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LEDLB-4E

LED Light Emitter - 12 Watts - 4 LEDs - 90'L x 70'W Beam - 9-42VDC - 720 Lumen - Extreme Environment

Product ID: 46822

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-4E LED Light Bar

LEDs: 4 Edixeon® 3 Watt 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: 20` 16/2 wiring hardness w/ Deutsch waterproof quick disconnect and
Amps: 1 (on 12 volts) .5 (on 24 volts)
Lumens: 720
LED Light Color: 6000K or 3000K
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
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

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
IP68 Rated Waterproof to 3 Meters
CE Certified

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

Buy American Compliant

The Larson Electronics LEDLB-4E LED Light Bar offers high light output and extreme durability combined with a versatile mounting and power options. This IP68 rated LED light bar is waterproof to three meters and produces 720 lumens while drawing only 12 watts of power @1 amp 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-4E LED light bar from Larson Electronics produces a 90` long by 70` wide light beam with 720 lumens of bright light. Four Edison Edixeon® Emitters containing CREE EZBright® three watt 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 image shows a dark street, illuminated by nothing but distant street lamps and suburban lighting.
Click Photo to Enlarge

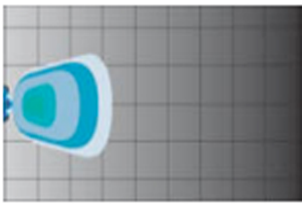
The same street illuminated with the LEDLB-4E, easily reaching distances of 90` in length and 70` in width. .
Click Photo to Enlarge

Click Photo to Enlarge **Click Photo to Enlarge** **Click Photo to Enlarge**

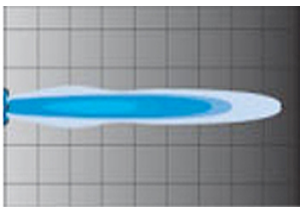
*We have had excellent feedback from boat builders and other marine applications where they are able to create lighting effects on the mast, etc. that typically cost 10 times as much but with little amp draw. Technically, the specification indicates a 1 amp draw per unit but the feedback we are getting indicates the draw is substantially less. One boat builder in Houston indicated that the total draw of 12 units was under 2 amps. The efficiency of the driver board makes this type of amp draw attractive for current constrained applications including small equipment, ATVs, boats and other applications where banks of batteries without significant alternator support are the sole source of power. These units are also ideal for use in manufacturing and industrial operations as machine lighting where severe vibration and excessive amounts of dirt and grime may be encountered.

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-4E 35° Flood Beam (Opt)



LEDLB-4E 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.
Mount: 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

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. You can view the Deutsch Connector technical details here.

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Frequently Asked Questions (FAQ)








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LEDLB-4E

Product ID: 46822

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

Options:

LEDLB-4E-Finish-Beam Pattern-Color Temp

Example: LEDLB-4E-BLK-SP-60K

Finish	
BLACK	-BLK
WHITE	-WHT

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Color Temp	
6000K	-60K
3000K	-30K

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)
- SpecSheetArabic
- SpecSheetFrench
- Spectrum Curve (Wavelength Graph)
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- Video1
- Video2
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map