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## LEDLB-80X2-VIR

# 240W LED light - 80 LEDs - Visible / Infrared Combination Light - 1750' X 300' Beam

**Product ID: 46408**

**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-80X2-VIR LED Light Bar**
**LEDs: 80 Edixeon® 3 Watt LED Emitters**
**Dimensions: 21.7"-L 4.77"-H 3"-D**
**Watts: 240**
**Voltage: 9-46 VDC**
**Spot Beam: 1750`L x 300`W**
**Flood Beam: 570`L x 500`W**
**Weight: 11 Lbs**
**Lighting Configuration: 10° Spot or 35° Flood**
**Mounting: Stud Bracket**
**Wiring: Deutsch IPD / LADD DT04-2P connector**
**Amps: 20 (on 12 volts) 7.5 (on 24 volts)**
**Lumens: 14400**
**Wavelength: 6000K Visible- 730/850 -940 Nm InfraRed**
**LED Life Expectancy: 50,000 hours**
**Optics Efficiency: 90%**
**Materials: Aluminum Housing, Polycarbonate Lens**
**Housing Colors: Black or White**
**Lux-10` intervals : 10` - 10,000, 20` - 2,900, 30` - 1,275, 40` - 660, 50` - 425, 60` - 290, 70` - 195, 80` - 140, 90` - 110, 100` - 90, 110` - 70**

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**
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**The Larson Electronics LEDLB-80X2-VIR LED Light Bar offers two light modes in one unit. This LED emitter can be toggled between visible or infrared light output operation and has a compact profile combined with versatile mounting and power options. This IP67 rated LED light bar is waterproof to one meter 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 VDC and provides a durable and powerful lighting solution that is ideal for use in military and law enforcement applications as well as commercial security, hunting and industrial operations.**

Click here to see the LED version of this

The LEDLB-80X2-VIR LED light bar from Larson Electronics produces a 1750` long by 300` wide light beam with 14,400 lumens of bright light. Sixty 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 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.

Two separate power connections are provided, including one that powers the infrared LEDs and one that powers the visible LEDs. Thus, the visible LEDs can be connected to a MRAP or MATV blackout system, enabling the visible light to be turned off when the operator goes into covert mode. 2 rows of 40 LEDs are dedicated to visible lighting, while the other two rows of 40 LEDs are dedicated to infrared lighting. The infrared portion of this LED light can be configured with 750Nm, 850nm or 940nm wavelength IR LEDs.

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**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.

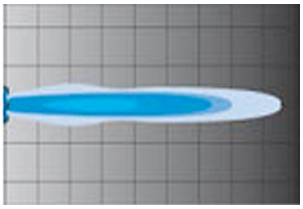
**Voltage Control:** These units are able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDLB series light bars can operate on current ranging from 9 to 42VDC without any modifications necessary as a result. This 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.

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**LEDLB-80X2-VIR 35° Flood Beam (Opt)**



**LEDLB-80X2-VIR 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.

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-80X2-VIR**

**Product ID: 46408**

**Harmonized System (HS) Code:** 9405.41.84.10

**Export Control Classification Number (ECCN):** EAR99

**Options:**

**LEDLB-80X2-VIR-Beam Pattern-Wavelength-Housing Color**

**Example: LEDLB-80X2-VIR-S-750-BLK**

| Beam Pattern | |
|---|---|
| SPOT | -S |
| FLOOD | -F |

| Wavelength | |
|---|---|
| IR750 | -750 |
| IR850 | -850 |
| IR940 | -940 |

| Housing Color | |
|---|---|
| BLACK | -BLK |
| WHITE | -WHT |

Links (Click on the below items to view):

- CE Certificate
- Dimensional Drawing 2D
- Eye Safety Information/Certificate
- Military Specification Certificate 1
- MSDS (Material Safety Data Sheet
- Operations Manual
- RoHS Certificate (Restriction of Hazardous Substances)
- SpecSheetArabic
- SpecSheetFrench
- Spectrum Curve (Wavelength Graph)
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map