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GAU-PT-90LTL-LED

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

Product ID: 153178

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 High Mast LED Light

Lamp Type: CREE® LED
Dimensions: 9"-L x 7"-W x 3"-D
Weight: 10 Lbs
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, 6500K
LED Life Expectancy: 80,000 hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
Led Drive %: 90%
Voltage:120-277V AC
Amp Draw: 0.84A @ 120V, 0.38A @ 240V, 0.33A @ 277V
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 -40C to +80C
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

Special Orders - Special Requirements

Contact us for special requirements

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The GAU-PT-90LTL-LED 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 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 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.

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 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.

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

Product ID: 153178

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

GAU-PT-90LTL-LED-Beam Config-Color Temp-Pole OD

Example: GAU-PT-90LTL-LED-10SP-30K-1.5in

Beam Config	
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	
1.5	-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**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**