Efficiency, pure and simple

LED lighting solutions for interiors and outdoors

GE imagination at work

CONTENTS

PALAZZO

Why LED?

LED solutions are receiving global recognition for their energy saving capabilities, long service life and the ability to reduce carbon emissions across a host of different sectors.

LED solutions will play a pivotal role in the future of lighting. However, when it comes to selection, how can you be sure that one system is better than another? After all, every company will tell you that theirs, understandably, is the best.

GE Lighting LEDs come from a lighting heritage that is, quite simply, unsurpassed. The company introduced LED technology to the world with the patent for the first practical, commercialised LED for indication applications in 1962. Since then, GE Lighting has pioneered the use of LED solutions and today is one of the largest LED companies in the world.

GE Lighting continues to develop high quality LED solutions and who better to rely on than those who invented the technology and developed it into the global phenomenon we see now. With over 130 years of expertise, GE Lighting has the knowledge and cutting edge LED solutions to guide you effortlessly into the future of light.

Leading the future of LED

GE is one of the largest LED systems companies in the world. Our expansive installed base includes more than 7.62 million metres of LED linear lighting with a warranty return rate of less than 0.05%.

In addition, as a trusted partner in the transportation segment, GE has more than 6 million LED signals in 24/7 operation around the globe. Further proof of our success: the Next Generation Luminaires™ Solid State Lighting Design Competition gave us the "best in class" award for Immersion® LED Display Case Lighting and a "special recognition" for GE LED Cove Lighting as a market-ready luminaire.

GE Lighting was the original innovator of the first commercial LED in 1962 and is an innovation market leader in LEDs for a variety of applications such as traffic and rail signals, signage, outdoor area lighting, and refrigerated display lighting. The company has a strong presence in emerging LED markets which include:

• Architectural lighting
• Commercial display lighting
• Residential and professional retrofit lighting
• Retail lighting
• Street lighting

Proof of our success

In the 2009 Lighting Design Award our Vio LED technology was recognised by the judges as 'a major advance in colour stability'. GE also received 'Best in Class' awards in 2008 and 2009 at the Next Generation Luminaires competition sponsored by the US Department of Energy, for retail and outdoor LED products.

All LED systems are not the same

- How can you be sure that one LED system is better than another?

- What is your assurance that a given product will last as long as its manufacturer claims?

- How can you trust such an important long-term investment to a supplier without a proven record of experience?

Setting the standard

Making an informed decision on a LED system is unlike any other lighting purchase. Comparing fluorescent, incandescent or HID products to each other is easier because there are long established industry standards you can rely on but that is not so with LEDs.

GE is actively working with the IEC, ELC, CELMA, ELMAPS and ANSI, as well as third party testing laboratories like Intertek, to develop measurement efficiency and performance guidelines. In addition GE is playing an active role in the ZHAGA consortium to establish standards for LED light engine interfaces.

There are many companies offering LED products and making claims about performance and it is hard for customers to know whom or what to believe. Rest assured that every GE LED system is backed by our expertise from over 100 years in the lighting business. Every performance claim we make is supported by stringent, comprehensive testing.

GE takes reliability testing to the extreme

Rather than rely solely on test data from LED suppliers, we test the LED, sub-system and complete system at our in-house and independent laboratories around the world. Validation of our designs, components, products and processes include high-temperature, high-humidity and accelerated life testing.

For example, all of our new LED systems must undergo high-temperature testing at 60 °C for at least 10% of its rated life to help validate performance – 5,000 hours (or 7 months) of continuous testing under extreme temperatures for a product with a rated life of 50,000 hours.

To help ensure long-term performance, we continue to test our products even after initial launch. For example, the LED Area Light, launched in mid-2009, has already amassed more than 10,000 hours of reliability test data to further support our 50,000 hour life rating. Also, there is an original GE Tetra® LED product that has been in a high-temperature chamber at 60 °C for more than 7 years (70,000 hours). Even under extreme temperatures, this product still delivers more than 53% of its original light output and has exceeded both rated life and performance claims (50,000 hour life with 50% lumen maintenance).

CALiPER certified

GE will continue to invest in its reliability testing capabilities and is pleased to be the first lighting manufacturer to be CALiPER* certified as an independent photometric measurement laboratory for solid state lighting (SSL) under the DOE CALiPER* program.

* CALiPER (Commercially Available LED Product Evaluation and Reporting) is a market surveillance programme which undertakes third party testing of commercial LED products in the US. GE laboratories are certified to carry out these measurements.

"The LED Area Light, launched in mid 2009, has already amassed more than 10,000 hours of reliability test data to further support our 50,000 hour life rating."

Revolutionary

Retrofit Lamps

GE's innovative LED retrofit lamps offer substantial opportunities to reduce energy consumption and maintenance costs. Offering low cost of ownership, and with paybacks of less than 1 year in many professional applications, these lamps are true retrofits that enable users to achieve dramatic reductions in cost of ownership.

New era for reflectors

Reflectors

GE's reflector LEDs are a like-for-like replacement for halogen lamps, having similar light output and beam spread, but they have many advantages.

With no UV, IR or heat in the beam they are perfect for retail displays where products would previously have been harmed by these emissions, and they use far less energy.

Features >>>	>>> Benefits
Long life up to 25,000 hours (L70)	Reduced maintenance cost
CRI >80	Excellent colour reproduction
Same size and cap types as halogen equivalents	Easy installation
Robust design	Shock and vibration resistant
No mercury	Environmentally safe
Equivalent light output to existing incandescent and halogen products	Massive energy saving with no reduction of light output

LED GU10 6.5W

LED MR16 4W

Dimmable reflectors in GU10, MR16, R63 and PAR30 types

Upgrading to LED

GE LED reflectors operate just like halogen and incandescent lamps and are a direct replacement.

Halogen 20 W GU10 MR16 *GE LED 4 W*

Incandescent R50 *GE LED 4 W R50*

Halogen 35 W GU10 MR16 *GE LED 4.5 W*

Incandescent R63 *GE LED 7 W R63 WFL*

Halogen 50 W GU10 MR16 *GE LED 6.5 W*

Halogen PAR 30 *GE LED 10 W PAR30*

In shape for the future

LED GLS Retrofit Lamps

A true 40 W equivalent LED bulb, GE's Energy Smart™ GLS consumes just 9 W, provides an 80% energy saving and produces the same light output, while lasting at least 25 times as long.

The GE bulb's unique fin-like design allows it to operate differently, distributing light like a traditional 40 watt incandescent bulb while delivering excellent light output over its 25,000 hour rated life.
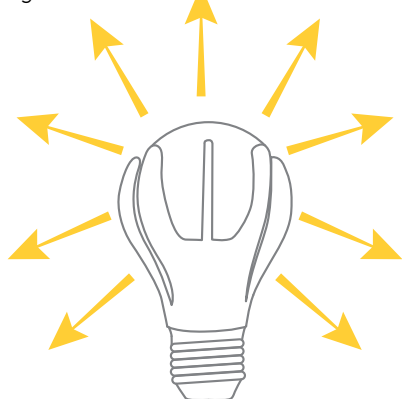
Energy Smart™

Features >>>	>>> Benefits
Consumes just 9 W compared to equivalent 40 W GLS	Energy-saving
Multi-directional light output	Like familiar GLS lamp
25,000 hour rated life	25 times longer than 40 W GLS
Instant start	Full light output with no delay
Solid state components	Durable - no fragile filament
No mercury	Environmentally safe
Cool to touch	Safe to touch
470 lumens	Meets 40 W incandescent equivalence criteria under latest EU legislation

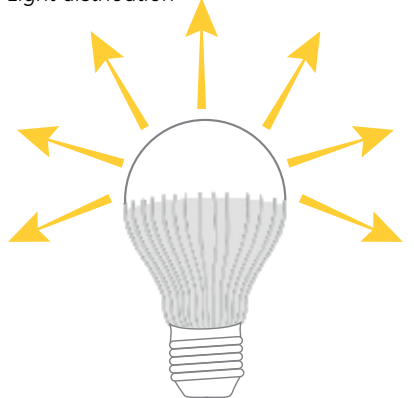The fins that cradle the GE Energy Smart LED bulb look cool, and they also perform a cooling function. They are connected to the LEDs inside the bulb to draw out heat, keeping them cool to ensure a longer life and greater efficiency. The fins also keep the surface of the bulb cooler than comparable incandescent bulbs.

Light distribution

Light distribution

Dimmable LED GLS

Familiar shapes

Décor

GE's LED Décor range delivers incandescent-like sparkling and diffuse light effects, making them ideal for general and decorative lighting in home and hospitality applications.

Available in clear and frosted finishes, the range encompasses candle, spherical, globe and miniature GLS shapes that can fit all existing fixtures with E14, E27 and B22 sockets.

Features >>>	>>> Benefits
2 & 2.5 W range	Very low energy consumption
Up to 80 lumen	Suitable for decorative and mood lighting
Up to 17,000 hours life	Lasts up to 17 times longer than similar decorative halogen or incandescent lamps
Robust design	Shock and vibration resistant
Instant on	Instant light - unlike compact fluorescent
Same size as incandescent or halogen equivalents	Like-for-like exchange with same visual comfort

Globe

Spherical

Designed to fit

GE LED Décor lamps are the same size as their incandescent or halogen equivalents, having been designed around the international standard outline. They are truly a like-for-like replacement, with all of the benefits that LED technology is known for:

- Extra long life
- Very low heat emission
- Mercury free - environmentally friendly

Miniature GLS

COMING SOON
LED Decor dimmable range in 2012

Creating mood and saving energy

GE's growing family of LED retrofit lamps offers a broad range of shapes, wattages and finishes to accommodate both consumer and commercial application needs. These high-technology retrofit lighting solutions help to create ambient lighting with significant energy and cost savings.

Candle

Retrofit Lamps

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
LED Décor Range - Energy Saving Miniature GLS											
2	220-240	E27	LED2/A47/829/220-240V/E27/C	78759	60	2900	80+	17000*	47	88.5	6
2	220-240	E27	LED2/A47/829/220-240V/E27/D	78760	60	2900	80+	17000*	47	88.5	6
2	220-240	B22	LED2/A47/829/220-240V/B22/C	78761	60	2900	80+	17000*	47	87	6
2	220-240	B22	LED2/A47/829/220-240V/B22/D	78762	60	2900	80+	17000*	47	87	6
LED Décor Range - Energy Saving Spherical											
2	220-240	E27	LED2/P45/829/220-240V/E27/C	78763	60	2900	80+	17000*	45	71	6
2	220-240	E27	LED2/P45/829/220-240V/E27/D	78764	60	2900	80+	17000*	45	71	6
2	220-240	B22	LED2/P45/829/220-240V/B22/C	78765	60	2900	80+	17000*	45	69.5	6
2	220-240	B22	LED2/P45/829/220-240V/B22/D	78766	60	2900	80+	17000*	45	69.5	6
2	220-240	E14	LED2/P45/829/220-240V/E14/C	78767	60	2900	80+	17000*	45	77	6
2	220-240	E14	LED2/P45/829/220-240V/E14/D	78768	60	2900	80+	17000*	45	77	6
LED Décor Range - Energy Saving Globe											
2.5	220-240	E27	LED2.5/G80/829/220-240V/E27/D	78769	80	2900	80+	17000*	80	109.5	6
2.5	220-240	B22	LED2.5/G80/829/220-240V/B22/D	78770	80	2900	80+	17000*	80	108	6
LED Décor Range - Energy Saving Candle											
2	220-240	E27	LED2/B35/829/220-240V/E27/C	78771	60	2900	80+	17000*	35	95.5	6
2	220-240	E27	LED2/B35/829/220-240V/E27/D	78772	60	2900	80+	17000*	35	95.5	6
2	220-240	B22	LED2/B35/829/220-240V/B22/C	78773	60	2900	80+	17000*	35	94	6
2	220-240	B22	LED2/B35/829/220-240V/B22/D	78774	60	2900	80+	17000*	35	94	6
2	220-240	E14	LED2/B35/829/220-240V/E14/C	78775	60	2900	80+	17000*	35	101	6
2	220-240	E14	LED2/B35/829/220-240V/E14/D	78776	60	2900	80+	17000*	35	101	6
LED GLS											
5W	220-240	E27	LED5/GLS/827/220-240/E27	65737	185	2700	80+	25000	62	110	6
5W	220-240	E27	LED5/GLS/830/220-240/E27	79428	200	3000	80+	25000	62	110	6
5W	220-240	B22	LED5/GLS/827/220-240/B22	65742	185	2700	80+	25000	62	108.5	6
5W	220-240	B22	LED5/GLS/830/220-240B22	79432	200	3000	80+	25000	62	108.5	6
9W	220-240	E27	LED9/GLS/827/220-240/E27	65739	405	2700	80+	25000	62	110	6
9W	220-240	E27	LED9/GLS/830/220-240/E27	79426	430	3000	80+	25000	62	110	6
9W	220-240	B22	LED9GLS/827/220-240/B22	65736	405	2700	80+	25000	62	108.5	6
9W	220-240	B22	LED9/GLS/830/220-240/B22	79430	430	3000	80+	25000	62	108.5	6
LED Energy Smart											
9	220-240	B22	LED9/GLS/OMNI/830/220-240V/B22/HBX	63639	470	3000	80+	25000	69	116	6
9	220-240	E27	LED9/GLS/OMNI/830/220-240V/E27/HBX	63640	470	3000	80+	25000	69	116	6

* Based on continued testing GE is now able to guarantee an increased life of 17000 hours on our LED Decor lamps.

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
LED High Output Range - GU10 non dimmable													
4	230	GU10	LED 4/GU10/830/230V/FL/BX 1/8	76075	225	100	20	3100	80+	15,000	51	57	1/8
4	230	GU10	LED 4/GU10/830/230V/WFL BX 1/8	75280	225	100	36	3100	80+	15,000	51	57	1/8
4	230	GU10	LED 4/GU10/830/230V/WFL/BX 1/8	76076	225	100	36	3100	80+	15,000	51	57	1/8
4	240	GU10	LED 4/GU10/830/240V/WFL BX 1/8	75281	225	100	36	3100	80+	15,000	51	57	1/8
4.5	220-240	GU10	LED4.5/GU10/827/220-240V/FL/BX	79358	800	200	25	2700	80	25,000	50.2	56.5	1/8
4.5	220-240	GU10	LED4.5/GU10/827/220-240V/WFL/BX	79359	480	200	35	2700	80	25,000	50.2	56.5	1/8
4.5	220-240	GU10	LED4.5/GU10/830/220-240V/FL/BX	79360	850	200	25	3000	80	25,000	50.2	56.5	1/8
4.5	220-240	GU10	LED4.5/GU10/830/220-240V/WFL/BX	79361	530	200	35	3000	80	25,000	50.2	56.5	1/8
6	220-240	GU10	LED 6/GU10/827/220-240V/FL/BX	97154	1200	300	25	2700	80	25,000	50.2	77.6	1/8
6	220-240	GU10	LED 6/GU10/827/220-240V/WFL/BX	97155	600	300	35	2700	80	25,000	50.2	77.6	1/8
6	220-240	GU10	LED 6/GU10/830/220-240V/FL/BX	97156	1370	300	25	3000	80	25,000	50.2	77.6	1/8
6	220-240	GU10	LED 6/GU10/830/220-240V/WFL/BX	97157	650	300	35	3000	80	25,000	50.2	77.6	1/8
6	220-240	GU10	LED 6/GU10/840/220-240V/ FL BX	97120	1400	350	25	4000	80	25,000	50.2	77.6	1/8
6	220-240	GU10	LED 6/GU10/840/220-240V/ WFL BX	97121	700	350	35	4000	80	25,000	50.2	77.6	1/8

Retrofit Lamps

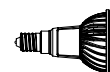## LED High Output Range - GU10 dimmable

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
5	230	GU10	LED5D/GU10/827/220-240V/FL	65249	950	220	25	2700	80+	25,000	50.2	56.5	1/8
5	230	GU10	LED5D/GU10/827/220-240V/WFL	65250	600	220	35	2700	80+	25,000	50.2	56.5	1/8
5	230	GU10	LED5D/GU10/830/220-240V/FL	65253	1050	240	25	3000	80+	25,000	50.2	56.5	1/8
5	230	GU10	LED5D/GU10/830/220-240V/WFL	65254	700	240	35	3000	80+	25,000	50.2	56.5	1/8
5	230	GU10	LED5D/GU10/840/220-240V/FL	65803	1200	270	25	4000	80+	25,000	50.2	56.5	1/8
5	230	GU10	LED5D/GU10/840/220-240V/WFL	65804	750	270	35	4000	80+	25,000	50.2	56.5	1/8
6.5	230	GU10	LED6.5D/GU10/827/220-240V/FL	65252	1600	400	25	2700	80+	25,000	50.2	77.6	1/8
6.5	230	GU10	LED6.5D/GU10/827/220-240V/WFL	65255	750	380	35	2700	80+	25,000	50.2	77.6	1/8
6.5	230	GU10	LED6.5D/GU10/830/220-240V/FL	65256	1600	400	25	3000	80+	25,000	50.2	77.6	1/8
6.5	230	GU10	LED6.5D/GU10/830/220-240V/WFL	65257	750	380	35	3000	80+	25,000	50.2	77.6	1/8
6.5	230	GU10	LED6.5D/GU10/840/220-240V/FL	65258	1800	450	25	4000	80+	25,000	50.2	77.6	1/8
6.5	230	GU10	LED6.5D/GU10/840/220-240V/WFL	65259	850	430	35	4000	80+	25,000	50.2	77.6	1/8

LED High Output Range - R50
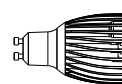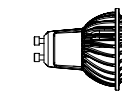
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
4	230	E14	LED4/R50/830/230V/WFL/E14	75288	225	100	36	3100	80+	15000	50.2	76	8
4	240	E14	LED4/R50/830/240V/WFL/E14	75289	225	100	36	3100	80+	15000	50.2	76	8
4.5	220-240	E14	LED4.5/R50/830/220-240V/WFL/E14	79366	480	200	36	3000	80+	25000	50.2	82.9	8
4.5	220-240	E14	LED4.5/R50/827/220-240V/WFL/E14	79367	530	200	36	2700	80+	25000	50.2	82.9	8

LED High Output Range - R63

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
7	220-240	E27	LED7/R63/827/220-240V/FL/E27	76093	1200	200	20	2700	80+	25,000*	63	101	8
7	220-240	E27	LED7/R63/827/220-240V/WFL/E27	76094	520	200	36	2700	80+	25,000*	63	101	8
7	220-240	B22	LED7/R63/827/220-240V/FL/B22	76099	1200	200	20	2700	80+	25,000*	63	101	8
7	220-240	B22	LED7/R63/827/220-240V/WFL/B22	76100	520	200	36	2700	80+	25,000*	63	101	8
7	220-240	E27	LED7/R63/830/220-240V/FL/E27	75294	1200	200	20	3000	80+	25,000*	63	101	8
7	220-240	E27	LED7/R63/830/220-240V/WFL/E27	75296	520	200	36	3000	80+	25,000*	63	101	8
7	220-240	B22	LED7/R63/830/220-240V/FL/B22	75295	1200	200	20	3000	80+	25,000*	63	101	8
7	220-240	B22	LED7/R63/830/220-240V/WFL/B22	75297	520	200	36	3000	80+	25,000*	63	101	8

LED High Output Range - PAR30
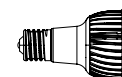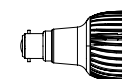
Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
10	220-240	E27	LED10/PAR30/827/220-240V/FL/E27	78553	1600	370	24	2700	80+	25,000*	95	92	6
10	220-240	E27	LED10/PAR30/827/220-240V/WFL/E27	78554	900	370	36	2700	80+	25,000*	95	92	6
10	220-240	E27	LED10/PAR30/830/220-240V/FL/E27	78555	1700	370	24	3000	80+	25,000*	95	92	6
10	220-240	E27	LED10/PAR30/830/220-240V/WFL/E27	78556	1000	370	36	3000	80+	25,000*	95	92	6

LED MR16 4W

Wattage [W]	Volts [V]	Cap	Product Description	Product Code	Candela [cd]	Lumen [lm]	Beam Angle [°]	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
3.8	12	GU5.3	LED 4/MR16/827/12V/GU5.3/FL	63633	760	190	25	2700	80	25,000	50	46	1/8
3.8	12	GU5.3	LED 4/MR16/827/12V/GU5.3/SP	63634	1550	190	15	2700	80	25,000	50	46	1/8
3.8	12	GU5.3	LED 4/MR16/827/12V/GU5.3/WFL	63635	400	180	36	2700	80	25,000	50	46	1/8
3.8	12	GU5.3	LED 4/MR16/830/12V/GU5.3/SP	63636	1600	200	15	3000	80	25,000	50	46	1/8
3.8	12	GU5.3	LED 4/MR16/830/12V/GU5.3/FL	63637	780	200	25	3000	80	25,000	50	46	1/8
3.8	12	GU5.3	LED 4/MR16/830/12V/GU5.3/WFL	63638	420	190	36	3000	80	25,000	50	46	1/8

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

LED Décor Range - MR16

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

LED Décor Range - PAR16

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

LED Décor Range - GU10

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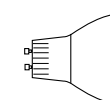
Endless possibilities

LED
Professional
Lighting
Solutions

GE LEDs have opened up a huge range of possibilities for lighting product designers. They enable precise light control, and the reduced heat output compared to other light sources is also a big advantage. For a simple, pure LED light source GE's Vio™ provides the perfect answer, while the Infusion modular unit is an example of how GE provides solutions to create cutting edge innovations.

Upgradeable designs

An exciting alternative for recessed and track lighting, as well as other applications such as downlights.

Public areas

- Airport lounges, hotel lobbies

Offices

- Conference rooms, lecture halls

Retail

- Supermarkets, luxury shops

Restaurants

Infusion™ LED Module System

General lighting with energy efficient, long–lasting LEDs is now as easy as changing a standard light bulb.

The GE Infusion™ LED module is a game-changing platform, designed to open up new possibilities for the use of longlasting, controllable, low maintenance LED solutions in retail, hospitality and other environments where the quality of light is critical to the customer/visitor experience. With a simple twist & lock action, the module can be easily removed and replaced, with no additional hardware necessary. Plus a selection of optical accessories are available from GE which are also tool-free to attach, for a complete lighting solution.

In addition to offering excellent energy efficiency and long life, the GE Infusion™ allows luminaires to be designed that can be upgraded to use future generations of LEDs as the technology improves, enabling users to always have the optimum energy efficient solution in their installation.

Features >>>	>>> Benefits
3 colour temperatures	Best suit to lit environment
4 module series	Lumen packages from 850 to 3500 lm
Standard range with CRI>80 and Ultra version with high CRI	Enables colour rendering as per the illumination objective
Long life, 50,000 hours	Low maintenance cost
No IR or UV radiation	Safe for people and products
Dimmable via DALI, DMX, 0-10Vleading edge, trailing edge	Compatible with a range of drivers on market

Infusion LED modules with lumen packages of 850 and above are supplied without integrated optics, allowing flexibility for luminaire designers to design or use optics of their choice according to the application needs.

GE offers a range of optical attachments to interface with our Infusion LED modules. These attach using a twist and lock mechanism via an optical interface feature on the modules. This facilitates tool-free replacement and assembly. A schematic illustration of the tool-free attachment method is shown below: GE also offers the reflectors from the optical attachments as separate components.

Housing
Optical Adapter
LEDs
Finger Grab (Tool-less insertion)
Locking Tab

Thermal interface Region
(-) Negative
(+) Positive

Parts
Insert Optic
Twist & Lock
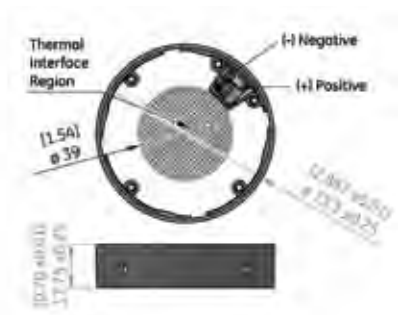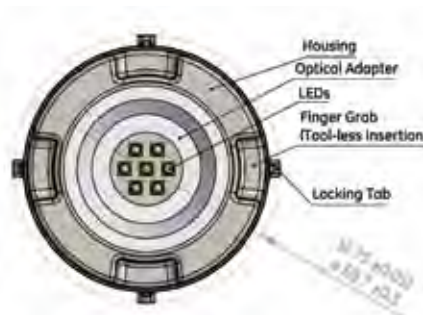
LED Module and optic are supplied separately. (it is not compulsary to buy the optic with the module)

The optic is placed in the groove on the module

The optic connects to the module without use of tools

Stable performance

General
- Pendants, sconces

Commercial
- Task
- Display

Landscape
- Pathway, in-ground

Architectural
- Wall wash, marker

Vio™ LED Emitters

A simple, pure light source that has no boundaries for creative lighting design - the GE Vio™ High Power White LED.

By combining highly efficient 405 nm violet chips with proprietary phosphors, Vio™ LEDs enable tremendous flexibility in colour temperature and CRI. The result is a very stable, warm white colour. The light is diffused for a pleasing, uniform light that meets the high standards of lighting designers.

Colour stability over life

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

Features >>>	>>> Benefits
Less than 75 K colour change over 50,000 hours of operation	Confidence that appearance will remain constant throughout life
Diffuse, warm white light source	Pleasing appearance similar to incandescent and halogen
Uniform colour across light emitting surface, with wide viewing angle	Can easily be used in reflector optics giving smooth beam pattern
Full spectrum phosphor with high red content	Excellent CRI and light quality
Chip on board assembly with plug and play connection	On board Tb point easy to assemble into LED systems with reliable performance

Colour stability over time

Vio 4100 K
Vio 3500 K

Dimensions (mm)
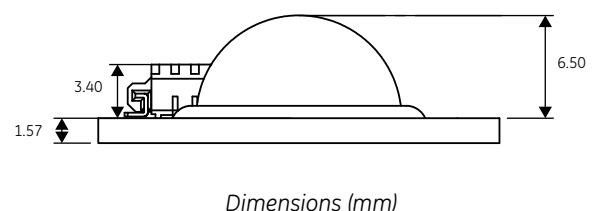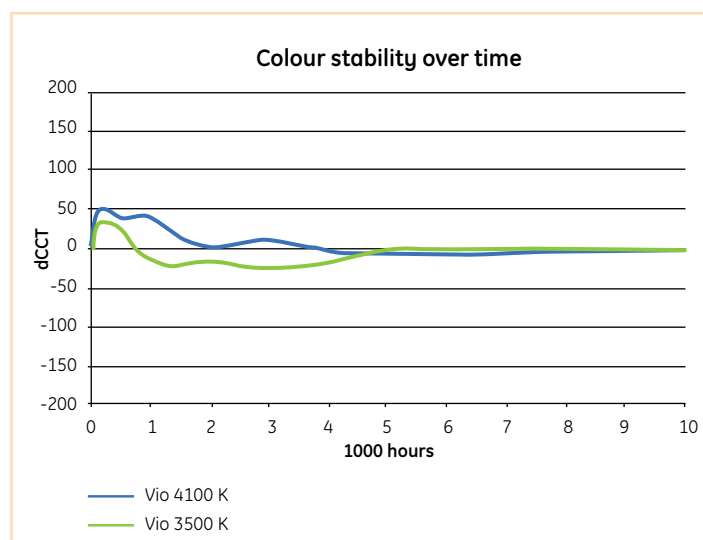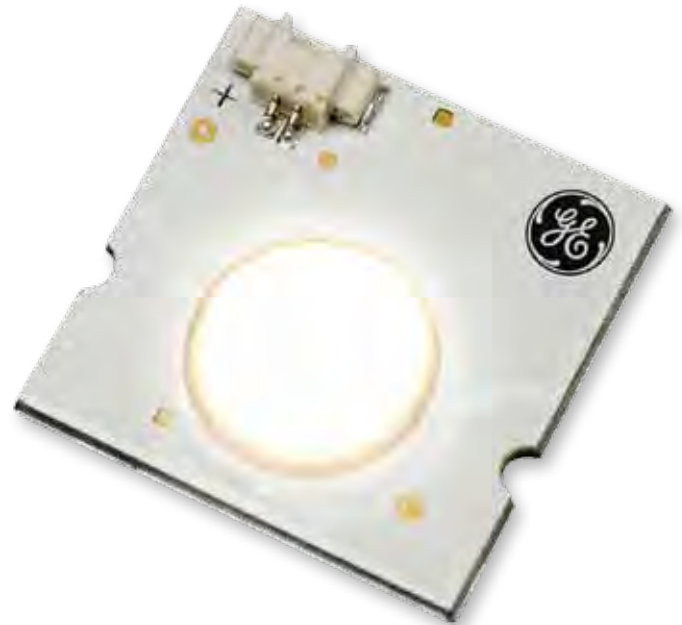
Simple efficiency

Directional lighting
- Recessed downlights
- Track lights
- Pendants
- Display & Accent lighting

Landscape lighting
- Architectural lighting
- General illumination

Vio™ LED Downlight Solutions

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

Whether it's a domestic project like an extension or a loft conversion, or a professional building like a new boutique hotel, today's modern interiors are expected to look stunning and high end, yet at the same time save energy and be maintenance-free. LED lighting technology is now revolutionising our ability to design more sustainable buildings.

Features >>>	>>> Benefits
3.6 W and 7.2 W versions	Optimised energy saving
Runs from 350 mA constant current DC supply	Compatible with a range of LED drivers
Dimensions smaller than MR16 lamp	Enables design flexibility
Vio™ quality and stability of light	Reliable operation
50,000 hour lifetime	Drastically decreases lamp maintenance cost
High colour rendering index > 80	Vibrant colours in installations
Faceted reflector	Halogen-like reflector enables precise optical control, directing the beam where it is needed
Uniform remote phosphor light source	High level of visual comfort

350 mA drivers for Vio™ LEDs

- Compact packaged drivers for reliable operation of Vio™ LED products
- Versions to run 1 x 3.6 W and 2 x 3.6 W or 1 x 7.2 W
- High efficiency and power factor
- Class II SELV equivalent

Vio™ LED Downlight Solutions are available in 3 options

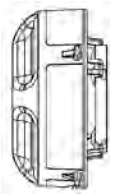*3.6 W Vio™ MR16 module*

3.6 W Vio™ MR16 module kit

7.2 W Vio™ assembled downlight

Packaged kit comprising Vio™ MR16 module, vented bezel, recess mounting springs, connector cable and high efficiency 350 mA driver

LED Professional Lighting Solutions

LED Infusion Modules

Product Code	Description	Body colour [1]	Lumens (typical) [2]	CCT (Kelvin)	CRI (Ra)	Watts	SDCM	Rated Drive Current	Rated Life [3]
64997	M1000/827/B/N	Black	900	2700	>80	15	<4	700 mA	50,000
64999	M1000/830/B/N	Black	1000	3000	>80	15	<4	700 mA	50,000
64998	M1000/930/B/N	Black	850	3000	>87	15	<2	700 mA	50,000
65009	M1000/840/B/N	Black	1100	4000	>80	15	<4	700 mA	50,000
65011	M1500/827/B/N	Black	1500	2700	>80	23	<4	700 mA	50,000
65013	M1500/830/B/N	Black	1600	3000	>80	23	<4	700 mA	50,000
65015	M1500/930/B/N	Black	1400	3000	>87	23	<2	700 mA	50,000
65017	M1500/840/B/N	Black	1750	4000	>80	23	<4	700 mA	50,000
65019	M2000/827/B/N	Black	1800	2700	>80	30	<4	1.4 A	50,000
65021	M2000/830/B/N	Black	2000	3000	>80	30	<4	1.4 A	50,000
65022	M2000/930/B/N	Black	1700	3000	>87	30	<2	1.4 A	50,000
65023	M2000/840/B/N	Black	2200	4000	>80	30	<4	1.4 A	50,000
65024	M3000/827/B/N	Black	3000	2700	>80	46	<4	1.4 A	50,000
97181	M3000/830/B/N	Black	3200	3000	>80	46	<4	1.4 A	50,000
97182	M3000/930/B/N	Black	2800	3000	>87	46	<2	1.4 A	50,000
97183	M3000/840/B/N	Black	3500	4000	>80	46	<4	1.4 A	50,000
97184	M1000/827/W/N	White	900	2700	>80	15	<4	700 mA	50,000
97186	M1000/830/W/N	White	1000	3000	>80	15	<4	700 mA	50,000
97187	M1000/930/W/N	White	850	3000	>87	15	<2	700 mA	50,000
97188	M1000/840/W/N	White	1100	4000	>80	15	<4	700 mA	50,000
97185	M1500/827/W/N	White	1500	2700	>80	23	<4	700 mA	50,000
97189	M1500/830/W/N	White	1600	3000	>80	23	<4	700 mA	50,000
97190	M1500/930/W/N	White	1400	3000	>87	23	<2	700 mA	50,000
97191	M1500/840/W/N	White	1750	4000	>80	23	<4	700 mA	50,000
97192	M2000/827/W/N	White	1800	2700	>80	30	<4	1.4 A	50,000
97193	M2000/830/W/N	White	2000	3000	>80	30	<4	1.4 A	50,000
97194	M2000/930/W/N	White	1700	3000	>87	30	<2	1.4 A	50,000
97199	M2000/840/W/N	White	2200	4000	>80	30	<4	1.4 A	50,000
97200	M3000/827/W/N	White	3000	2700	>80	46	<4	1.4 A	50,000
97201	M3000/830/W/N	White	3200	3000	>80	46	<4	1.4 A	50,000
97202	M3000/930/W/N	White	2800	3000	>87	46	<2	1.4 A	50,000
97203	M3000/840/W/N	White	3500	4000	>80	46	<4	1.4 A	50,000

Notes:
[1] White modules are supplied as standard. Black modules are available on a make to order basis
[2] Lumens are 'hot lumens' measured at steady state at a Tp temperature of 65C
[3] Rated life refers to 70% lumen maintenance (L70)
[4] Modules are rated to 50,000 hours with supporting LM-80 data. Life testing continues with a view to further upgrades in future
[5] Even higher efficacies can be achieved if modules are run at drive currents lower than the rated value. GE is happy to advise on available permutations to suit particular project requirements

Product List - Holders

Product Code	Description	Information	Colour	Pack qty
78835	MACC07HOLDERB	LED Module Holder (Black)	Black	6
61450	MACC07HOLDERW	LED Module Holder (White)	White	6

Optics for LED Infusion Modules

Product Code	Product Description	Body Colour	M1000	M1500	M2000	M3000	Diameter	Length
	OPTICS		Module series designed for (beam angle in brackets)					
97204	OP1000/SP	White	14				100	60
97205	OP1500/SP	White		17			100	60
97208	OP1000/1500/FL	White	24	27		34	75	40
97206	OP1000/1500/WFL	White	34	36			75	40
97207	OP1000/1500/VWFL	White	60	62			75	40
64996	OP2000/3000/FL	White			25	28	75	40
64995	OP2000/WFL	White			34		75	40
64994	OP2000/3000/VWFL	White			59	61	75	40
65292	OP1000/SP/B	Black	14				100	40
65293	OP1500/SP/B	Black		17			100	40
65294	OP3000/WFL/B	Black	24	27		34	75	40
65295	OP1000/1500/WFL/B	Black	34	36			75	40
65296	OP1000/1500/VWFL/B	Black	60	62			75	40
65297	OP2000/3000/FL/B	Black			25	28	75	40
65298	OP2000/WFL/B	Black			34		75	40
65301	OP2000/3000/VWFL/B	Black			59	61	75	40

Vio™ Emitters

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

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

3.6 W Vio™ MR16 Modules

A range of accessories to accompany Vio Modules is available. Please contact your GE representative for full details.

Wattage [W]	Product Description	Product Code	Candela (cd)	Beam angle	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
3.6	VIO/G4/MODULE/3.6W/830	77476	240	36	3000	85+	50000	50	40	10
3.6	VIO/G4/MODULE/3.6W/835	77477	250	36	3500	85+	50000	50	40	10
3.6	VIO/G4/MODULE/3.6W/841	77481	270	36	4100	85+	50000	50	40	10
3.6	VIO/G4/MODULE/3.6W/730	77499	280	36	3000	70+	50000	50	40	10
3.6	VIO/G4/MODULE/3.6W/735	77502	310	36	3500	70+	50000	50	40	10
3.6	VIO/G4/MODULE/3.6W/741	77503	325	36	4100	70+	50000	50	40	10
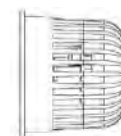
3.6 W Vio™ MR16 Module Kit

A range of accessories to accompany Vio Modules is available. Please contact your GE representative for full details.

Wattage [W]	Product Description	Product Code	Candela (cd)	Beam angle	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
3.6	VIO MODULE KIT G4/3.6W/830	79320	240	36	3000	85+	50000	50	40	5
3.6	VIO MODULE KIT G4/3.6W/841	79321	270	36	4100	85+	50000	50	40	5

7.2 W Vio™ Assembled Downlights

A range of accessories to accompany Vio Modules is available. Please contact your GE representative for full details.

Wattage [W]	Product Description	Product Code	Candela (cd)	Beam angle	CCT [K]	CRI [Ra]	Life [L70, h]	Diameter [mm]	Length [mm]	Pack Qty
7.2	VIO/G8/MODULE/7.2W/830	77504	600	27	3000	85+	50000	67	69	10
7.2	VIO/G8/MODULE/7.2W/835	77519	660	27	3500	85+	50000	67	69	10
7.2	VIO/G8/MODULE/7.2W/841	77520	680	27	4100	85+	50000	67	69	10
7.2	VIO/G8/MODULE/7.2W/730	77523	720	27	3000	70+	50000	67	69	10
7.2	VIO/G8/MODULE/7.2W/735	77524	840	27	3500	70+	50000	67	69	10
7.2	VIO/G8/MODULE/7.2W/741	77252	790	27	4100	70+	50000	67	69	10

350mA drivers for Vio™ LEDs

Compliance: EN 61347-2-13; EN 6100-3-2 Class C; EN 6100-3-3; EN 61547; EN55015

Maximum wattage load [W]	Minimum wattage load [W]	Product Description	Product Code	Voltage [V]
5	1.2	GE005/G/C350T1-A	79335	220-240
10	6	GE010/G/C350T1-A	79336	220-240

VIO™ Connectors

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

Retail therapy

LED Retail Solutions

GE LEDs provide an excellent light source for the retail environment. Not only do they enable precise control of light but they also have very low heat emissions, reducing the cost of air conditioning and protecting heat-sensitive displays.

Cool efficiency

EAT WELL. PAY LESS.

market pantry.

EAT WELL. P

Supermarkets
Convenience & Grocery stores
Petrol stations

IMMERSION® LED Refrigerated Display Lighting

IMMERSION® vertical (RV40)

IMMERSION® LED Refrigerated Display Lighting from GE has changed the way people see refrigerated displays.

Standard fluorescent lighting will flood a display case with broad and diffuse light which can create shadows, light spillage and glare. Unlike fluorescent, dedicated GE LED systems distribute light evenly on the shelves and throughout the case. Cabinets achieve higher average illuminance and therefore become much more eye-catching. At the same time, IMMERSION® allows retailers to dramatically bring down operating costs and energy consumption.

These products comply with GE's Ecomagination initiative, ensuring that light fittings fulfil high performance claims without containing any mercury, lead or glass. Long life reduces material waste. Consequently it makes handling and recycling less of a concern.

Lightbars can be easily incorporated into new vertical/horizontal cases or retrofitted into existing ones.

Features >>>	>>> Benefits
Unique optic design	Brighter and more uniform lighting across package facings
3000, 3500, 4100 and 5000 K CCT	Multiple colour temperatures to create the perfect look for every refrigerated area
Many vertical and horizontal lightbar sizes	Fit into a variety of chillers and freezers
Low wattage and heat	Dramatic energy savings and less CO_2 emission.
50,000 hour lifetime and ongoing performance	No material waste, significant maintenance costs reduction. Reliable LEDs, absolutely not affected by cold temperature or multiple "turn on/off"
No IR or UV emissions	Optimal selling environment for food merchandise

Immersion RV40 Wattage Savings
5-door case example
(1.5m lightbars)

Watts Saved

■ Indirect Savings (Compressor)*
■ Direct Savings (Lighting)

177
360

IMMERSION LED Vs T8 Fluorescent

*Compressor savings are dependent on case temperature and design.

ecomagination℠
a GE commitment

IMMERSION® horizontal (RH10)

Sparkle

Jewellers
Department stores
Museums

LED Display Case Lighting System

The GE LED Display Case Lighting System brings glass cases to life. It creates a high ambient light level uniformly throughout the case, yet still delivers the all important sparkle thanks to unique optics. Combined with the tangible benefits of long life, energy saving and guaranteed reliability, this system is a retail revolution.

Light where you need it

Traditional lighting technologies direct the light only to certain areas of the display case, creating undesirable shadows, light spillage and glare. GE's LED system offers significant improvements on these conventional systems.

Features >>>	>>> Benefits
Unique reflector optics	Merchandise sparkles, with high level of uniform light inside case
Directional LED light sources	Spill light reduced, giving high application efficacy
Highly efficient LEDs	Allows up to 80% energy saving compared to low voltage halogen lamps
3500 K and 4200 K CCT	Perfect colour temperatures to show off valuable merchandise
50,000 hour lifetime	Over 10 years of reliable performance in retail environment

LED Display lighting
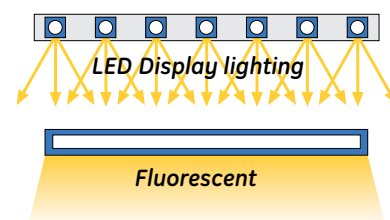
Fluorescent

Light patterns of GE LED Display vs. Fluorescent

The unique optics of the Display Case Lighting System direct rays of light to create sparkling merchandise, allowing it to stand out against a high ambient background light, unlike fluorescent which can leave displays flat.

Cost of ownership over useful life of LED system

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

• 81% saving in energy consumption and CO_2 emissions

• 12 year life of the LED system eliminates lamp replacement costs

• 64% reduction in total cost of ownership over LED useful lifetime

• 2.4 year payback

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

Total cost of ownership

Energy cost
Replacement lamp cost
Initial fixture cost

Halogen MR11   LED Display Case

CO_2 emitted per case per year

56

286

LED Display System
Halogen MR11

kg CO_2
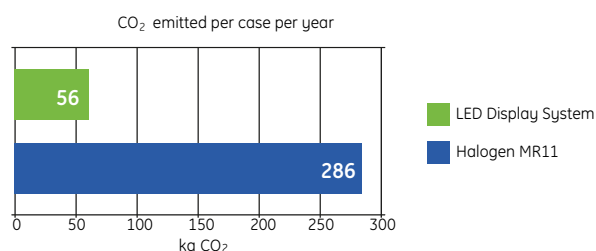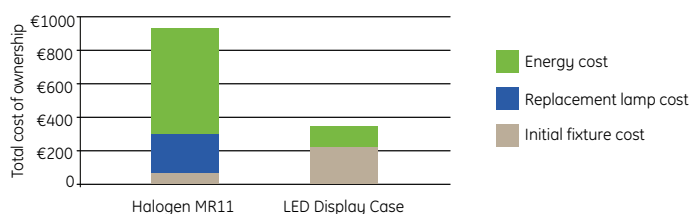
On the edge

Cove
Retail
- Under shelf
- Under cabinet
Accent and task

Tetra® AL10

Combining an industry-leading CRI of 93 with excellent energy efficiency of 47 LPW and 50,000 hours rated life, Tetra® AL10 undershelf lighting shows fashion, cosmetics and other retail shelf displays in the best possible light.

Versatile optics, lengths and mountings of AL10 mean it can also suit many alternative indoor and architectural applications.

Features >>>	>>> Benefits
Slimline and low weight	Easy and discrete installation
Exceptional CRI of 93	Brilliant, colourful displays
2700, 3000 and 4000 K CCT	Enables creation of a suitable lighting environment for items being displayed
60°, 90° and 120° optics	Optimal illuminance with brilliant or soft lighting effects throughout the shelves
High light level and efficacy	Attractive visual appeal which promotes sales
Only 15 W per metre system	Low energy consumption
50,000 hour lifetime and ongoing performance	Significant maintenance cost reduction

60° clear lens

Vertical and horizontal beam width (m)

	460 mm V	460 mm H	230 mm V	230 mm H
0.25 m	0 8	0 3	0.6	0.3
0.50 m	1 2	0.6	1 1	0.6
0.75 m	1.8	0 9	1.6	0 9
1.00 m	2.2	1.2	2.2	1.2
1.25 m	2.4	1.5	2.4	1.5
1.50 m	3.4	1.8	3.4	1.8

Candela (Cd)
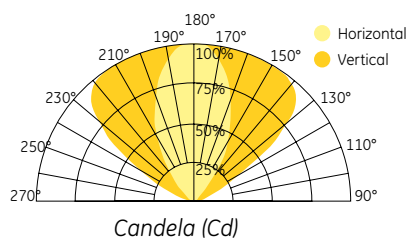
90° clear lens

Vertical and horizontal beam width (m)

	460 mm V	460 mm H	230 mm V	230 mm H
0.25 m	0.7	0.4	0.6	0.4
0.50 m	1.1	0.8	1.0	0.8
0.75 m	1.6	1.2	1.5	1.2
1.00 m	2.1	1.6	2.0	1.6
1.25 m	2.6	2.0	2.4	2.0
1.50 m	3.0	2.4	3.0	2.4

Candela (Cd)
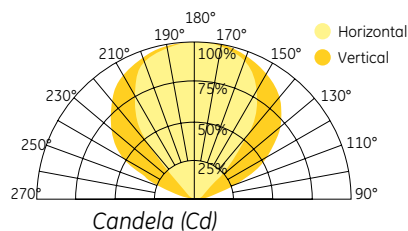
120° clear lens

Vertical and horizontal beam width (m)

	460 mm V	460 mm H	230 mm V	230 mm H
0.25 m	0.7	0.5	0.5	0.5
0.50 m	1.0	1.0	1.0	1.0
0.75 m	1.5	1.5	1.5	1.5
1.00 m	2.0	2.0	2.0	2.0
1	2.5	2	2	2
1.50 m	3.0	3.0	3.0	3.0

Candela (Cd)
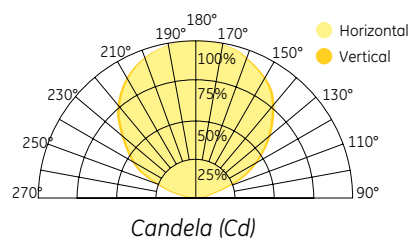
120° soft lens

Vertical and horizontal beam width (m)

	460 mm V	460 mm H	230 mm V	230 mm H
0.25 m	0.7	0.6	0.5	0.6
0.50 m	1.0	1.1	0.9	1.1
0.75 m	1.4	1.6	1.4	1.6
1.00 m	1.8	2.1	1.8	2.1
1.25 m	2.2	2.6	2.2	2.6
1.50 m	2.6	3.2	2.6	3.2

Candela (Cd)
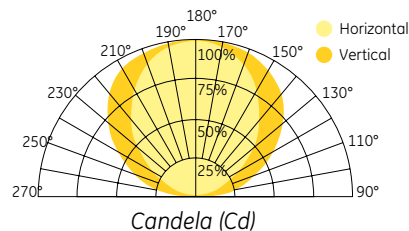
LED Retail Solutions

Product Code	Product Description	System wattage* [W]	Illuminance (Ave, Lux)**	CCT [K]***	Life [L70, h]	Pack Qty
Display Case LED lights - CCT 3500 K						
74217	LB24/35K	17.3	1500	3500	50000	1
74218	LB30/35K	21.6	1500	3500	50000	1
74219	LB36/35K	25.9	1500	3500	50000	1
74220	LB42/35K	30.2	1500	3500	50000	1
74221	LB48/35K	34.6	1500	3500	50000	1
74222	LB54/35K	38.9	1500	3500	50000	1
74223	LB60/35K	43.2	1500	3500	50000	1
74224	LB72/35K	51.8	1500	3500	50000	1

Product Code	Product Description	System wattage* [W]	Illuminance (Ave, Lux)**	CCT [K]***	Life [L70, h]	Pack Qty
Display Case LED lights - CCT 4200 K						
74225	LB24/42K	17.3	1500	4200	50000	1
74226	LB30/42K	21.6	1500	4200	50000	1
74227	LB36/42K	25.9	1500	4200	50000	1
74228	LB42/42K	30.2	1500	4200	50000	1
74229	LB48/42K	34.6	1500	4200	50000	1
74230	LB54/42K	38.9	1500	4200	50000	1
74231	LB60/42K	43.2	1500	4200	50000	1
74232	LB72/42K	51.8	1500	4200	50000	1

* Typical system power consumption including driver losses, when driven by recommended GE power supply – product code 74601

** Average lux on horizontal surface in 51x152 cm glass case with mirror back at 30 cm vertically from light source and with light source mounted 2.5 cm from front edge

*** Colour temperature (CCT) +/-5%

Product Code	Product Description	Item	Dimensions (H x W x D) [mm]	Pack Qty
Display Case Accessories				
74241	LB-WIRE-END (BEAUTY COVER)	Finishing Cover	25x33x3*	20
74243	LB-CLIP	Mount Clip (Standalone)	34x34x16	20
74244	LB-EXT-CLIP	Mount Clip (Integrated)	44x33x51	20
74245	LB-TUBE-MOUNT	Drop Tube Mount	69x23x31	20

* Visible length when inserted into end cap

Product Code	Product Description	Input Volts [V]	Wattage [W]	Output Voltage [VDC]	Pack Qty
Display Case LED Driver					
74601	GE060/G/V12T1-A	220-240	60	12	1

LED Retail Solutions

AL10 – LED modules

Product Code	Description Code	Product Code	Description Code	Voltage [V]	CCT [K]	CRI [Ra]	Lens Type	Length [mm]	Lumens per module	Watts per module	Lumens per Watt	Pack Qty
	White Fixture		Grey Fixture									
78867	LPL-W18-060C-927	78893	LPL-G18-060C-927	12	2700K	93	60° clear	460	290	6.8	43	10
78855	LPL-W09-060C-927	78881	LPL-G09-060C-927	12	2700K	93	60° clear	230	145	3.4	43	10
78871	LPL-W18-090C-927	78896	LPL-G18-090C-927	12	2700K	93	90° clear	460	290	6.8	43	10
78858	LPL-W09-090C-927	78884	LPL-G09-090C-927	12	2700K	93	90° clear	230	145	3.4	43	10
78874	LPL-W18-120C-927	78899	LPL-G18-120C-927	12	2700K	93	120° clear	460	290	6.8	43	10
78861	LPL-W09-120C-927	78887	LPL-G09-120C-927	12	2700K	93	120° clear	230	145	3.4	43	10
78878	LPL-W18-120D-927	78902	LPL-G18-120D-927	12	2700K	93	120° soft	460	290	6.8	43	10
78864	LPL-W09-120D-927	78890	LPL-G09-120D-927	12	2700K	93	120° soft	230	145	3.4	43	10
78868	LPL-W18-060C-930	78894	LPL-G18-060C-930	12	3000K	93	60° clear	460	300	6.8	44	10
78856	LPL-W09-060C-930	78882	LPL-G09-060C-930	12	3000K	93	60° clear	230	150	3.4	44	10
78872	LPL-W18-090C-930	78897	LPL-G18-090C-930	12	3000K	93	90° clear	460	300	6.8	44	10
78859	LPL-W09-090C-930	78885	LPL-G09-090C-930	12	3000K	93	90° clear	230	150	3.4	44	10
78875	LPL-W18-120C-930	78900	LPL-G18-120C-930	12	3000K	93	120° clear	460	300	6.8	44	10
78862	LPL-W09-120C-930	78888	LPL-G09-120C-930	12	3000K	93	120° clear	230	150	3.4	44	10
78879	LPL-W18-120D-930	78903	LPL-G18-120D-930	12	3000K	93	120° soft	460	300	6.8	44	10
78865	LPL-W09-120D-930	78891	LPL-G09-120D-930	12	3000K	93	120° soft	230	150	3.4	44	10
78870	LPL-W18-060C-940	78895	LPL-G18-060C-940	12	4000K	93	60° clear	460	320	6.8	47	10
78857	LPL-W09-060C-940	78883	LPL-G09-060C-940	12	4000K	93	60° clear	230	160	3.4	47	10
78873	LPL-W18-090C-940	78898	LPL-G18-090C-940	12	4000K	93	90° clear	460	320	6.8	47	10
78860	LPL-W09-090C-940	78886	LPL-G09-090C-940	12	4000K	93	90° clear	230	160	3.4	47	10
78877	LPL-W18-120C-940	78901	LPL-G18-120C-940	12	4000K	93	120° clear	460	320	6.8	47	10
78863	LPL-W09-120C-940	78889	LPL-G09-120C-940	12	4000K	93	120° clear	230	160	3.4	47	10
78880	LPL-W18-120D-940	78904	LPL-G18-120D-940	12	4000K	93	120° soft	460	320	6.8	47	10
78866	LPL-W09-120D-940	78892	LPL-G09-120D-940	12	4000K	93	120° soft	230	160	3.4	47	10
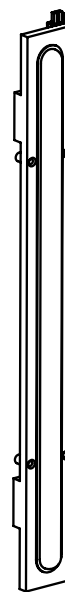
AL10 – Accessories

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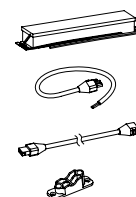
LED Retail Solutions

IMMERSION® RV30 Refrigerated Display Lighting - Single Packs

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

Bulk packs are also available for large installations, please contact your sales representative for details.

IMMERSION® RV40 Refrigerated Display Lighting - Single Packs

Product Code (Single)	Description	Item	Colour Temp [K]*	Lumens**	LPW	Avg Lux (CTR Door)**	Life (Hours)	CRI (Typical)	Power (Watts)***		Length (L)	Width (W)	Depth (D)
79777	GELT403050CTR-SY, -SB	30" LED Light - Center	5000	644	82.6	1270	50,000	75	7.8	(inch)	29.30	2.58	1.28
										(mm)	744.2	65.5	32.5
79778	GELT403050EDR-SY, -SB	30" LED Light - Right End	5000	379	90.2		50,000	75	4.2	(inch)	29.30	2.06	1.59
79779	GELT403050EDL-SY, -SB	30" LED Light - Left End								(mm)	744.2	52.4	40.4
79795	GELT403650CTR-SY, -SB	36" LED Light - Center	5000	652	78.6	1110	50,000	75	8.3	(inch)	35.16	2.58	1.28
										(mm)	893.1	65.5	32.5
79796	GELT403650EDR-SY, -SB	36" LED Light - Right End	5000	395	89.8		50,000	75	4.4	(inch)	35.16	2.06	1.59
79797	GELT403650EDL-SY, -SB	36" LED Light - Left End								(mm)	893.1	52.4	40.4
79741	GELT406050CTR-SY, -SB	60" LED Light - Center	5000	1070	66.9	930	50,000	75	16	(inch)	60.3	2.58	1.28
										(mm)	1532	65.5	32.5
79742	GELT406050EDR-SY, -SB	60" LED Light - Right End	5000	650	81.3		50,000	75	8	(inch)	60.3	2.06	1.59
79743	GELT406050EDL-SY, -SB	60" LED Light - Left End								(mm)	1532	52.4	40.4
79759	GELT407050CTR-SY, -SB	70" LED Light - Center	5000	1268	65.7	1030	50,000	75	19.3	(inch)	70.75	2.58	1.28
										(mm)	1797.1	65.5	32.5
79760	GELT407050EDR-SY, -SB	70" LED Light - Right End	5000	739	78.9		50,000	75	10	(inch)	70.75	2.06	1.59
79761	GELT407050EDL-SY, -SB	70" LED Light - Left End								(mm)	1797.1	52.4	40.4
79783	GELT403040CTR-SY, -SB	30" LED Light - Center	4000	606	77.7	1130	50,000	80	7.8	(inch)	29.30	2.58	1.28
										(mm)	744.2	65.5	32.5
79784	GELT403040EDR-SY, -SB	30" LED Light - Right End	4000	335	79.8		50,000	80	4.2	(inch)	29.30	2.06	1.59
79785	GELT403040EDL-SY, -SB	30" LED Light - Left End								(mm)	744.2	52.4	40.4
79801	GELT403640CTR-SY, -SB	36" LED Light - Center	4000	638	76.9	980	50,000	80	8.3	(inch)	35.16	2.58	1.28
										(mm)	893.1	65.5	32.5
79802	GELT403640EDR-SY, -SB	36" LED Light - Right End	4000	331	75.2		50,000	80	4.4	(inch)	35.16	2.06	1.59
79803	GELT403640EDL-SY, -SB	36" LED Light - Left End								(mm)	893.1	52.4	40.4
79747	GELT406040CTR-SY, -SB	60" LED Light - Center	4000	1070	59	990	50,000	80	18	(inch)	60.3	2.58	1.28
										(mm)	1532	65.5	32.5
79748	GELT406040EDR-SY, -SB	60" LED Light - Right End	4000	650	72		50,000	80	9	(inch)	60.3	2.06	1.59
79749	GELT406040EDL-SY, -SB	60" LED Light - Left End								(mm)	1532	52.4	40.4
79765	GELT407040CTR-SY, -SB	70" LED Light - Center	4000	1213	62.8	940	50,000	80	19.3	(inch)	70.75	2.58	1.28
										(mm)	1797.1	65.5	32.5
79766	GELT407040EDR-SY, -SB	70" LED Light - Right End	4000	695	69.5		50,000	80	10	(inch)	70.75	2.06	1.59
79767	GELT407040EDL-SY, -SB	70" LED Light - Left End								(mm)	1797.1	52.4	40.4

*Standard ANSI Colour Bins
**Initial illuminance (lux) +/-15% based on typical in-store performance. 60" and 70" fixtures measured at 6" throw.
***Data provided is subject to change at any time.

LED Retail Solutions

Product Description	Product Code	Item	Wattage [W]	CCT [K]*	Life [Hours]	Length [mm]	Width [mm]	Depth [mm]	Pack Qty
IMMERSION® RH10 Refrigerated Display Lighting - Single Packs									
GE-MT103651CANSY	**79637**	Canopy	21	5100	50,000	895	28	28	1
GE-MT103651USLSY	**79721**	Undershelf	7.2	5100	50,000	895	28	28	1
GE-MT104851CANSY	**79641**	Canopy	28	5100	50,000	1175	28	28	1
GE-MT104851USLSY	**79725**	Undershelf	10.25	5100	50,000	1175	28	28	1
GE-MT103640CANSY	**79623**	Canopy	21	4000	50,000	895	28	28	1
GE-MT103640USLSY	**79707**	Undershelf	7.2	4000	50,000	895	28	28	1
GE-MT104840CANSY	**79627**	Canopy	28	4000	50,000	1175	28	28	1
GE-MT104840USLSY	**79711**	Undershelf	10.25	4000	50,000	1175	28	28	1
GE-MT103630CANSY	**79609**	Canopy	21	3000	50,000	895	28	28	1
GE-MT103630USLSY	**79693**	Undershelf	7.2	3000	50,000	895	28	28	1
GE-MT104830CANSY	**79613**	Canopy	28	3000	50,000	1175	28	28	1
GE-MT104830USLSY	**79697**	Undershelf	10.25	3000	50,000	1175	28	28	1

Bulk packs are also available for large installations. Please contact your sales representative for details.
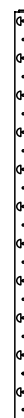
Product Description	Product Code	Item	Pack Qty
IMMERSION® RV30 Accessories			
GE-CV-LT3060CTR	**75974**	Universal Wire Cover - Center and End	20
GE-MC-LT3060CTR	**75971**	Universal Mounting Clip - Center	20
GE-MC-LT3060ED1	**75972**	Universal Mounting Clip - End #1	20
GE-MC-LT3060ED2	**75973**	Universal Mounting Clip - End #2	20

Product Description	Product Code	Item	Length [mm]	Width [mm]	Depth [mm]	Pack Qty
IMMERSION® RH10 Mounting clips						
GE-MT1000NCM01SY	**79733**	Universal Mounting Clip - L	26.3	30	23.3	2
GE-MT1000NCM01SB	**79734**	Universal Mounting Clip - L	26.3	30	23.3	36
GE-MT1000NCM02SY	**79735**	Universal Mounting Clip - U	26.7	30	18.1	2
GE-MT1000NCM02SB	**79736**	Universal Mounting Clip - U	26.7	30	18.1	36
IMMERSION® LED drivers						
GE080/G/V24T1-A	**74915**	LED Driver - 24 VDC/80 W	240	43	30	1
GE-PS1700NCMUL-SY	**78348**	LED Driver - 1.2 A/80 W	307	43	30	1

Defining shapes

Architecture Solutions

GE believes that environmental responsibility and beautiful architectural design can exist simultaneously.

GE's architectural LED systems give lighting designers all the creative flexibility they could wish for, and at the same time offer enormous savings in energy use. LEDs also ensure consistent long term performance.
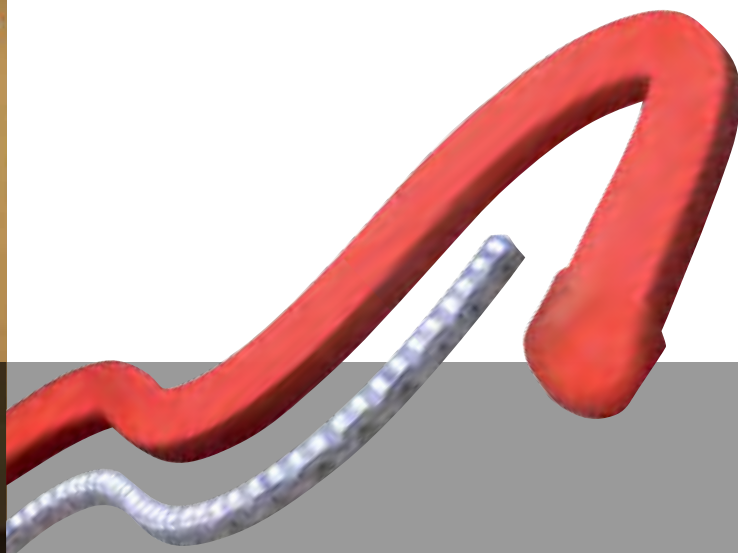
Bright areas

Backlighting
- Walls
- Ceilings
- Under cabinets

Retail

Hospitality
- Bars
- Reception areas
- Restaurants

Tetra® PowerGrid

Tetra PowerGrid is a modular, long-life, energy efficient LED system that replaces fluorescent light sources for applications that require broad and uniform lighting.

With several modules assembled on a robust strip, this GE Lighting solution allows high performance and steady illumination to emphasise backlit areas.

Features >>>	>>> Benefits
6 LEDs per module, strip set up	Enables modular, quick and easy installation
Robust and overmolded design	Impact resistant
50,000 hour lifetime and ongoing performance	Decreases maintenance costs
120° large viewing angle	Ensures optimal illuminance throughout the backlit area
2700, 3000, 3500, 4000, 5000 and 6500 K CCT	Wide range of colour temperatures available to fit all lighting environments
High efficiency	Up to 64% more efficient than fluorescent
No lead, mercury or glass	Eco-friendly

Dimensions (mm)

Candela (Cd) measurements taken at 6500 K
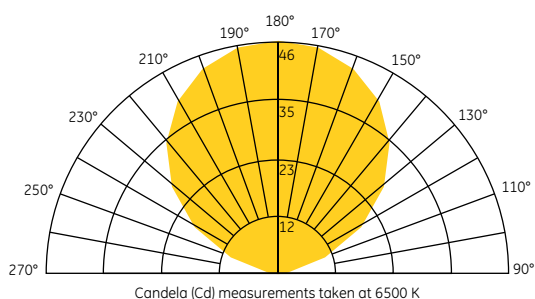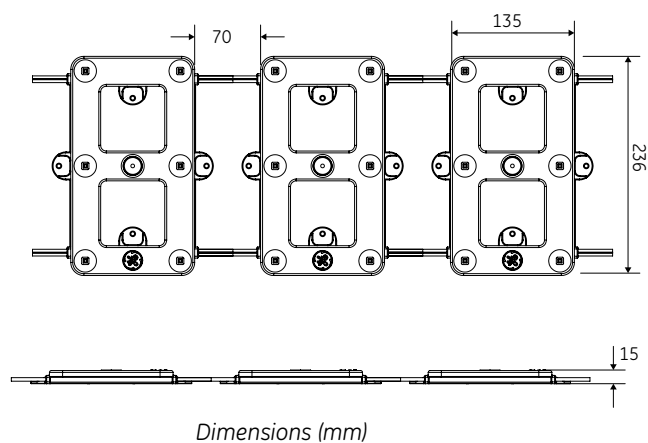
Shapely curves

Border lighting
Interior art
Cove
Accent lighting

Tetra® Contour

Tetra® Contour is the modern light source designed to hug and highlight architectural shapes perfectly.

This system is comprised of a flexible LED light engine and a rigid, optically diffused light guide. It can be heat formed to fit a wide variety of applications. With multiple colours to choose from, architects can mix-n-match components to create bold designs and attractive accent lighting without the typical worries of working with fragile neon glass.

Features >>>	>>> Benefits
High efficiency	Up to 40% more efficient than neon
2700, 3000, 3500, 4000, 5000 and 6500 K CCT	Wide range of colour temperatures available to fit all lighting environments
Red, Green, Blue colours	For decorative and entertaining purposes
Entirely flexible light engine	Fits into narrow spaces and complex curves
Robust & overmolded design	Impact resistant
Extra large viewing angle: 330° with light guide	Outstanding visual appeal
50,000 hour lifetime and ongoing performance	Decreases maintenance costs
IP66 rated	LED light engine combined with its light guide can be used in dry, damp or wet locations
No lead, mercury or glass	Eco-Friendly

Dimensions (mm)

light engine   light engine with light engine clip   light engine, light guide & mounting clip

Light Engine with Light guide

Light Engine
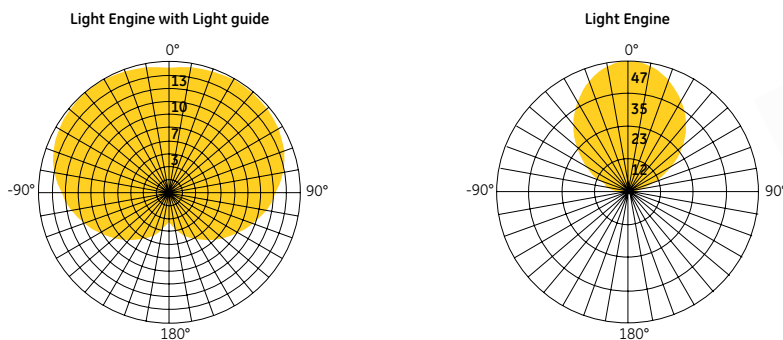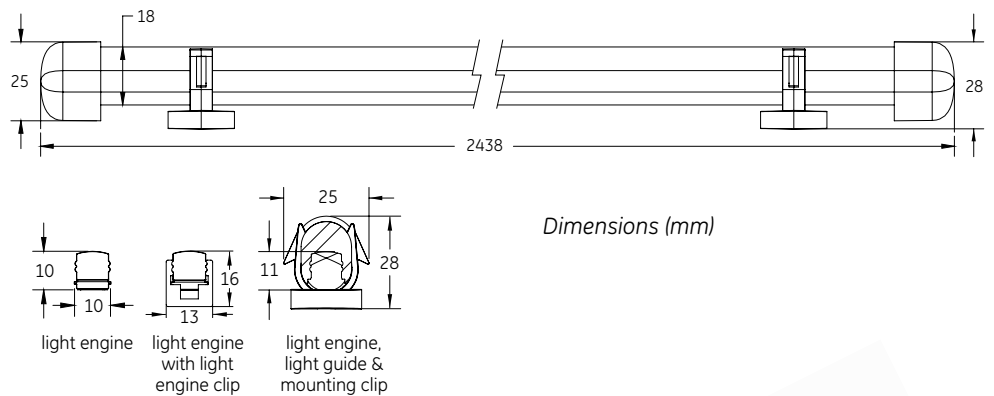
Candela (Cd) measurements taken at 6500 K

Huge visual punch

Border lighting
Interior art
Cove
Accent lighting

LED Tetra® miniMAX

Tetra® miniMAX is a low profile LED system that combines high-brightness with OptiLens™, a patent-pending optical lens that distributes brilliant and uniform light in a wide 155 degree angle.

Therefore this unique fixture delivers a huge visual punch in small or shallow spaces. With several modules assembled on a flexible string, designers can fulfil a large number of architectural needs.

Features >>>	>>> Benefits
Up to 40% more energy	Efficient than neon
2 LEDs per module	Flexible system
Wide range of white and RGB colours	For decorative purposes
Large viewing angle: 155°	Bright uniform light distribution
Robust & overmolded design	Impact resistant
Entirely flexible light engine	Fits into narrow spaces and complex curves
Contains no lead, mercury or glass	RoHS compliant
Long rated life of 50,000 hours	Decreases maintenance costs

Dimensions (mm)
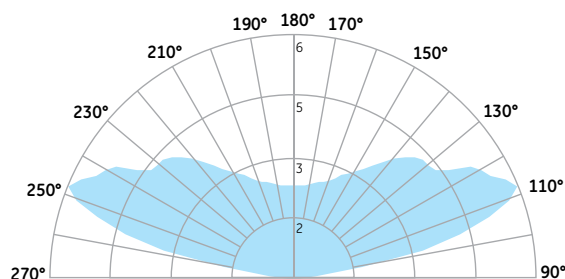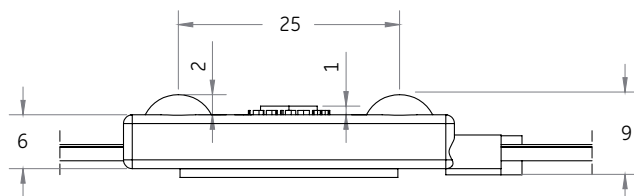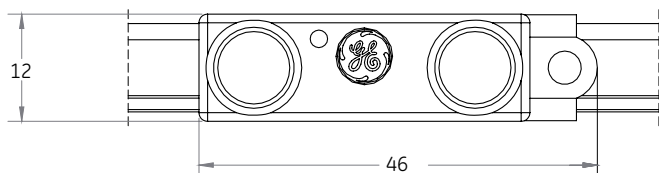
Candela (Cd) measurements taken at 6500K.
IES and LDT files can be downloaded at
http://www.gelighting.com/eu/led

Long lasting style

LED Cove Lighting

GE's LED Cove system is renowned for its ease of installation, exceptional efficacy and long life. It solves most of the problems associated with architectural cove lighting.

This system has been specially designed for illumination of long runs. Each LED fixture consumes just 6.5 watts and delivers high quality white light at outstanding efficiency - up to 49 lumens per watt. LED Cove is powered directly from line voltage thanks to its integral electronics.

Because LEDs are subject to very little loss of output, areas stay uniformly lit throughout the life of an installation, with no dark spots or shadows caused by premature lamp failure.

Features >>>	>>> Benefits
High efficiency	7 times more efficient than neon
50,000 hour lifetime and ongoing performance	Decrease maintenance costs
30 cm long fixtures and flexible connectors	Allow lighting around curves and corners
Up to 330 units connected to a single main outlet	Fast and hassle-free installation
Dimmable system with electronic low voltage reverse phase control dimmer	No additional components are needed, thus saving installation cost
Mounting tracks in 3 different positions	Controls light direction for maximum versatility

Dimensions (mm)

286

325

48

53

Efficiency comparison (warm white)

	System efficacy (lumens per watt)
GE LED Cove 3000 K	
Cold Cathode	
LED Cove - Competitor 1	
LED Cove - Competitor 2	
Neon	
Halogen	
Xenon	

System efficacy (lumens per watt)

Part L Building regulation guideline
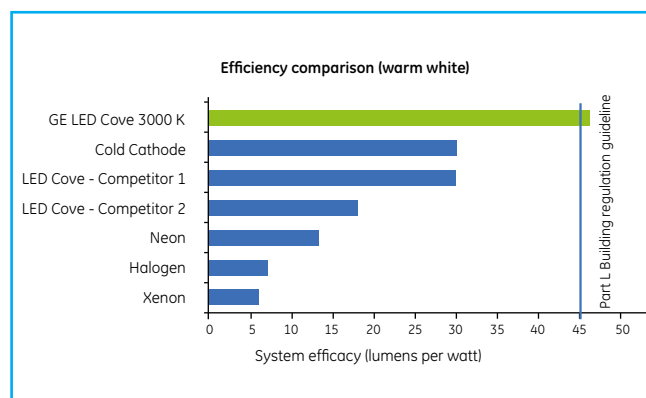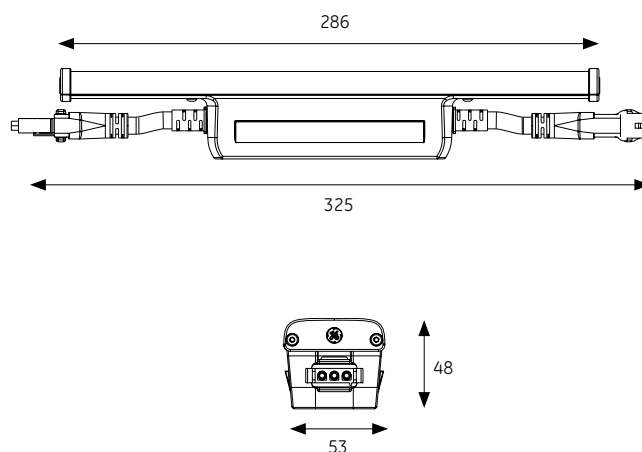
Mounting tracks in three angles

0°   15°   30°

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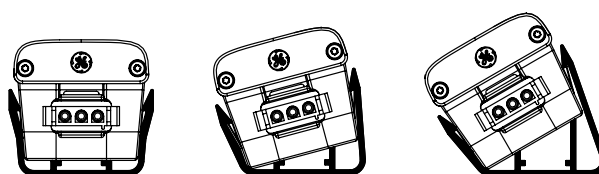
Cove Lighting System – LED Fixtures
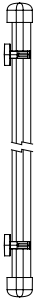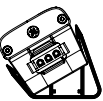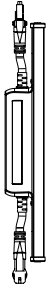
Product Code	Product Description	Wattage [W]	Volts [V]	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Length [mm]	Pack Qty
73100	LC12/727/240V	6.5	220-240	290	2700	70	50,000	325.0	10
73101	LC12/730/240V	6.5	220-240	300	3000	70	50,000	325.0	10
73826	LC12/741/240V	6.5	220-240	320	4100	77	50,000	325.0	10

Cove Lighting System: – Mounting track

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

– Jumper Cable (JC) & Leader Cable (LC)

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

Tetra® Contour – LED light engines

Product Code	Product Description	LED Colour	Wavelength/ Colour Temp	Viewing Angle (light engine)	Viewing Angle (light engine w/ light guide)	Lumens per metre (light engine)	Lumens per metre (light engine w/light guide)	Watts per metre (light engine)	Watts per metre (system)	Pack Qty*
75481	GERDXNLE1-A	Red	625nm	110	330	194	154	10.63	12.50	12
75484	GEGLXNLE1-A	Green	532nm	110	330	331	180	9.45	11.12	6
75485	GEBLXNLE1-A	Blue	467nm	110	330	75	62	9.45	11.12	6
75487	GEWWXNLE1-27K-A	White	2700K	110	330	351	230	9.45	11.12	6
75488	GEWWXNLE1-30K-A	White	3000K	110	330	384	249	9.45	11.12	6
75489	GEWWXNLE1-35K-A	White	3500K	110	330	410	266	9.45	11.12	6
75490	GEWWXNLE1-40K-A	White	4000K	110	330	430	279	9.45	11.12	6
75493	GEWHXNLE1-50K-A	White	5000K	110	330	512	331	9.45	11.12	6
75486	GEWHXNLE1-65K-A	White	6500K	110	330	472	308	9.45	11.12	6

*Each LED light engine is 2.4 metres length

Tetra® Contour – Accessories

Product Code	Description Code	Product Description	Quantity
75514	9409	18 AWG Supply Wire (0.82 mm²)	152.4 m/PK
75494	GEXNWB2	Weather Box (Outdoor Use Only)	20/PK
75498	GEXNMCAC	Light Engine Mounting Clip	20/PK
75520	GEXNMC15	Light Guide Mounting Clip	50/PK
75537	GEXNBA	Silicone Bend-Aid (Reuseable)	12/PK
75541	GEXNLG15	Tetra Contour Light Guide (2.44 m) - White	12/PK
75532	GEXNLGEC15	Tetra Contour Light Guide End Cap - White	20/PK
75533	GEXNLGC15	Tetra Contour Light Guide Connector - White	20/PK
74917	GE020/G/V24T1-B	LED Driver 24 VDC/20 W	1/PK
74915	GE080/G/V24T1-A	LED Driver 24 VDC/80 W	1/PK

To get a full list of accessories, please download Contour "Parts Guide" at www.gelighting.com/eu/led/

Tetra® Contour - Accessories

Tetra® Contour Light Guide

Light Guide End Caps

Supply Wire

Light Guide Bend-Aid

Weather Box

Light Guide Connectors

Light Guide Corners

Mounting Clips

Architecture Solutions

Tetra® miniMAX – Performance Data

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

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

Tetra® miniMAX – Accessories

Product Code	Description Code	Product Description	Quantity
75514	9409	18 AWG Supply Wire (0.82 mm²)	152.4 metres/PK
75608	192160005	22-18 AWG In-line Splice Connector (0.33-0.82 mm²)	500/PK

Tetra® miniMAX – Technical Specifications

Module Dimensions	9 mm x 12 mm x 46 mm
Package Quantity	5 strips of 50 modules each/ 30.48 metres in total
GE LED Drivers	74914 (GE020/G/V12T1-B), 74601 (GE060/G/V12T1-A)
Operating Voltage	12 VDC
Minimum Loading	74914, 74601: 0.30 m/3 modules
Maximum Loading	74914: 3.66 m/30 modules, 74601: 10.97 m/90 modules
Ambient Temperature	-40°C to +60°C
Limited Warranty	Up to 5 years
IP Rating	IP52: Dry or damp location rated

Tetra® PowerGrid – LED strips

Product Code	Description Code	LED Colour	Wavelength/ Colour Temp	Viewing Angle (light engine)	LEDs per module	Modules per metre	Lumens per module	Watts/module (Strip)	Watts/Module (System)	Pack Qty*
75547	GEWWPGP6-27K-A	White	2700K	120	6	~5	94	3.6	4.2	1
75548	GEWWPGP6-30K-A	White	3000K	120	6	~5	102	3.6	4.2	1
75549	GEWWPGP6-35K-A	White	3500K	120	6	~5	110	3.6	4.2	1
75550	GEWWPGP6-40K-A	White	4000K	120	6	~5	115	3.6	4.2	1
75551	GEWHPGP6-50K-A	White	5000K	120	6	~5	136	3.6	4.2	1
75552	GEWHPGP6-65K-A	White	6500K	120	6	~5	126	3.6	4.2	1

* Each LED strip contains 21 modules
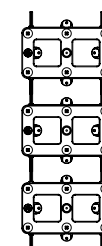
Tetra® PowerGrid – Accessories

Product Code	Description Code	Product Description	Quantity
75514	9409	18 AWG Supply Wire (0.82 mm²)	152.4 metres/PK
75545	192160004	18-14 AWG In-line Splice Connector (0.82-2.08 mm²)	500/PK
75546	GEPGEC1	18 AWG Wire End Caps (0.82 mm²)	100/PK
74917	GE020/G/V24T1-B	LED Driver 24 VDC/20 W	1/PK
74915	GE080/G/V24T1-A	LED Driver 24 VDC/80 W	1/PK

Sustainable efficiency

Outdoor

GE's LED technology has many advantages for outdoor lighting, providing 50,000 hours rated life and greatly reducing energy consumption. This results in major reductions on running costs. LED technology also delivers fittings that can be designed with improved photometry and excellent light quality, giving lighting designers far more control over their installations. The superior photometry of LED fittings also means less light spillage into areas where it is not wanted.

Site light

Site lighting
Area lighting
General lighting
- Retail
- Street lighting
- Commercial lighting

LED Area Lighter

The GE LED Area Lighter is perfect for site, area and general lighting. It utilises an advanced LED optical system providing uniformity, improved vertical light distribution, reduced off-site and on-site glare and effective security light levels.

It combines strength with reliability and incorporates all the features expected of a new generation of luminaires. Optimal photometric performance is achieved thanks to LED technology, minimising light pollution.

Features >>>	>>> Benefits
50,000 hours rated life (L85) light engine enclosure	10-12 years of operation before replacement
85% lumen maintenance at 50,000 hours	Consistent light output over life
Increased output efficiency and instant-on	30-60% reduced energy consumption
Improved photometry	Uniform light with good visibility
Increased CRI (70) and higher colour temperature (5700 K)	Security aid - objects can be correctly identified
RoHS compliance	Reduced waste disposal
Solid state light source. Robust design, excellent vibration resistance	Durable and long lasting
Operation in cold temperatures	Reliable light level maintenance with temperature gradients. Also enables cold temperature operation
High degree of ingress protection	Long life & low maintenance
Die-cast aluminium IP65 housing	Robust design
85% lumen maintenance at 50,000 hours	Consistent light output over life
Increased output efficiency and instant-on	30-60% reduced energy consumption
Modular design that provides 34 photometric combinations, in two colour temperatures - 4000K and 5700K (CRI 70)	Security aid - objects can be correctly identified
Solid state light source. Excellent vibration resistance	Durable and long lasting
Integral dimmable analogue driver	Saves energy costs

46 different luminaires

The unique modular construction of the new LED Area Lighter enables it to be supplied in 46 different configurations of optics and light sources to cover every area lighting application.

LED modules
Single LED module
Double LED module

Lumens
Choice of lumen output from 31,300 to 14,800 lumens

Colour options
4000K
5700K

Light distribution

Symmetric medium

Symmetric short

Asymmetric forward

Asymmetric wide

Modular technology

Fixture

Light engine module

Heat sink

Metalised optics

Power supplies

Power door

PCBA
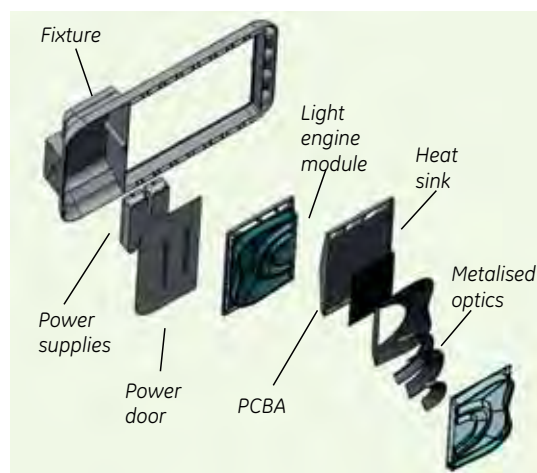
Multiple choice

Amenity lighting
Pedestrian
Street lighting

Iberia LED

Iberia LED is part of GE's commitment to provide lighting products that are both energy efficient and effective. With a stylish design and a wide range of different mounting options, Iberia LED is a versatile luminaire suitable for architectural and urban environments, as well as roadway lighting.

In wattages up to 90 W, it is available with symmetrical and asymmetrical distribution. Coupled with the other options that are available, this makes Iberia LED a highly versatile luminaire for amenity lighting, pedestrian areas and squares.

Mounting options

SP6
POST-TOP Ø60

DP6
POST-TOP Ø60
DOUBLE

SP7
POST-TOP Ø76

DP7
POST-TOP Ø76
DOUBLE

WM
WALL

AT
POLE Ø60

TP6
POST-TOP Ø60
TRIPLE

TP7
POST-TOP Ø76
TRIPLE

P1
PENDANT 1"

Features >>>	>>> Benefits
Integral dimmable analogue driver	Enables remote monitoring and control
Optimised photometry	Uniform light levels and excellent vertical illuminance, increased security and visual comfort
Symmetrical or asymmetrical distribution	Lighting design flexibility
High colour rendering of 70	Reduced contrast and improved pedestrian recognition
Die-cast aluminium housing	Ease of access and long life
50,000 hour life	Low maintenance costs
Wide range of accessories	Multiple fixing options
RoHS compliant, no mercury	Environmentally responsible
85% lumen maintenance at 50,000 hours	Light level is maintained throughout life
Limited wattage up to 90 W	Save energy up to 60%
5700 and 4100 Kelvin	Adapts to any environment
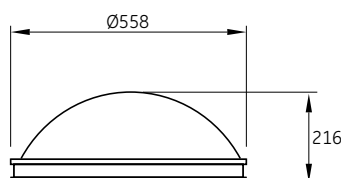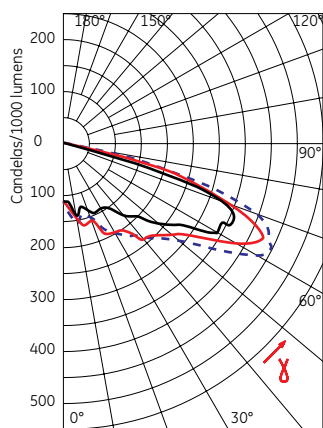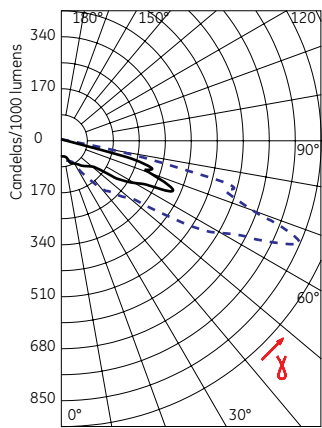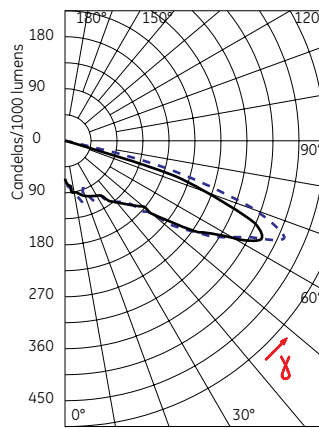
Ø558

Dimensions (mm)

216

Type III: asymmetric distribution (street type).

Type IV: asymmetric distribution.

Type V: symmetric distribution.

Longitudinal ———

Transverse ———

Principal - - - - -

Distribution Type III

Distribution Type IV

Distribution Type V

Urban style

Residential areas
Parks and gardens
Pedestrian walkways
Squares

Duna LED

The perfect combination of aesthetics and functionality, Duna LED is ideal for efficient lighting of residential areas, parks and gardens, commercial centres, pedestrian walkways and squares.

Duna LED is a decorative luminaire of truncated cone design, using LED technology up to 90 W with symmetrical and asymmetrical distributions. It is isolated from the environment with IP65 protection.

Features >>>	>>> Benefits
Integral dimmable analogue driver	Enables remote monitoring and control
LED technology up to 88 W	High light output, low energy
Symmetrical and asymmetrical distribution	Lighting design flexibility
CRI 70, CCT 4100 and 5700 Kelvin	Reduced contrast and improved pedestrian recognition
Die-cast aluminium housing	Ease of access and long life
50,000 hour life L85	Low maintenance costs
Upper housing: one-piece spun aluminium	Robust and long lasting

Dimensions (mm)
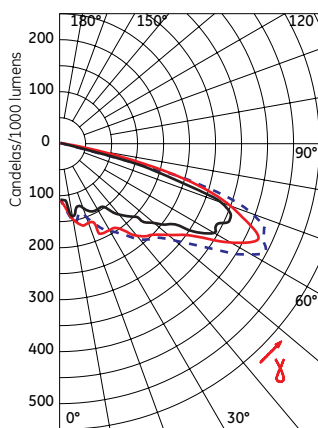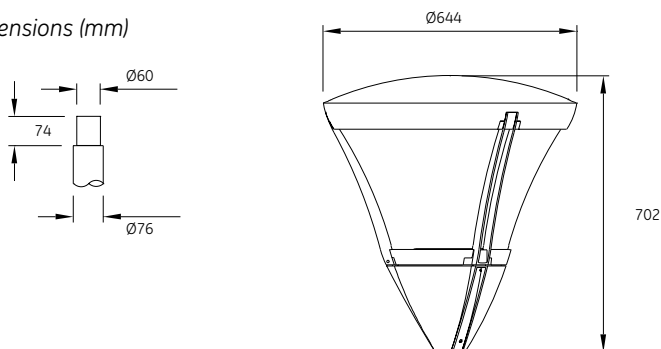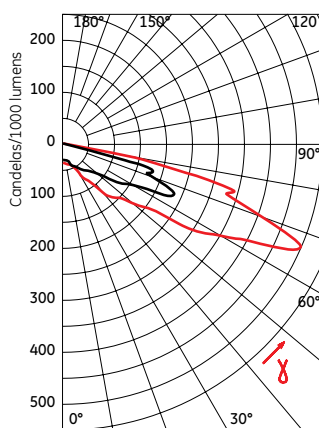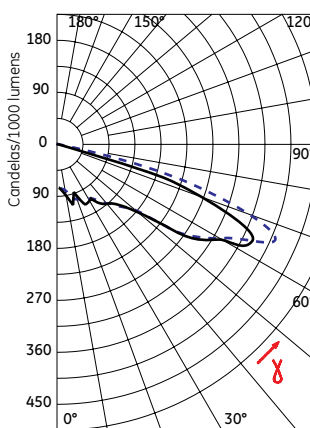
Ø60
74
Ø76

Ø644
702

Type III: asymmetric distribution (street type).

Type IV: asymmetric distribution.

Type V: symmetric distribution.

Longitudinal ———
Transverse ———
Principal - - - -

Distribution Type III

Distribution Type IV

Distribution Type V

End to end safety

LED Tunnel

The perfect combination of aesthetics and functionality, GE's LED Tunnel luminaire is ideal for efficient lighting of low speed tunnels as well as underpasses, parking garages and industrial areas.

The luminaire helps to create a safe environment for traffic, with white light for improved visibility and comfort, as well as providing an outstanding six year, 24/7 life.

Thanks to the advanced LED optical systems the fixture provides high uniformity and improved vertical light distribution.

Features >>>	>>> Benefits
Integral dimmable analogue driver	Enables remote monitoring and control
Only 90 W system consumption	High light output, low energy
CRI 70 and 5700 K	Good visibility, safe lighting
Hermetically sealed to IP 66	Reduced maintenance
Choice of optics	Flexible installation options
Die cast aluminium housing	Robustness
Integral dimmable analog driver	Easy to control and dim

Ceiling mounted   *Wall mounted*

Dimensions (mm)

514

300

223

321
271

162

296

139

93

2964
2223
1482
741
2
1
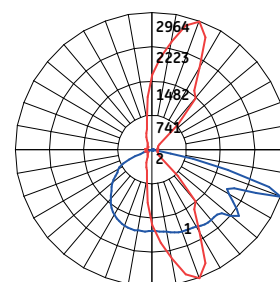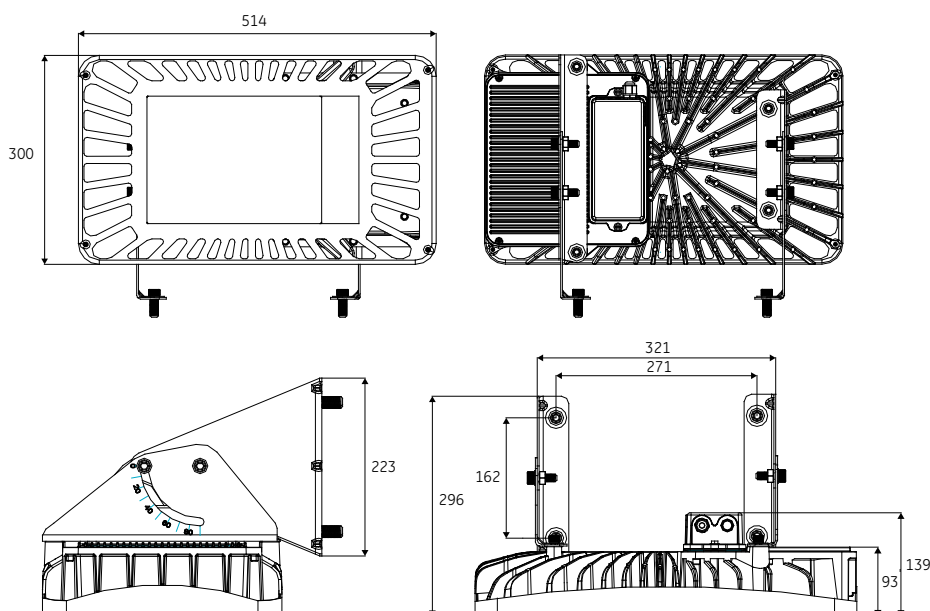
Asymmetric medium / Type 3

4920
3690
2460
1280
2
1
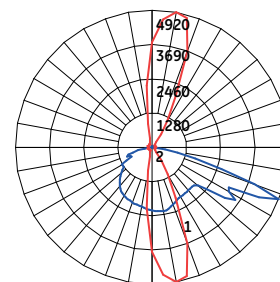
Asymmetric wide / Type 2

3138
2354
1569
785
2
1
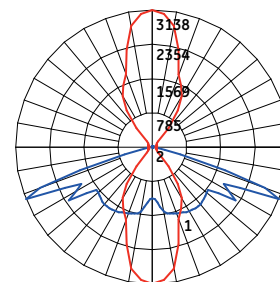
Asymmetric medium / Type 5

Targeted lighting

LED Floodlight

GE's LED Floodlight uses LED technology and specialised optical designs to offer a truly flexible range, with minimal energy consumption, for use in creative architectural lighting, area floodlighting and sign illumination.

The LED Floodlight delivers light exactly where it is required – uniform lighting with no hot spots and with improved lighting of upper areas of buildings. The optical assembly is hermetically sealed, providing IP65 protection.

Features >>>	>>> Benefits
Just 90 W system consumption	High light output, low energy
Three colour temperatures - 3000, 4300 and 6000 K	Helps to enhance a building's exterior
5 different optical versions	The right solution for a big range of applications
Advanced LED optical system	Maximise the utilisation of light onto the target area
Three mounting versions	Flexible installation options

Dimensions (mm)

517
453
355
388
108
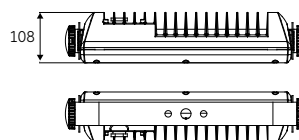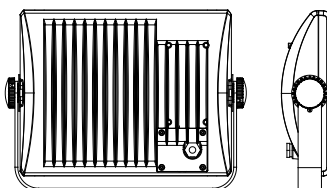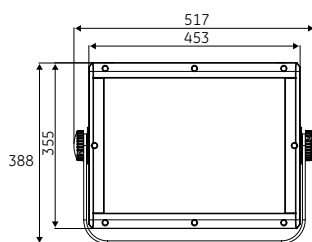
Choice of optics

Narrow Spot NEMA	(1×1)
Medium Flood NEMA	(5×5)
Wide Flood NEMA	(6×5)
Poster NEMA	(6×5)
Bulletin NEMA	(5×4)

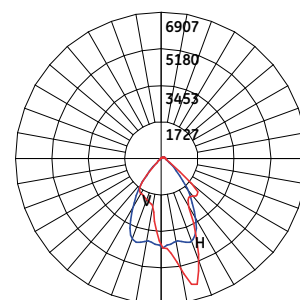Choice of five different optical versions, all with a maximum system consumption of 90 W.

The Poster and Bulletin distributions are specifically designed for sign lighting applications - with the luminaire facing the vertical plane of the sign.
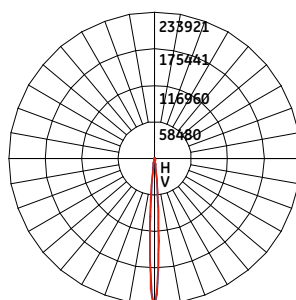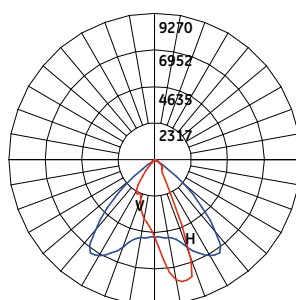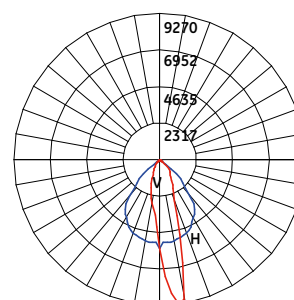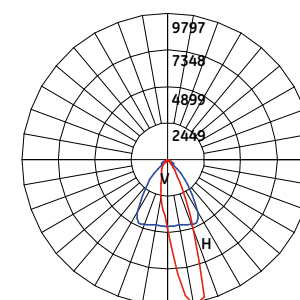
4300 K narrow spot
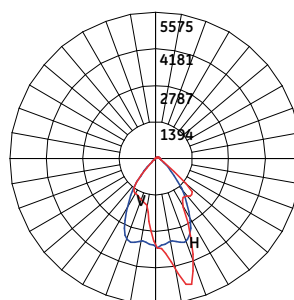
3000 K medium flood

4300 K medium flood

4300 K wide flood

4300 K poster

4300 K bulletin

The future is LED

Site lighting
Area lighting
General lighting
- Retail
- Street lighting
- Commercial lighting

New outdoor products

LED Road R250 luminaire

The new LED Road R250 luminaire features an advanced LED optical system that provides improved horizontal and vertical uniformity, reduced glare and improved lighting control compared with traditional metal halide lighting systems.

It provides a 30-50% reduction in system energy consumption and an estimated service life of more than 10 years (50,000 hour rated life), which means low maintenance. Reduced glare improves safety and visual comfort.

- High efficiency to meet rigorous photometric requirements

- System rating 50,000 hours L80 to reduce maintenance

- White light with desirable colour temperature 6000K and 4000K with CRI 70 for visual comfort

- **Integral dimmable analogue driver for remote monitoring and control**

- IP65 for both optical and gear compartment

- System consumption from 39W to 237W (scalable every 20W)

- Meets 2G vibration standards

Outdoor

Product Description	Number of modules	Optics	Number of LEDs	Wattage [W]	Product Code	Product Code
LED Area Lighter					5700K	4000K
ALE SINGLE/ASY3/50/CCT	SINGLE	Asymmetric Forward	24	50	524835	524852
ALE SINGLE/ASY3/63/CCT	SINGLE	Asymmetric Forward	32	63	524836	524853
ALE SINGLE/ASY3/76/CCT	SINGLE	Asymmetric Forward	40	76	524837	524854
ALE SINGLE/ASY3/89/CCT	SINGLE	Asymmetric Forward	48	89	524838	524855
ALE SINGLE/ASY3/101/CCT	SINGLE	Asymmetric Forward	56	101	524839	524856
ALE DOUBLE/ASY3/126/CCT	DOUBLE	Asymmetric Forward	64	126	524840	524857
ALE DOUBLE/ASY3/139/CCT	DOUBLE	Asymmetric Forward	72	139	524841	524858
ALE DOUBLE/ASY3/152/CCT	DOUBLE	Asymmetric Forward	80	152	524842	524859
ALE DOUBLE/ASY3/165/CCT	DOUBLE	Asymmetric Forward	88	165	524843	524860
ALE DOUBLE/ASY3/178/CCT	DOUBLE	Asymmetric Forward	96	178	524844	524861
ALE DOUBLE/ASY3/190/CCT	DOUBLE	Asymmetric Forward	104	190	524845	524862
ALE DOUBLE/ASY3/202/CCT	DOUBLE	Asymmetric Forward	112	202	524846	524863
ALE DOUBLE/SM5/101/CCT	DOUBLE	Symmetric Medium	48	101	524847	524864
ALE DOUBLE/SM5/126/CCT	DOUBLE	Symmetric Medium	64	126	524848	524865
ALE DOUBLE/SM5/152/CCT	DOUBLE	Symmetric Medium	80	152	524849	524866
ALE DOUBLE/SM5/178/CCT	DOUBLE	Symmetric Medium	96	178	524850	524867
ALE DOUBLE/SM5/202/CCT	DOUBLE	Symmetric Medium	112	202	524851	524868
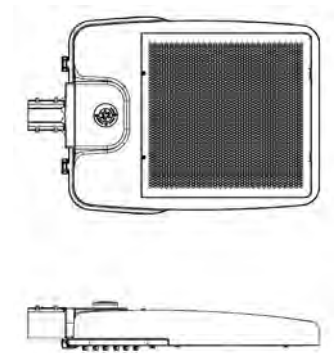
Optics	Type	Colour Temp.	System Consumption	Suggested Application
LED Floodlight				
Narrow Spot NEMA (1x1)	Symmetric		90W	Architectural, Accent Lighting
Medium Flood NEMA (5x5)	Asymmetric Medium	6000, 4300, 3000K	90W	Site, Façade Lighting
Wide Flood NEMA (6x5)	Asymmetric Wide		90W	Site, Façade Lighting
Poster NEMA (6x5)	Asymmetric Medium		90W	Sign Lighting
Bulletin NEMA (5x4)	Asymmetric Wide		90W	Sign Lighting
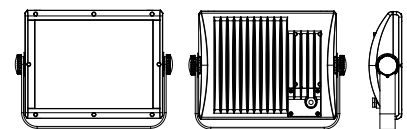
| Product Description	Number of modules	Optics	Wattage [W]
LED Road R250			
R250 SINGLE/ASY3/39/CCT	SINGLE	Asymmetric Type III	39
R250 SINGLE/ASY3/59/CCT	SINGLE	Asymmetric Type III	59
R250 DOUBLE/ASY3/78/CCT	DOUBLE	Asymmetric Type III	78
R250 DOUBLE/ASY3/98/CCT	DOUBLE	Asymmetric Type III	98
R250 DOUBLE/ASY3/118/CCT	DOUBLE	Asymmetric Type III	118
R250 TRIPLE/ASY3/138/CCT	TRIPLE	Asymmetric Type III	138
R250 TRIPLE/ASY3/158/CCT	TRIPLE	Asymmetric Type III	158
R250 TRIPLE/ASY3/178/CCT	TRIPLE	Asymmetric Type III	178
R250 QUADRUPLE/ASY3/197/CCT	QUADRUPLE	Asymmetric Type III	197
R250 QUADRUPLE/ASY3/217/CCT	QUADRUPLE	Asymmetric Type III	217
R250 QUADRUPLE/ASY3/237/CCT	QUADRUPLE	Asymmetric Type III	237
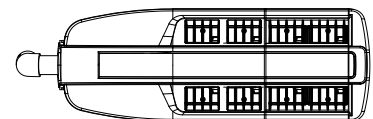
Wattage [W]	Product Description	Optics	Product Code
Tunnel LED			
90	TUNNEL LED/AM ASY3	Asymmetric Medium	524678
90	TUNNEL LED/AW ASY2	Asymmetric Wide	524677
90	TUNNEL LED/SY SYM5	Symmetric	233003
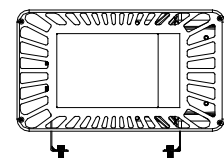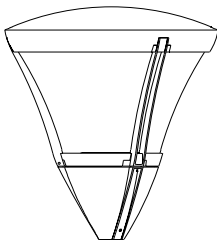
Iberia LED

Wattage [W]	Product Description	Optics	Product Code
90	IBERIA/E/LED ASY3/41 GRIS 150 SABLE	Type III	78106
63	IBERIA/E/LED ASY4/41 GRIS 150 SABLE	Type IV	78112
90	IBERIA/E/LED SYM5/41 GRIS 150 SABLE	Type V	78107

Duna LED

Wattage [W]	Product Description	Colour Temp.	Optics	Product Code
88	DUNA LED SYM5/41	4100	Type V	524553
88	DUNA LED SYM5/57	5700	Type V	524554
88	DUNA LED ASY3/41	4100	Type III	524555
88	DUNA LED ASY3/57	5700	Type III	524556
63	DUNA LED ASY4/41	4100	Type IV	524557
63	DUNA LED ASY4/57	5700	Type IV	524558

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