Larson Electronics LLC
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LEDLB-4ET-IR

Infrared LED Light Emitter on Trunnion Mount - 12 Watts - 850/940nm - Extreme Environment - 9-42VDC

Product ID: 47102

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image: LEDLB-4ET-IR

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.

LEDLB-4ET-IR LED Light Bar

LEDs: 4 Edixeon® 3 Watt Infrared LED Emitters
Dimensions: 4"-L 3"-H 3.56"-D
Watts: 12

Voltage: 9-42 VDC

Spot Beam: 90`L x 70`W

Flood Beam: 70` L x 60`W

Weight: 2.4 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Stud Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 1 (on 12 volts) .5 (on 24 volts)
Lumens: 720
LED Light Color:Infrared:850Nm or 940Nm
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%

LEDLB LED Features

Edixeon® 3 Watt Infrared LED Emitters
LEDs Driven At 80%
-40 C~ +80C Operating Temp Range

RoHS Compliant

70% Lumen Retention @65,000 hours
LED Chip Op Temp -40C to +125C
IP68 Rated Waterproof to 3 meters

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187

Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Lux-Flood : @Lens: 185,800 @ 1 Meter 2,672
Lux-Spot : @Lens: 190,400 @ 1 Meter 8,440

E-mail: sales@larsonelectronics.com

CE Certified

3 year warranty replacement on this LED light. After 30 days, the customer ships the failed LED light and/or LED bulb to Larson Electronics at their expense. If the failure is a manufacturer defect, we will ship a new replacement to the customer. If failure occurs within 30 days of receipt, Larson Electronics will provide a return label via email to the customer. When the failed light is returned, Larson Electronics will ship a new replacement.

Buy American Compliant

The Larson Electronics LEDLB-4ET-IR infrared LED Light Bar offers high light output and extreme durability combined with a versatile trunnion wall mounting system that provides 270 degrees of adjustability. This IP67 rated infrared LED light bar produces an infrared light beam that can only be seen through the use of night vision goggles. 850Nm versions have a very slight red glow around the LED emitters when veiwed from a certain angle while 940Nm versions are completely invisible to the naked eye. This light can run on any voltage from 9 to 42 volts and provides an extremely rugged infrared lighting solution that is ideal for use in commercial and industrial security applications as well as military environments.

Click here to see the LED version of this

The LEDLB-4ET-IR infrared LED light bar from Larson Electronics produces light in the infrared 850Nm or 940Nm end of the light spectrum depending upon the version selected. Four Edison Edixeon® 3 watt infrared emitters producing 180 lumens each are arranged in rows and paired with high purity 10 degree optics to produce a tightly focused spot beam 90` long by 70` wide with limited spread or light spillage. We offer optional floodlight versions of this light that have 35 degree optics to produce a wider beam spread and more light over a larger area nearer the fixture. These LED light bars are IP67 rated and waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. The entire Larson Electronics LEDLB-E series are constructed of extruded aluminum and feature heavier housings, rubber isolated mounts and unbreakable polycarbonate lenses to provide increased durability against vibrations, impacts, waves, hard rains, sand and high winds. This light is equipped with a trunnion mounting bracket that allows operators to adjust the light fixture through 270 degrees of movement.

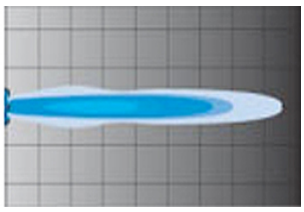
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating fin design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Edison Edixeon® Emitters. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.

Voltage Control: These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB series light bars can operate on current ranging from 9 to 42VDC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for mobile and standalone applications such as those found on commercial boats, heavy equipment and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

LEDLB-4ET-IR 35° Flood Beam (Opt)



LEDLB-4ET-IR 10° Spot Beam (Stnd)



Durability: The LEDLB-E series of LED light bars from Larson Electronics offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. The LED lights with the 'E' part number designation are designed for extreme durability and are larger and nearly twice as heavy as their standard counterparts. These units can withstand rapid temperature changes of -40 degrees Celsius to 85 degrees Celsius, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from thick extruded aluminum and the lenses are unbreakable polycarbonate. The Edixeon® LEDs offer inherent LED resistance to shocks and vibrations contributing to these units 15.6Grms rating of vibration tolerance. We recommend these LED lights for high stress - high vibratory conditions, high humidity climates, very cold areas and rough saltwater conditions. They are also well suited to environments where equipment is used in one temperature extreme and stored in another temperature extreme.

Adjustable Mounting: The trunnion wall mounting design on the LEDLB-4ET-IR allows for post-installation angle positioning. This means that by loosening 2 thumb bolts located on either side of the light, the operator can adjust the positioning angle of this light 270 degrees. Then he/she would simply have to tighten thumb bolts to lock the angle in place. No tools are required for adjusting angle. We also offer a BC-2 bar clamp mounting system you can view here for even greater mounting versatility.

Note: Most Larson Electronics LEDLB, LEDP3W, LEDP10W, and LED10W series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. Most LEDLB and LED10W series lights ship with mating connector as part of a harness or pigtail, depending on the model. Some larger LED lights like the LEDLB-160X2 or LEDLB-200X2 or multiple function LED lights (i.e. high/low beam, modulating, IR/Visible combos) will have different Deutsch connectors.

Measurements:
Taken at 5 feet from the lens.
850nm Spot - 1270 uWatts/cm^2

850nm Flood - 110 uWatts/cm^2
940nm Flood - 33 uWatts/cm^2

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Frequently Asked Questions (FAQ)

There are no Faqs

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LEDLB-4ET-IR

Product ID: 47102

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

Options:

LEDLB-4ET-IR-Beam Pattern-Wavelength-Housing Color
Example: LEDLB-4ET-IR-SP-750NM-BLK

Beam Pattern	
SPOT	-SP
FLOOD	-FL

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

Housing Color	
BLACK	-BLK
WHITE	-WHT

Links (Click on the below items to view):

- **CE Certificate**(https://www.larsonelectronics.com/images/product/CECert/47102.PDF)
- **Eye Safety Information/Certificate**(https://www.larsonelectronics.com/images/product/EyeSafety/47102.PDF)
- **Military Specification Certificate 1**(https://www.larsonelectronics.com/images/product/Milspec1/47102.PDF)
- **MSDS (Material Safety Data Sheet**(https://www.larsonelectronics.com/images/product/Msds/47102.PDF)
- **Operations Manual**(https://www.larsonelectronics.com/images/product/Manual/47102.PDF)
- **RoHS Certificate (Restriction of Hazardous Substances)**(https://www.larsonelectronics.com/images/product/RoHSCert/47102.PDF)
- **SpecSheetArabic**(https://www.larsonelectronics.com/images/product/SpecSheetArabic/47102.PDF)
- **SpecSheetFrench**(https://www.larsonelectronics.com/images/product/SpecSheetFrench/47102.PDF)
- **Spectrum Curve (Wavelength Graph)**(https://www.larsonelectronics.com/images/product/SpectrumChart/47102.PDF)
- **HigResPic1**(https://www.larsonelectronics.com/images/product/HigResPic1/47102.JPG)
- **HigResPic2**(https://www.larsonelectronics.com/images/product/HigResPic2/47102.JPG)
- **HigResPic3**(https://www.larsonelectronics.com/images/product/HigResPic3/47102.JPG)
- **HigResPic4**(https://www.larsonelectronics.com/images/product/HigResPic4/47102.JPG)
- **HigResPic5**(https://www.larsonelectronics.com/images/product/HigResPic5/47102.JPG)
- **HigResPic6**(https://www.larsonelectronics.com/images/product/HigResPic6/47102.JPG)
- **HigResPic7**(https://www.larsonelectronics.com/images/product/HigResPic7/47102.JPG)
- **Video1**(https://www.youtube.com/watch?v=QNIIwlMmJLY)
- **ISO 9001 Certification**(http://larsonelectronics.com/images/pdfdocs/ISO9001.PDF)
- **Business Certificate**(https://www.larsonelectronics.com/images/pdfdocs/w9.PDF)
- **Shipping Time Map**(https://www.larsonelectronics.com/images/product/ShippingTimeMap/ShippingTimeMap.pdf)