Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LEDLB-12C

LED Light Emitter - Blue, Red, Green, or Amber LEDs - 12 LEDs - 36 Watts - 9-42V - 2160 Lumen

Product ID: 47381

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-12C LED Light Bar
LEDs: 12 Edixeon® 3 Watt LED Emitters
Dimensions: 8"-L 2.75"-H 3"-D
Watts: 36
Voltage: 9-46 VDC
Spot Beam: 375`L x 60`W
Flood Beam: 90`L x 75`W
Weight: 3.3 lbs.
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Stud Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 3 (on 12 volts) 1.5 (on 24 volts)
Lumens: 2160
LED Light Color: Green, Red, Blue, Amber
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Lux-Spot : @Lens: 192,900 @ 1 Meter 17,000
Lux-Flood : @Lens: 186,500 @ 1 Meter 1,930
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.

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 meter
CE Certified

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

Buy American Compliant

The Larson Electronics LEDLB-12C LED Light Bar offers high light output and a compact profile combined with versatile mounting and power options. This IP67 rated LED light bar is waterproof to one meter and produces 2,160 lumens while drawing only 36 watts of power @3 amps from a 12 volt electrical system. This light can run on any voltage from 9 to 42 VDC and is available in Green, Red, Blue, or Amber colors.

The LEDLB-12C LED light bar from Larson Electronics is intended for colored light production and produces a 375` long by 50` wide light beam with 2,160 lumens of bright light. Twelve 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. These LED light bars are IP67 rated and waterproof to 1 meter, sealed against intrusion by dust and dirt and ruggedly 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.

This particular model is available in Green, Red, Blue, or Amber colors making it ideal for alternative and specialized applications including: security gates, light aircraft, man ways, underground access, emergency services, military, construction and safety and hazard warning lighting.

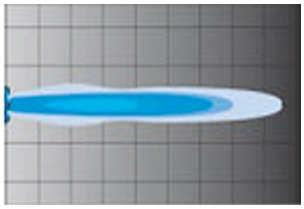
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating 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-12C 35° Flood Beam (Opt)



LEDLB-12C 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 of environmental and operating conditions yet are lighter and smaller than our LEDLBE 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.

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.

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.

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

Frequently Asked Questions (FAQ)

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

LEDLB-12C

Product ID: 47381

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

Options:

LEDLB-12C-LED Color-Beam Pattern

Example: LEDLB-12C-BLU-SP

LED Color	
BLUE	-BLU
RED	-RED
GREEN	-GRN
AMBER	-AMB

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- **CE Certificate**
- **Military Specification Certificate 1**
- **MSDS (Material Safety Data Sheet**
- **Operations Manual**
- **RoHS Certificate (Restriction of Hazardous Substances)**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**