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GAU-LTL-500W-LED-IR-OPQ

250W High Intensity Infrared LED Light - 120-277V AC - IP67 Waterproof - High Frost

Product ID: 222430

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-LTL-500W-LED-IR-OPQ High Mast Infrared LED Light

Lamp Type: Infrared LED
Dimensions: 22.92"-L x 14.51"-W x 5.153"-D
Weight: 32.35 Lbs
Voltage: 120-277V AC or 127-431V DC
Total Watts: 250
Luminous Efficiency: 100 lm/w
Beam Configurations: 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
IR Wavelength Options: 750 nm, 850 nm or 940 nm
LED Life Expectancy: 80,000 hours
Optics Efficiency: 98% - PMMA High Transmittance Optics
LED Drive %: 90%
Amp Draw: 2.08A @ 120V, 1.04A @ 240V, 0.90A @ 277V
Wiring: 2.5` Pigtail w/ Flying Leads
Mounting: Flat Surface Trunnion Mount U-Bracket
Lens: High Frosted Opaque
Materials: Die Cast Aluminum Housing, PMMA Optics
Housing Color: Powder Coated Black
Ambient Temperature Range: -40°C to +80°C
Waterproof Rating: IP67

Quick Summary

Ambient Op Temp -40C to +80C
Ideal for Light Towers & LED Retrofits
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
RoHS Compliant
IP67 Rated Waterproof
UL1012 Compliant
UL60950-1 Compliant
CE Certified

Special Orders - Special Requirements

Contact us for special requirements

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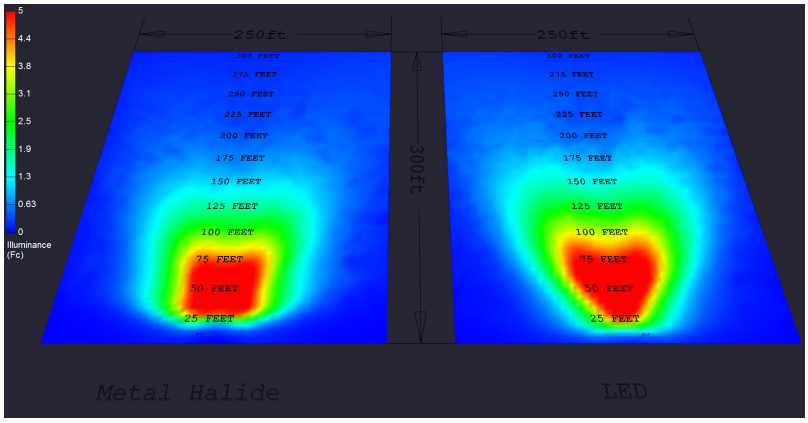
The GAU-LTL-500W-LED-IR-OPQ High Mast LED Flood Light emits non-

visible infrared beams in outdoor work sites. This 250-watt infrared LED lamp provides operators with a rugged and powerful LED alternative to traditional infrared fixtures, consumes little power and can withstand rugged use and abusive conditions. The infrared LED unit is offered in 750 nm, 850 nm or 940 nm infrared band configurations. This fixture features a high frosted opaque lens that removes `hotspots` associated with high powered LEDs.

The GAU-LTL-500W-LED-IR-OPQ from Larson Electronics in a 250-watt infrared lamp for outdoor locations. Fourty-Eight CREE® high output infrared LEDs 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 infrared light over a larger area nearer the fixture.

GAU-LTL-500W-LED-IR-OPQ lights offer low power requirements, high durability and a versatile mounting system that makes these infrared LED light emitters a superior lighting solution for demanding applications where power and reliability is critical. Choices for infrared wavelengths include the following: 750 nm, 850 nm or 940 nm.



Click Photo to Enlarge

The above image shows the comparison of the traditional (4) 1500 watt metal halides light fixtures mounted to a 30` light tower (left) to (4) GAU-LTL-500W-LED-IR-OPQ 500 watt LED light fixtures mounted to a 30` light tower. The area being illuminated by each tower is 300` in length and 250` in width. A high frost opaque lens added to the front of the fixture creates a heavy diffusion which removes the `hotspots` associated with high powered LEDs. This frosted lens makes the light output more even and does not affect eyesight as severly if looked directly into. This high output LED light fixture provides an even beam spread over the targeted work area without overcast, glare, light spillage, and wasted illumination. Color rendering is also increased with LED light plants, providing a more realistic night vision that more closely resembles natural daylight illumination.

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.

Durability: As well as unparalleled heat control, the GAU-LTL-500W-LED-IR-OPQ 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. We recommend these infrared LED lights for use in applications where a lot of vibration, dust, dirt, dampness and abusive working conditions are encountered.

Mounting: Each unit is equipped with a back mount trunnion style mounting bracket that allows the light to be attached to flat surfaces and adjusted through 160° of vertical movement. To adjust the unit after mounting, the user simply loosens the set screws located on either side of the unit, moves it into the desired position, then re-tightens the screws. The base of the mounting trunnion is equipped with several machined slots which allow users to utilize existing mounting holes and slide the unit for precise mount positioning.
Applications: Outdoor locations, inspections, NDT, security systems, nighttime observation, camera surveillance and more.
Larson Electronics is a manufacturer and as such can build stationary and portable transformer systems to your specifications. Although we carry several models of power distribution transformer systems, we can deliver custom ordered units almost as quickly as our prebuilt units. If this model does not meet your needs, please contact us at 1-800-369-6671 or sales@larsonelectronics.com to discuss your specific requirements.

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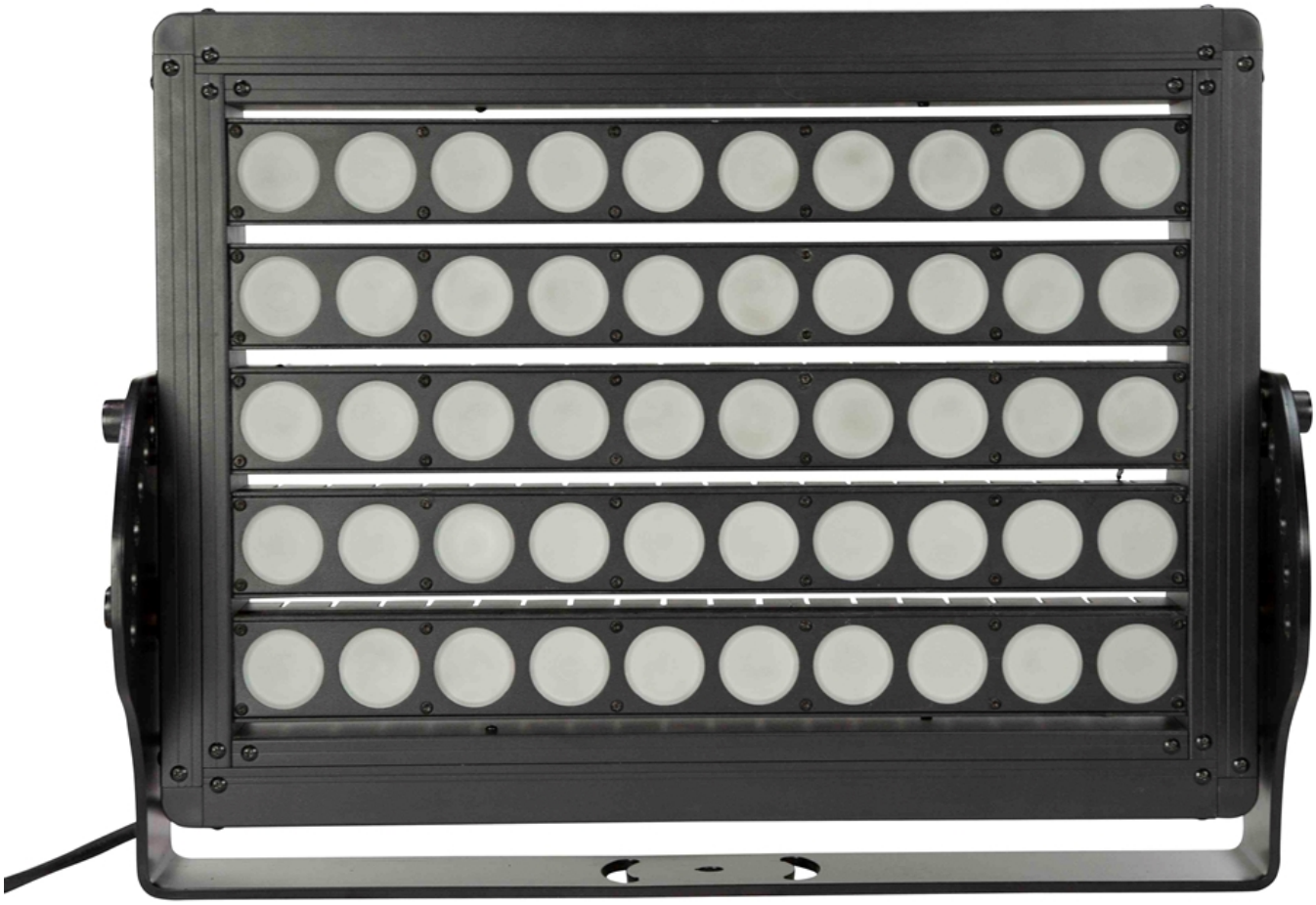
Frequently Asked Questions (FAQ)



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GAU-LTL-500W-LED-IR-OPQ

Product ID: 222430

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

GAU-LTL-500W-LED-IR-OPQ-Beam Config-Wavelength

Example: GAU-LTL-500W-LED-IR-OPQ-10SP-750NM

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

Wavelength	
750 NM	-750NM
850 NM	-850NM
940 NM	-940NM

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Operations Manual**
- **Spectrum Curve (Wavelength Graph)**
- **STEP File (3D CAD Model)**
- **Wiring Diagram (Oneline)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**