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GAU-PT-90LTL-LED-DIMM

100W LED Light - 13,500 Lumens - 120-277V AC - High Mast Lighting - Pole Top Mount - 0-10V Dimming

Product ID: 221812

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

GAU-PT-90LTL-LED-DIMM High Mast LED Light

Lamp Type: Cree® LED
Dimensions: 9"L x 7"W x 3"D
Weight: 10 lb
Total Watts: 100
Total Lumens: 13,500
Luminous Efficiency: 135 Lm/W
Beam Configurations: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
LED Color Temperature: 3000K, 4000K, 5000K, or 6500K
LED Life Expectancy: 80,000 Hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
Led Drive %: 90%
Voltage: 120-277 V AC
Amp Draw: 0.84 A @ 120 V, 0.38 A @ 240 V, 0.33 A @ 277 V
Wiring: 2.5` Pigtail w/ Flying Leads
Mounting: Pole Top Slip Fit
Pole Diameter Options: 1.5", 2", 2.125", 2.25", 2.375", 2.5", 2.75", 3" or 4"x4"
Materials: Die Cast Aluminum Housing, PMMA Optics
Housing Color: Natural Aluminum
Ambient Temperature Range: -40°C to +80°C
Waterproof Rating: IP67

Quick Summary

250 Watt Metal Halide Replacement
Ambient Op Temp -40°C to +80°C
Ideal for Light Towers & LED Retrofits
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
135 Lumens Per Watt Efficiency
70% Lumen Retention after 80,000 Hours
UL1012 Compliant
UL60950-1 Compliant
CE Certified
RoHS Compliant
IP67 Rated Waterproof
0-10V Dimming Capabilities

Special Orders - Special Requirements

Contact us for special requirements

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The GAU-PT-90LTL-LED-DIMM High Mast LED Flood Light offers intense light output from elevated positions, when mounted on top of a pole. Producing 13,500 lumens, a 0.84 amp draw at 120V, 80,000 hour service life, 120-277 volt compatibility, and IP67 waterproof rating, this LED flood light provides operators with a rugged and powerful LED alternative to 250 watt metal halide lamps that uses little power and can withstand rugged use and abusive conditions. The GAU-PT-90LTL-LED-DIMM features 0-10V dimming capabilities.

The GAU-PT-90LTL-LED-DIMM LED light from Larson Electronics produces 13,500 lumens of high intensity light while drawing only 100 watts at 0.84amps from a 120 volt electrical system. Nine Cree® high output LEDs producing 1,500 lumens each are arranged in rows and paired with PMMA high purity optics to produce a well focused 24° wide spot beam that is ideal for providing far reaching concentrated illumination while still covering a substantial amount of area. We also offer optional optics with 10° spot, 38° narrow flood, 60° flood, and 90° wide flood beam spreads. The spot beams are tightly focused and are designed for high elevation mounting to achieve distance, making spot versions ideal for high mast and spots lighting. The flood beams are designed to provide more light over a larger area nearer the fixture, making flood versions ideal for use as dedicated work and area lights.

GAU-PT-90LTL-LED-DIMM lights are ideal replacements for fragile and hot running 250 watt metal halide lamps. They offer low power requirements, high durability and a versatile mounting system that makes these LED light emitters a superior lighting solution for demanding applications where power and reliability is critical. The heavy duty design and high power of these LED lights also makes them suitable for a wide array of applications including but not limited to: high mast lighting, light towers, light plant LED retrofits, military, mining, industrial manufacturing, machine visioning, security and law enforcement, commercial structure illumination, sport complexes, billboards, race tracks, and parking lots to name a few.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units feature individual heat sinks per bank of six LEDs to control heat buildup rather than utilizing a single housing to dissipate heat. This allows for more thorough cooling of the LEDs for extended operating periods. This allows the LEDs to be driven at up to 90% capacity without overheating or visible loss of light output. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 80,000 hours.

Durability: As well as unparalleled heat control, the GAU-PT-90LTL-LED-DIMM series of LED lights from Larson Electronics also offer IP67 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand rapid temperature changes of -40° Celsius to +80° Celsius, are waterproof, and resist ingress of dust, dirt and humidity. The housings

are formed from die cast aluminum and the optics are high transmission PMMA with 98% light transmittance. The CREE® LEDs help these units achieve resistance to vibrations and are rated at 70% lumen maintenance after 80,0000 hours of use. We recommend these LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

This LED light fixture features 0-10V dimming capabilities. This gives operators the ability to manually adjust the brightness of the LED lamp quickly and easily. The 0-10V dimming allows for adjustments to fit the brightness needs of any lighting situation. A 0-10V dimmable light works through the use of a DC control signal that ranges between zero and ten volts. The basic idea is that at 10 volts of input the light is at its brightest level with 0 volts being the lowest possible dimness setting. The smooth, continuous and flicker-free dimming of a 0-10V dimmable LED light is ideal for a wide range of different lighting applications.

Mounting: The pole top slip fit mount LED light features an adjustable swivel bracket constructed of 3/8" aluminum that allows over 270° of adjustment and is attached to a slip fit yoke for easy installation. The slip fit yoke is built to customer`s specs, enabling operators to mount this LED light to their specific pole size. For example, selecting a 2" OD mount means that the yoke mount will fit onto pipes or bull horns with a 2" OD. The entire selection of outside diameters is listed below in the specifications section.

Applications: Pole lighting, tower lighting, wide-area illumination, elevated illumination, outdoor locations, industrial sites and more.

At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories. Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

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Frequently Asked Questions (FAQ)









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GAU-PT-90LTL-LED-DIMM

Product ID: 221812

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

GAU-PT-90LTL-LED-DIMM-Beam Angle-Color Temp-Pole OD

Example: GAU-PT-90LTL-LED-DIMM-10SP-30K-1IN

Beam Angle	
10° SPOT	-10SP
24° WIDE SPOT	-24WS
38° NARROW FLOOD	-38NF
60° FLOOD	-60F
90° WIDE FLOOD	-90WF

Color Temp	
3000K	-30K
4000K	-40K
5000K	-50K
6500K	-65K

Pole OD	
1 IN	-1IN
1.5	-1.5in
2	-2in
2 1/8	-2.125in
2 1/4	-2.25in
2 3/8	-2.375in
2 1/2	-2.5in
2 3/4	-2.75in
3	-3in
4X4	-4x4

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**