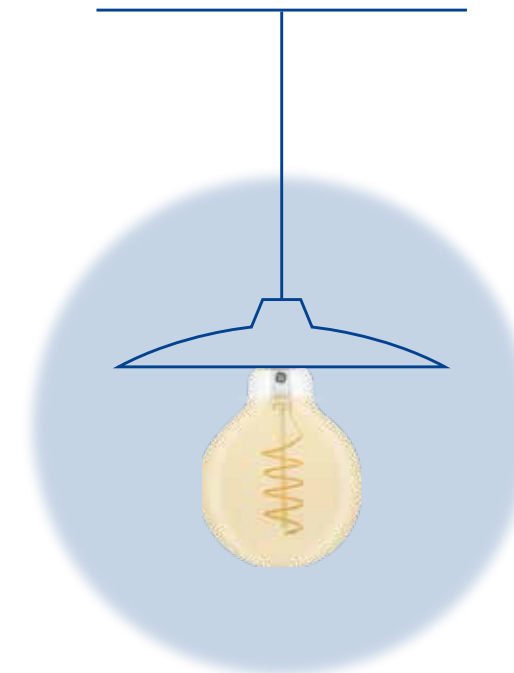
CCT



COLOUR RENDERING INDEX



BEAM ANGLE



LED Retrofit Solutions / LED Lamps

Model	Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty
Bright Stik™															
Single pack															
2	6	40	B22	LED 6/STIK/830/220-240V/B22/BX	93064017	-	470	3000	240	80	15k	A+	38	113.5	15
1	6	40	E27	LED 6/STIK/830/220-240V/E27/BX	93064014	93064050	470	3000	240	80	15k	A+	38	115.5	15
1	6	42	E27	LED 6/STIK/840/220-240V/E27/BX	93064015	-	500	4000	240	80	15k	A+	38	115.5	15
2	6	42	B22	LED 6/STIK/865/220-240V/B22/BX	93064018	-	500	6500	240	80	15k	A+	38	113.5	15
1	6	44	E27	LED 6/STIK/865/220-240V/E27/BX	93064016	93064051	500	6500	240	80	15k	A+	38	115.5	15
2	9	60	B22	LED 9/STIK/830/220-240V/B22/BX	93064022	-	810	3000	240	80	15k	A+	38	113.5	15
1	9	60	E27	LED 9/STIK/830/220-240V/E27/BX	93064019	93064052	810	3000	240	80	15k	A+	38	115.5	15
1	9	63	E27	LED 9/STIK/840/220-240V/E27/BX	93064020	-	850	4000	240	80	15k	A+	38	115.5	15
2	9	63	B22	LED 9/STIK/865/220-240V/B22/BX	93064023	-	850	6500	240	80	15k	A+	38	113.5	15
1	9	63	E27	LED 9/STIK/865/220-240V/E27/BX	93064021	93064053	850	6500	240	80	15k	A+	38	115.5	15
2	12	75	B22	LED12/STIK/830/220-240V/B22/BX	93064027	-	1055	3000	240	80	15k	A+	45	135.5	15
1	12	75	E27	LED12/STIK/830/220-240V/E27/BX	93064024	93064054	1055	3000	240	80	15k	A+	45	137.5	15
1	12	80	E27	LED12/STIK/840/220-240V/E27/BX	93064025	-	1150	4000	240	80	15k	A+	45	137.5	15
2	12	80	B22	LED12/STIK/865/220-240V/B22/BX	93064028	-	1150	6500	240	80	15k	A+	45	135.5	15
1	12	80	E27	LED12/STIK/865/220-240V/E27/BX	93064026	93064055	1150	6500	240	80	15k	A+	45	137.5	15
2	15	100	B22	LED15/STIK/830/220-240V/B22/BX	93064032	-	1521	3000	240	80	15k	A+	45	135.5	15
1	15	100	E27	LED15/STIK/830/220-240V/E27/BX	93064029	93064056	1521	3000	240	80	15k	A+	45	137.5	15
1	15	104	E27	LED15/STIK/840/220-240V/E27/BX	93064030	-	1600	4000	240	80	15k	A+	45	137.5	15
2	15	104	B22	LED15/STIK/865/220-240V/B22/BX	93064033	-	1600	6500	240	80	15k	A+	45	135.5	15
1	15	104	E27	LED15/STIK/865/220-240V/E27/BX	93064031	93064057	1600	6500	240	80	15k	A+	45	137.5	15
Multi pack															
1	6	40	E27	LED 6/STIK/830/220-240V/E27/F 3/15	93079654	-	470	3000	240	80	15k	A+	38	115.5	15
2	6	42	E27	LED 6/STIK/840/220-240V/E27/F 3/15	93079655	-	500	4000	240	80	15k	A+	38	115.5	15
1	6	44	E27	LED 6/STIK/865/220-240V/E27/F 3/15	93080246	-	500	6500	240	80	15k	A+	38	115.5	15
2	9	60	B22	LED 9/STIK/830/220-240/B22/F 3/15	93068473	-	810	3000	240	80	15k	A+	38	113.5	15
2	9	60	E27	LED 9/STIK/840/220-240/E27/F 3/15	93068471	-	810	3000	240	80	15k	A+	38	115.5	15
1	9	63	E27	LED 9/STIK/830/220-240/E27/F 3/15	93068472	-	850	4000	240	80	15k	A+	38	115.5	15
1	9	60	E27	LED 9/STIK/865/220-240V/E27/F 3/15	93080247	-	850	6500	240	80	15k	A+	38	115.5	15
1	12	75	E27	LED12/STIK/830/220-240V/E27/F 2/10	93080248	-	1055	3000	240	80	15k	A+	45	137.5	10
2	12	80	E27	LED12/STIK/840/220-240V/E27/F 2/10	93080249	-	1150	4000	240	80	15k	A+	45	137.5	10
1	12	80	E27	LED12/STIK/865/220-240V/E27/F 2/10	93080250	-	1150	6500	240	80	15k	A+	45	137.5	10
1	15	100	E27	LED15/STIK/830/220-240V/E27/F 2/10	93080251	-	1521	3000	240	80	15k	A+	45	137.5	10
1	15	104	E27	LED15/STIK/840/220-240V/E27/F 2/10	93080252	-	1600	4000	240	80	15k	A+	45	137.5	10
2	15	104	E27	LED15/STIK/865/220-240V/E27/F 2/10	93080253	-	1600	6500	240	80	15k	A+	45	137.5	10

Bright Stik™ - E14

Single pack															
3	7	45	E14	LED 7/STIK/830/100-240/E14/F 1/15	93047729	93047284	550	3000	240	80	10k	A+	32	103	15
3	7	48	E14	LED 7/STIK/840/100-240/E14/F 1/15	93047727	-	600	4000	240	80	10k	A+	32	103	15
3	7	48	E14	LED 7/STIK/865/100-240/E14/F 1/15	93047728	93047283	600	6500	240	80	10k	A+	32	103	15
Multi pack															
3	7	45	E14	LED 7/STIK/830/100-240/E14/F 3/15	93047281	-	550	3000	240	80	10k	A+	32	103	15
3	7	48	E14	LED 7/STIK/840/100-240/E14/F 3/15	93047524	-	600	4000	240	80	10k	A+	32	103	15
3	7	48	E14	LED 7/STIK/865/100-240/E14/F 3/15	93048805	-	600	6500	240	80	10k	A+	32	103	15



Product Description - explanation

For further information check the glossary.

LED 7

Identifies Lamp wattage

A60

Identifies the lamp type

8

CRI

65

CCT

100-240V

Voltage

E27

Identifies the cap type

F

Identifies the finish of the lamp
F=FR=Frosted
C=CLS=Clear



1

2

3

LED Retrofit Solutions / LED Lamps

Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty	Model
Start - ECO Snowcone															
5	33	B22	LED 5/A60/830/220-240V/B22/BX ECO	93057915	-	350	3000	160	80	10k	A+	60	109	6	5
5	33	E27	LED 5/A60/830/220-240V/E27/BX ECO	93043186	-	350	3000	160	80	10k	A+	60	109	6	4
5	36	B22	LED 5/A60/865/220-240V/B22/BX ECO	93058236	-	400	6500	160	80	10k	A+	60	109	6	5
5	36	E27	LED 5/A60/865/220-240V/E27/BX ECO	93043191	-	400	6500	160	80	10k	A+	60	109	6	4
7	40	B22	LED 7/A60/827/220-240V/B22/BX ECO	93063991	-	470	2700	160	80	10k	A+	60	107	6	7
7	40	E27	LED 7/A60/827/220-240V/E27/BX ECO	93063990	93069747	470	2700	160	80	10k	A+	60	109	6	6
7	40	B22	LED 7/A60/865/220-240V/B22/BX ECO	93069732	-	500	6500	160	80	10k	A+	60	107	6	7
7	40	E27	LED 7/A60/865/220-240V/E27/BX ECO	93069731	93069750	500	6500	160	80	10k	A+	60	109	6	6
10	60	B22	LED10/A60/827/220-240V/B22/BX ECO	93063993	-	810	2700	160	80	10k	A+	60	107	6	7
10	60	E27	LED10/A60/827/220-240V/E27/BX ECO	93063992	93069748	810	2700	160	80	10k	A+	60	109	6	6
10	60	B22	LED10/A60/865/220-240V/B22/BX ECO	93069734	-	850	6500	160	80	10k	A+	60	107	6	7
10	60	E27	LED10/A60/865/220-240V/E27/BX ECO	93069733	93069751	850	6500	160	80	10k	A+	60	109	6	6
11	75	B22	LED11/A60/827/220-240V/B22/BX ECO	93063995	-	1055	2700	160	80	10k	A+	60	107	6	7
11	75	E27	LED11/A60/827/220-240V/E27/BX ECO	93063994	93064008	1055	2700	160	80	10k	A+	60	109	6	6
11	80	B22	LED11/A60/865/220-240V/B22/BX ECO	93063999	-	1150	6500	160	80	10k	A+	60	107	6	7
11	80	E27	LED11/A60/865/220-240V/E27/BX ECO	93063998	93064009	1150	6500	160	80	10k	A+	60	109	6	6
16	100	B22	LED16/A67/827/220-240V/B22/BX ECO	93064001	-	1521	2700	160	80	10k	A+	67	139	6	9
16	100	E27	LED16/A67/827/220-240V/E27/BX ECO	93064000	93064010	1521	2700	160	80	10k	A+	67	141	6	8
16	100	B22	LED16/A67/865/220-240V/B22/BX ECO	93069746	-	1600	6500	160	80	10k	A+	67	139	6	9
16	100	E27	LED16/A67/865/220-240V/E27/BX ECO	93069735	93069752	1600	6500	160	80	10k	A+	67	141	6	8
Energy Smart™ - GLS OMNI - Dimmable															
7	40	B22	LED ESmart A60 7W(40)Dim 827 B22	93064060	-	470	2700	240	80	15k	A+	58	108	6	11
7	40	E27	LED ESmart A60 7W(40)Dim 827 E27	93064061	-	470	2700	240	80	15k	A+	58	109	6	10
9	60	B22	LED ESmart A60 9W(60)Dim 827 B22	93064062	-	810	2700	240	80	15k	A+	58	108	6	11
9	60	E27	LED ESmart A60 9W(60)Dim 827 E27	93064063	-	810	2700	240	80	15k	A+	58	109	6	10
12	75	B22	LED ESmart A67 12W(75)Dim 827 B22	93064064	-	1055	2700	240	80	15k	A+	70	133	6	13
12	75	E27	LED ESmart A67 12W(75)Dim 827 E27	93064065	-	1055	2700	240	80	15k	A+	70	134	6	12
15	100	B22	LED ESmart A67 15W(100)Dim 827 B22	93064066	-	1521	2700	240	80	15k	A+	70	133	6	13
15	100	E27	LED ESmart A67 15W(100)Dim 827 E27	93064067	-	1521	2700	240	80	15k	A+	70	134	6	12





Model	Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty
LED Glass															
2	4.5	40	B22	LED Glass A60 4.5W(40) 827 B22	93074737	-	470	2700	360	80	10k	A++	60	106	6
1	4.5	40	E27	LED Glass A60 4.5W(40) 827 E27	93074732	93056633	470	2700	360	80	10k	A++	60	106	6
2	4.5	40	B22	LED Glass A60 4.5W(40) 840 B22	93074738	-	500	4000	360	80	10k	A++	60	106	6
1	4.5	40	E27	LED Glass A60 4.5W(40) 840 E27	93074733	-	500	4000	360	80	10k	A++	60	106	6
2	4.5	40	B22	LED Glass A60 4.5W(40) 865 B22	93074739	-	500	6500	360	80	10k	A++	60	106	6
1	4.5	40	E27	LED Glass A60 4.5W(40) 865 E27	93074734	-	500	6500	360	80	10k	A++	60	106	6
2	8	60	B22	LED Glass A60 8W(60) 827 B22	93074740	-	810	2700	360	80	10k	A+	60	106	6
1	8	60	E27	LED Glass A60 8W(60) 827 E27	93074735	93056632	810	2700	360	80	10k	A+	60	106	6
2	8	60	B22	LED Glass A60 8W(60) 840 B22	93074741	-	850	4000	360	80	10k	A+	60	106	6
1	8	60	E27	LED GLASS A60 8W(60) 840 E27	93059798	-	850	4000	360	80	10k	A+	60	106	6
2	8	60	B22	LED Glass A60 8W(60) 865 B22	93074742	-	850	6500	360	80	10k	A+	60	106	6
1	8	60	E27	LED Glass A60 8W(60) 865 E27	93074736	-	850	6500	360	80	10k	A+	60	106	6
3	10	75	E27	LED GLASS A67 10W(75) 827 E27 HBX	93081799 *	93090780 *	1 055	2700	360	80	10k	A+	67	135	6
3	10	75	E27	LED GLASS A67 10W(75) 840 E27 HBX	93081800 *	-	1 150	4000	360	80	10k	A+	67	135	6
3	10	75	E27	LED GLASS A67 10W(75) 865 E27 HBX	93081801 *	-	1 150	6500	360	80	10k	A+	67	135	6
3	13	100	E27	LED GLASS A67 13W(100) 827 E27 HBX	93081802 *	93090781 *	1 521	2700	360	80	10k	A+	67	135	6
3	13	100	E27	LED GLASS A67 13W(100) 840 E27 HBX	93081803 *	-	1 600	4000	360	80	10k	A+	67	135	6
3	13	100	E27	LED GLASS A67 13W(100) 865 E27 HBX	93081804 *	-	1 600	6500	360	80	10k	A+	67	135	6

* will be available from September 2018



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LED Retrofit Solutions / LED Lamps



Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty	Model
LED Filament - GLS A60 - Clear and Pearl															
4	40	E27	LED4/A60 FIL/827/220-240V/E27 H	93021980	-	420	2700	355	80	10k	A++	60	115	6	4
5	50	E27	LED5/A60 FIL/827/220-240V/E27 Clear	93046417	-	590	2700	355	80	10k	A++	60	115	6	4
6.5	57	E27	LED6.5/A60 FIL/827/220-240V/E27 Clear	93046421	-	760	2700	355	80	10k	A++	60	115	6	4
4	40	E27	LED4/A60 FIL/827/220-240V/E27 Pearl	93046416	-	460	2700	355	80	10k	A++	60	115	6	5
5	50	E27	LED5/A60 FIL/827/220-240V/E27 Pearl	93046420	-	590	2700	355	80	10k	A++	60	115	6	5
6.5	57	E27	LED6.5/A60 FIL/827/220-240V/E27 Pearl	93046419	-	760	2700	355	80	10k	A++	60	115	6	5
LED Filament - Globe G80 - Clear and Pearl															
4	40	E27	LED4/G80 FIL/827/220-240V/E27 Clear	93053090	-	460	2700	355	80	10k	A++	80	128	6	6
5	50	E27	LED5/G80 FIL/827/220-240V/E27 Clear	93053088	-	590	2700	355	80	10k	A++	80	128	6	6
6.5	57	E27	LED6.5/G80 FIL/827/220-240V/E27 Clear	93052991	93063485	760	2700	355	80	10k	A++	80	128	6	6
4	40	E27	LED4/G80 FIL/827/220-240V/E27 Pearl	93053089	-	460	2700	355	80	10k	A++	80	128	6	7
5	50	E27	LED5/G80 FIL/827/220-240V/E27 Pearl	93052992	-	590	2700	355	80	10k	A++	80	128	6	7
6.5	57	E27	LED6.5/G80 FIL/827/220-240V/E27 Pearl	93053091	-	760	2700	355	80	10k	A++	80	128	6	7
LED Filament - Candle															
2.5	25	B22	LED2.5/B35FIL/827/B22/220-240V/ 1/10	93051682	-	250	2700	355	80	10k	A++	35	90	10	8
2.5	25	E14	LED2.5/B35FIL/827/E14/220-240V/ 1/10	93051683	-	250	2700	355	80	10k	A++	35	98	10	8
2.5	25	E27	LED2.5/B35FIL/827/E27/220-240V/ 1/10	93051684	-	250	2700	355	80	10k	A++	35	90	10	8
4	40	B22	LED4/B35FIL/827/B22/220-240V/ 1/10	93051679	-	470	2700	355	80	10k	A++	35	90	10	8
4	40	E14	LED4/B35FIL/827/E14/220-240V/ 1/10	93051680	93091957	470	2700	355	80	10k	A++	35	98	10	8
4	40	E27	LED4/B35FIL/827/E27/220-240V/ 1/10	93051681	-	470	2700	355	80	10k	A++	35	90	10	8
LED Filament - Spherical															
2.5	25	B22	LED2.5/P45FIL/827/B22/220-240V/ 1/6	93051673	-	250	2700	355	80	10k	A++	45	73	6	9
2.5	25	E14	LED2.5/P45FIL/827/E14/220-240V/ 1/6	93051677	-	250	2700	355	80	10k	A++	45	78	6	9
2.5	25	E27	LED2.5/P45FIL/827/E27/220-240V/ 1/6	93051678	-	250	2700	355	80	10k	A++	45	73	6	9
4	40	B22	LED4/P45FIL/827/B22/220-240V/ 1/6	93051674	-	470	2700	355	80	10k	A++	45	73	6	9
4	40	E14	LED4/P45FIL/827/E14/220-240V/ 1/6	93051675	93091958	470	2700	355	80	10k	A++	45	78	6	9
4	40	E27	LED4/P45FIL/827/E27/220-240V/ 1/6	93051676	-	470	2700	355	80	10k	A++	45	73	6	9



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LED Retrofit Solutions / LED Lamps

Model	Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungstrom Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty
LED Filament Heliax - Dimmable															
1	3.5	36	B22	LED Fil Heliax Candle 3.5W Dim 820 B22	93078666	-	125	2000	310	80	15k	A	35	97	10
1	3.5	36	E14	LED Fil Heliax Candle 3.5W Dim 820 E14	93078636	-	125	2000	310	80	15k	A	35	97	10
1	3.5	36	B22	LED Fil Heliax Candle 3.5W Dim 822 B22	93078667	-	125	2200	310	80	15k	A	35	97	10
1	3.5	36	E14	LED Fil Heliax Candle 3.5W Dim 822 E14	93078637	-	125	2200	310	80	15k	A	35	97	10
2	5.5	45	B22	LED Fil Heliax Pear 5.5W Dim 820 B22	93078648	-	250	2000	310	80	15k	A	64	138	6
2	5.5	45	E27	LED Fil Heliax Pear 5.5W Dim 820 E27	93078646	-	250	2000	310	80	15k	A	64	140	6
2	5.5	45	B22	LED Fil Heliax Pear 5.5W Dim 822 B22	93078649	-	250	2200	310	80	15k	A	64	138	6
2	5.5	45	E27	LED Fil Heliax Pear 5.5W Dim 822 E27	93078647	-	250	2200	310	80	15k	A	64	140	6
3	5.5	45	B22	LED Fil Heliax Globe80 5.5W Dim 820 B22	93078642	-	250	2000	310	80	15k	A	80	120	4
3	5.5	45	E27	LED Fil Heliax Globe80 5.5W Dim 820 E27	93078643	-	250	2000	310	80	15k	A	80	122	4
3	5.5	45	B22	LED Fil Heliax Globe95 5.5W Dim 820 B22	93078644	-	250	2000	310	80	15k	A	95	138	4
3	5.5	45	E27	LED Fil Heliax Globe95 5.5W Dim 820 E27	93078645	-	250	2000	310	80	15k	A	95	140	4
4	6	50	B22	LED Fil Heliax Globe200 6W Dim 820 B22	93078638	-	300	2000	310	80	15k	A	200	281	1
4	6	50	E27	LED Fil Heliax Globe200 6W Dim 820 E27	93078639	-	300	2000	310	80	15k	A	200	283	1
5	6	50	B22	LED Fil Heliax GLS160 6W Dim 820 B22	93078640	-	300	2000	310	80	15k	A	160	288	1
5	6	50	E27	LED Fil Heliax GLS160 6W Dim 820 E27	93078641	-	300	2000	310	80	15k	A	160	290	1
Start - DECO Candle															
8	3.5	25	B22	LED3.5/B35/827/B22/220-240V/FR	93063345	-	250	2700	-	80	10k	A+	35	106	10
6	3.5	25	E14	LED3.5/B35/827/E14/220-240V/FR	93063342	93063980	250	2700	-	80	10k	A+	35	107	10
7	3.5	25	E27	LED3.5/B35/827/E27/220-240V/FR	93063344	93063982	250	2700	-	80	10k	A+	35	107	10
6	3.5	25	E14	LED3.5/B35/865/E14/220-240V/FR	93063343	93063981	250	6500	-	80	10k	A+	35	107	10
8	5.5	40	B22	LED5.5/B35/827/B22/220-240V/FR	93063963	-	470	2700	-	80	10k	A+	35	106	10
6	5.5	40	E14	LED5.5/B35/827/E14/220-240V/FR	93063960	93063985	470	2700	-	80	10k	A+	35	107	10
7	5.5	40	E27	LED5.5/B35/827/E27/220-240V/FR	93063962	93063987	470	2700	-	80	10k	A+	35	107	10
6	5.5	42	E14	LED5.5/B35/865/E14/220-240V/FR	93063961	93063986	500	6500	-	80	10k	A+	35	107	10



LED Retrofit Solutions / LED Lamps

Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungstrom Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Diameter (mm)	Length (mm)	Pack Qty	Model
Energy Smart™ - CROWN DECO Candle - Frosted - Dimmable															
4	25	E14	LED4D/B35/827/E14/220-240V/FR 1/10	93030093	-	270	2700	240	80	20k	A+	36	94	10	9
4	25	E27	LED4D/B35/827/E27/220-240V/FR 1/10	93030094	-	270	2700	240	80	20k	A+	36	94	10	10
6	40	E14	LED6D/B38/827/E14/220-240V/FR 1/10	93030252	-	470	2700	240	80	20k	A+	38	112	10	9
6	40	E27	LED6D/B38/827/E27/220-240V/FR 1/10	93030254	-	470	2700	240	80	20k	A+	38	112	10	10
6	40	B22	LED6D/B38/827/B22/220-240V/FR 1/10	93030120	-	470	2700	240	80	20k	A+	38	112	10	11
Energy Smart™ - CROWN DECO Candle - Clear Dimmable															
4	25	B15	LED4D/B35/827/B15/220-240V/CLS 1/10	93029957	-	270	2700	160	80	20k	A+	36	94	10	15
4	25	B22	LED4D/B35/827/B22/220-240V/CLS 1/10	93030091	-	270	2700	160	80	20k	A+	36	94	10	14
4	25	E14	LED4D/B35/827/E14/220-240V/CLS 1/10	93030092	-	270	2700	160	80	20k	A+	36	94	10	12
4	25	E27	LED4D/B35/827/E27/220-240V/CLS 1/10	93029539	-	270	2700	160	80	20k	A+	36	94	10	13
6	40	B22	LED6D/B38/827/B22/220-240V/CLS 1/10	93030119	-	470	2700	160	80	20k	A+	38	112	10	14
6	40	E14	LED6D/B38/827/E14/220-240V/CLS 1/10	93030251	-	470	2700	160	80	20k	A+	38	112	10	12
6	40	E27	LED6D/B38/827/E27/220-240V/CLS 1/10	93030253	-	470	2700	160	80	20k	A+	38	112	10	13
Start - DECO Spherical															
3.5	25	B22	LED3.5/P45/827/B22/220-240V/FR	93063959	-	250	2700	-	80	10k	A+	45	82	6	17
3.5	25	E14	LED3.5/P45/827/E14/220-240V/FR	93063956	93063983	250	2700	-	80	10k	A+	45	87	6	18
3.5	25	E27	LED3.5/P45/827/E27/220-240V/FR	93063958	93077312	250	2700	-	80	10k	A+	45	84	6	16
3.5	25	E14	LED3.5/P45/865/E14/220-240V/FR	93063957	93063984	250	6500	-	80	10k	A+	45	87	6	18
5.5	40	B22	LED5.5/P45/827/B22/220-240V/FR	93063967	-	470	2700	-	80	10k	A+	45	82	6	17
5.5	40	E14	LED5.5/P45/827/E14/220-240V/FR	93063964	93063988	470	2700	-	80	10k	A+	45	87	6	18
5.5	40	E27	LED5.5/P45/827/E27/220-240V/FR	93063966	93077311	470	2700	-	80	10k	A+	45	84	6	17
5.5	42	E14	LED5.5/P45/865/E14/220-240V/FR	93063965	93063989	500	6500	-	80	10k	A+	45	87	6	18
Energy Smart™ - CROWN DECO Spherical - Frosted - Dimmable															
4	25	B22	LED4D/P45/827/B22/220-240V/FR 1/6	93030255	-	270	2700	240	80	20k	A+	42	76	6	20
4	25	E14	LED4D/P45/827/E14/220-240V/FR 1/6	93030257	-	270	2700	240	80	20k	A+	42	76	6	21
4	25	E27	LED4D/P45/827/E27/220-240V/FR 1/6	93030259	-	270	2700	240	80	20k	A+	42	76	6	19
6	40	E14	LED6D/P45/827/E14/220-240V/FR 1/6	93030264	-	470	2700	240	80	20k	A+	45	90	6	21
6	40	E27	LED6D/P45/827/E27/220-240V/FR 1/6	93030266	-	470	2700	240	80	20k	A+	45	90	6	19
Energy Smart™ - CROWN DECO Spherical - Clear- Dimmable															
4	25	E14	LED4D/P45/827/E14/220-240V/CLS 1/6	93030256	-	270	2700	160	80	20k	A+	42	76	6	21
4	25	E27	LED4D/P45/827/E27/220-240V/CLS 1/6	93030258	-	270	2700	160	80	20k	A+	42	76	6	19
6	40	E14	LED6D/P45/827/E14/220-240V/CLS 1/6	93030263	-	470	2700	160	80	20k	A+	45	90	6	21
6	40	E27	LED6D/P45/827/E27/220-240V/CLS 1/6	93030265	-	470	2700	160	80	20k	A+	45	90	6	19
EnergySmart™ - Capsules															
1.6	15	G4	LED1.6/G4/827/12V/BL 1/10	93019426	93032238	150	2700	240	80	15k	A+	14	38	10	22
2.5	20	G9	LED2.5/G9/827/220-240V/BL 1/10	93019427	93032239	200	2700	240	80	15k	A+	18	52	10	22
EnergySmart™ - Pygmy															
1.6	15	E14	LED1.6/T25/827/100-240V/E14/F TWBL 2/10	93022938	93032237	140	2700	-	80	15k	A++	25	59	10	23
1.6	15	E14	LED1.6/T25/865/100-240V/E14/F BL 1/10	93046028	93042892	150	6500	-	80	15k	A++	25	59	10	23



Start

Energy Smart™

Precise™



**Energy Smart™
R111**
Cap: G53
Wattage: 12W
Voltage: 12V
Beam Spread: 35°
Rated life: 30 000 h



**Precise™
R111**
Cap: G53
Wattage: 15W
Voltage: 12V
Beam Spread: 25/40°
Rated life: 25 000 h

LED R111

Start

Energy Smart™

Precise™



**Start
R50**
Cap: E14
Wattage: 6W
Voltage: 220 – 240V
Beam Spread: 120°
Rated life: 15 000 h



**Energy Smart™
PAR38**
Cap: E27
Wattage: 15W
Voltage: 90 – 240V
Beam Spread: 40°
Rated life: 25 000 h



**Precise™
PAR30
Dimmable**
Cap: E27
Wattage: 11W
Voltage: 220 – 240V
Beam Spread: 35°
Rated life: 25 000 h

LED PAR



**Start
R63**
Cap: E27
Wattage: 8W
Voltage: 220 – 240V
Beam Spread: 120°
Rated life: 15 000 h



**Start
R80**
Cap: E27
Wattage: 10W
Voltage: 220 – 240V
Beam Spread: 120°
Rated life: 15 000 h

LED Specialty PAR56 - Pool Lamp



**Specialty
PAR56**
Cap: Screw Terminal
Wattage: 16W
Voltage: 12V
Beam Spread: 90°
Rated life: 25 000 h

LED Specialty PAR56



LED Retrofit Solutions / LED Lamps

Model	Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh)	Volts (V)	Diameter (mm)	Length (mm)	Pack Qty
Energy Smart™ - R111																	
1	12	75	G53	LED12/R111/830/12V/G53/35 BX 1/10	11543	-	730 3000	35	80	30k	A	12	12	111	59	10	
Precise™ - R111 Dimmable																	
2	15	90	G53	LED Precise R111 15W(90)Dim 927 25°	93091694*	93094513*	850 2700	25	90	25k	A	15	12	111	56	10	
2	15	85	G53	LED Precise R111 15W(85)Dim 927 40°	93074775 *	93094514*	800 2700	40	90	25k	A	15	12	111	56	10	
2	15	90	G53	LED Precise R111 15W(90)Dim 930 25°	93091695*	93094515*	850 3000	25	90	25k	A	15	12	111	56	10	
2	15	85	G53	LED Precise R111 15W(85)Dim 930 40°	93074856 *	93094516*	800 3000	40	90	25k	A	15	12	111	56	10	
2	15	100	G53	LED Precise R111 15W(100)Dim 940 25°	93092066*	93094517*	900 4000	25	90	25k	A	15	12	111	56	10	
2	15	85	G53	LED Precise R111 15W(85)Dim 940 40°	93074857 *	93094518*	800 4000	40	90	25k	A	15	12	111	56	10	
Energy Smart™ - PAR38																	
3	15	140	E27	LED15/PAR38G/830/90-240/E27/WFL BX 1/6	93044739	-	1200 3000	40	81	25k	A+	-	-	122	131	6	
LED Specialty PAR56 - Pool Lamp																	
4	16	300	Screw Terminal	LED Specialty PAR56 16W(300) 765 90° BX	93061072	-	1500 6500	90	70	25k	A+	-	-	177	110	1	
Precise™ - PAR30 - Dimmable																	
5	11	75	E27	LED Precise PAR30 11W (75) Dim 930 35 E27	93061073	-	700 3000	35	90	25k	A	-	-	96	91	6	
5	11	75	E27	LED Precise PAR30 11W (75) Dim 940 35 E27	93065822	-	800 4000	35	90	25k	A	-	-	96	91	6	
Start R50 & R63 & R80																	
6	3	35	E14	LED3/R50/827//E14/100-240V/35/BX1/8	84609	-	230 2700	35	80	12k	A++	3	220-240	50	76	8	
7	6	42	E27	LED6/R50/830/220-240V/120/E27 BX 1/6	93083025 *	-	500 3000	120	80	15k	A+	-	-	50	86	6	
7	6	45	E27	LED6/R50/865/220-240V/120/E27 BX 1/6	93083836 *	-	550 6500	120	80	15k	A+	-	-	50	86	6	
8	8	48	E27	LED8/R63/830/220-240V/120/E27 BX 1/6	93061079	-	600 3000	120	80	15k	A+	-	-	63	100	6	
8	8	54	E27	LED8/R63/865/220-240V/120/E27 BX 1/6	93074297	-	700 6500	120	80	15k	A+	-	-	63	100	6	
9	10	60	E27	LED10/R80/830/220-240V/120/E27 BX 1/6	93061080	-	800 3000	120	80	15k	A+	-	-	80	110	6	
9	10	66	E27	LED10/R80/865/220-240V/120/E27 BX 1/6	93074298	-	900 6500	120	80	15k	A+	-	-	80	110	6	

* available from September 2018
** will be phased out



LED Retrofit Solutions

Product overview

Start



Start GU10

Cap: GU10
Wattage: 3W, 4.5W, 3.5W, 5W
Voltage: 100-240V, 220-240V
Beam Spread: 35°
Rated life: 12 000 h, 15 000 h



Energy Smart™ GU10 Dimmable

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



Precise™ GU10 Dimmable

Cap: GU10
Wattage: 6W
Voltage: 220 — 240V
Beam Spread: 20° — 25° — 35°
Rated life: 50 000 h



Energy Smart™ GU10 High Lumen

Cap: GU10
Wattage: 7W
Voltage: 220 — 240V
Beam Spread: 35°, 60°
Rated life: 25 000 h



Energy Smart™ GU10 Warm Dimming

Cap: GU10
Wattage: 5W
Voltage: 220 — 240V
Beam Spread: 35°
Rated life: 25 000 h

LED GU10



Start MR16

Cap: GU5.3
Wattage: 4W
Voltage: 12V
Beam Spread: 35°
Rated life: 15 000 h



Energy Smart™ MR16 High Lumen

Cap: GU5.3
Wattage: 8W
Voltage: 12V
Beam Spread: 35°
Rated life: 25 000 h



Precise™ MR16 Dimmable

Cap: GU5.3
Wattage: 8W, 7W
Voltage: 12V
Beam Spread: 15°, 25°, 35°
Rated life: 45 000 h, 25 000 h

LED MR16



Start MR16

Cap: GU5.3
Wattage: 4.5W, 7W
Voltage: 12V
Beam Spread: 35°
Rated life: 15 000 h

LED Retrofit Solutions

Product overview

Premium Plastic



LED T8 Plastic High Frequency (ECG)

Cap: G13
Wattage: 9W, 18W, 25W
Op. Frequency: 25 000-85 000Hz
Rated life: 50 000 h

Value Glass



LED T8 Value Glass (CCG/Mains)

Cap: G13
Wattage: 8W, 14W, 17W, 26.5W, 30W
Voltage: 100 - 240V
Op. Frequency: 50/60 Hz
Rated life: 50 000 h and 40 000 h

Start Glass



LED T8 Start Glass (CCG/Mains)

Cap: G13
Wattage: 8W, 16W, 27W
Voltage: 100 - 240V
220 - 240V
Op. Frequency: 50/60 Hz
Rated life: 15 000 h and 20 000 h



LED T8 Premium Plastic Rotatable (CCG/Mains)

Cap: G13 ROT
Wattage: 8W, 18W, 25W
Voltage: 100 - 240V
Op. Frequency: 50/60 Hz
Rated life: 50 000 h

LED T8 Tube

LED Plug-ins and LED Mercury



LED 2D*

Cap: GR8, GR10q
Wattage: 6.5W, 12.5W
Rated life: 40 000 h
Position: Universal



LED 4 pin Plug-in*

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



LED 4 pin Plug-in*

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



LED 4 pin Plug-in Gen2*

Cap: G24q-2, G24q-3
Wattage: 7.5W, 10W
Rated life: 50 000 h
Position: Horizontal



LED 2 pin Plug-in

Cap: G24d
Wattage: 10.5W
Rated life: 50 000 h
Position: Horizontal



LED HID

Cap: E27, E40
Wattage: 35W, 80W
Rated life: 50 000 h and 40 000 h
Position: Universal

* LED 2D ECG and 4 pin Plug-in lamps can't be operated directly from Mains voltage, a CFL ballast is needed

LED Plug-in

LED Retrofit Solutions

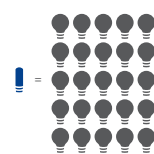
LED Lamps

Choose the performance that's right for you

We've made selecting the right product easier than ever, with a choice of three LED Retrofit Lamp ranges. All offer an attractive combination of performance, energy efficiency and reliability, but each has its own particular strengths and qualities.

At the top of the range we have our LED Precise™ Lamps, offering long life, high CRI light quality and great aesthetics. Next there's our extremely popular LED Energy Smart™ range, combining the best of both worlds: impressive performance and outstanding efficiency.

And for applications requiring dependable performance and 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



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 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
- High Lumen Output and energy efficiency

★★★★★

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
- Energy efficiency
- Superior colour quality with CRI 90/95
- Very long operating life: up to 50,000 hrs
- Optimised dimming function and compatibility

★★★★★

LED Retrofit Solutions

LED Tubes

Quick and easy upgrade for LFLs

Our extensive range of LED Tubes enables existing T8 Linear Fluorescent Lamps (LFLs) to be upgraded to high quality, energy efficient LED lighting with a simple switch.

With products available in plastic and glass design options compatible with electronic or magnetic gears, we have solutions – and easy upgrade paths – for every application.



Significant cost savings

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

Reduced maintenance

- Up to 3x longer life vs. fluorescents on electro-magnetic gear
- Excellent lumen maintenance

Reliable, high quality light

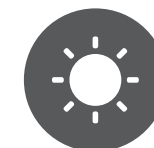
- Instant on, no flicker
- Excellent colour rendering CRI 80+
- Colour options 3000/4000/6500K

Quick and easy installation

- Plug-and-play products
- 600, 1200, 1500 and 1800mm 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 Lamps

Model	Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh)	Volts (V)	Diameter (mm)	Length (mm)	Pack Qty
Start - GU10																	
1	3.5	35	GU10	LED Start GU10 3.5W(35) 827 35°	93067820	93067831	230	2700	35	80	15k	A+	3.5	220-240	50	53	8
1	3.5	35	GU10	LED Start GU10 3.5W(35) 827 35° 2BX	93067829	-	230	2700	35	80	15k	A+	3.5	220-240	50	53	12
1	3.5	35	GU10	LED Start GU10 3.5W(35) 827 35° BL	93067821	-	230	2700	35	80	15k	A+	3.5	220-240	50	53	8
1	3.5	35	GU10	LED Start GU10 3.5W(35) 830 35°	93067822	93094480 *	240	3000	35	80	15k	A+	3.5	220-240	50	53	8
1	3.5	35	GU10	LED Start GU10 3.5W(35) 840 35°	93067823	93094482 *	250	4000	35	80	15k	A+	3.5	220-240	50	53	8
1	3.5	35	GU10	LED Start GU10 3.5W(35) 865 35°	93067830	93094484 *	240	6500	35	80	15k	A+	3.5	220-240	50	53	8
1	5	50	GU10	LED Start GU10 5W(50) 827 35°	93067824	93067832	345	2700	35	80	15k	A+	5	220-240	50	53	8
1	5	50	GU10	LED Start GU10 5W(50) 827 35° 3BX	93077119	-	345	2700	35	80	15k	A+	5	220-240	50	53	12
1	5	50	GU10	LED Start GU10 5W(50) 827 35° BL	93067825	-	345	2700	35	80	15k	A+	5	220-240	50	53	8
1	5	50	GU10	LED Start GU10 5W(50) 830 35°	93067826	93094487 *	360	3000	35	80	15k	A+	5	220-240	50	53	8
1	5	50	GU10	LED Start GU10 5W(50) 840 35°	93067827	93094489 *	360	4000	35	80	15k	A+	5	220-240	50	53	8
1	5	50	GU10	LED Start GU10 5W(50) 865 35°	93067828	93094491 *	360	6500	35	80	15k	A+	5	220-240	50	53	8
Energy Smart™ - GU10 - Dimmable																	
2	5.5	50	GU10	LED ESmart GU10 50-5.5WDim 827 35°	93068474	93094493 *	360	2700	35	80	25k	A+	5.5	220-240	50	54	8
2	5.5	50	GU10	LED ESmart GU10 50-5.5WDim 827 35° BL	93068477	-	360	2700	35	80	25k	A+	5.5	220-240	50	54	8
2	5.5	50	GU10	LED ESmart GU10 50-5.5WDim 830 35°	93068475	93094495 *	380	3000	35	80	25k	A+	5.5	220-240	50	54	8
2	5.5	50	GU10	LED ESmart GU10 50-5.5WDim 840 35°	93068476	93094497 *	400	4000	35	80	25k	A+	5.5	220-240	50	54	8
Energy Smart™ - GU10 High Lumen - Dimmable																	
2	7	70	GU10	LED7D/GU10/830/220-240V/35/BX 1/8ES	93061056	93094499 *	500	3000	35	80	25k	A+	7	220-240	50	53.5	8
2	7	64	GU10	LED7D/GU10/830/220-240V/60/BX 1/8ES	93061057	93094501 *	450	3000	60	80	25k	A+	7	220-240	50	53.5	8
2	7	70	GU10	LED7D/GU10/840/220-240V/35/BX 1/8ES	93061058	93094503 *	500	4000	35	80	25k	A+	7	220-240	50	53.5	8
2	7	64	GU10	LED7D/GU10/840/220-240V/60/BX 1/8ES	93061058	93094505 *	450	4000	60	80	25k	A+	7	220-240	50	53.5	8
Energy Smart™ - GU10 Warm Dimming																	
3	6	50	GU10	LED Precise GU10 6W(50)Dim 927 20°	93074767	-	350	2700	20	95	50k	A+	6	220-240	50	53	10
Precise™ - GU10 - Dimmable																	
5	6	50	GU10	LED Precise GU10 6W(50)Dim 927 20°	93074767	-	350	2700	20	95	50k	A+	6	220-240	50	53	10
4	6	50	GU10	LED6D/GU10G/927/220-240V/WFL BX 1/10H PR	93040549 **	-	400	2700	35	90	50k	A+	6	220-240	50.2	54	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 927 20° TU	-	93094507***	350	2700	20	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 927 35°	93074768 *	-	350	2700	35	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 927 35° TU	-	93094508***	350	2700	35	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 930 20°	93074769 *	-	370	3000	20	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 930 20° TU	-	93094509***	370	3000	20	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 930 35°	93074770	-	370	3000	35	95	50k	A+	6	220-240	50	53	10
4	6	50	GU10	LED6D/GU10G/940/220-240V/FL BX 1/10H PR	93040552 **	-	440	4000	25	90	50k	A+	6	220-240	50.2	54	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 930 35° TU	-	93094510***	370	3000	35	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 940 20°	93074771 *	-	400	4000	20	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 940 20° TU	-	93094511	400	4000	20	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 940 35°	93074772	-	400	4000	35	95	50k	A+	6	220-240	50	53	10
5	6	50	GU10	LED Precise GU10 6W(50)Dim 940 35° TU	-	93067827	400	4000	35	95	50k	A+	6	220-240	50	53	10

* available from November 2018
** will be Phased out
*** glass housing, available from January 2019



1 2 3 4 5

LED Retrofit Solutions / LED Lamps

Wattage (W)	Watt Replacement	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70/B50 (h)	EEC	Energy Consumption (kWh)	Volts (V)	Diameter (mm)	Length (mm)	Pack Qty	Model
Start - MR16																	
4	35	GU5.3	LED4/MR16/827/12V/GU5.3/35 BX1/8ST	93061069 **	-	350	2700	35	80	15k	A+	4	12	50	45	8	6
4.5	35	GU5.3	LED Start MR16 4.5W(35) 827 35° TU 1/8	93095381*	93094225 *	350	2700	35	80	15k	A+	4.5	12	50	45	8	7
4	35	GU5.3	LED4/MR16/830/12V/GU5.3/35 BX1/8ST	93061070 **	-	350	3000	35	80	15k	A+	4	12	50	45	8	6
4.5	35	GU5.3	LED Start MR16 4.5W(35) 830 35° TU 1/8	93095383*	93094457 *	350	3000	35	80	15k	A+	4.5	12	50	45	8	7
4	35	GU5.3	LED4/MR16/840/12V/GU5.3/35 BX1/8ST	93061071 **	-	360	4000	35	80	15k	A+	4	12	50	45	8	6
4.5	35	GU5.3	LED Start MR16 4.5W(35) 840 35° TU 1/8	93095385*	93094459 *	360	4000	35	80	15k	A+	4.5	12	50	45	8	7
7	50	GU5.3	LED Start MR16 7W(50) 827 35° GE 1/8	93094461 *	93094467 *	621	2700	35	80	15k	A+	7	12	50	45	8	8
7	50	GU5.3	LED Start MR16 7W(50) 830 35° GE 1/8	93094463 *	93094469 *	621	3000	35	80	15k	A+	7	12	50	45	8	8
4	50	GU5.3	LED Start MR16 7W(50) 840 35° GE 1/8	93094465 *	93094471 *	621	4000	35	80	15k	A+	7	12	50	45	8	8
Energy Smart™ - MR16 High Lumen - Dimmable																	
8	50	GU5.3	LED ESmart MR16 8W(50)Dim 827 35°	93061066	93094473 *	621	2700	35	80	25k	A+	8	12	50	46	8	9
8	50	GU5.3	LED ESmart MR16 8W(50)Dim 830 35°	93061067	93094475 *	621	3000	35	80	25k	A+	8	12	50	46	8	9
8	50	GU5.3	LED ESmart MR16 8W(50)Dim 840 35°	93061068	93094477 *	630	4000	35	80	25k	A+	8	12	50	46	8	9
Precise™ - MR16 - Dimmable																	
7	50	GU5.3	LED7XD/MR16G/827/12V/25 BX 1/8	93048796 **	-	470	2700	25	80	45k	A+	7	12	50	45.5	8	10
8	35	GU5.3	LED Precise MR16 8W(35)Dim 927 15°	93074773 *	-	380	2700	15	90	25k	A	8	12	50	46	8	10
7	50	GU5.3	LED7XD/MR16G/827/12V/35 BX1/8	93048335 **	-	470	2700	35	80	45k	A+	7	12	50	45.5	8	10
8	35	GU5.3	LED Precise MR16 8W(35)Dim 927 35°	93074774 *	-	380	2700	35	90	25k	A	8	12	50	46	8	10
7	50	GU5.3	LED7XD/MR16G/830/12V/15 BX1/8	93048800	-	490	3000	15	80	45k	A+	7	12	50	47.5	8	10
7	50	GU5.3	LED7XD/MR16G/830/12V/25 BX1/8	93048799 **	-	490	3000	25	80	45k	A+	7	12	50	45.5	8	10
8	35	GU5.3	LED Precise MR16 8W(35)Dim 930 15°	93061062 *	-	380	3000	15	90	25k	A	8	12	50	48	8	10
7	50	GU5.3	LED7XD/MR16G/830/12V/35 BX1/8	93048798 **	-	490	3000	35	80	45k	A+	7	12	50	45.5	8	10
8	35	GU5.3	LED Precise MR16 8W(35)Dim 930 35°	93061063	-	380	3000	35	90	25k	A	8	12	50	46	8	10
8	35	GU5.3	LED Precise MR16 8W(35)Dim 940 15°	93061064	-	400	4000	15	90	25k	A	8	12	50	46	8	10
7	50	GU5.3	LED7XD/MR16G/840/12V/35 BX1/8	93048797 **	-	530	4000	35	80	45k	A+	7	12	50	45.5	8	10
8	35	GU5.3	LED Precise MR16 8W(35)Dim 940 35°	93061065	-	400	4000	35	90	25k	A	8	12	50	48	8	10

* available from December 2018
** will be Phased out



6 7 8 9 10

LED Retrofit Solutions / LED Tubes

Model	Wattage (W)	Length (mm)	Volts (V)	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Diameter (mm)	Energy Consumption (kWh)	EEC	Pack Qty
LED T8 Plastic - High Frequency (ECG)																
1	9	600	50-110V	G13	LED 9/T8 PHF 2ft/840	93041503	-	1 200	4000	150	80<	50k	28	11	A+	10
1	18	1200	50-110V	G13	LED 18/T8 PHF 4ft/830*	93041505	-	2 100	3000	150	80<	50k	28	22	A+	10
1	18	1200	50-110V	G13	LED 18/T8 PHF 4ft/840	93041836	-	2 300	4000	150	80<	50k	28	21	A+	10
1	18	1200	50-110V	G13	LED 18/T8 PHF 4ft/865*	93041837	-	2 300	6500	150	80<	50k	28	21	A+	10
1	25	1500	50-110V	G13	LED 25/T8 PHF 5ft/840	93041839	-	3 400	4000	150	80<	50k	28	29	A+	10
1	25	1500	50-110V	G13	LED 25/T8 PHF 5ft/865*	93041840	-	3 400	6500	150	80<	50k	28	29	A+	10
LED T8 Premium Plastic - Rotatable (CCG/Mains)																
2	8	600	100-240V	G13 Rot	LED 8/T8 PPR 2ft/830	93072626	-	1 100	3000	170	80<	50k	28	8	A++	10
2	8	600	100-240V	G13 Rot	LED 8/T8 PPR 2ft/840	93072627	-	1 200	4000	170	80<	50k	28	8	A++	10
2	8	600	100-240V	G13 Rot	LED 8/T8 PPR 2ft/865	93072628	-	1 200	6500	170	80<	50k	28	8	A++	10
2	18	1200	100-240V	G13 Rot	LED 18/T8 PPR 4ft/830	93072629	-	2 300	3000	170	80<	50k	28	18	A++	10
2	18	1200	100-240V	G13 Rot	LED 18/T8 PPR 4ft/840	93072630	-	2 500	4000	170	80<	50k	28	18	A++	10
2	18	1200	100-240V	G13 Rot	LED 18/T8 PPR 4ft/865	93072631	-	2 500	6500	170	80<	50k	28	18	A++	10
2	25	1500	100-240V	G13 Rot	LED 25/T8 PPR 5ft/830	93072632	-	3 350	3000	170	80<	50k	28	25	A++	10
2	25	1500	100-240V	G13 Rot	LED 25/T8 PPR 5ft/840	93072633	-	3 600	4000	170	80<	50k	28	25	A++	10
2	25	1500	100-240V	G13 Rot	LED 25/T8 PPR 5ft/865	93072634	-	3 600	6500	170	80<	50k	28	25	A++	10
LED T8 Value Glass (CCG/Mains)																
3	8	600	100-240	G13	LED 8/T8 VG 2ft/830*	93013212	-	700	3000	200	80<	40k	28	8	A+	15
3	8	600	100-240	G13	LED 8/T8VG 0,6m/830**	93076819	-	950	3000	200	80<	50k	28	8	A+	15
3	8	600	100-240	G13	LED 8/T8VG 0,6m/840	93076820	-	1 000	4000	200	80<	50k	28	8	A+	15
3	8	600	100-240	G13	LED 8/T8 VG 2ft/865*	93013214	-	800	6500	200	80<	40k	28	8	A+	15
3	8	600	100-240	G13	LED 8/T8VG 0,6m/865**	93076821	-	1 000	6500	200	80<	50k	28	8	A+	15
3	14	1200	100-240	G13	LED 14/T8VG 1,2m/840	93076822	-	1 750	4000	200	80<	50k	28	14	A+	15
3	14	1200	100-240	G13	LED 14/T8VG 1,2m/865	93076823	-	1 750	6500	200	80<	50k	28	14	A+	15
3	17	1200	100-240	G13	LED 17/T8VG 1,2m/830	93076824	-	2 000	3000	200	80<	50k	28	17	A+	15
3	17	1200	100-240	G13	LED 17/T8VG 1,2m/840	93076825	-	2 100	4000	200	80<	50k	28	17	A+	15
3	17	1200	100-240	G13	LED 17/T8VG 1,2m/865	93076926	-	2 100	6500	200	80<	50k	28	17	A+	15
3	26,5	1500	100-240	G13	LED 26,5/T8VG 1,5m/830	93080089	-	3 000	3000	200	80<	50k	28	26,5	A+	10
3	26,5	1500	100-240	G13	LED 26,5/T8VG 1,5m/840	93080090	-	3 100	4000	200	80<	50k	28	26,5	A+	10
3	26,5	1500	100-240	G13	LED 26,5/T8VG 1,5m/865	93080091	-	3 100	6500	200	80<	50k	28	26,5	A+	10
3	30	1800	220-240	G13	LED 30/T8 VG 6ft/830	93040746	-	3 300	3000	200	80<	40k	28	30	A+	10
3	30	1800	220-240	G13	LED 30/T8 VG 6ft/840	93040747	-	3 600	4000	200	80<	40k	28	30	A+	10
3	30	1800	220-240	G13	LED 30/T8 VG 6ft/865	93040748	-	3 600	6500	200	80<	40k	28	30	A+	10
LED T8 Start Glass (CCG/Mains)																
3	8	600	220-240	G13	LED 8/T8 SGM 2ft/840	93068755	-	800	4000	200	80<	15k	28	8	A+	15
3	8	600	220-240	G13	LED 8/T8 SGM 2ft/865	93069176	-	800	6500	200	80<	15k	28	8	A+	15
3	16	1200	220-240	G13	LED 16/T8 SGM 4ft/840	93069177	-	1 700	4000	200	80<	15k	28	16	A+	15
3	16	1200	220-240	G13	LED 16/T8 SGM 4ft/865	93069178	-	1 700	6500	200	80<	15k	28	16	A+	15
3	27	1500	100-240	G13	LED 27/T8 SG 5ft/840	93033795	-	2 700	4000	200	80<	20k	28	27	A+	10
3	27	1500	100-240	G13	LED 27/T8 SG 5ft/865	93033794	-	2 700	6500	200	80<	20k	28	27	A+	10

* To be phased out
** Available from Nov 2018

Quick guide how to replace existing fluorensce tubes with LED T8 tubes:

- Fluorescent T8 on High Frequency Electronic Control Gear (ECG) - No Fluorescent Starter is used > replace with LED T8 Plastic HF
- Fluorescent T8 on Electromagnetic Conventional Control Gear (CCG/Mains) - Fluorescent Starter is present >
Option 1. Replace with LED Starter & LED T8 PPR/VGR/VG/SG, or
Option 2. Remove Fluorescent Starter and refit LED T8 with direct connection to Mains (No Live connection at open end on GE LED T8!)



1 2 3



LED Retrofit Solutions

LED Plug-in

Simple plug-and-play replacement without tools

LED Plug-in replacement lamps offer an extremely attractive upgrade path from traditional Compact Fluorescent Lamps (CFL).

With simple and reliable plug-and-play installation for both horizontal and vertical configurations, and arrange that covers 2D lamps and 2 Pin/4 Pin Plug-in lamps, we have made it easier than ever to take advantage of all the advantages of LED technology.

Benefits of our retrofit LED Plug-in products compared with CFLs include energy savings of up to 60%, up to 3x the working life and a more uniform light that is ideal for retail, hospitality and commercial applications. The result is a dramatic reduction in operating costs and equally impressive improvements in the quality of light.



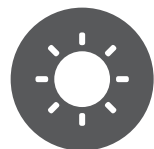
Significant cost savings

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



Long life, low maintenance

- Up to 3x longer life vs. average CFL
- Up to 50 000 hours rated life (L70)



Reliable, high quality light

- Instant on, no flicker
- Excellent colour rendering CRI 80+
- Colour options 2700/3000/3500/4000/6500K



Quick and easy installation

- For 2D lamps with GR8 or GR10q socket, or Plug-in lamps with G24d, G24q-2 or G24q-3 CFL socket
- No installation tools required
- Rotatable base to adjust lamp into perfect position



Environmentally friendly solutions

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

LED Retrofit Solutions

LED HID

LED HID lamps offer safe, reliable and affordable energy saving alternative to traditional HID lamps used in outdoor and industrial applications.

This replacement can be completed simply without costly upgrade. The robust lamp design with E27 / E40 base ensures retrofitting and easy handle during installation. The upgraded fixture will deliver up to 80% energy saving and reduced operating cost driven by 2-4x longer life compared to an average HID lamp. The classic shape and optimized, uniform light distribution of this range makes it easier than ever to switch existing fixtures to a high quality LED solution.



UP TO 80%
ENERGY SAVING



RETROFIT
SOLUTION



HIGH EFFICIENCY OF
150LM/W AND
UNIFORM LIGHT DISTRIBUTION

Retrofit alternative for HID installations



LED Retrofit Solutions / LED Plug-in

Model	Wattage (W)	Ballast Compatibility	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Size (mm)	Energy Consumption (kWh)	EEC	Pack Qty	Replacement for
LED 2D																
1	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/827/GR8 GE BX1/10	93039469	-	750 2700	120 x 130	80+	40k	136 x 132	6.5	A+	10	16W CFL 2D	
1	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/830/GR8 GE BX1/10	93039470	-	770 3000	120 x 130	80+	40k	136 x 132	6.5	A+	10		
1	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/835/GR8 GE BX1/10	93039471	-	800 3500	120 x 130	80+	40k	136 x 132	6.5	A+	10		
1	6.5	magnetic	GR8	LED 2D2P 6.5W/CCG/840/GR8 GE BX1/10	93039475	-	830 4000	120 x 130	80+	40k	136 x 132	6.5	A+	10		
2	12.5	electronic	GR10q	LED 2D4P 12.5W/ECG/827/GR10q GE BX1/10	93039478 *	-	1400 2700	120 x 130	80+	40k	201 x 188	12.5	A+	10	28W CFL 2D	
2	12.5	electronic	GR10q	LED 2D4P 12.5W/ECG/835/GR10q GE BX1/10	93039477 *	-	1500 3500	120 x 130	80+	40k	201 x 188	12.5	A+	10		
2	12.5	electronic	GR10q	LED 2D4P 12.5W/ECG/840/GR10q GE BX1/10	93039476 *	-	1550 4000	120 x 130	80+	40k	201 x 188	12.5	A+	10		
2	12.5	magnetic	GR10q	LED 2D4P 12.5W/CCG/827/GR10q GE BX1/10	93039473	-	1400 2700	120 x 130	80+	40k	201 x 188	12.5	A+	10		
2	12.5	magnetic	GR10q	LED 2D4P 12.5W/CCG/835/GR10q GE BX1/10	93039472	-	1500 3500	120 x 130	80+	40k	201 x 188	12.5	A+	10		
2	12.5	magnetic	GR10q	LED 2D4P 12.5W/CCG/840/GR10q GE BX1/10	93039474	-	1550 4000	120 x 130	80+	40k	201 x 188	12.5	A+	10		

* Visit this website for list of ballasts tested and approved for compatibility: gelighting.com/LEDPlugIn-compatibility

Model	Wattage (W)	Burning Position	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Length [mm]	Width / Diameter [mm]	Energy Consumption (kWh)	EEC	Pack Qty	Replacement for
LED 4 Pin Plug-in*																	
3	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/827 GE BX1/6	93019485 **	-	1250 2700	100 x 75	80+	50k	132	35	12,5	A+	6	26/32W CFL	
3	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/830 GE BX1/6	93019486 **	-	1290 3000	100 x 75	80+	50k	132	35	12,5	A+	6		
3	12.5	Horizontal	G24q-3	LED 12.5/G24q-3/4P/H/865 GE BX1/6	93019488 **	-	1350 6500	100 x 75	80+	50k	132	35	12,5	A+	6		
4	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/827 GE BX1/6	93024415 **	-	1250 2700	87	80+	50k	144	94	12,5	A+	6		
4	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/830 GE BX1/6	93024294 **	-	1290 3000	87	80+	50k	144	94	12,5	A+	6		
4	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/840 GE BX1/6	93024110 **	-	1300 4000	87	80+	50k	144	94	12,5	A+	6		
4	12.5	Vertical	G24q-3	LED 12.5/G24q-3/4P/V/865 GE BX1/6	93024109 **	-	1350 6500	87	80+	50k	144	94	12,5	A+	6		

* Visit this website for list of ballasts tested and approved for compatibility: gelighting.com/LEDPlugIn-compatibility

** - will be phased out



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LED Retrofit Solutions / LED Plug-in

Wattage (W)	Burning Position	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Length [mm]	Width / Diameter [mm]	Energy Consumption (kWh)	EEC	Pack Qty	Replacement for	Model
LED 4 Pin Plug-in Gen2 *																	
7.5	Horizontal	G24q-2	LED 7.5/G2/G24q-2/4P/H/830 GE BX1/6	93060370	-	850 3000	110 x 120	80+	50k	132	34.5	7.5	A+	6	18W CFL		5
7.5	Horizontal	G24q-2	LED 7.5/G2/G24q-2/4P/H/840 GE BX1/6	93060371	-	880 4000	110 x 120	80+	50k	132	34.5	7.5	A+	6			5
7.5	Horizontal	G24q-2	LED 7.5/G2/G24q-2/4P/H/865 GE BX1/6	93060372	-	900 6500	110 x 120	80+	50k	132	34.5	7.5	A+	6			5
10	Horizontal	G24q-3	LED 10/G2/G24q-3/4P/H/830 GE BX1/6	93060367***	-	1150 3000	110 x 120	80+	50k	132	34.5	10	A+	6	26/32W CFL		5
10	Horizontal	G24q-3	LED 10/G2/G24q-3/4P/H/840 GE BX1/6	93060368	-	1170 4000	110 x 120	80+	50k	132	34.5	10	A+	6			5
10	Horizontal	G24q-3	LED 10/G2/G24q-3/4P/H/865 GE BX1/6	93060369***	-	1200 6500	110 x 120	80+	50k	132	34.5	10	A+	6			5

* Visit this website for list of ballasts tested and approved for compatibility: gelighting.com/LEDPlugIn-compatibility

*** - product available from Q3, please check Gen1 range

Wattage (W)	Burning Position	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle (°)	CRI (Ra)	Rated life L70 (h)	Length [mm]	Width / Diameter [mm]	Energy Consumption (kWh)	EEC	Pack Qty	Replacement for	Model
LED 2 Pin Plug-in																	
10.5	Horizontal	G24d	LED 10.5/G24d/2P/H/830 GE BX1/6	93051476	-	1050 3000	110 x 120	80+	50k	165	34.5	10.5	A+	6	13/18/26W CFL		6
10.5	Horizontal	G24d	LED 10.5/G24d/2P/H/840 GE BX1/6	93051477	-	1050 4000	110 x 120	80+	50k	165	34.5	10.5	A+	6			6
10.5	Horizontal	G24d	LED 10.5/G24d/2P/H/865 GE BX1/6	93051521	-	1050 6500	110 x 120	80+	50k	165	34.5	10.5	A+	6			6

Wattage (W)	Burning Position	Cap	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Beam Angle	CRI (Ra)	Rated life L70 (h)	Length (mm)	Diameter (mm)	EEC	Replacement	Pack Qty	Model
LED HID																
35	Universal	E27	LED 35W/Mercury/730/E27 GE BX1/6	93038710	-	4 750	3000	360	70+	40k	175	76	A+	80/125W HID Mercury	6	7
35	Universal	E27	LED 35W/Mercury/740/E27 GE BX1/6	93038711	-	4 800	4000	360	70+	40k	175	76	A++		6	7
80	Universal	E40	LED 80W/HID/740/E40 GE	93067075	-	12 000	4000	360	70+	50k	203	92.2	A++	250W	1	8
80	Universal	E40	LED 80W/HID/750/E40 GE	93067246	-	12 000	5000	360	70+	50k	203	92.2	A++	QMH	1	8
150	Universal	E40	LED 150W/HID/740/E40 TU	-	93094721	23 000	4000	360	70+	50k	211	103,9	-	250W	1	9
150	Universal	E40	LED 150W/HID/750/E40 TU	-	93094722	23 000	5000	360	70+	50k	211	103,9	-	CMH	1	9



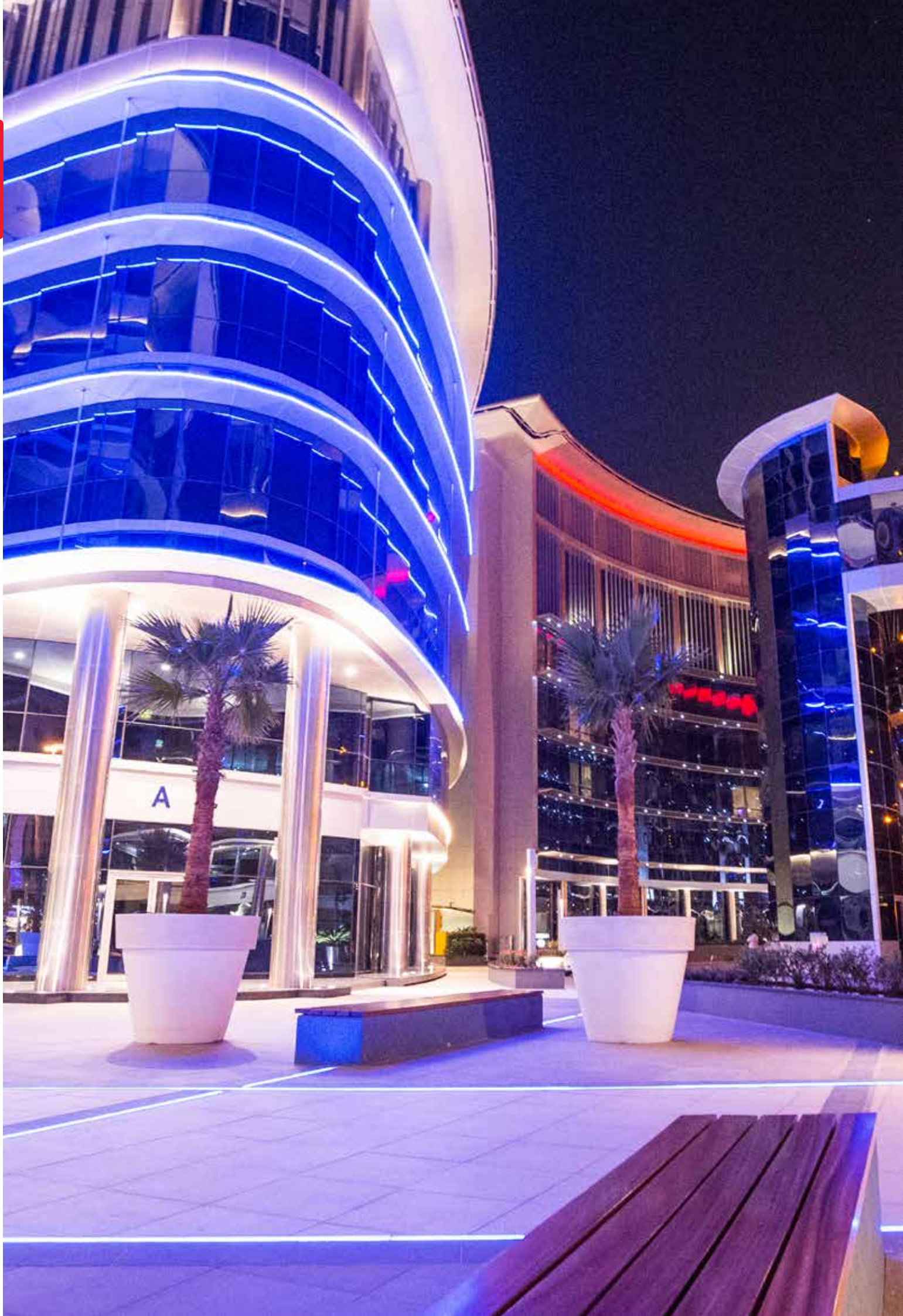
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LED Indoor

LED Indoor



LED Indoor Fixtures





High quality LED solutions at an affordable price

From future-proof modular solutions to innovative new formats, we deliver high quality LED solutions at an affordable price.

Our LED Fundamental Fixtures portfolio is the latest example of this, a comprehensive range of economical indoor lighting products for just about any and every application and across all market sectors.

This range has been designed to offer a highly attractive combination of light quality, colour reproduction, product reliability and energy efficiency. Simplicity of installation and operation are key benefits too, enabling quick and easy replacement of traditional technologies such as LFL, CFL and HID fixtures.

The LED Fundamental Fixtures range includes panels, downlighters, batten, bulkheads, waterproof solutions, floodlights, high & low bay fixtures in various sizes and wide selection of Lumens packages. These fixtures deliver a cost effective upgrade path across all major vertical market areas including:

- Office/commercial buildings
- Retail
- Hospitality
- Industrial
- Airports

Batten

_ page 45

2D & Integrated Bulkhead

_ page 48

Edgelit Panel

_ page 44

Batten Switch

_ page 45

Eco, Diffuser & Slim Downlight

_ page 46-47

Recessed Spotlight

_ page 47

Floodlight

_ page 50

Soft Strip

_ page 54

Mariner

_ page 49

ABVG2 & HB IP66

_ page 52-53

The fundamentals

Edgelit Panel Premium and Eco G2

This stylish panel transforms ambient lighting, combining sleek and appealing aesthetics with exceptional efficiency – the perfect LED replacement for fluorescent fixtures in T-grid suspended ceilings.

- Energy efficient, up to 120lm/W on Premium and up to 97lm/W on Eco version
- Uniform illumination – no visible diodes or glare
- No-flicker driver for Premium version
- Premium version also available with Dali control
- Accessories (suspension, surface mounting and gypsum ceiling kits) also available

T5 Batten ECO & Switch

A versatile and energy efficient LED T5 batten, enabling easy replacement of traditional products for significant energy savings, reduced maintenance costs and a more attractive quality of light.

- Suitable for wall mounting, stand-alone and continuous row mount
- Choice of 4 length in 4 wattages both for ECO and Switch
- Long rated life of 30 000 hours (L70)
- Static built-in driver
- Surface mounted on/off switch for single fixture control for Switch
- Power cord cable for Switch version included in pack

Downlighter ranges

Our LED downlight range includes three different design options (ECO, Diffusor and Slim) offering easy, direct and cost effective replacement of equivalent compact fluorescent products – and energy savings of as much as 55%.

- Wide range of sizes and colour temperature options
- Affordable solution for retrofit or new installations
- Long rated life of 45 000 hours (L70)
- Ideal for office, commercial, retail, hospitality etc.
- Slim version also available with Dali control

Recessed Spotlight

This Spotlight LED fixture range will be ideal replacement for Halogen MR16/GU10 installations, offering high efficiency, adjustable beam and long life.

- Outstanding efficiency up to 90lm/w
- Quick and easy installation

2D Bulkhead

This elegant interior light fitting is suitable for wall or ceiling mounting. Designed with a replaceable LED 2D lamp and Clear or Opal diffuser options, it combines high performance with outstanding efficiency.

- Outstanding efficiency up to 128 lm/W
- Fixture includes replaceable 2D lamp

Integrated Bulkhead

A simple and elegant light fitting, designed with Integrated LED Light Module both for interior and exterior applications.

- High efficiency up to 95 lm/W
- Wide choice of features, the range available with integrated motion and daylight sensor and/or also with 3hrs Integrated Emergency

Waterproof Mariner Integrated Premium and Start

An ideal solution for a wide range of low bay lighting applications, the Integrated Mariner is a waterproof (IP65), energy efficient, low maintenance alternative to traditional LFLs and offers quick and easy installation.

- Quick connector design, continuous connection option
- Premium version is available in 1200/1500mm, Start version is available in 600/1200/1500mm length
- Outstanding efficiency up to 126.5 lm/W (Premium) and 100 lm/W (Start)
- Wide choice of lumen packages
- No-flicker driver

Waterproof Mariner Empty Body

A range of waterproof fittings suitable for surface mounting applications and compatible with T8 LED tubes on mains voltage. IP65 rated for protection against water.

- Single/twin lamp versions for 1200mm and 1500 mm
- Prewired for easy installation of AC T8 LED lamps
- Continuous connection option
- Wide range of compatible GE T8 LED Tubes available

Floodlight

This universal, compact range of fixtures is suitable for various applications around buildings. Thanks to a robust aluminium housing with safety glass cover it's ideal for outdoor use.

- Available in 6 lumen packages
- Outstanding efficiency up to 130 lm/W
- Fixtures are pre-cabled
- Motion sensor option up to 50W

High bay ABVG2

This newly extended range delivers the performance needed for high/low bay applications in commercial and industrial buildings.

- Outstanding efficiency up to 187 lm/W
- Long rated life of 90 000 hours (L80)
- Lumen package options up to 46,900 lm
- Wide range of optics, CRIs and CCT
- Available with various control and sensor options

High bay IP66

This range is offering an exceptional mixture of value and performance for high bay applications requiring high water and impact resistance. It's designed to replace high watt HID and T5/T8 LFL fixtures.

- Efficiency up to 137 lm/W
- Long rated life of 60 000 hours (L80)
- Optics: 120°, 90° and 55° clear
- Lumen package options up to 26,000 lm
- Available with 1-10V and Dali control



Edgelit Panel Premium
/ Premium Dali / Eco



Edgelit Panel
Accessories



Slim Downlighter
/ Dali



ECO
Downlighter



Diffusor
Downlighter



T5 Batten
ECO



T5 Batten
Switch



Recessed
potlight



2D Bulkhead



Integrated
Bulkhead



Waterproof
Mariner
- Integrated



Waterproof
Mariner ECO
- Integrated



Waterproof
Mariner
- Empty Body



HB IP66



ABVG2



Floodlight



Floodlight
Sensor



Soft Strip



Indoor lighting solutions for every application and environment

Welcome to our 2018 catalogue of Indoor LED Lighting Solutions. This portfolio of advanced LED products includes indoor fixtures for every possible application, satisfying the lighting requirements of key sectors such as office, commercial, retail and more.

It begins with details of our LED Retrofit Solutions, products that offer a clear and simple upgrade path from traditional technologies, and then covers our LED Fundamental Fixtures portfolio, a comprehensive range of economical indoor lighting products.

All products have been designed to deliver optimum performance, maximum reliability and new levels of energy efficiency for reduced environmental impact, transforming offices, retail outlets, travel hubs, public buildings and other demanding environments the world over.



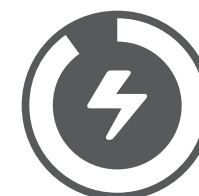
GE LED Fundamental Fixtures

The LED Fundamental Fixtures range offers a cost effective upgrade path across all major vertical market areas including office, commercial buildings, retail, hospitality and industrial.

The portfolio combines light quality, colour reproduction, product reliability and energy efficiency. Simplicity of installation and operation are key to the range's benefits too, enabling quick and easy replacement of traditional technologies such as LFL, CFL and HID fixtures.

This newly introduced Indoor LED range includes recessed and suspended panels, downlighters, spotlights, T5 battens, bulkheads, waterproof solutions, floodlights, high & low bay fixtures in various sizes.

- Energy efficient solutions – up to 187 lm/W
- Long life products – up to 90 000 hours
- Good colour reproduction (80+ CRI)
- Uniform light distribution
- Outstanding product reliability
- Easy installation and operation
- Reduced maintenance / replacement costs
- No IR or UV radiation (suitable for shops, museums etc.)



UP TO 90% GREATER
ENERGY EFFICIENCY



REDUCED CO₂ EMISSIONS
VS. OLDER TECHNOLOGIES



QUICK AND EASY
INSTALLATION

LED Indoor Solutions / LED Fundamental Fixtures

Model	Wattage (W)	Product Description	GE Product Code	Tungram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)	UGR
Edgelit Panel Premium - Static driver																
1	30	EPY22-3030-7SR-21L	93054167	-	3 400	3000	50k	20	113	80+	595x595x10	-10 to +40	A+	3,4	110	21
1	30	EPY22-3030-7SR-19L	93054169	-	3 200	3000	50k	20	105	80+	595x595x10	-10 to +40	A+	3,4	80	<19
1	30	EPY22-3040-7SR-21L	93054168	-	3 600	4000	50k	20	120	80+	595x595x10	-10 to +40	A+	3,4	110	21
1	30	EPY22-3040-7SR-19L	93054170	-	3 400	4000	50k	20	113	80+	595x595x10	-10 to +40	A+	3,4	80	<19
1	30	EPY22-3040-7SR-19L R9003	93074731	-	3 400	4000	50k	20	113	80+	595x595x10	-10 to +40	A+	3,4	80	<19
1	30	EPY22-3065-7SR-21L	93059583	-	3 600	6500	50k	20	120	80+	595x595x10	-10 to +40	A+	3,4	110	21
1	30	EPY22-3062-7SR-19L	93059586	-	3 500	6200	50k	20	113	80+	595x595x10	-10 to +40	A+	3,4	80	<19
2	30	EPY14-3030-7SR-21L	93059584	-	3 300	3000	50k	20	110	80+	295x1195x10	-10 to +40	A+	3,3	110	21
2	30	EPY14-3030-7SR-19L	93059587	-	3 300	3000	50k	20	110	80+	295x1195x10	-10 to +40	A+	3,3	80	<19
2	30	EPY14-3040-7SR-21L	93055967	-	3 600	4000	50k	20	120	80+	295x1195x10	-10 to +40	A+	3,3	110	21
2	30	EPY14-3040-7SR-19L	93055968	-	3 400	4000	50k	20	113	80+	295x1195x10	-10 to +40	A+	3,3	80	<19
2	30	EPY14-3065-7SR-21L	93059585	-	3 300	6500	50k	20	110	80+	295x1195x10	-10 to +40	A+	3,3	110	21
2	30	EPY14-3065-7SR-19L	93059588	-	3 300	6500	50k	20	110	80+	295x1195x10	-10 to +40	A+	3,3	80	<19

Edgelit Panel Premium DALI driver																
1	40	EPY22-4030-7DR-21L	93059005	-	4 200	3000	50k	20	105	80+	595x595x10	-10 to +40	A+	3,4	110	21
1	40	EPY22-4030-7DR-19L	93059576	-	4 200	3000	50k	20	105	80+	595x595x10	-10 to +40	A+	3,4	80	<19
1	40	EPY22-4040-7DR-21L	93059577	-	4 400	4000	50k	20	110	80+	595x595x10	-10 to +40	A+	3,4	110	21
1	40	EPY22-4040-7DR-19L	93059578	-	4 400	4000	50k	20	110	80+	595x595x10	-10 to +40	A+	3,4	80	<19
1	40	EPY22-4065-7DR-21L	93071219	-	4 800	6500	50k	20	120	80+	595x595x10	-10 to +40	A+	3,4	110	21
1	40	EPY22-4065-7DR-19L	93071220	-	4 800	6500	50k	20	120	80+	595x595x10	-10 to +40	A+	3,4	80	<19
2	40	EPY14-4030-7DR-21L	93059579	-	4 200	3000	50k	20	105	80+	295x1195x10	-10 to +40	A+	3,3	110	21
2	40	EPY14-4030-7DR-19L	93059580	-	4 000	3000	50k	20	100	80+	295x1195x10	-10 to +40	A+	3,3	80	<19
2	40	EPY14-4040-7DR-21L	93059581	-	4 500	4000	50k	20	113	80+	295x1195x10	-10 to +40	A+	3,3	110	21
2	40	EPY14-4040-7DR-19L	93059582	-	4 000	4000	50k	20	100	80+	295x1195x10	-10 to +40	A+	3,3	80	<19
2	40	EPY14-4065-7DR-21L	93071221	-	4 200	6500	50k	20	105	80+	295x1195x10	-10 to +40	A+	3,3	110	21
2	40	EPY14-4065-7DR-19L	93071222	-	4 200	6500	50k	20	105	80+	295x1195x10	-10 to +40	A+	3,3	80	<19

Edgelit Panel Eco G2 - Static driver																
1	36	ENV22-3630-7SR-21L EU 2PCS	93092691	-	3 300	3000	30k	20	92	80+	595x595x10	-10 to +40	A+	2,2	110	21
1	36	ENV22-3640-7SR-21L EU 2PCS	93090178	-	3 500	3000	30k	20	97	80+	595x595x10	-10 to +40	A+	2,2	80	<19
1	36	ENV22-3665-7SR-21L EU 2PCS	93092692	-	3 500	4000	30k	20	97	80+	595x595x10	-10 to +40	A+	2,2	110	21
1	36	ENV22-3630-7SR-19L EU 2PCS	93092689	-	3 300	4000	30k	20	92	80+	595x595x10	-10 to +40	A+	2,2	80	<19
1	36	ENV22-3640-7SR-19L EU 2PCS	93090179	-	3 500	6500	30k	20	97	80+	595x595x10	-10 to +40	A+	2,2	110	21
1	36	ENV22-3665-7SR-19L EU 2PCS	93092690	-	3 400	6500	30k	20	94	80+	595x595x10	-10 to +40	A+	2,2	80	<19

Edgelit Panel Accessories																
		Surface mounting KIT Edgelit 2x2 R9010	93082877	-												
		Surface mounting KIT Edgelit 2x2 R9003	93082876	-												
		Surface mounting KIT Edgelit 1x4 R9010	93082878	-												
		Surface mounting KIT Edgelit 1x4 R9003	93094144	-												
		Suspension kit for LED panel 2*2 / 2 sets	93055969	-												
		Suspension kit for LED panel 1*4 / 2 sets	93060875	-												
		Plasterboard Mount KIT for Edgelit	93082882	-												
		EMBM02-3-N (Emergency converter box)	93082880	-												



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2

LED Indoor Solutions / LED Fundamental Fixtures

Wattage (W)	Product Description	GE Product Code	Tungram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)	Model
T5 Batten ECO - Static driver															
4.5	LBTE 4.5 NW 1ft ECO	93044235	-	400	4000	30k	20	89	80+	311.5x25.9x37.3	-20 to +40	A+	0.07	170	3
4.5	LBTE 4.5 WW 1ft ECO	93044476	-	350	3000	30k	20	78	80+	311.5x25.9x37.3	-20 to +40	A+	0.07	170	3
4.5	LBTE 4.5 DL 1ft ECO	93084194	-	400	4000	30k	20	89	80+	311.5x25.9x37.3	-20 to +40	A+	0.07	170	3
8	LBTE 8 NW 2ft ECO	93044477	-	800	4000	30k	20	100	80+	581.5x25.9x37.3	-20 to +40	A+	0.11	170	3
8	LBTE 8 WW 2ft ECO	93044478	-	750	3000	30k	20	94	80+	581.5x25.9x37.3	-20 to +40	A+	0.11	170	3
8	LBTE 8 DL 2ft ECO	93084195	-	800	4000	30k	20	100	80+	581.5x25.9x37.3	-20 to +40	A+	0.11	170	3
12	LBTE 12 NW 3ft ECO	93044479	-	1 200	4000	30k	20	100	80+	881.5x25.9x37.3	-20 to +40	A+	0.16	170	3
12	LBTE 12 WW 3ft ECO	93044480	-	1 100	3000	30k	20	92	80+	881.5x25.9x37.3	-20 to +40	A+	0.16	170	3
12	LBTE 12 DL 3ft ECO	93084446	-	1 200	4000	30k	20	100	80+	881.5x25.9x37.3	-20 to +40	A+	0.16	170	3
16	LBTE 16 NW 4ft ECO	93044481	-	1 550	4000	30k	20	97	80+	1181.5x25.9x37.3	-20 to +40	A+	0.21	170	3
16	LBTE 16 WW 4ft ECO	93044482	-	1 450	3000	30k	20	91	80+	1181.5x25.9x37.3	-20 to +40	A+	0.21	170	3
16	LBTE 16 DL 4ft ECO	93084447	-	1 550	4000	30k	20	97	80+	1181.5x25.9x37.3	-20 to +40	A+	0.21	170	3

T5 Batten ECO Accessories															
	Power cord without plug	93044483	-												4
	Extension cord	93044484	-												5
	Power cable 1m with EU plug	93066758	-												
	Power cable 1m with UK plug	93066759	-												

T5 Batten Switch - Static driver															
4.5	LBTE 4.5 NW 1ft SWITCH	93053138	-	400	4000	30k	20	89	80+	311.5x25.9x37.3	-20 to 40	A+	0.07	170	6
4.5	LBTE 4.5 WW 1ft SWITCH	93053139	-	350	3000	30k	20	78	80+	311.5x25.9x37.3	-20 to 40	A+	0.07	170	6
4.5	LBTE 4.5 DL 1ft SWITCH	93084448	-	400	4000	30k	20	89	80+	311.5x25.9x37.3	-20 to 40	A+	0.07	170	6
8	LBTE 8 NW 2ft SWITCH	93053140	-	800	4000	30k	20	100	80+	581.5x25.9x37.3	-20 to 40	A+	0.11	170	6
8	LBTE 8 WW 2ft SWITCH	93053141	-	750	3000	30k	20	94	80+	581.5x25.9x37.3	-20 to 40	A+	0.11	170	6
8	LBTE 8 DL 2ft SWITCH	93084449	-	800	4000	30k	20	100	80+	581.5x25.9x37.3	-20 to 40	A+	0.11	170	6
12	LBTE 12 NW 3ft SWITCH	93053142	-	1 200	4000	30k	20	100	80+	881.5x25.9x37.3	-20 to 40	A+	0.16	170	6
12	LBTE 12 WW 3ft SWITCH	93053143	-	1 100	3000	30k	20	92	80+	881.5x25.9x37.3	-20 to 40	A+	0.16	170	6
12	LBTE 12 DL 3ft SWITCH	93084450	-	1 200	4000	30k	20	100	80+	881.5x25.9x37.3	-20 to 40	A+	0.16	170	6
16	LBTE 16 NW 4ft SWITCH	93053144	-	1 550	4000	30k	20	97	80+	1181.5x25.9x37.3	-20 to 40	A+	0.21	170	6
16	LBTE 16 WW 4ft SWITCH	93053145	-	1 450	3000	30k	20	91	80+	1181.5x25.9x37.3	-20 to 40	A+	0.21	170	6
16	LBTE 16 DL 4ft SWITCH	93084451	-	1 550	4000	30k	20	97	80+	1181.5x25.9x37.3	-20 to 40	A+	0.21	170	6



3

4

5

6

LED Indoor Solutions / LED Fundamental Fixtures

LED Indoor Solutions / LED Fundamental Fixtures

Model	Wattage (W)	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)
ECO Downlighter - Static driver															
1	11	DM6L2SP30/C G3	93053257	-	1 045	3000	45k	20	95	80+	ø195x120	0 to +40	A+	0.5	95±12
1	11	DM6L2SP40/C G3	93053258	-	1 100	4000	45k	20	100	80+	ø195x120	0 to +40	A+	0.5	95±12
1	11	DM6L2SP65/C G3	93053259	-	1 100	6500	45k	20	100	80+	ø195x120	0 to +40	A+	0.5	95±12
1	16	DM6L4SP30/C G3	93053260	-	1 520	3000	45k	20	95	80+	ø195x120	0 to +40	A+	0.55	95±12
1	16	DM6L4SP40/C G3	93053261	-	1 600	4000	45k	20	100	80+	ø195x120	0 to +40	A+	0.55	95±12
1	16	DM6L4SP65/C G3	93053262	-	1 600	6500	45k	20	100	80+	ø195x120	0 to +40	A+	0.55	95±12
1	16	DM8L1SP30/C G3	93053263	-	1 520	3000	45k	20	95	80+	ø247x133	0 to +40	A+	0.9	95±12
1	16	DM8L1SP40/C G3	93053264	-	1 600	4000	45k	20	100	80+	ø247x133	0 to +40	A+	0.9	95±12
1	16	DM8L1SP65/C G3	93053265	-	1 600	6500	45k	20	100	80+	ø247x133	0 to +40	A+	0.9	95±12
1	22	DM8L2SP30/C G3	93053266	-	2 090	3000	45k	20	95	80+	ø247x133	0 to +40	A+	0.95	95±12
1	22	DM8L2SP40/C G3	93053267	-	2 200	4000	45k	20	100	80+	ø247x133	0 to +40	A+	0.95	95±12
1	22	DM8L2SP65/C G3	93053268	-	2 200	6500	45k	20	100	80+	ø247x133	0 to +40	A+	0.95	95±12
Diffuser Downlight - Static driver															
2	11	DDTW6-1130-7SB-STC	93057436	-	1 100	3000	45k	20	100	80+	ø180x81	-10 to +40	A+	0.32	100+/-15°
2	11	DDTW6-1140-7SB-STC	93057437	-	1 100	4000	45k	20	100	80+	ø180x81	-10 to +40	A+	0.32	100+/-15°
2	11	DDTW6-1165-7SB-STC	93057438	-	1 100	6500	45k	20	100	80+	ø180x81	-10 to +40	A+	0.32	100+/-15°
2	15	DDTW6-1530-7SB-STC	93057439	-	1 500	3000	45k	20	100	80+	ø180x81	-10 to +40	A+	0.32	100+/-15°
2	15	DDTW6-1540-7SB-STC	93057440	-	1 500	4000	45k	20	100	80+	ø180x81	-10 to +40	A+	0.32	100+/-15°
2	15	DDTW6-1565-7SB-STC	93057441	-	1 500	6500	45k	20	100	80+	ø180x81	-10 to +40	A+	0.32	100+/-15°
2	15	DDTW8-1530-7SB-STC	93057442	-	1 500	3000	45k	20	100	80+	ø240x93	-10 to +40	A+	0.48	100+/-15°
2	15	DDTW8-1540-7SB-STC	93057443	-	1 500	4000	45k	20	100	80+	ø240x93	-10 to +40	A+	0.48	100+/-15°
2	15	DDTW8-1565-7SB-STC	93057444	-	1 500	6500	45k	20	100	80+	ø240x93	-10 to +40	A+	0.48	100+/-15°
2	22	DDTW8-2230-7SB-STC	93057445	-	2 200	3000	45k	20	100	80+	ø240x93	-10 to +40	A+	0.5	100+/-15°
2	22	DDTW8-2240-7SB-STC	93057446	-	2 200	4000	45k	20	100	80+	ø240x93	-10 to +40	A+	0.5	100+/-15°
2	22	DDTW8-2265-7SB-STC	93057447	-	2 200	6500	45k	20	100	80+	ø240x93	-10 to +40	A+	0.5	100+/-15°
		DDTW6 accessory ring	93064214	-											



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3



4

Wattage (W)	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)	Model
Slim Downlight - Static driver															
12	DSTW6-1230-7SR-ST	93064747	-	1 080	3000	45k	40	90	80+	ø180x36	-10 to +40	A+	0.31	110+/-12°	3
12	DSTW6-1240-7SR-ST	93064748	-	1 080	4000	45k	40	90	80+	ø180x36	-10 to +40	A+	0.31	110+/-12°	3
12	DSTW6-1265-7SR-ST	93064749	-	1 080	6500	45k	40	90	80+	ø180x36	-10 to +40	A+	0.31	110+/-12°	3
18	DSTW8-1830-7SR-ST	93064753	-	1 530	3000	45k	40	85	80+	ø240x36	-10 to +40	A+	0.52	110+/-12°	3
18	DSTW8-1840-7SR-ST	93064754	-	1 620	4000	45k	40	90	80+	ø240x36	-10 to +40	A+	0.52	110+/-12°	3
18	DSTW8-1865-7SR-ST	93064755	-	1 620	6500	45k	40	90	80+	ø240x36	-10 to +40	A+	0.52	110+/-12°	3
22	DSTW8-2230-7SR-ST	93068480	-	2 000	3000	45k	40	91	80+	ø240x36	-10 to +40	A+	0.52	110+/-12°	3
22	DSTW8-2240-7SR-ST	93068481	-	2 000	4000	45k	40	91	80+	ø240x36	-10 to +40	A+	0.52	110+/-12°	3
22	DSTW8-2265-7SR-ST	93068482	-	2 000	6500	45k	40	91	80+	ø240x36	-10 to +40	A+	0.52	110+/-12°	3
Slim Downlight - DALI driver															
12	DSTW6-1230-7DR-ST	93071362	-	1 080	3000	45k	40/20	90	80+	ø180x43	-10 to +40	A+	0.44	110+/-12°	3
12	DSTW6-1240-7DR-ST	93071363	-	1 080	4000	45k	40/20	90	80+	ø180x43	-10 to +40	A+	0.44	110+/-12°	3
12	DSTW6-1265-7DR-ST	93071364	-	1 080	6500	45k	40/20	90	80+	ø180x43	-10 to +40	A+	0.44	110+/-12°	3
22	DSTW8-2230-7DR-ST	93071365	-	2 000	3000	45k	40/20	91	80+	ø240x43	-10 to +40	A+	0.63	110+/-12°	3
22	DSTW8-2240-7DR-ST	93071396	-	2 000	4000	45k	40/20	91	80+	ø240x43	-10 to +40	A+	0.63	110+/-12°	3
22	DSTW8-2265-7DR-ST	93071397	-	2 000	6500	45k	40/20	91	80+	ø240x43	-10 to +40	A+	0.63	110+/-12°	3
Recessed Spotlight - Static driver															
6	RSTA-D7-627-7SR-40	93082119	-	480	2700	30k	20	90	80+	ø88x34.5	-10 to +40	A+	0.17	40	4
6	RSTA-D7-630-7SR-40	93066765	-	550	3000	30k	20	90	80+	ø88x34.5	-10 to +40	A+	0.17	40	4
6	RSTA-D7-640-7SR-40	93066766	-	550	4000	30k	20	90	80+	ø88x34.5	-10 to +40	A+	0.17	40	4
6	RSTA-D7-665-7SR-40	93066767	-	550	6500	30k	20	90	80+	ø88x34.5	-10 to +40	A+	0.17	40	4
5	LED Downlight Start GE 3" 5W 830 EU	93092693	-	300	3000	10k	20	60	80+	ø105x34.5	-10 to +40	A+	0.05	110	4
5	LED Downlight Start GE 3" 5W 840 EU	93092694	-	300	4000	10k	20	60	80+	ø105x34.5	-10 to +40	A+	0.05	110	4
5	LED Downlight Start GE 3" 5W 865 EU	93092695	-	300	6500	10k	20	60	80+	ø105x34.5	-10 to +40	A+	0.05	110	4
7	LED Downlight Start GE 3" 7W 830 EU	93092696	-	420	3000	10k	20	60	80+	ø105x34.5	-10 to +40	A+	0.05	110	4
7	LED Downlight Start GE 3" 7W 840 EU	93092697	-	420	4000	10k	20	60	80+	ø105x34.5	-10 to +40	A+	0.05	110	4
7	LED Downlight Start GE 3" 7W 865 EU	93092698	-	420	6500	10k	20	60	80+	ø105x34.5	-10 to +40	A+	0.05	110	4



3



4

LED Indoor Solutions / LED Fundamental Fixtures

LED Indoor Solutions / LED Fundamental Fixtures

Model	Wattage (W)	Product Description	GE Product Code	Tungfram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)	Additional feature
2D Bulkhead - Static driver																
1	6.5	BH 2DC- D27-6,5/35-7S-ST	93055623	-	800	3500	40k	54	123	80+	ø268 x 98	-10 to +25	A++	0.668	-	-
1	6.5	BH 2DC- D27-6,5/40-7S-ST	93055624	-	830	4000	40k	54	128	80+	ø268 x 98	-10 to +25	A++	0.668	-	-
1	12.5	BH 2DC- D36-12,5/35-7S-ST	93055625	-	1500	3500	40k	54	120	80+	ø363 x 115	-10 to +25	A++	1.154	-	-
1	12.5	BH 2DC- D36-12,5/40-7S-ST	93056106	-	1550	4000	40k	54	124	80+	ø363 x 115	-10 to +25	A++	1.154	-	-
1	6.5	BH 2DO- D27-6,5/35-7S-ST	93057382	-	700	3500	40k	54	108	80+	ø268 x 98	-10 to +25	A++	0.661	-	-
1	6.5	BH 2DO- D27-6,5/40-7S-ST	93057383	-	720	4000	40k	54	111	80+	ø268 x 98	-10 to +25	A++	0.661	-	-
1	12.5	BH 2DO- D36-12,5/35-7S-ST	93057384	-	1300	3500	40k	54	104	80+	ø363 x 115	-10 to +25	A++	1.146	-	-
1	12.5	BH 2DO- D36-12,5/40-7S-ST	93057385	-	1400	4000	40k	54	112	80+	ø363 x 115	-10 to +25	A++	1.146	-	-
Integrated Bulkhead - Static driver																
2	9	BHTD25-09307S-NNN	93072705	-	855	3000	45k	65	95	80+	Ø250 x 102	-30 to +40	A+	0.69	125	Motion and daylight sensor
2	9	BHTD25-09407S-NNN	93073527	-	855	4000	45k	65	95	80+	Ø250 x 102	-30 to +40	A+	0.69	125	
2	9	BHTD25-09657S-NNN	93073529	-	855	6500	45k	65	95	80+	Ø250 x 102	-30 to +40	A+	0.69	125	
2	17	BHTD25-17307S-NNN	93073531	-	1600	3000	45k	65	94	80+	Ø250 x 102	-30 to +40	A+	0.7	125	
2	17	BHTD25-17407S-NNN	93073533	-	1600	4000	45k	65	94	80+	Ø250 x 102	-30 to +40	A+	0.7	125	
2	17	BHTD25-17657S-NNN	93073535	-	1600	6500	45k	65	94	80+	Ø250 x 102	-30 to +40	A+	0.7	125	
2	17	BHTD30-17307S-NNN	93083843	-	1600	3000	45k	65	94	80+	Ø300 x 109	-30 to +40	A+	1	125	
2	17	BHTD30-17407S-NNN	93083844	-	1600	4000	45k	65	94	80+	Ø300 x 109	-30 to +40	A+	1	125	
2	17	BHTD30-17657S-NNN	93083845	-	1600	6500	45k	65	94	80+	Ø300 x 109	-30 to +40	A+	1	125	
2	25	BHTD30-25307S-NNN	93073543	-	2400	3000	45k	65	96	80+	Ø300 x 109	-30 to +40	A+	1	125	
2	25	BHTD30-25407S-NNN	93073544	-	2400	4000	45k	65	96	80+	Ø300 x 109	-30 to +40	A+	1	125	
2	25	BHTD30-25657S-NNN	93073545	-	2400	6500	45k	65	96	80+	Ø300 x 109	-30 to +40	A+	1	125	
2	9	BHTD25-09307S-NNM	93073526	-	855	3000	45k	65	95	80+	Ø250 x 102	-30 to +40	A+	0.74	125	
2	9	BHTD25-09407S-NNM	93073528	-	855	4000	45k	65	95	80+	Ø250 x 102	-30 to +40	A+	0.74	125	
2	9	BHTD25-09657S-NNM	93073530	-	855	6500	45k	65	95	80+	Ø250 x 102	-30 to +40	A+	0.74	125	
2	17	BHTD25-17307S-NNM	93073532	-	1600	3000	45k	65	94	80+	Ø250 x 102	-30 to +40	A+	0.75	125	
2	17	BHTD25-17407S-NNM	93073534	-	1600	4000	45k	65	94	80+	Ø250 x 102	-30 to +45	A+	0.75	125	3hrs EM
2	17	BHTD25-17657S-NNM	93073536	-	1600	6500	45k	65	94	80+	Ø250 x 102	-30 to +45	A+	0.75	125	
2	17	BHTD30-17307S-NNM	93083856	-	1600	3000	45k	65	94	80+	Ø300 x 109	-30 to +45	A+	1.05	125	
2	17	BHTD30-17407S-NNM	93083857	-	1600	4000	45k	65	94	80+	Ø300 x 109	-30 to +45	A+	1.05	125	
2	17	BHTD30-17657S-NNM	93083858	-	1600	6500	45k	65	94	80+	Ø300 x 109	-30 to +45	A+	1.05	125	Motion and daylight sensor + 3hrs EM
2	25	BHTD30-25307S-NNM	93073546	-	2400	3000	45k	65	96	80+	Ø300 x 109	-30 to +45	A+	1.05	125	
2	25	BHTD30-25407S-NNM	93073547	-	2400	4000	45k	65	96	80+	Ø300 x 109	-30 to +45	A+	1.05	125	
2	25	BHTD30-25657S-NNM	93073548	-	2400	6500	45k	65	96	80+	Ø300 x 109	-30 to +45	A+	1.05	125	
2	20	BHTD30-20307S-EMN	93083859	-	1600	3000	45k	65	80	80+	Ø300 x 109	-30 to +25	A+	1.2	125	
2	20	BHTD30-20407S-EMN	93083860	-	1600	4000	45k	65	80	80+	Ø300 x 109	-30 to +25	A+	1.2	125	
2	20	BHTD30-20657S-EMN	93083861	-	1600	6500	45k	65	80	80+	Ø300 x 109	-30 to +25	A+	1.2	125	
2	24	BHTD30-24307S-EMN	93073537	-	2150	3000	45k	65	90	80+	Ø300 x 109	-30 to +25	A+	1.2	125	
2	24	BHTD30-24407S-EMN	93073538	-	2150	4000	45k	65	90	80+	Ø300 x 109	-30 to +25	A+	1.2	125	
2	24	BHTD30-24657S-EMN	93073539	-	2150	6500	45k	65	90	80+	Ø300 x 109	-30 to +25	A+	1.2	125	
2	20	BHTD30-20307S-EMM	93083862	-	1600	3000	45k	65	80	80+	Ø300 x 109	-30 to +25	A+	1.25	125	
2	20	BHTD30-20407S-EMM	93083863	-	1600	4000	45k	65	80	80+	Ø300 x 109	-30 to +25	A+	1.25	125	
2	20	BHTD30-20657S-EMM	93083864	-	1600	6500	45k	65	80	80+	Ø300 x 109	-30 to +25	A+	1.25	125	
2	24	BHTD30-24307S-EMM	93073540	-	2150	3000	45k	65	90	80+	Ø300 x 109	-30 to +25	A+	1.25	125	
2	24	BHTD30-24407S-EMM	93073541	-	2150	4000	45k	65	90	80+	Ø300 x 109	-30 to +25	A+	1.25	125	
2	24	BHTD30-24657S-EMM	93073542	-	2150	6500	45k	65	90	80+	Ø300 x 109	-30 to +25	A+	1.25	125	



Wattage (W)	Product Description	GE Product Code	Tungfram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)	Model
Waterproof Mariner Integrated Premium - Static driver															
20	MPY4F-2040-7SB-STLT	93055991	-	2 500	4000	50k	65	125	80+	66x1170x63	-20 to +40	A+	0.87	125	3
20	MPY4F-2065-7SB-STLT	93055993	-	2 500	6500	50k	65	125	80+	66x1170x63	-20 to +40	A+	0.87	125	3
30	MPY4F-3040-7SB-STLT	93055995	-	3 800	4000	50k	65	127	80+	66x1170x63	-20 to +40	A+	0.87	125	3
30	MPY4F-3065-7SB-STLT	93055997	-	3 800	6500	50k	65	127	80+	66x1170x63	-20 to +40	A+	0.87	125	3
30	MPY5F-3040-7SB-STLT	93055999	-	3 650	4000	50k	65	122	80+	66x1470x63	-20 to +40	A+	1.07	125	3
30	MPY5F-3065-7SB-STLT	93056001	-	3 650	6500	50k	65	122	80+	66x1470x63	-20 to +40	A+	1.07	125	3
49	MPY5F-4940-7SB-STLT	93056003	-	6 200	4000	50k	65	127	80+	66x1470x63	-20 to +40	A+	1.12	125	3
49	MPY5F-4965-7SB-STLT	93056005	-	6 200	6500	50k	65	127	80+	66x1470x63	-20 to +40	A+	1.12	125	3
70	MPY5F-7040-7SB-STLT	93090173	-	9 000	4000	50k	65	129	80+	66x1470x63	-20 to +40	A+	1.12	125	3
70	MPY5F-7065-7SB-STLT	93090174	-	9 000	6500	50k	65	129	80+	66x1470x63	-20 to +40	A+	1.12	125	3
Waterproof Mariner Integrated Premium - Motion Sensor - Static driver															
21	MPY4F-2140-7SB-MSLT	93090283	-	2 500	4000	50k	65	119	80+	66x1170x63	-20 to +40	A+	0.87	125	3
21	MPY4F-2165-7SB-MSLT	93092663	-	2 500	6500	50k	65	119	80+	66x1170x63	-20 to +40	A+	0.87	125	3
31	MPY4F-3140-7SB-MSLT	93090284	-	3 800	4000	50k	65	123	80+	66x1170x63	-20 to +40	A+	0.87	125	3
31	MPY4F-3165-7SB-MSLT	93092664	-	3 800	6500	50k	65	123	80+	66x1170x63	-20 to +40	A+	0.87	125	3
31	MPY5F-3140-7SB-MSLT	93090285	-	3 650	4000	50k	65	118	80+	66x1470x63	-20 to +40	A+	1.07	125	3
31	MPY5F-3165-7SB-MSLT	93092665	-	3 650	6500	50k	65	118	80+	66x1470x63	-20 to +40	A+	1.07	125	3
49	MPY5F-4940-7SB-MSLT	93090316	-	6 200	4000	50k	65	127	80+	66x1470x63	-20 to +40	A+	1.12	125	3
49	MPY5F-4965-7SB-MSLT	93092676	-	6 200	6500	50k	65	127	80+	66x1470x63	-20 to +40	A+	1.12	125	3
70	MPY5F-7040-7SB-MSLT	93092678	-	9 000	4000	50k	65	129	80+	66x1470x63	-20 to +40	A+	1.12	125	3
70	MPY5F-7065-7SB-MSLT	93092677	-	9 000	6500	50k	65	129	80+	66x1470x63	-20 to +40	A+	1.12	125	3
23	MPY4F-2340-7SB-EMLT	93055992	-	2 500	4000	50k	65	109	80+	66x1197x63	-20 to +25	A+	1.35	125	3
Waterproof Mariner Integrated Premium - Emergency - Static driver															
23	MPY4F-2340-7SB-EMLT	93055992	-	2 500	4000	50k	65	109	80+	66x1197x63	-20 to +25	A+	1.35	125	3
23	MPY4F-2365-7SB-EMLT	93055994	-	2 500	6500	50k	65	109	80+	66x1197x63	-20 to +25	A+	1.35	125	3
34	MPY4F-3440-7SB-EMLT	93055996	-	3 800	4000	50k	65	112	80+	66x1197x63	-20 to +25	A+	1.35	125	3
34	MPY4F-3465-7SB-EMLT	93055998	-	3 800	6500	50k	65	112	80+	66x1497x63	-20 to +25	A+	1.57	125	3
33	MPY5F-3340-7SB-EMLT	93056000	-	3 650	4000	50k	65	111	80+	66x1497x63	-20 to +25	A+	1.57	125	3
33	MPY5F-3365-7SB-EMLT	93056002	-	3 650	6500	50k	65	111	80+	66x1497x63	-20 to +25	A+	1.60	125	3
52	MPY5F-5240-7SB-EMLT	93056004	-	6 200	4000	50k	65	119	80+	66x1497x63	-20 to +25	A+	1.60	125	3
52	MPY5F-5265-7SB-EMLT	93056006	-	6 200	6500	50k	65	119	80+	66x1497x63	-20 to +25	A+	1.60	125	3
Waterproof Mariner - Integrated Accessory															
	Metal clips for Integrated Mariner	93094134	-												4
	Mariner Suspension Kit	93093387	-												5

LED Indoor Solutions / LED Fundamental Fixtures

Model	Wattage (W)	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)
Waterproof Mariner - Integrated Start - Static driver															
1	12	LED Mariner ST G1 GE 2' 12W 840 S EU	93092699	-	1 200	4000	30k	65	100	80+	72x600x58	-20 to +25	A+	0.70	120
1	12	LED Mariner ST G1 GE 2' 12W 865 S EU	93092700	-	1 200	6500	30k	65	100	80+	72x600x58	-20 to +25	A+	0.70	120
1	24	LED Mariner ST G1 GE 2' 24W 840 S EU	93090163	-	2 400	4000	30k	65	100	80+	92x600x60	-20 to +25	A+	0.80	120
1	24	LED Mariner ST G1 GE 2' 24W 865 S EU	93090164	-	2 400	6500	30k	65	100	80+	92x600x60	-20 to +25	A+	0.80	120
1	24	LED Mariner ST G1 GE 4' 24W 840 S EU	93092701	-	2 400	4000	30k	65	100	80+	72x1200x58	-20 to +25	A+	1.30	120
1	24	LED Mariner ST G1 GE 4' 24W 865 S EU	93092702	-	2 400	6500	30k	65	100	80+	72x1200x58	-20 to +25	A+	1.30	120
1	48	LED Mariner ST G1 GE 4' 48W 840 S EU	93088134	-	4 800	4000	30k	65	100	80+	92x1200x60	-20 to +25	A+	1.70	120
1	48	LED Mariner ST G1 GE 4' 48W 865 S EU	93089020	-	4 800	6500	30k	65	100	80+	92x1200x60	-20 to +25	A+	1.70	120
1	28	LED Mariner ST G1 GE 5' 28W 840 S EU	93092703	-	2 800	4000	30k	65	100	80+	72x1500x58	-20 to +25	A+	1.70	120
1	28	LED Mariner ST G1 GE 5' 28W 865 S EU	93092704	-	2 800	6500	30k	65	100	80+	72x1500x58	-20 to +25	A+	1.70	120
1	56	LED Mariner ST G1 GE 5' 56W 840 S EU	93089017	-	5 600	4000	30k	65	100	80+	92x1500x60	-20 to +25	A+	2.00	120
1	56	LED Mariner ST G1 GE 5' 56W 865 S EU	93089023	-	5 600	6500	30k	65	100	80+	92x1500x60	-20 to +25	A+	2.00	120
Waterproof Mariner - Empty Body															
2	max 18W	LED MARINER Body T8 SINGLE 1200MM	93052188					65			1270x65x70				
2	max 2x18W	LED MARINER Body T8 TWIN 1200MM	93052189					65			1270x102x70				
2	max 27W	LED MARINER Body T8 SINGLE 1500MM	93052190					65			1570x65x70				
2	max 2x27W	LED MARINER Body T8 TWIN 1500MM	93052191					65			1570x102x70				
Floodlight - Static driver															
3	20	FL-YP1-2040-7S-BN	93081605	-	2 000	4000	30k	65	100	80+	163x36x163	-20 to +40	A+	0,62	100 w/o reflector
3	20	FL-YP1-2065-7S-BN	93082101	-	2 000	6500	30k	65	100	80+	163x36x163	-20 to +40	A+	0,62	
3	30	FL-YP1-3040-7S-BN	93082096	-	3 000	4000	30k	65	100	80+	203x36x202	-20 to +40	A+	0,97	
3	30	FL-YP1-3065-7S-BN	93082102	-	3 000	6500	30k	65	100	80+	203x36x202	-20 to +40	A+	0,97	
4	50	FL-YP1-5040-7S-BN	93082097	-	6 000	4000	30k	65	120	80+	223x36x216	-20 to +40	A+	1,14	120 w/o reflector
4	50	FL-YP1-5065-7S-BN	93082103	-	6 000	6500	30k	65	120	80+	223x36x216	-20 to +40	A+	1,14	
4	75	FL-YP1-7540-7S-BN	93082098	-	10 000	4000	50k	66	133	80+	286x91x368	-30 to +50	A+	3,29	
4	75	FL-YP1-7565-7S-BN	93082104	-	10 000	6500	50k	66	133	80+	286x91x368	-30 to +50	A+	3,29	
4	115	FL-YP1-11540-7S-BN	93082099	-	15 000	4000	50k	66	130	80+	337x91x419	-30 to +50	A+	4,20	
4	115	FL-YP1-11565-7S-BN	93082105	-	15 000	6500	50k	66	130	80+	337x91x419	-30 to +50	A+	4,20	
4	150	FL-YP1-15040-7S-BN	93082100	-	20 000	4000	50k	66	133	80+	373x91x450	-30 to +50	A+	5,33	100 w/o reflector
4	150	FL-YP1-15065-7S-BN	93082106	-	20 000	6500	50k	66	133	80+	373x91x450	-30 to +50	A+	5,33	
Floodlight Sensor - Static driver															
5	20	FL-YP1-2040-7S-BM	93094146	-	2 000	4000	30k	65	100	80+	263x36x163	-20 to +40	A+	0,62	100 w/o reflector
5	20	FL-YP1-2065-7S-BM	93094147	-	2 000	6500	30k	65	100	80+	263x36x163	-20 to +40	A+	0,62	
6	30	FL-YP1-3040-7S-BM	93094148	-	3 000	4000	30k	65	100	80+	303x36x202	-20 to +40	A+	0,97	
6	30	FL-YP1-3065-7S-BM	93094149	-	3 000	6500	30k	65	100	80+	303x36x202	-20 to +40	A+	0,97	
6	50	FL-YP1-5040-7S-BM	93094150	-	6 000	4000	30k	65	120	80+	323x36x216	-20 to +40	A+	1,14	
6	50	FL-YP1-5065-7S-BM	93094151	-	6 000	6500	30k	65	120	80+	323x36x216	-20 to +40	A+	1,14	



LED Indoor Solutions / LED Industrial Fixtures

LED Indoor Solutions / LED Industrial Fixtures

Product ID	Module / Efficiency / Lumen	CCT / CRI	Optic	Control	Mounting	Options	CE	Brand
High bay ABV2 G2								
ABVG2	1S10-St 1M 10klm	47-4000K CRI70 57-5000K CRI70 48-4000K CRI80 58-5000K CRI80	C1-120° Clear D1-120° Diffuse C9-90° Clear L5-55° Lens L3-30° Lens	F-Fix output D-DALI S-Sensor (Motion&Lux) R-RF Sensor (Motion&Lux)	ST-Standard	N	CE	TU - Tungsram GE - GE
	1S20-St 1M 20klm							
	2S25-St 2M 25klm							
	2S40-St 2M 40klm							
	1H10-Hi 1M 10klm							
	2H20-Hi 2M 20klm							
	2H30-Hi 2M 30klm							
	3H40-Hi 3M 40klm							

Module / Efficiency / Lumen	5000K 70CRI Clear 120° Optics DALI Driver			
	Module	Power(W)*	Lumen	lm/W
1S10	1	68	11600	171
1S20	1	139	23400	168
2S25	2	186	29100	156
2S40	2	277	46900	169
1H10	1	63	11700	186
2H20	2	125	23400	187
2H30	2	196	34600	177
3H40	3	264	46900	178

* Fix output and sensor versions could have slightly different values

CCT/CRI multipliers	
57	100%
58	96%
47	96%
48	95%

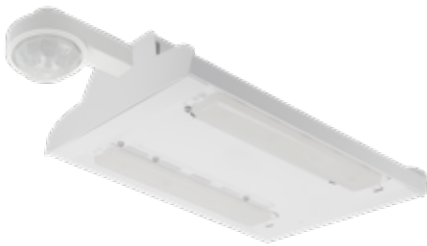
Optical multipliers	
C1	100%
D1	95%
C9	97%
L3	97%
L5	97%



Fix output / DALI



S (Wattstopper)



RF (CP) Sensor

High bay ABV2 G2 accessories

ABV2 TKIT	93061745	-
ABV2 RKIT	93062906	-
1500MM GRIPPLE PAIR FOR HIGHBAY	93091603	-
3000MM GRIPPLE PAIR FOR HIGHBAY	93091604	-
4500MM GRIPPLE PAIR FOR HIGHBAY	93091605	-
6000MM GRIPPLE PAIR FOR HIGHBAY	93091686	-
WS FSIR-100 PROGRAMMER / Remote controller for WattStopper	197634	-
CH C DHS / Remote controller for CP RF Sensor	528681	-

Wattage (W)	Product Description	GE Product Code	Tungsram Product Code	Lumen (lm)	CCT (K)	Controls	Rated life L70 (h)	IP	System Efficiency (lm/W)	CRI (Ra)	Dimensions (mm)	Ambient Temperature	EEC	Weight (kg)	Beam angle (°)	Diffuser Type	Model
High bay IP66 - Dali/1-10V driver																	
95	HB1IP662471VNSTCE	TBD	-	12 900	4000	1-10V driver	61k	66	136	70	350x143x350	-30 to +55	A+	8,40	120	Clear	1
95	HB1IP662475VNSTCE	TBD	-	12 100	4000	1-10V driver	61k	66	127	70	350x143x350	-30 to +55	A+	8,40	55	Clear	1
95	HB1IP662479VNSTCE	TBD	-	12 600	4000	1-10V driver	61k	66	133	70	350x143x350	-30 to +55	A+	8,40	90	Clear	1
95	HB1IP662481VNSTCE	93069183	-	11 800	4000	1-10V driver	61k	66	124	80	350x143x350	-30 to +55	A+	8,40	120	Clear	1
95	HB1IP662485VNSTCE	TBD	-	11 000	4000	1-10V driver	61k	66	116	80	350x143x350	-30 to +55	A+	8,40	55	Clear	1
95	HB1IP662489VNSTCE	TBD	-	11 400	4000	1-10V driver	61k	66	120	80	350x143x350	-30 to +55	A+	8,40	90	Clear	1
95	HB1IP662571VNSTCE	TBD	-	12 800	5000	1-10V driver	61k	66	135	70	350x143x350	-30 to +55	A+	8,40	120	Clear	1
95	HB1IP662575VNSTCE	TBD	-	12 000	5000	1-10V driver	61k	66	126	70	350x143x350	-30 to +55	A+	8,40	55	Clear	1
95	HB1IP662579VNSTCE	93082491	-	12 400	5000	1-10V driver	61k	66	131	70	350x143x350	-30 to +55	A+	8,40	90	Clear	1
95	HB1IP662581VNSTCE	93087129	-	11 900	5000	1-10V driver	61k	66	125	80	350x143x350	-30 to +55	A+	8,40	120	Clear	1
95	HB1IP662585VNSTCE	TBD	-	11 100	5000	1-10V driver	61k	66	117	80	350x143x350	-30 to +55	A+	8,40	55	Clear	1
95	HB1IP662589VNSTCE	TBD	-	11 500	5000	1-10V driver	61k	66	121	80	350x143x350	-30 to +55	A+	8,40	90	Clear	1
157	HB1IP663471DNSTCE	93073335	-	21 300	4000	DALI driver	61k	66	136	70	350x143x350	-30 to +55	A+	8,20	120	Clear	1
157	HB1IP663475DNSTCE	93084190	-	19 900	4000	DALI driver	61k	66	127	70	350x143x350	-30 to +55	A+	8,20	55	Clear	1
157	HB1IP663479DNSTCE	TBD	-	20 600	4000	DALI driver	61k	66	131	70	350x143x350	-30 to +55	A+	8,20	90	Clear	1
157	HB1IP663481DNSTCE	93069187	-	19 400	4000	DALI driver	61k	66	124	80	350x143x350	-30 to +55	A+	8,20	120	Clear	1
157	HB1IP663485DNSTCE	93076735	-	18 100	4000	DALI driver	61k	66	115	80	350x143x350	-30 to +55	A+	8,20	55	Clear	1
157	HB1IP663489DNSTCE	93076836	-	18 800	4000	DALI driver	61k	66	120	80	350x143x350	-30 to +55	A+	8,20	90	Clear	1
157	HB1IP663571DNSTCE	93069188	-	21 100	5000	DALI driver	61k	66	134	70	350x143x350	-30 to +55	A+	8,20	120	Clear	1
157	HB1IP663575DNSTCE	TBD	-	19 800	5000	DALI driver	61k	66	126	70	350x143x350	-30 to +55	A+	8,20	55	Clear	1
157	HB1IP663579DNSTCE	TBD	-	20 400	5000	DALI driver	61k	66	130	70	350x143x350	-30 to +55	A+	8,20	90	Clear	1
157	HB1IP663581DNSTCE	TBD	-	19 600	5000	DALI driver	61k	66	125	80	350x143x350	-30 to +55	A+	8,20	120	Clear	1
157	HB1IP663585DNSTCE	TBD	-	18 300	5000	DALI driver	61k	66	117	80	350x143x350	-30 to +55	A+	8,20	55	Clear	1
157	HB1IP663589DNSTCE	TBD	-	18 900	5000	DALI driver	61k	66	120	80	350x143x350	-30 to +55	A+	8,20	90	Clear	1
190	HB1IP664471VNSTCE	93087128	-	26 000	4000	1-10V driver	61k	66	137	70	350x143x350	-30 to +50	A+	9,00	120	Clear	1
190	HB1IP664475VNSTCE	TBD	-	24 500	4000	1-10V driver	61k	66	129	70	350x143x350	-30 to +50	A+	9,00	55	Clear	1
190	HB1IP664479VNSTCE	TBD	-	25 300	4000	1-10V driver	61k	66	133	70	350x143x350	-30 to +50	A+	9,00	90	Clear	1
190	HB1IP664481VNSTCE	93069184	-	23 800	4000	1-10V driver	61k	66	125	80	350x143x350	-30 to +50	A+	9,00	120	Clear	1
190	HB1IP664485VNSTCE	TBD	-	22 000	4000	1-10V driver	61k	66	116	80	350x143x350	-30 to +50	A+	9,00	55	Clear	1
190	HB1IP664489VNSTCE	93069185	-	22 600	4000	1-10V driver	61k	66	119	80	350x143x350	-30 to +50	A+	9,00	90	Clear	1
190	HB1IP664571VNSTCE	93069186	-	25 600	5000	1-10V driver	61k	66	135	70	350x143x350	-30 to +50	A+	9,00	120	Clear	1
190	HB1IP664575VNSTCE	TBD	-	24 300	5000	1-10V driver	61k	66	128	70	350x143x350	-30 to +50	A+	9,00	55	Clear	1
190	HB1IP664579VNSTCE	93082490	-	25 100	5000	1-10V driver	61k	66	132	70	350x143x350	-30 to +50	A+	9,00	90	Clear	1
190	HB1IP664581VNSTCE	93085544	-	24 100	5000	1-10V driver	61k	66	127	80	350x143x350	-30 to +50	A+	9,00	120	Clear	1
190	HB1IP664585VNSTCE	TBD	-	22 500	5000	1-10V driver	61k	66	118	80	350x143x350	-30 to +50	A+	9,00	55	Clear	1
190	HB1IP664589VNSTCE	93069189	-	23 200	5000	1-10V driver	61k	66	122	80	350x143x350	-30 to +50	A+	9,00	90	Clear	1

High bay accessories

HighBay IP66 fixture Bracket kit	93069190
HighBay IP66 fixture Suspension holder kit	93069191
1500MM GRIPPLE PAIR FOR HIGHBAY	93091603
3000MM GRIPPLE PAIR FOR HIGHBAY	93091604
4500MM GRIPPLE PAIR FOR HIGHBAY	93091605
6000MM GRIPPLE PAIR FOR HIGHBAY	93091686



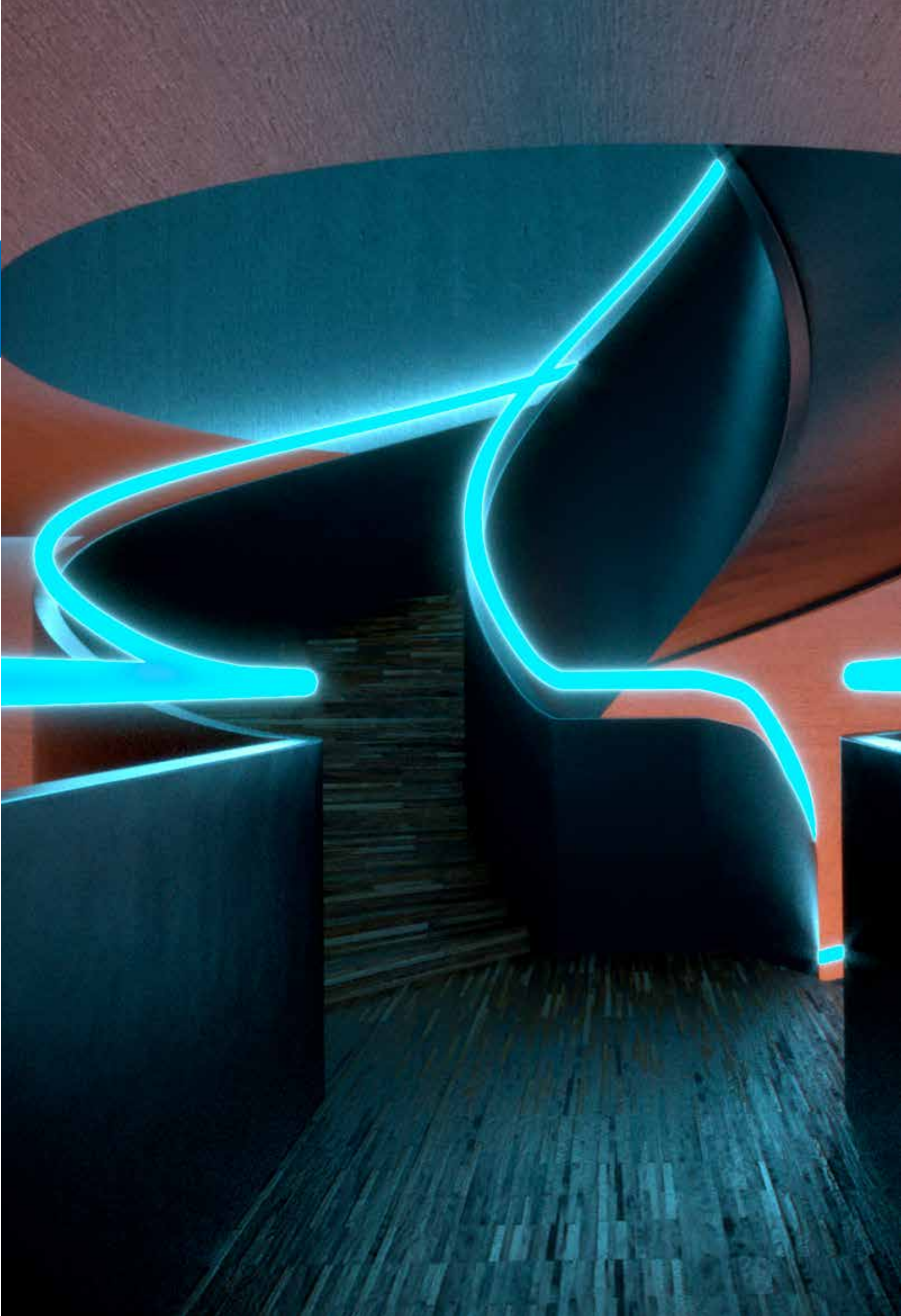
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LED Indoor Solutions / LED Architecture

Model	Product Description	GE Product Code	Tungsum Product Code	Wattage (W/m)	Lumen (lm/m)	CCT (K)	Pack Qty
LED Soft Strip - for Indoor usage							
1	LSS04-24-27-60	93011531	93088751	4.8	370	2700	10×5m rolls per box
1	LSS04-24-40-60	93011532	93088752	4.8	470	4000	10×5m rolls per box
1	LSS04-24-57-60	93011533	93088753	4.8	470	5700	10×5m rolls per box
1	LSS10-24-27-60	93011535	93088754	10	750	2700	10×5m rolls per box
1	LSS10-24-40-60	93011536	93088755	10	850	4000	10×5m rolls per box
1	LSS10-24-57-60	93011537	93088926	10	900	5700	10×5m rolls per box
LED Soft Strip - for Outdoor usage							
1	LSS10-24-27-60-IP65	93011539	93088928	4.8	320	2700	10×5m rolls per box
1	LSS04-24-27-60-IP65	93011541	93088929	10	700	2700	10×5m rolls per box
1	LSS04-24-57-60-IP65	93011538	93088927	4.8	400	5700	10×5m rolls per box
1	LSS10-24-57-60-IP65	93011540	93088930	10	800	5700	10×5m rolls per box
1	LSS Connector strip to driver	93011732	-	-	-	-	200
1	LSS Connector strip to strip	93011731	-	-	-	-	400

Model	Product Description	GE Product Code	Tungsum Product Code	Wattage (W)
LED Soft Strip Drivers				
2	LED25CV24EP	97547	-	25
2	LED25CV24EPS	97546	-	25
2	LED60CV24EP	97507	-	60
2	LED60CV24EPS	97506	-	60
2	LED100CV24EMS	97393	-	100
2	LED150CV24EMS	97759	-	150
2	LED200CV24EMS	97745	-	200





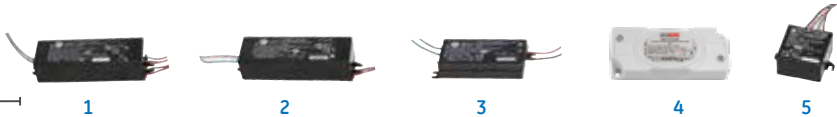
LED Drivers



Model	Power (W)	Product Description	GE Product Code	Tungsum Product Code	Output Voltage (V)	Output Current (A)	Input Voltage (V)	Inrush Current (A)	IP	Efficiency (at full load)	Power Factor	Dimming (down to %)	Max Case temperature (°C)	Dimensions	Pack qty
LED Constant Voltage Drivers															
1	200	OT LED200CV12EMS	97747	-	12	8,3	220-240	2,0	67	92	0,99	No	78,5	211x66x42	20
1	200	OT LED200CV24EMS	97745	-	24	4,2	220-240	2,0	67	92	0,99	No	77,7	211x66x42	20
1	150	OT LED150CV12EMS	97760	-	12	12,5	220-240	2,0	67	92	0,99	No	81,1	211x66x42	20
1	150	OT LED150CV24EMS	97759	-	24	6,25	220-240	2,0	67	92	0,99	No	72,6	211x66x42	20
1	100	OT LED100CV12EMS	97391	-	12	16,6	220-240	2,0	67	92	0,99	No	79,7	211x66x42	20
1	100	OT LED100CV24EMS	97393	-	24	8,3	220-240	2,0	67	92	0,99	No	77,4	211x66x42	20
2	60	OT LED60CV12EPS	97508	-	12	5	220-240	7,4	66	85	0,98	No	80	182x44x40	20
2	60	OT LED60CV24EPS	97506	-	24	2,5	220-240	7,4	66	87	0,98	No	80	182x44x40	20
3	60	OT LED60CV12EP	97509	-	12	5	220-240	7,4	66	85	0,98	No	80	182x44x40	20
3	60	OT LED60CV24EP	97507	-	24	2,5	220-240	7,4	66	87	0,98	No	80	182x44x40	20
4	25	OT LED25CV12EMDS	97742	-	12	2,1	220-240	6,5	65	84	0,95	No	75	133x40x31	24
4	25	OT LED25CV24EPS	97526	-	24	1,1	220-240	6,5	65	86	0,96	No	75	133x40x31	24
5	25	OT LED25CV12EMD	97743	-	12	2,1	220-240	6,5	65	84	0,95	No	75	133x40x31	24
5	25	OT LED25CV24EP	97527	-	24	1,1	220-240	6,5	65	86	0,96	No	75	133x40x31	24
6	12	OT LED12CV12EP	97408	-	12	1,0	120-240	25,2	65	78	0,5	No	65	81x35x23	20
6	12	OT LED12CV24EP	97410	-	24	0,5	120-240	25,2	65	80	0,5	No	65	81x35x23	20
7	12	OT LED12CV12ET	97409	-	12	1,0	120-240	25,2	20	78	0,5	No	70	100x40x27	60
7	12	OT LED12CV24ET	97412	-	24	0,5	120-240	25,2	20	80	0,5	No	70	100x40x27	60



Model	Power (W)	Product Description	GE Product Code	Tungsten Product Code	Output Voltage (V)	Output Current (A)	Input Voltage (V)	Inrush Current (A)	IP	Efficiency (at full load)	Power Factor	Dimming (down to %)	Max Case temperature (°C)	Dimensions	Pack qty
LED Constant Current Drivers															
1	48	OT LED48CC1050EPDL	97514	-	12-46	1,05	220-240	6,7	65	89	0,92	0-10V (10%)	80	133x40x31	24
1	36	OT LED36CC700EPDL3	97520	-	12-48	0,7	220-240	6,7	65	89	0,97	0-10V (10%)	80	133x40x31	24
1	18	OT LED18CC350EPDL	97757	-	12-48	0,35	220-240	6,7	65	87	0,96	0-10V (10%)	80	133x40x31	24
2	48	OT LED48CC1050EPD	97513	-	12 - 46	1,05	220-240		66	89	0,98	TE (25 %)	85	133x40x31	24
2	36	OT LED36CC1050EPD	97522	-	12-35	1,05	220-240		66	89	0,98	TE (25 %)	85	133x40x31	24
2	36	OT LED36CC700ETD	97516	-	12 - 52	0,7	220-240		20	89	0,97	TE (25 %)	85	133x40x31	20
2	36	OT LED36CC700EPD	97519	-	4 - 52	0,7	220-240		66	89	0,97	TE (25 %)	85	133x40x31	24
2	36	OT LED36CC700EPDS	97517	-	4 - 52	0,7	220-240		66	89	0,97	TE (25 %)	85	133x40x31	24
2	36	OT LED36CC700EPL	97518	-	4 - 52	0,7	220-240		66	89	0,97	TE (25 %)	85	133x40x31	24
2	26	OT LED26CC500EPD	97524	-	12 - 52	0,5	220-240		66	87	0,97	TE (25%)	85	133x40x31	24
2	18	OT LED18CC700EPD	97749	-	2 - 26	0,7	220-240	5,4	66	83	0,95	TE (25 %)	80	133x40x31	24
2	18	OT LED18CC350EPDS	97752	-	4 - 52	0,35	220-240	5,4	66	85	0,96	TE (35 %)	80	133x40x31	24
2	18	OT LED18CC350EPD	97756	-	4 - 52	0,35	220-240	5,4	66	85	0,96	TE (35 %)	80	133x40x31	24
3	18	OT LED18CC700EPM	97750	-	2 - 30	0,7	220-240	No limiter	65	83	0,4	No	70	81x35x23	20
3	18	OT LED18CC350EPM	97753	-	3 - 55	0,35	220-240	No limiter	65	83	0,4	No	70	81x35x23	20
3	12	OT LED12CC700EP	97404	-	2,3 - 18	0,7	120-240	No limiter	65	79	0,5	No	65	81x35x23	20
3	12	OT LED12CC500EP	97402	-	2,3 - 26	0,5	120-240	No limiter	65	79	0,5	No	65	81x35x23	20
3	12	OT LED12CC350EP	97399	-	2,3 - 35	0,35	120-240	No limiter	65	80	0,5	No	65	81x35x23	20
4	12	OT LED12CC500ET	97403	-	2,3 - 26	0,5	120-240	No limiter	20	79	0,5	No	70	100x40x27	60
4	12	OT LED12CC350ET	97401	-	2,3 - 35	0,35	120-240	No limiter	20	80	0,5	No	70	100x40x27	60
5	6	OT LED6CC700EP	97435	-	2 - 9	0,7	120-240	No limiter	65	70	0,5	No	70	45x45x25	20
5	6	OT LED6CC500EP	97500	-	2 - 13	0,5	120-240	No limiter	65	70	0,5	No	75	45x45x25	20
5	6	OT LED6CC350EP	97504	-	2 - 17	0,35	120-240	No limiter	65	70	0,5	No	75	45x45x25	20
5	6	OT LED6CC350EPS	97502	-	2 - 17	0,35	120-240	No limiter	65	70	0,5	No	75	45x45x25	20



The power of light

Light affects how we feel, influences the way we respond to the world around us and has a major impact on our decision-making process. At Tungsram we have the breadth of products, the solution controls and the end-to-end services to help you take full advantage today's advanced LED lighting solutions.

This catalogue explains the critical role lighting plays in illuminating settings, creating a mood that makes people feel comfortable from the moment they arrive, meeting the lighting requirements for many different activities and ultimately, delivering an ambience that makes people feel comfortable in their surroundings.

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+

Cost calculation

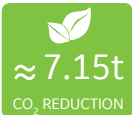
Replacing your light sources with LED will result in significant cost savings. While LED lamps may still have a higher initial purchase price than traditional technologies, their overall efficiency can deliver a rapid payback and significant on-going savings. This means that for example, for an installation of 100 lamps, switching to Tungsram LED lamps can pay for itself in as little as a year. This leads to ongoing savings on your energy costs, which can be significant, with the additional benefit of savings in re-lamping and maintenance costs, over the lifetime of the product. Below is an example of the financial benefits you can gain by switching to our LED solutions.

LED Lamps

Performance comparison	42W Halogen	10W LED Bright Stik
Number of lamps	100	100
Watts/lamp	42	10
Operating hours/day	12	12
Operating days/year	345	345
Annual Energy consumption (kWh)	17 388	4 140
kW rate (Eur) / (GBP)	0.12 / 0.13	0.12 / 0.13
Annual energy cost (Eur) / (GBP)	€ 2 086 / £ 1 768	€ 497 / £ 421

Annual energy cost saving w/ LED Bright Stik **€ 1 589 / £ 1 347**

CO ₂ emissions	
CO ₂ emission per kWh (kg) *	0.54
Annual CO ₂ saving (tonnes) w/ LED Bright Stik	7.15

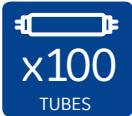


LED Tubes

Performance comparison	58W LFL	25W LED T8
Number of lamps	100	100
Watts/lamp	68	25
Operating hours/day	12	12
Operating days/year	345	345
Annual Energy consumption (kWh)	28 152	10 350
kW rate (Eur) / (GBP)	0.12 / 0.13	0.12 / 0.13
Annual energy cost (Eur) / (GBP)	€ 3 378 / £ 3 660	€ 1 242 / £ 1 346

Annual energy cost saving w/ LED T8 **€ 2 136 / £ 2 314**

CO ₂ emissions	
CO ₂ emission per kWh (kg) *	0.54
Annual CO ₂ saving (tonnes) w/ LED T8	9.5



LED Plug-In

Performance comparison	28W CFL 2D	12.5W LED 2D ECG
Number of lamps	100	100
Watts/lamp	28	12.5
Operating hours/day	12	12
Operating days/year	345	345
Annual Energy consumption (kWh)	11 592	5 175
kW rate (Eur) / (GBP)	0.12 / 0.13	0.12 / 0.13
Annual energy cost (Eur) / (GBP)	€ 1 391 / £ 1 179	€ 621 / £ 526

Annual energy cost saving w/ LED 2D **€ 770 / £ 653**

CO ₂ emissions	
CO ₂ emission per kWh (kg) *	0.54
Annual CO ₂ saving (tonnes) w/ LED 2D	3.46

* Conversion factor can be different by country





TUNGSRAMTM

LED Indoor Product Catalogue

Innovation is our heritage
EST. 1896

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