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-PT-750W-LED-SSB-CY-D

# 648W High Intensity Infrared LED Light - 120-277V AC - IP67 Waterproof - High Frost - Night Vision Friendly - Pole Top Mount

**Product ID: 266723**

**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-750W-LED-SSB-CY-D High Mast Infrared LED Light**

**Listing:** -
**Lamp Technology: Infrared LEDs - Cyan**
**Dimensions:** 49"L x 12.46"W x 3.54"D
**Weight:** 78 lb
**Lamp Quantity:** -
**Voltage:** 120-277 V AC or 127-431 V DC (Optional)
**Frequency:** -
**Total Watts:** 648 W
**Total Lumens:** 46,800
**Luminous Efficacy:** 72.22 Lm/w
**Lamp Life:** 80,000+ Hours
**IR Wavelength Range:** 485-494 nm
**Peak Wavelength:** 491 nm
**Color Rendering Index:** -
**Beam Configurations:** 10° Spot, 24° Wide Spot, 30° Narrow Flood 38° Narrow Flood, 60° Flood, or 90° Wide Flood
**Optics Efficiency:** 98% - PMMA High Transmittance Optics
**LED Drive %:** 90%
**Power Efficiency:** -
**Power Factor:** -

**Quick Summary**

Ambient Op Temp -40°F to +140°F
Ideal for Light Towers & LED Retrofits
98% Transmission High Purity PMMA Optics
Multiple LED Banks for Heat Dispersion
RoHS Compliant
IP67 Rated Waterproof
NRTL Certified to UL1012 Compliant
NRTL Certified to UL60950-1 Compliant
CE Certified

**Amperage:** -

**Ambient Temperature Range:** -40°F to +140°F

**Temp Rating:** -

**Housing Material:** Anodized Aluminum & ABS Housing, PMMA Optics

**Hardware/Hub Material:** -

**Lens Material:** High Frosted Opaque

**Mounting:** Pole Top Slip Fit - 304 Stainless Steel

**Wiring:** 2.5' Pigtail w/ Flying Leads

**Housing Color:** Powder Coated Black

**Special Orders - Special Requirements**

Contact us for special requirements

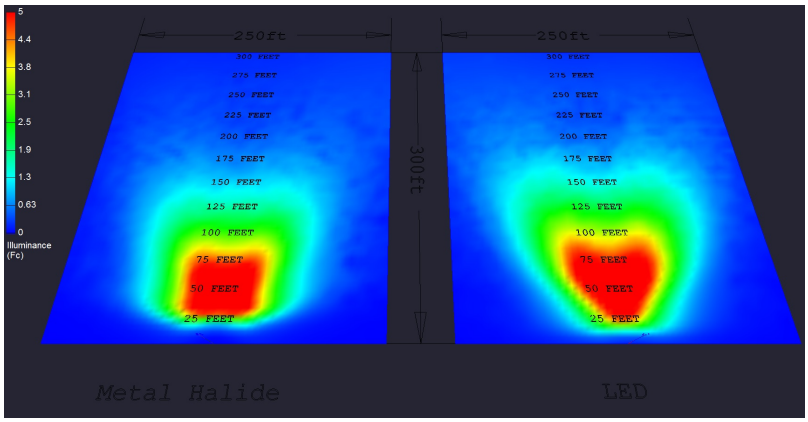
**Toll Free:** 1-800-369-6671
**Intl:** 1-903-270-1187
**Fax:** 1-903-498-3364
**E-mail:** sales@larsonelectronics.com

**The GAU-PT-750W-LED-SSB-CY-D High Intensity Infrared LED Pole Top Mount Light emits non-visible infrared beams in outdoor work sites. This 648-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 has a wavelength range of 485-494 nm. This fixture features a high frosted opaque lens that removes `hotspots` associated with high powered LEDs, is rated for use in marine environments, and is 0-10 V dimmable.**

The GAU-PT-750W-LED-SSB-CY-D from Larson Electronics is a 648-watt infrared lamp for outdoor locations. The GAU-PT-750W-LED-SSB-CY-D features seventy-two high output infrared cyan LEDs that each produce 650 lumens for a total lumen output of 46,800 lumens. The 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, 30° narrow flood, 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-PT-750W-LED-SSB-CY-D 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. This Night Vision Imaging System (NVIS) friendly light has a wavelength range of 485-494 nm with a peak of 491 nm.

**Durability:** As well as unparalleled heat control, the GAU-PT-750W-LED-SSB-CY-D 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°F to +140°F, are waterproof, and resist ingress of dust, dirt and humidity. The housings are formed from anodized 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.




**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-PT-750W-LED-SSB-CY-D 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 severely 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.

---

**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.
**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.
This LED light fixture features 0-10V dimming capabilities. This gives operators the ability to manually adjust the brightness of the LED lamp quickly and easily. The 0-10V dimming allows for adjustments to fit the brightness needs of any lighting situation. A 0-10V dimmable light works through the use of a DC control signal that ranges between zero and ten volts. The basic idea is that at 10 volts of input the light is at its brightest level with 0 volts being the lowest possible dimness setting. The smooth, continuous and flicker-free dimming of a 0-10V dimmable LED light is ideal for a wide range of different lighting applications.
**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. Both the trunnion bracket and the pole top mount on the GAU-PT-500LTL-LED-SSB-D are constructed from 304 stainless

steel.
**Applications:** Marine applications for usage during night time operations when the operators are using night vision goggles.
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.

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)




A18





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-PT-750W-LED-SSB-CY-D**

**Product ID: 266723**

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

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

**Options:**

**GAU-PT-750W-LED-SSB-CY-D-Beam Config-Pole OD**

**Example: GAU-PT-750W-LED-SSB-CY-D-10SP-1.5in**

| Beam Config | |
|---|---|
| 10° SPOT | -10SP |
| 24° WIDE SPOT | -24WS |
| 30° NARROW FLOOD | -30NF |
| 38° NARROW FLOOD | -38NF |
| 60° FLOOD | -60F |
| 90° WIDE FLOOD | -90WF |

| 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):

- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**