
GenLED
LIGHTING
LED LAMPS
LIGHTING LIVES

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Born in research labs more than fifty years ago, light emitting diodes have progressed steadily and rapidly to challenge conventional lighting technologies. LED's are energy efficient, color controllable, dimmable and focused. Impressive gains in efficiency have transformed LED's into light sources suitable for small and large scale applications.

Successful application of LED's to large scale lighting solutions requires multidisciplinary expertise through a global partnership network, grounded by an understanding that lighting is a fundamentally human phenomenon based on the gift of sight.

General LED Inc. presents its wide range of GenLED architectural LED lighting products.

MULTIDISCIPLINARY APPROACH

GenLED team is technically diverse with complementary capabilities in electronics engineering, mechanical, thermal and packaging engineering, materials science and analysis, analytic chemistry and lighting design. Each GenLED product is considered and proven across these disciplines, and upholds high standards across all dimensions of design and utility.

LED LIGHTING EXPERIENCE

GenLED has many years of experience in virtually all facets of exciting solid state technology and it brings some of the world's deepest practical understanding of LEDs from the quest of understanding LEDs to the quest for better lighting. This inventive genius spans applications for LEDs and OLEDs ranging from entertainment to safety.

Additionally, General LED Inc, through its AgiLight subsidiary, has many years of field success in the demanding world of commercial signage. AgiLight LED lighting for signage has stood the test of time, temperature extremes, weather conditions and rough handling.

STRONG PARTNERSHIPS

With the annual world-wide production of individual LED elements, called die, surpassing 500 billion units, and with wide ranges in unit quality typical of semiconductor devices, it is invaluable to have close, long standing relationships with senior management in the LED, research and manufacturing supply chain. Going back to the first handheld calculators, GenLED executives have developed strong, long-standing partnerships with first-tier LED device foundries. GenLED has die made to its exacting specifications, never buying run-of-the-mill or second-quality production. GenLED partnerships continue to expand around the globe, with the LED supply chain, innovators in related and complementary technologies, and academic institutions.

INTRODUCTION

PROPRIETARY TECHNOLOGY AND INTELLECTUAL PROPERTY

General LED never rests when it comes to asking how LED lighting can be improved, and how it can be successfully applied. This never-ending quest for excellence yields an impressive breadth and depth of invention, reflected in General LED's intellectual property portfolio. General LED holds patents that range from fundamental LED construction and properties to innovative packaging solutions for new and improved LED lighting and related applications.

BEST OF BREED PRODUCTS

General LED understands how important it is to have a single, quality-committed source for LED lighting solutions spanning all of your interior and exterior architectural applications. While General LED focuses on its core portfolio of proprietary lighting solutions, it leverages the creativity and contributions of partners who demonstrate attention to innovation, quality, reliability and design in keeping with General LED's standards. General LED warrants and takes full responsibility for all LED lighting products it sells, to provide peace of mind while helping you expedite your time-critical projects.

AGILIGHT

AgiLight has quickly become a leader in the commercial signage market. AgiLight was formed with a strong technical foundation in semiconductor and has brought a series of increasingly successful lighting products to market, including its TuffRayz, ThinRayz and ThinRayz Xtra signage modules. These products provide high-performance illumination, even in the shallowest of signs and the tightest installations. AgiLight LED lighting can be found in the sign and identity programs of some of the world's largest retail businesses, in all major sectors. AgiLight is recognized as a technical and value leader in the areas of channel letter illumination and low voltage neon lighting replacement. In addition to exterior signage applications, AgiLight provides solutions for retail and commercial interior lighting, point of sale and merchandising displays.

MICROINFORMATION SYSTEMS

Years of General LED research in LED design, application and packaging have led to dramatic advances in LED lighting at the microelectronic scale. General LED is working with partners in financial, medical and security industries to deliver the brightest, most readable and power-conserving LED micro display solutions with an emphasis on "impossible" applications.

GenLED LIGHTING

GenLED Lighting offers wide range of indoor and outdoor architectural LED lighting products. GenLED believes in re-lighting, rather than re-lamping the world. Relighting brings the unique values of LED technology forward for the daily benefit of drivers, pedestrians, office workers, homeowners and citizens enjoying public spaces. Re-lighting captures the energy and cost saving benefits of LEDs, while delivering human benefits of well-being, safety and security. Re-lighting ensures fulfillment of LEDs' potential for extraordinary lifetime reliability. GenLED Architectural Lighting solutions are ready to re-light exterior and interior applications. From better street and outdoor area lighting, to low-maintenance, energy-saving and color-tailored interior lighting, GenLED products and services provide the best possible light with compelling economics.

GENERAL LED FZE

General LED has set up its United Arab Emirates office to serve its customers in the Middle Eastern countries and the Subcontinent. General LED's commitment to the region is strong; the Company welcomes the opportunity to serve the region's LED application needs from lighting to micro-information systems through its United Arab Emirates division.

LED TECHNOLOGY

Consider the progress of computing over the past twenty years—what once was a supercomputer in a secured, cooled computing center is now a smart phone in the palm of your hand. This amazing advance owes to the nature of semiconductor engineering and manufacturing. Like all other semiconductor products, LED's have made consistent gains in performance and cost efficiency, and will continue to do so for the foreseeable future. Because of continuous advancement, LED lighting now offers better light quality, better performance and lifetime energy and monetary savings over conventional technologies in many applications. LED advantages over conventional incandescent and fluorescent technologies are numerous.

ENERGY EFFICIENCY

- Up to 85% reduction in power usage and electric costs
- Meet or surpass government energy directives
- Low infrared output keeps buildings cooler and reduces Heating, Ventilation and Air Conditioning (HVAC) load for a sizeable extra energy saving
- Dimmable and compatible with intelligent control systems so you only use as much light as you need
- Can be turned on and off instantaneously, so can be left off when not needed and instantly lit as needs arise

LOW TOTAL OPERATING COSTS

- Reduced electricity bills, directly and through reduced HVAC load
- Reduced electrical installation costs due to lower power requirement and potential for low voltage installation
- Lower maintenance costs due to long life

LIGHT QUALITY

- Available in a range of beam angles enabling light to be focused towards the required direction
- Available in a range of colors of white from warm to cool as well as Red, Amber, Blue and Green to fit any requirement
- High Color Rendering Index (CRI) for optimal readability/viewability
- Controllable RGB capability to generate millions of custom colors
- Dimmable to create the desired ambience

ENVIRONMENTAL

- RoHS lead-free components; mercury-free
- Reduced disposal costs
- Reduced CO2 emissions due to lower energy use per lumen of light output
- Directional light means reduced light pollution and light trespass in outdoor street and area installations; compatible with Dark Sky initiative


QUALITY POLICY

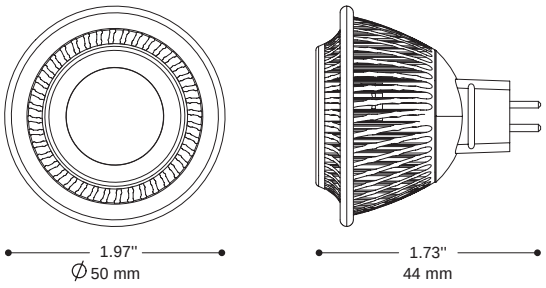
MR16 L

The **GenLED MR16 L LED** spot is an energy efficient alternative to 20W halogen lights. The lamp lasts up to 12 times longer than standard halogen MR16 lamps and reduces energy consumption by up to 80%. The **MR16 L** suits a variety of applications such as track lighting, recessed ceiling lights, pendant fixtures and retail display lighting. LED lamps create less heat which reduces the amount of air conditioning required to cool the building thereby providing additional energy savings. The lamp shape is designed to match the shape of a standard halogen MR16 and can be dimmed 10-100%. Recommended for use in open, vented applications.

SPECIFICATIONS

LUMINOUS FLUX	200 lm (2900K)
BEAM ANGLE	15°, 35°
COLOR TEMPERATURE	2700K, 2900K
CRI	82
WATTAGE	3.5W
LINE VOLTAGE	12V
DIMMABILITY	Dimmable 10-100%
DIMENSIONS	1.97 in. (50mm) dia 1.73 in. (44mm) height
BASE TYPE	GU 5.3
OPERATING TEMPERATURE	-20°C to +45°C
STORAGE TEMPERATURE	-40°C to +60°C
ENVIRONMENTAL RATINGS	Recommended for Indoor use dry locations
CERTIFICATIONS	CE, RoHS
RATED LIFETIME	35,000 hours

DIMENSIONS



PRODUCT SELECTION GUIDE

PRODUCT CODE	COLOR TEMP	WATTS	BEAM ANGLES (DEGREES)	CONTROL
MR16-WSP-C8227-200-G1	2700K	3.5W	15	Dimmable
MR16-WFL-C8227-200-G1	2700K	3.5W	35	Dimmable
MR16-WSP-C8229-200-G1	2900K	3.5W	15	Dimmable
MR16-WFL-C8229-200-G1	2900K	3.5W	35	Dimmable

CE RoHS

MR16 H

The **GenLED MR16 H LED** spot is the high output lamp and an energy efficient alternative to halogen lights. Up to 10 times more efficient, these lights are well suited to a variety of applications that require directional lighting such as track lighting, recessed ceiling lights, pendant fixtures and retail display lighting. LED lamps create less heat which reduces the amount of air conditioning required to cool the building thereby providing additional energy savings. The lamp shape is designed to match the shape of a standard halogen MR16 bulb. Recommended for use in open, vented applications. A wide range of color temperatures are available to suit any application.

SPECIFICATIONS

LUMINOUS FLUX	220 lm (warm white), 260 lm (Cool White)
BEAM ANGLE	15°, 40°, 60°
COLOR TEMPERATURE	2700K (Extra Warm White), 3000K(Warm White), 5500K (Cool White)
WATTAGE	5W
OPERATING CURRENT	350 mA max
LINE VOLTAGE	12-18V AC, 12-24V DC
DIMMABILITY	Dimmable and Non-dimmable versions available
DIMENSIONS	1.96 in. (50mm) dia 1.89 in. (48mm) height
BASE TYPE	GU 5.3
OPERATING TEMPERATURE	-20°C to +45°C
STORAGE TEMPERATURE	-40°C to +60°C
ENVIRONMENTAL RATINGS	Recommended for Indoor use dry locations
CERTIFICATIONS	ETL, CE, RoHS
RATED LIFETIME	35,000 hours

PRODUCT SELECTION GUIDE

PRODUCT	COLOR TEMP	WATTS	BEAM ANGLES (DEGREES)	CONTROL
GLL-MR16 H	EWW-Extra Warm White 2700K WW-Warm White 3000K CW-Cool White 5500K	5	15 40 60	D-Dimmable ND-Non Dimmable

Example: GLL-MR16 H-CW-5-40-D

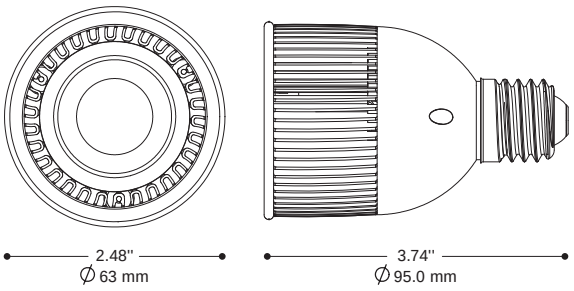
PAR20

The **GenLED PAR20 LED** lamp is an energy efficient alternative to halogen lamps. The lamp lasts up to 12 times longer than halogen PAR20 lamps and reduces energy consumption by up to 75%. These lamps suit a variety of applications such as track lighting, recessed ceiling lights, pendant fixtures and retail display lighting. The lamp shape matches the standard halogen PAR20 lamp shape and can be dimmed 10-100%. Recommended for use in open, vented applications.

SPECIFICATIONS

LUMINOUS FLUX	300 lm (2900K)
BEAM ANGLE	15°, 35°
COLOR TEMPERATURE	2700K, 2900K
CRI	82
POWER FACTOR	0.98
WATTAGE	7W
LINE VOLTAGE	120V
DIMMABILITY	Dimmable 10-100%
DIMENSIONS	2.48 in. (63mm) dia 3.74 in. (95mm) height
BASE TYPE	E26 medium base
OPERATING TEMPERATURE	-20°C to +45°C
STORAGE TEMPERATURE	-40°C to +60°C
ENVIRONMENTAL RATINGS	Recommended for Indoor use dry locations
CERTIFICATIONS	ULcUL, CE, RoHS
RATED LIFETIME	35,000 hours

DIMENSIONS



PRODUCT SELECTION GUIDE

PRODUCT CODE	COLOR TEMP	WATTS	BEAM ANGLES (DEGREES)	CONTROL
PAR20-WSP-C8227-300-G1	2700K	7W	15	Dimmable
PAR20-WFL-C8227-300-G1	2700K	7W	35	Dimmable
PAR20-WSP-C8229-300-G1	2900K	7W	15	Dimmable
PAR20-WFL-C8229-300-G1	2900K	7W	35	Dimmable

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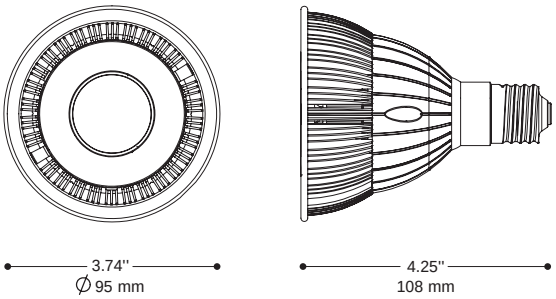
PAR30 LN

The **GenLED PAR30 LN** LED lamp is an energy efficient alternative to halogen PAR30 lamps. The lamp lasts up to 12 times longer than halogen lamps and reduces energy consumption by up to 75%. These lamps suit a variety of applications such as track lighting, recessed ceiling lights, pendant fixtures and retail display lighting. The lamp shape matches the standard halogen PAR30 lamp shape and can be dimmed 10-100%. Recommended for use in open, vented applications.

SPECIFICATIONS

LUMINOUS FLUX	500 lm (2900K)
BEAM ANGLE	15°, 25°, 40°
COLOR TEMPERATURE	2700K, 2900K
CRI	82
POWER FACTOR	0.93
WATTAGE	12W
LINE VOLTAGE	120V
DIMMABILITY	Dimmable 10-100%
DIMENSIONS	3.74 in. (95mm) dia 4.25 in. (108mm) height
BASE TYPE	E26 medium base
OPERATING TEMPERATURE	-20°C to +45°C
STORAGE TEMPERATURE	-40°C to +60°C
ENVIRONMENTAL RATINGS	Recommended for Indoor use dry locations
CERTIFICATIONS	ULcUL, CE, RoHS
RATED LIFETIME	35,000 hours

DIMENSIONS



PRODUCT SELECTION GUIDE

PRODUCT CODE	COLOR TEMP	WATTS	BEAM ANGLES (DEGREES)	CONTROL
PAR30LN-WSP-C8227-500-G1	2700K	12W	15	Dimmable
PAR30LN-FL-C8227-500-G1	2700K	12W	25	Dimmable
PAR30LN-WFL-C8227-500-G1	2700K	12W	40	Dimmable
PAR30LN-WSP-C8229-500-G1	2900K	12W	15	Dimmable
PAR30LN-FL-C8229-500-G1	2900K	12W	25	Dimmable
PAR30LN-WFL-C8229-500-G1	2900K	12W	40	Dimmable

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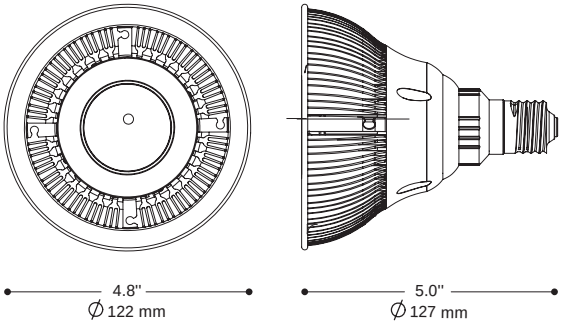
PAR38

The **GenLED PAR38 LED** lamp is an energy efficient alternative to halogen PAR38 lamps. The lamp lasts up to 12 times longer than halogen lamps and reduce energy consumption by up to 75%. These lamps suit a variety of applications such as track lighting, recessed ceiling lights, pendant fixtures and retail display lighting. The lamp shape matches the standard halogen PAR38 lamp and can be dimmed 10-100%. Recommended for use in open, vented applications.

SPECIFICATIONS

LUMINOUS FLUX	700 lm (2900K)
BEAM ANGLE	15°, 25°, 35°
COLOR TEMPERATURE	2700K, 2900K
CRI	82
POWER FACTOR	0.99
WATTAGE	15W
LINE VOLTAGE	120V
DIMMABILITY	Dimmable 10-100%
DIMENSIONS	4.8 in. (122mm) dia 5.0 in. (127mm) height
BASE TYPE	E26 medium base
OPERATING TEMPERATURE	-20°C to +45°C
STORAGE TEMPERATURE	-40°C to +60°C
ENVIRONMENTAL RATINGS	Recommended for Indoor use dry locations
CERTIFICATIONS	ULcUL, CE, RoHS
RATED LIFETIME	35,000 hours

DIMENSIONS



PRODUCT SELECTION GUIDE

PRODUCT CODE	COLOR TEMP	WATTS	BEAM ANGLES (DEGREES)	CONTROL
PAR38-WSP-C8227-700-G1	2700K	15W	15	Dimmable
PAR38-FL-C8227-700-G1	2700K	15W	25	Dimmable
PAR38-WFL-C8227-700-G1	2700K	15W	35	Dimmable
PAR38-WSP-C8229-700-G1	2900K	15W	15	Dimmable
PAR38-FL-C8229-700-G1	2900K	15W	25	Dimmable
PAR38-WFL-C8229-700-G1	2900K	15W	35	Dimmable

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T8

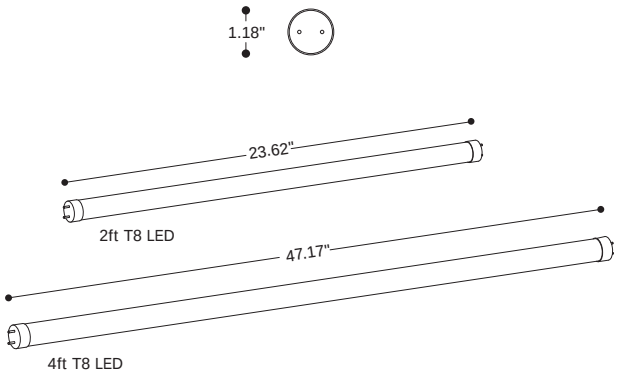
GenLED's new **T8** format LED lamp delivers over 35,000 hours of dependable, flicker free light that is bright, clear and saves energy. It fits into standard 2 or 4 foot troffers and operates without the need for a ballast.

- No mercury or other toxic material
- No glass and recyclable
- High performance
- Instant-on
- Directional – no light loss from internal reflections
- Over 70 lumen/watt
- Available in diffused lens

SPECIFICATIONS

	2 feet Lamp	4 feet Lamp
LUMINOUS FLUX	800 lm	1200 lm & 1400lm
BEAM ANGLE	120°	
COLOR TEMPERATURE	3200K (Warm White) 4100K (Neutral White) 5800K (Cool White) 6500K (Daylight)	
WATTAGE	8W	16.5W
INPUT VOLTAGE	85-265V	100-277V
FREQUENCY	50-60Hz	
DIMMABILITY	Non-dimmable	
DIMENSIONS	1.18 in. (30mm) dia x 23.62 in. (600mm) long	1.18 in. (30mm) dia x 47.17 in. (1198mm) long
LED PIECES	180 pcs	300 pcs
LENS TYPE	Opal Ploycarbonate diffuser	
OPERATING TEMPERATURE	-20°C to +40°C	
ENVIRONMENTAL RATING	Recommended for indoor dry and damp locations	
CERTIFICATIONS	CE, RoHS	CE, ULcUL, RoHS
RATED LIFETIME	35,000 hours	

DIMENSIONS



PRODUCT SELECTION GUIDE

PRODUCT CODE	COLOR TEMP	WATTS	LENGTH	CONTROL
T8-2-C8032-800-G1	3200K	8W	2 feet	non-Dimmable
T8-2-C8041-800-G1	4100K	8W	2 feet	non-Dimmable
T8-2-C7258-800-G1	5800K	8W	2 feet	non-Dimmable
T8-2-C7265-800-G1	6500K	8W	2 feet	non-Dimmable
T8-4-C8032-1200-G1	3200K	16.5W	4 feet	non-Dimmable
T8-4-C8041-1200-G1	4100K	16.5W	4 feet	non-Dimmable
T8-4-C7258-1400-G1	5800K	16.5W	4 feet	non-Dimmable
T8-4-C7265-1400-G1	6500K	16.5W	4 feet	non-Dimmable

Power Supply for MR16 LED

MR16 LED Power Supply is 12V DC electronic driver specifically designed to use with **GenLED MR16 LED** Lamps. The Power Supply features short circuit protection, high reliability and high efficacy. One Power Supply recommended for each lamp.

SPECIFICATIONS

WATTAGE	12W
INPUT VOLTAGE	100V AC/60Hz - 240V AC/50Hz
INPUT CURRENT	0.33A max - 100V AC 0.20A max - 240V AC
OUTPUT VOLTAGE	+12V DC
OPERATING TEMPERATURE	0ºC to +50ºC
STORAGE TEMPERATURE	-20ºC to +70ºC
SAFETY STANDARDS	EN60950, EM60065, CE, CISPR 22 Class B
LEAKAGE CURRENT	Less than 0.75 mA

RoHS

General LED Inc. reserves the right to discontinue any product and alter specifications, dimensions and designs without prior notice.

General LED Inc. has made every effort to ensure that the data in this catalogue are correct. However, **General LED Inc.** assumes no liability for the accuracy of contents and any consequential loss of any kind. **General LED Inc.** accepts no responsibility for damage to any equipment or any kind of inconvenience caused by the failure of their products.

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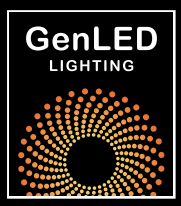

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