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LEDLB-80X2E-RED

LED Emitter - 80 Red LEDs - 20 x 4 LED Array - 14,400 Lumen - 1750'L x 300'W Beam - Extreme Environment

Product ID: 239747

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.

LEDLB-80X2E-RED LED Light Bar

LEDs: 80 3 Watt Red LED Emitters
Dimensions: 22.25"-L 5.25"-H 3.56"-D
Watts: 240

Voltage: 9-42 VDC
Spot Beam: 1750`L x 300`W
Flood Beam: 570`L x 500`W

Weight: 19.5 Lbs
Lighting Configuration: 10° Spot or 35° Flood

Mounting: Inverted U Bracket

Wiring: Deutsch IPD / LADD DT04-2P connector

Amps: 20 (on 12 volts) 10 (on 24 volts)

Lumens: 14,400
LED Light Color: Red

LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White
**Lux Readings 10` increments:** 10` - 10,000, 20` - 2,900, 30` - 1,275, 40` - 660, 50` -

LEDLB LED Features

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
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

E-mail: sales@larsonelectronics.com

425, 60` - 290, 70` - 195, 80` - 140, 90` - 110, 100` - 90, 110` - 70

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-80X2E-RED LED Light Bar offers high light output and extreme durability combined with versatile mounting and power options. This IP68 rated LED light bar is waterproof to three meters and produces 14,400 lumens while drawing only 240 watts of power @20 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 volts and provides an extremely rugged lighting solution that is ideal for use in commercial marine environments as well as industrial and manufacturing applications such as machine vision system lighting, heavy equipment illumination, blasting lighting and mining operations.

The LEDLB-80X2E-RED LED light bar from Larson Electronics produces a 1750` long by 300` wide light beam with 14,400 lumens of bright light while drawing only 240 watts @20 amps from a 12 volt electrical system. Eighty, three watt red LEDs 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, making flood versions ideal for use as work and area lights. 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 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 photo shows an open field illuminated only by ambient light at approximately 9:00 pm`.

Click Photo to Enlarge



This image shows the LEDLB-80X2E unit illuminating the field, a sign is placed approx. 975 feet away.

Click Photo to Enlarge



This photo shows a close up on the sign, notice that the actual beam reaches out farther than the Larson Electronics sign.

Click Photo to Enlarge

This is a popular LED light with commerical fishermen. If you are selecting this light for commercial fishing use, be sure to select the spot beam option and not the flood beam. Lobster Fishermen have actually reported being able to read small details such as watches and compasses at over 2800`!!

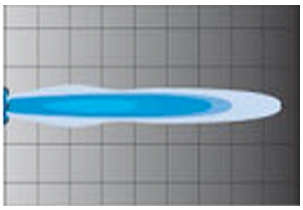
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating fin design which dissipates heat efficiently to produce the maximum amount of power and longevity. 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-80X2E 35° Flood Beam (Opt)



LEDLB-80X2E 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 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: Larson Electronics 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. In this LED emitter light bar model, an additional mounting option is provided. The adjustable, shock insulated mounts are attached to a simple, inverted u-bracket type mount. The LED light bar can then be mounted via a single 3/8 bolt through the center of the bracket. 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.

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Frequently Asked Questions (FAQ)




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LEDLB-80X2E-RED

Product ID: 239747

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

Options:

LEDLB-80X2E-RED-Finish-Beam Pattern

Example: LEDLB-80X2E-RED-BLK-SP

Finish	
BLACK	-BLK
WHITE	-WHT

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- CE Certificate
- Dimensional Drawing 2D
- Military Specification Certificate 1
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map