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

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

The benefits of using LEDs can include:

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

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









Advanced lighting technologies

Best Quality and Most Stable Light



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



Innovative Designs

GE LED Display Case Innovative optics combine ambience with sparkle



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

Outstanding Reliability





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



Best in Class Award





Advanced lighting technologies – Retrofit upgrades







GE LED 7W R63 FL

- 20% more candela than 50W halogen 87% energy saving
- Similar output to 20W electronic halogen PAR20 67% energy saving
- 10 times rated life of standard halogen, and 4 times rated life of electronic halogen, to 70% lumen maintenance
- Warm white 3000K
- Excellent colour rendering 80+

Vio High Power White LED The look that lasts™

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

The Vio LED story

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

Colour stability over life

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

High flux package in warm white colours

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





Application areas

- led.com

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





GE LED Display Case Lighting System **Better light Better opportunities**

The ultimate energy saving display case solution

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

How LED can save money and help the environment

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

- 81% saving in energy consumption and CO₂ emissions
- 12 year life of the LED system eliminates lamp replacement costs
- 64% reduction in total cost of ownership over LED useful lifetime

LED

Display Case

2.4 year payback

Total cost of ownership

€1000 €800

€600

€400

€200

0

Enerau cost

Initial fixture cost

Replacement lamp cost



Halogen MR11



of ownership €1000

Cummalative cost

€800

€600

€400

€200

0

Halogen MR11

LED Display System

6 8 10 12

Years from installation







LED Display System

Haloaen MR11

Assumptions Energy cost of €0.10 per kWh. 0.536 kg CO₂ 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



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LED Cove **Lighting System Energy efficient** light that lasts

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

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

Advanced thermal management design optimises efficiency, performance and life System design delivers uniform light and eliminates shadows

Integrated technology eliminates the need for remote mounting power supplies

> 40 45 50

Hard usage 16-gauge wire with quick-connect plugs eliminates complex wiring and enables long runs

Cut-to-fit mounting tracks available in 0°, 15° or 30° angles securely lock fixtures into place to provide straight and accurate illumination in the cove









Useful lifetime comparison





12 %

Selector

MR16 Mains Voltage



GU10 1W Voltages: 220-Beam Spread: 20° 220-240V 12,000Hrs 15



GU10 4W 230, 240V 15, 000Hrs 15

PAR16 & R50 **Mains Voltage**





High Output R50 Cap: E14 Wattages: 4W 230, 240V Voltages: Beam Spread: 36° Life: 15,000Hrs Page: 15

MR16 Low Voltage



Décor

R63 Mains Voltage

High Output Cap: E27, B22 Wattages: 7W 220-240V Voltages: Beam Spread: 20, 36° 20,000Hrs Life: Page: 15

REALSS

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Product identification

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



Additional parameters:

LED High Output Range - R63



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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			
LED H	ligh Ou	tput R	ange - (GU10											_
4 4	230 240	GU10 GU10	LEC	04/GU10/830/230V/WFL 04/GU10/830/240V/WFL	752 752	80 81	225 225	36 36	3100 3100	80+ 80+	15,000 15,000	50 50	57 57	8 8	
LED H	ligh Ou	tput R	ange - F	350											
4 4	230 240	E14 E14	LED4	e/R50/830/230V/WFL/E14 e/R50/830/240V/WFL/E14	752 752	88 89	225 225	36 36	3100 3100	80+ 80+	15,000 15,000	50 50	76 76	8 8	
LED H	ligh Ou	tput R	ange - F	863											
7 7 7	220-240 220-240 220-240	E27 E27 B22	LED7/ LED7/R LED7/	R63/827/220-240V/FL/E27 863/827/220-240V/WFL/E27 R63/827/220-240V/FL/B22	760 760 760	93 94 99	1200 520 1200	20 36 20	2700 2700 2700	80+ 80+ 80+	20,000 20,000 20,000	63 63 63	101 101 101	8 8 8	
7 7 7 7	220-240 220-240 220-240 220-240	E27 E27 E27 B22	LED7/R LED7/R LED7/R LED7/	R63/82//220-240V/WFL/822 R63/830/220-240V/FL/E27 R63/830/220-240V/WFL/E27 R63/830/220-240V/FL/B22	761 752 752 752	00 94 96 95	520 1200 520 1200	36 20 36 20	2700 3000 3000 3000	80+ 80+ 80+ 80+	20,000 20,000 20,000 20,000	63 63 63 63	101 101 101 101	8 8 8 8	
Colour	Mattage [W]	B22 [A] stiloy	LED7/R	63/830/220-240V/WFL/B22 ion ton booge uct	752	Broduct Code	520 Candela [cd]	36 Beam Anale [°]	3000 CCT [K]	+08 CRI [Ra]	20,000 Life (L70, h)	Diameter [mm]	101 [ength [mm]	Pack Qty $^{\otimes}$	
	Décor Ro	ange -	GU10												
White Red Blue	1 1 1	220-240 220-240 220-240	GU10 GU10 GU10	LED/GU10 1W 220-240V LED GU10 1W 220-240V LED GU10 1W 220-240V		96736 96737 96738	80 80 40	20 17 17	5000 N/A N/A	70+ N/A N/A	12,000 12,000 12,000	50 50 50	57 57 57	10 10 10	
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	
	Décor Re	ange -	MR16												
1	12	GU5.3	LEC	0 MR16 GU5.3 1W 12V	96739	80)	20	5000	70+	12,000	50	50.5	10	=[(
	Décor R	ange -	PAR16												
1	220-240	E14	LED P	PAR16 E14 1W 220-240V	96740	80	1	20	5000	70+	12,000	50	76	10	

Wattage [W]	Forward Voltage (Vf) Typical [V]	Product Description	Product Code	Lumen [lm]	cct (K)		CRI [Ra]	Life (L70, h)	Dimensions	Pack Qty
VIO										
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	25.40×25.40	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	25.40×25.40	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	/4/61	330	4100		/0	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	74765	275	4100		00	50,000	25.40x25.40	10
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	ov connecto				Produ		Lengt		Pack	
VIO Mole	ex connecto	r harness		77	702 3738		Lengt		10	
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VIO Mole wasting wasting Display 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 30.2 34.6 38.9 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 43.2 30.2 34.6 38.9 43.2 51.8 17.3 21.6 25.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 30.2 34.6 38.9 43.2 50.9 30.2 34.6 38.9 43.2 50.9 30.2 34.6 38.9 43.2 50.9 34.6 38.9 43.2 50.2 34.6 38.9 43.2 50.2 34.6 38.9 43.2 50.2 34.6 38.9 43.2 50.2	ex connecto	Image: second system Image: second system DT VIO/CON Image: second system Image: second system		74217 74217 74218 74219 74220 74221 74220 74221 74223 74224 74225 74224 74225 74226 74227 74228 74229 74230 74230	3738 3738 3500 3500 3500 3500 3500 3500 3500 3500 3500 3500 3500 3500 3500 3500 3500 4200 4200 4200 4200 4200 4200 4200	(H '02,1) 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,000	610 610 Fundamental formula 564 716 869 1021 1173 1326 1478 1783 564 716 869 1021 1173 1326 1478 1783 564 716 869 1021 1173 1326 1478 1783 1266 1478 1783 1266 1478 1775 1478 1775 17	33 33 33 33 33 33 33 33 33 33 33 33 33	10 10 10 10 10 10 10 10 10 10	40 you you 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 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%

_**s**_____

	Product Description			Product Code		ltem			Pack Qty		
Displa	y Case Lighting	System - Accessories									
	LB-WIRI	E-END (BEAUTY COVER)	7	74241	Finishing Co	over	25x33x3		20		
		LB-CLIP	7	74243	Mount Clip (Star	idalone)	34x34x16		20		
		LB-EXT-CLIP	7	74244	Mount Clip (Inte	grated)	44x33x51		20		
	L	B-TUBE-MOUNT	7	74245	Drop Tube M	ount	69x23x31		20		
	Power Supply Specification (Product Code	74601)	Δi		Typical			Max			
Displa	y Case Lighting	System - Power Supply								-	
	Input Voltag	e (VAC)	90		220-24	0		264			
	Input Freque	ncy (Hz)			50/60)				-	
	Input Curre	ent (A)						0.85			
	Output Volta	ge (VDC)	11.7					12.3		~	
	Output Curre	nt (ADC)						5			
	Ambient Operating T	en (w)	-40		25			60		10	
	Ambient Operating Temperature (°C) Ambient Humidity				20			95%			
	Ambient Storage Te	mpergture (°C)	-40					85		1	
	Case Operating Ter	nperature (°C)						90			
	Enclosure Spe	cification	Damp location rated								
	Remote Mounting	Distance (m)						0.9		-	
Wattage [W]	Volts [V]	Product Description	Product Code	Lumen [lm]	CCT [K]	CRI [Ra]	Life [L70, h]	Length [mm]	Pack Qty		
Cove L	ighting System	- Fixture			,					-	
6.5	220-240	LC12/727/240V	73100	290	2700	70	50,000	325.0	10		
6.5	220-240	LC12/730/240V	73101	300	3000	70	50,000	325.0	10		
6.5	220-240	LC12/741/240V	73826	320	4100	77	50,000	325.0	10		
		Product Description		Product Code	Track Angle [°]		Length [mm]		Pack Qty		
Cove L	ighting System	- Mounting track									
		LC-MT48/0	ī	73105	0		1219		25		
	LC-MT48/15 LC-MT48/30			73106			1219		25	THE A	
				73107	30		1219		25		
		Product Description			Product Code		Length [mm]		Pack Qty		
Cove L	ighting System	- Jumper Cable (JC) & Le	eader Cable	(LC)						_	
		LC-JC/1m/CE			73616		1000		1		
		LC-LC/12m/CE			73617		12000		1		
		LC-LC/3m/CE			73618		3000		1		
										17	