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## GAU-HB-500W-LED

# 500 Watt LED Crane Light - 60,000 Lumens - 120-277V AC - Outdoor Rated

**Product ID: 241409**

**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-HB-500W-LED LED Crane Light**

**Lamp Type: Cree® LED**
**Dimensions: 24.8"-L x 12.46"-W x 3.54"-D**
**Weight: 36.38** Lbs
**Total Watts: 500**
**Total Lumens: 62,500**
**Luminous Efficiency: 125 lm/w**
**Beam Configurations:** 10° Spot, 24° Wide Spot, 38° Narrow Flood, 60° Flood, or 90° Wide Flood
**LED Color Temperature: Cool White - 5500-6500K**
**LED Life Expectancy:** 80,000 hours
**Optics Efficiency:** 98% - PMMA High Transmittance Optics
**Led Drive %:** 90%
**Voltage:**90-305V AC or 127-431V DC
**Amp Draw:** 3.34A @ 120V, 1.67A @ 240V, 1.45A @ 277V
**Wiring:** 6` Pigtail w/ Flying Leads
**Mounting:** Flat Surface Trunnion Mount U-Bracket (Powder Coated Steel)
**Materials:** Die Cast Aluminum Housing, PMMA Optics
**Housing Color:** Natural Aluminum
**Ambient Temperature Range:** -40°C to +80°C
**Waterproof Rating:** IP67

**Quick Summary**

1000 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
125 Lumens Per Watt Efficiency
70% Lumen Retention after 80,000 Hours
NRTL Certified to UL1012
NRTL Certified to UL60950-1
CE Certified
RoHS Compliant
IP67 Rated Waterproof

**Special Orders - Special Requirements**

Contact us for special requirements

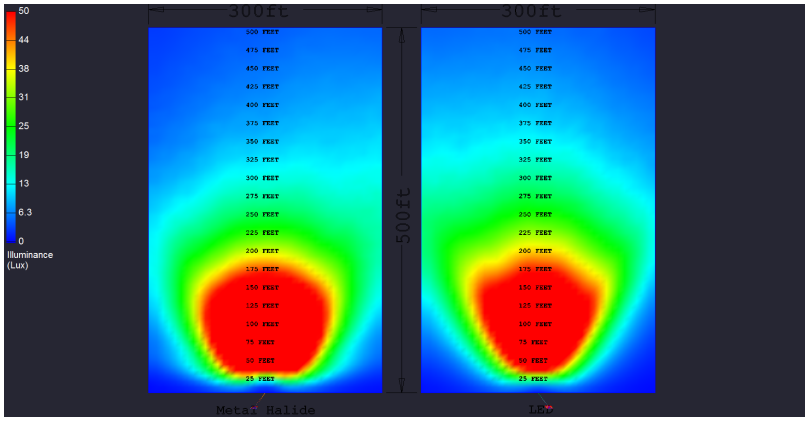
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## The GAU-HB-500W-LED High Bay LED Flood Light offers intense light

**output and is ideal for flood lighting, crane lighting, light towers, as well as industrial and outdoor lighting applications. Producing 62,500 lumens, a 3.34 amp draw at 120V, 80,000 hour service life, 120-277 volt AC and 130-430 volt DC compatibility, and IP67 waterproof rating, this LED flood light provides operators with a rugged and powerful LED alternative to 1000 watt metal halide lamps that uses little power and can withstand rugged use and abusive conditions.**

The GAU-HB-500W-LED LED light from Larson Electronics produces 62,500 lumens of high intensity light while drawing only 500 watts at 3.34 amps from a 120 volt electrical system. Forty-eight Cree® high output LEDs producing 1250 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-HB-500W-LED lights are ideal replacements for fragile and hot running 1000 watt metal halide lamps. They offer low power requirements, high durability 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.




**Click Photo to Enlarge**

The above image shows the comparison of the traditional (16) 1000 watt metal halides light fixtures mounted to a 50` light tower (left) to (16) GAU-HB-500W-LED-480V 480 watt LED light fixtures mounted to a 50` light tower. The area being illuminated by each tower is 500` in length and 300` in width. Unlike the metal halide light fixtures, there are no hot spots with these LED fixtures. 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. 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-HB-500W-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.

Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation. 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 applied and emitting light. With LED lights, there is no warm up time or cool down time before re-striking and provide instant illumination when powered on, adding to the reliability of LED technology. By nature, LED light sources run significantly cooler than traditional lamps, reducing the chance of accidental burns and increased temperatures due to heat emissions. This solid state design of light emitting diodes provides a more reliable, stable, durable, and energy efficient light source over traditional lighting.

**Voltage:** These lights are universal voltage, not multi-tap, and operate on a range of voltage. For alternating current from a range of 90V AC to 305V AC, including commonly found 120V, 220V, 240V, and 277V. For direct current from a range of 127V DC to 431V DC, including 250V DC. This fixture operates on both voltages, automatically sensing incoming voltage and adjusting accordingly, without any adjustments or modifications required.

**Application:** These high output LED fight fixtures are idea for applications such as light towers, cranes, offshore, mining, and any application requiring high output and quality lighting. These are the same LED lights we use on our LED Mega Tower Series, including the WCDE-11-PLM50-16X400LTL-LED self contained diesel light plant and LM-50-5S-TLR-16X400LTL-LED light plant.

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# Frequently Asked Questions (FAQ)








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**GAU-HB-500W-LED**

**Product ID: 241409**

**Warranty:** 36 Months

**Harmonized System (HS) Code:** 9405.41.84.10

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**GAU-HB-500W-LED-Beam Spread-Color Temp**

**Example: GAU-HB-500W-LED-10SP-55K**

| Beam Spread | |
|---|---|
| 10° SPOT | -10SP |
| 25° WIDE SPOT | -25WS |
| 40° NARROW FLOOD | -40NF |
| 60° FLOOD | -60F |
| 90° WIDE FLOOD | -90WF |

| Color Temp | |
|---|---|
| 5500K | -55K |
| 4100K | -41K |

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**