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## GAU-LTL-500W-LED-MS

# 480W High Intensity LED Light - 64,800 Lumens - 120-277V AC - High Mast / Stadium Lighting - Motion Sensor

**Product ID: 273414**

**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-MS High Mast LED Light w/ Motion Sensor**

**Lamp Type: Cree LED**
**Dimensions: 22.92"-L x 14.51"-W x 5.153"-D**
**Weight: 32.35 lb**
**Total Watts: 480**
**Total Lumens: 64,800**
**Luminous Efficiency: 135 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:** 120V, 208V, 220V, 240V or 277V AC
**Amp Draw:** 5 A @ 120 V, 2.5 A @ 240 V, 2.67 A @ 277 V
**Detection:** Motion
**Detection Coverage:** 15' x 15' (Mounted @ 20' - 25')
**Reach:** 6.5' to 32' - Adjustable
**Output Hold Time:** 0.5 Secs to 15 Mins (Adjustable)
**Radiated Frequency:** 5.8 GHz
**Wiring:** 2.5' Pigtail w/ Flying Leads
**Mounting:** Flat Surface Trunnion Mount U-Bracket
**Materials:** Die Cast Aluminum Housing, PMMA (Acrylic) Optics
**Housing Color:** Powder Coated Black
**Ambient Temperature Range:** -40°C to +80°C

**Quick Summary**

1000 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

**Special Orders - Special Requirements**

Contact us for special requirements

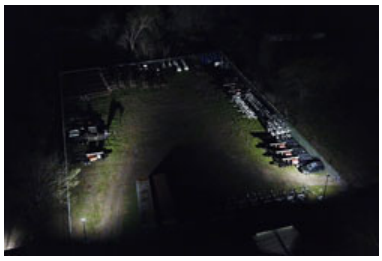
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-498-3364

**Waterproof Rating:** IP67

**E-mail:** sales@larsonelectronics.com

**The GAU-LTL-500W-LED-MS from Larson Electronics is a High Mast (Stadium) LED Flood Light with Motion Sensor that offers intense light output and is ideal for flood lighting, high mast lighting, light towers, as well as industrial and outdoor lighting applications. Producing 64,800 lumens, a 4.25 amp draw at 120 V, 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 1000 watt metal halide lamps that uses little power and can withstand rugged use and abusive conditions. The GAU-LTL-500W-LED-MS is equipped with a motion sensor that can power the light on when motion is detected.**

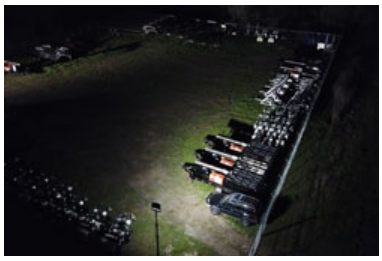
The GAU-LTL-500W-LED-MS LED light from Larson Electronics produces 64,800 lumens of high intensity light while drawing only 480 watts at 5 amps from a 120 volt electrical system. Forty-eight Cree high output LEDs producing 1,350 lumens each are arranged in rows and paired with PMMA high purity optics 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. This unit is designed to operate on 120 V, 208 V, 220 V, 240 V or 277 V AC.



Click Photo to Enlarge

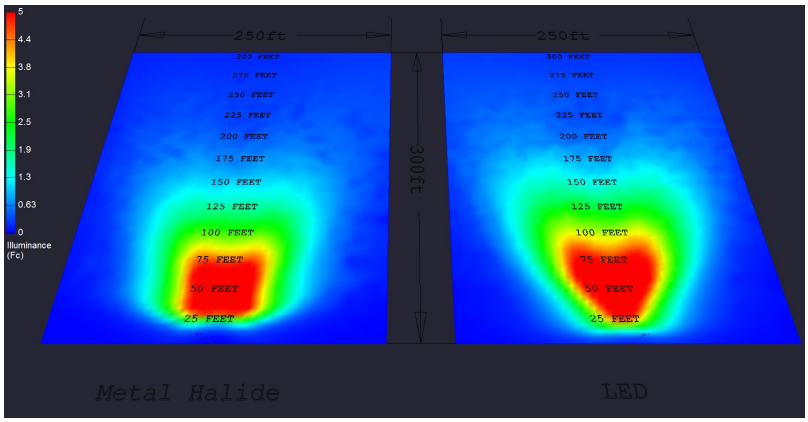


Click Photo to Enlarge



Click Photo to Enlarge

GAU-LTL-500W-LED-MS lights are ideal replacements for fragile and hot running 1000 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.




**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-MS 480 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. 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.

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**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.
**Motion Sensor:** The motion sensor on the GAU-LTL-500W-LED-MS LED flood light powers the unit on when motion is detected. It provides up to 15` by 15` coverage when mounted at 20`-25`. This motion sensor leverages cutting-edge microwave sensors to detect motion. When in use, the device sends out discrete waves that are reflected back from nearby walls and objects (not heat or light). Microwave sensors are not affected by line of sight, resulting in wider and more accurate coverage of the target area. By comparison, traditional infrared sensors can only detect heat and light (factors used to identify movement) within the unit`s field of view. Microwave sensors also provide stable performance in unpredictable climates and can penetrate glass, plastic and other non-metallic objects.
**Reach Setting:** For best results, it is recommended to adjust the motion sensitivity of the unit by configuring the reach setting. Reach is the term used to describe the radius of the circular detection zone produced on the ground. After mounting the sensor at a height of 20-25 feet, operators can adjust each control to select distance sensitivity. This detection distance is measured using a person who is between 5.2 feet and 5.5

feet tall with an average build, moving at a speed of 1.0-1.5m/sec. If any of these variables are changed, the detection distance will also change.
**Durability:** As well as unparalleled heat control, the GAU-LTL-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 80,000 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.



In-use Image of GAU-LTL-500W-LED Mounted

**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.
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)





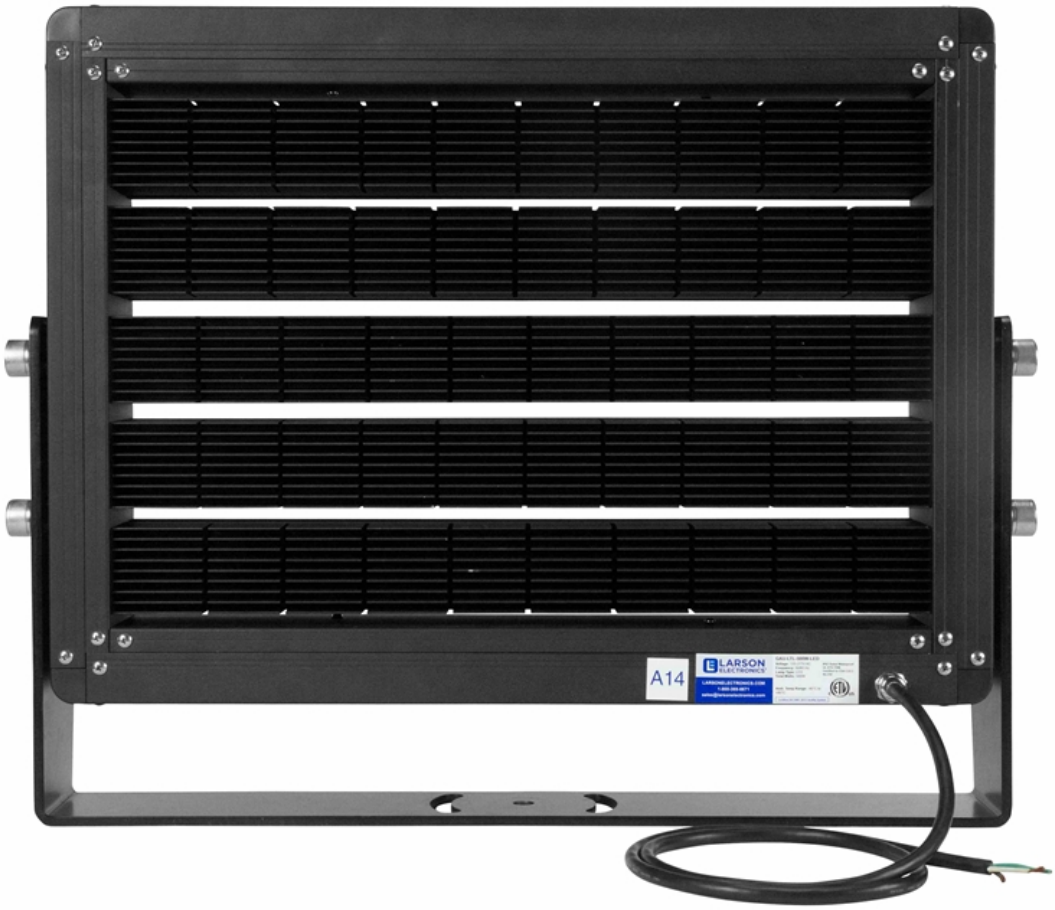
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**GAU-LTL-500W-LED-MS**
**Product ID: 273414**

**Warranty:** 60 Months

**Harmonized System (HS) Code:** 9405.41.84.10
**Export Control Classification Number (ECCN):** EAR99

**Options:**
**GAU-LTL-500W-LED-MS-Voltage-Beam Angle-Color Temp**
**Example: GAU-LTL-500W-LED-MS-120V-10SP-50K**

| Voltage | |
|---|---|
| 120V | -120V |
| 208V | -208V |
| 220V | -220V |
| 240V | -240V |
| 277V | -277V |

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

| Color Temp | |
|---|---|
| 5000K | -50K |
| 4000K | -40K |
| 3000K | -30K |

Links (Click on the below items to view):

- **Beam Information (Coverage, Datafile)**
- **IES (Photometric File)**
- **Lighting Study (Layout) Example 1**
- **Lighting Study (Layout) Example 2**
- **Lighting Study (Layout) Example 3**
- **Photometric Flood Report**
- **Photometric Indoor Report**
- **Photometric Polar Graph**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **HigResPic7**
- **HigResPic8**
- **HigResPic9**
- **HigResPic10**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**