Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

GAU-LTL-500W-LED-DNS-480V

480W High Intensity LED Light - 64,800 Lumens - 347-480V AC - Day/Night Photocell - Outdoor Rated

Product ID: 147326

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-DNS-480V High Mast LED Light
Lamp Type: CREE® LED
Dimensions: 38.6"L x 12.46"W x 3.54"D
Weight: 35 lbs
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: 347-480V AC
Amp Draw: 1.45A @ 347V, 1.04A @ 480V
Wiring: 10` Pigtail w/ Flying Leads
Mounting: Flat Surface Trunnion Mount U-Bracket
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
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
Day/Night Photocell for Automatic Operation

Special Orders- Requirements
Contact us for special requirements

Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The GAU-LTL-500W-LED-DNS-480V High Mast (Stadium) LED Flood Light

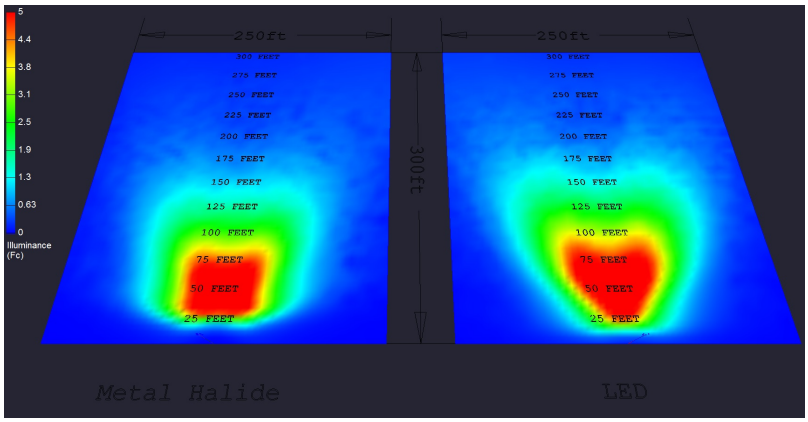
with Dusk to Dawn Motion Sensor offers intense light output and is ideal for flood lighting, high mast lighting, light towers, as well as industrial and outdoor lighting applications. Producing 64,800 lumens, a 1.04 amp draw at 480V, 80,000 hour service life, 347-480V volt compatibility, and IP67 waterproof 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 built-in sensor allows this fixture to operate automatically depending on the ambient light levels detected near the fixture.

The GAU-LTL-500W-LED-DNS-480V LED light from Larson Electronics produces 64,800 lumens of high intensity light while drawing only 480 watts at 1.04 amps from a 480 volt electrical system. Forty-Eight CREE® high output LEDs producing 1350 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, 34° 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-LTL-500W-LED-DNS-480V 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.

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.



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-DNS-480V 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.

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-LTL-500W-LED-DNS-480V 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.
Voltage: This light is universal voltage capable and can be operated with 347-480 VAC without modifications. 347V is common in Western Canada, while 480V is common in the United States and Eastern Canada. This explosion proof LED light fixture is IP67 rated, dust-proof, and protected against high pressure jets and temporary submersion. The extruded aluminum body and LED lamp give this light excellent durability and resistance to vibration and impacts. The housing is specially designed to dissipate heat which increases the efficiency and lifespan of the LEDs and electronics.
The GAU-LTL-500W-LED-DNS-480V features an integrated day/night photocell that allows for automatic operation of the light when ambient light levels drop below a certain amount such as in low light conditions or at night. This automatic operation of the light adds an additional layer of convenience to this LED light fixture. Operators can adjust the photocell sensor to turn the light on at different ambient light levels to accomodate the specific needs of the location where the light is installed. This feature adds even more versatility to this unit.
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.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

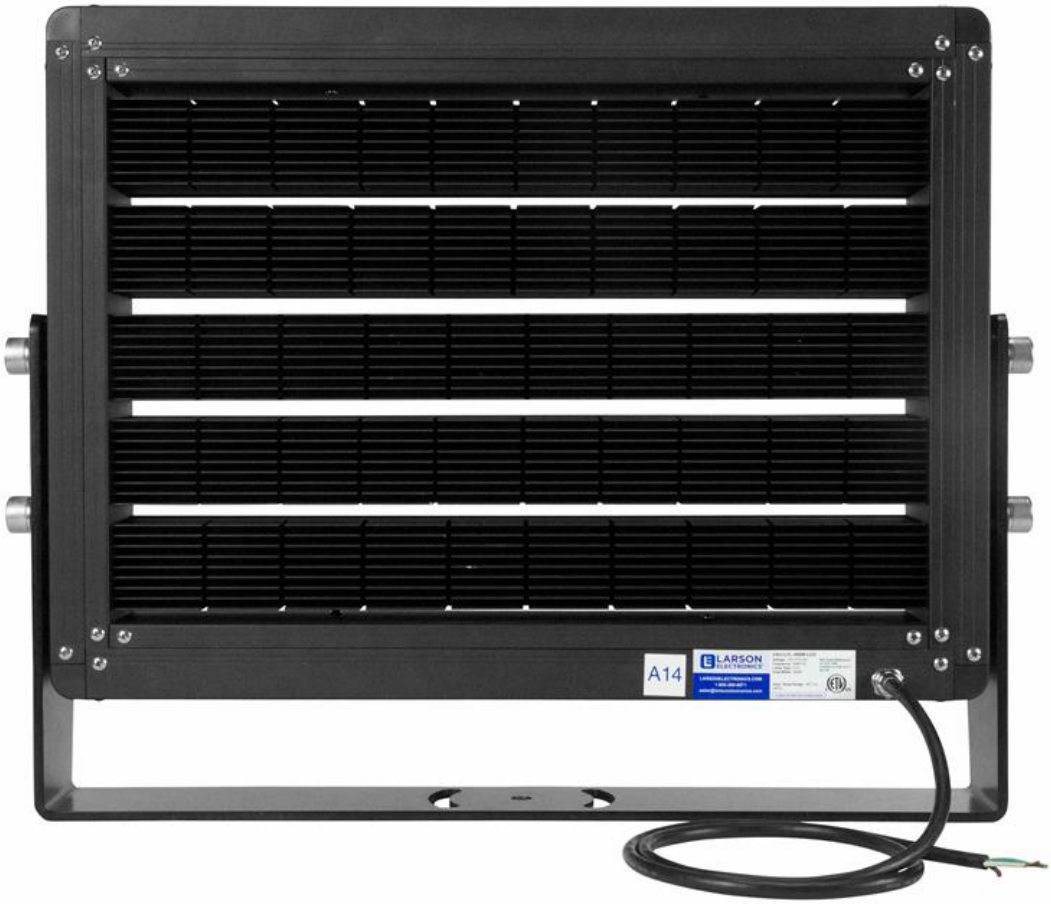
www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)








A14

GAU-LTL-500W-LED-DNS-480V
Product ID: 147326

Warranty: 36 Months

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

Options:
GAU-LTL-500W-LED-DNS-480V-Beam Angle
Example: GAU-LTL-500W-LED-DNS-480V-10SP

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

Links (Click on the below items to view):

- Dimensional Drawing 2D
- 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
- SpecSheetSpanish
- Spectrum Curve (Wavelength Graph)
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map