Larson Electronics LLC
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LEDLB-4-IR-M

Infrared LED Light Emitter - Magnetic Mount - 90'L X 70'W Spot Beam - 9-42 Volts - 4, 3-Watt LEDs

Product ID: 47434



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-4-IR-M LED Light Bar

LEDs: 4 Edixeon® 3 Watt Infrared LED Emitters
Dimensions: 3.5"-L 2.75"-H 3"-D
Watts: 12

Voltage: 9-42 VDC
Spot Beam: 90`L x 70`W
Flood Beam: 70` L x 60`W

Weight: 1.5 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Magnetic Base
Wiring: Cigarette Cord

Amps:1 (on 12 volts) .5 (on 24 volts)

Lumens: 720 Infrared Equivalent
LED Light Color: 850Nm or 940Nm Infrared
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White

LEDLB LED Features

Edixeon® 3 Watt 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
IP67 Rated Waterproof to 1 metert

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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CE Certified
EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety

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-4-IR-M LED Light Bar offers high light output and a compact profile combined with a versatile magnetic mounting system that provides convenience and secure attachment to vehicles, equipment and any flat metallic surface. This light can run on any voltage from 9 to 42 volts and 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 viewed from a certain angle while 940Nm versions are completely invisible to the naked eye.

Click here to see the LED version of this_

The LEDLB-4-IR-M LED light bar from Larson Electronics produces a 90` long by 70` wide light beam with an infrared equivalent of 720 lumens of light. Four 3 watt Edison Edixeon® 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 with limited spread or light spillage. We also offer optional floodlight versions with 35 degree optics to produce a wider beam spread and more light over a larger area nearer the fixture.

These infrared LED light bars are IP67 rated and waterproof to 1 meter, sealed against intrusion by dust and dirt and durably constructed to withstand demanding environments, conditions and applications. The entire Larson Electronics LEDLB series are constructed of extruded aluminum and feature low profile compact housings, rubber isolated mounts and unbreakable polycarbonate lenses to provide increased durability against vibrations, impacts, waves, hard rains, sand and high winds.

Click here to view an article on the Generations of Night Vision and Infrared.

This light is equipped with a 200lbs grip magnetic mount base and 16 foot coil cord ending in a cigarette plug connector. This magnetic base allows fast and easy setup of this light on vehicles and equipment and will hold the fixture in place at speeds up to 70mph provided the mount is properly affixed and secure.



Security camera view (no LED emitter bar)

Click Photo to Enlarge



Security camera view with LED IR light

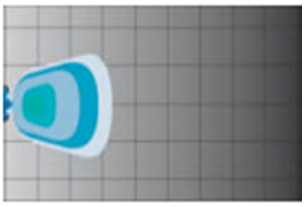
Click Photo to Enlarge

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.

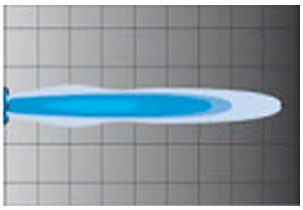
Voltage Control: These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB series light bars can operate on current ranging from 9 to 42VDC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for mobile and stand alone 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-4-IR-M 35° Flood Beam (Opt)



LEDLB-4-IR-M 10° Spot Beam (Stnd)



Durability: The LEDLB series of LED light bars from Larson Electronics offer IP67 rated construction that is designed to withstand the rigors of demanding operating conditions yet are lighter and smaller than our LEDLB-E series of extreme duty light bars. The LEDLB series is designed to provide a low profile, light weight, high performance light bar that can be mounted where other lights will not fit. These units can operate in temperatures of -40 degrees Celsius to 80 degrees Celsius, are waterproof to 1 meter and resist ingress of dust, dirt and humidity. The housings are formed from 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.
Adjustable Magnetic Mounting: The 200lbs grip magnet and cigarette cord mounting design on the LEDLB-4E-IR-M allows for easy fixture placement. This mounting system includes a 16 ft coiled power cord with a cigarette plug connector which makes this unit ideal for vehicle and equipment lighting applications where the unit can simply be attached or removed as needed. Please note, the magnetic base on this unit increases the units overall height.
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


MISTER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ELECTRONICS
LEDLB-4E-M-110V-BLK-SP-60K
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A53

Material Safety Data Sheet

To Whom It May Concern,

The Larson Electronics LLC LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE industrial line of LED light bars and light fixtures without emergency battery backup are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS). This document does not expire.

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

Regards,

Ray Smith
Larson Electronics, LLC.

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE Series
Description: LED Light Bars

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE
CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Model: LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE
Description: LED Light Bars

Evaluated Listings:

CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Description: LED Light Bars

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Frequently Asked Questions (FAQ)