

72 Watt Infrared LED Light System - Spot/Flood Combination

Part #: LEDLB-24SF-IR

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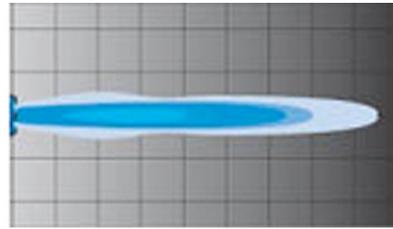
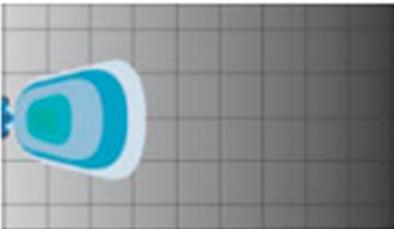
The Larson Electronics LEDLB-24SF-IR LED Light Bar offers high infrared light output and extreme durability for demanding operating conditions. This IP68 rated infrared LED light bar is waterproof to three meters and produces an infrared light beam 900' long by 100' wide light that can only be seen through 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. Dual spot and flood optics combined with separate power sources allow for switching from spot to flood with a flip of a switch. 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.

The LEDLB-24SF-IR infrared LED light bar produces light in the infrared 850Nm or 940Nm end of the light spectrum depending upon the version selected. In spot configuration this infrared LED emitter produces a 900' long by 100' wide infrared beam of light with a tight focus and moderate beam spread. In flood configuration this infrared LED light produces a 400' long by 225' wide spread infrared beam concentrated much closer to fixture. Twenty-four Edison Edixeon® 3 watt infrared emitters are arranged in rows and paired with high purity 10 degree spot and 35 degree flood optics to produce a tightly focused spot beam with limited spread or light spillage. Separate power supply connections allow operators to change from spot to flood with a 3-way toggle switch.

These LED light bars are IP68 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 LEDLB 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.

**LEDLB-24SF-IR 35° Flood Beam
(Opt)**

**LEDLB-24SF-IR 10° Spot Beam
(Std)**



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 intensity 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 boats, heavy equipment and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical. A 20 foot vehicle harness is provided and can be used with 3 position toggle switch to change from spot to flood. Power leads from the light are terminated with 3-pin Deutsch receptacle. Matching 3-pin Deutsch plug is provided with the harness. Operators can provide their own custom switching solutions to direct power to either the spot or flood LED arrays.

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 heavier than the standard LEDLB series lights and are 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.

Mounting: LEDLB series light bars are equipped standard with aluminum mounting blocks which slide within the aluminum housing to allow users to adjust their positioning to match existing or user drilled mounting holes. Each aluminum mounting block has an integrated rubber bushing to absorb vibrations and shocks. To secure the lights in place users simply slide the mounting bolts through the aluminum mounting block and rubber isolator, through the mounting surface, then secure the bolt with a locking nut on the opposite side of the mounting surface. This mounting system enables mounting to flat or round surfaces and allows for minimal 7 degrees of flexibility of angle placement of the light. We also offer a BC-2 bar clamp mounting system you can view here for even greater mounting versatility.

Note: Most 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.

Specifications / Additional Information**LEDLB-24SF-IR LED Light Bar****LEDs:** 24 Edixeon® 3 Watt IR LED Emitters**Dimensions:** 8.25"-L 5.27"-H 3.57"-D**Watts:** 72**Voltage:** 9-42 VDC**Weight:** 7.4 Lbs**Lighting Configuration:** 10° Spot or 35° Flood**Mounting:** Stud Bracket**Wiring:** Deutsch IPD / LADD DT04-3P connector**Amps:** 6 (on 12 volts) 3 (on 24 volts)**LED Light Color:** Infrared- 750Nm, 850Nm or 940Nm**LED Life Expectancy:** 50,000 hours**Optics Efficiency:** 90%**Materials:** Aluminum Housing, Polycarbonate Lens**Housing Colors:** Black or White**Spot Beam:** 900'L x 100'W**Flood Beam:** 300'L x 280'W

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, we will ship a new replacement.

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[Part #: LEDLB-24SF-IR \(47310\)](#)

LEDLB LED Features

Edixeon® 3 Watt IR 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 +110C

IP68 Rated Waterproof to 3 Meters

CE Certified**Special Orders- Requirements**

Contact us for special requirements

Toll Free: 1-800-369-6671**Intl:** 1-903-498-3363**E-mail:** sales@larsonelectronics.com



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