Larson Electronics LLC
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Email: sales@LarsonElectronics.com
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LEDLB-12ET-DBM-I-DIMM-LVAC

LED Light Bar - 2" Double Ball Joint Mount - 12 LEDs - 200lb Magnet - Inline Dimmer - 12-24V AC

Product ID: 144615



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-12ET-DBM-I-DIMM-LVAC Dimmable LED Light Bar

LEDs: 12 Edixeon® 3 Watt LED Emitters
Dimensions: 8.25" L x 3" H x 3.56" D
Weight: 4.6 lbs
Watts: 36
Voltage: 12-24V AC
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Trunnion with Double Ball Joint and Magnetic Base
Wiring: 16` Coil Cord w/ Cigarette Plug
Plug Options: 72 hours
Lumens: 2160
LED Light Color: 3000K or 6000K
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

Ratings/Features:

Edixeon® 3 Watt LED Emitters
LEDs Driven At 80%
-40°C to +80°C Operating Temp Range
RoHS Compliant
70% Lumen Retention @ 50,000 Hours
LED Chip Op Temp -40°C to +125°C
IP68 Rated Waterproof to 3 meters
CE Certified

Special Orders- Requirements

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

Buy American Compliant

The Larson Electronics LEDLB-12ET-DBM-I-DIMM-LVAC Dimmable LED Light Bar offers high light output and extreme durability combined with a versatile trunnion and double ball joint mount with magnetic base. The magnetic base provides 200 lbs of magnetic grip while a double ball joint and trunnion mount provides the operator with the ability to adjust the unit to a wide variety of positions while mounted. This LED light emitter bar light runs on 12-24V AC and features an inline dimmer and a 16` coil cord with choice of cigarette plug.

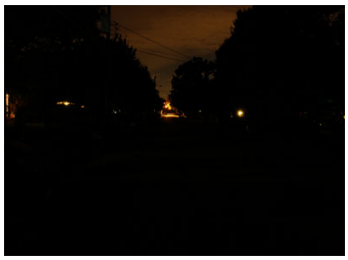
The LEDLB-12ET-DBM-I-DIMM-LVAC LED light bar from Larson Electronics produces a 550` long by 70` wide light beam with 2,160 lumens of bright light. Twelve Edison Edixeon® Emitters containing CREE EZBright® three watt LEDs producing 180 lumens each are arranged in rows and paired with high purity 10 degree 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, 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.

LED Benefits: Unlike gas burning and arc type lamps that have glass bulbs, LEDs have no filaments or fragile housings to break during operation and/or transportation. Instead of heating a small filament or using a combination of gases to produce light, light emitting diodes (LEDs) use semi-conductive materials that illuminate when electric current is applied, providing instant illumination with no warm up or cool down time before re-striking. Because there is no warm up period, this light can be cycled on and off with no reduction in lamp life.

LED lights run at significantly cooler temperatures than traditional metal halide and high pressure sodium lights and contain no harmful gases, vapors, or mercury, making them both safer and more energy efficient. No extra energy is wasted in cooling enclosed work areas due to external heat emissions from bulb type lights, and the operator risks associated with traditional lighting methods, such as accidental burns and exposure to hazardous substances contained in the glass bulbs, are eliminated. In addition, LEDs are also safer for the environment as they are 100% recyclable, which eliminates the need for costly special disposal services required with traditional gas burning and arc type lamps.

This LED light emitter bar light is designed to run directly off of any voltage ranging from 12-24V AC. The LEDLB-12ET-DBM-I-DIMM-LVAC also features an inline dimmer that allows operators to control the brightness of the light via a dial control. The dimmer can be surface mounted or used portably.



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-12ET-DBM-I-DIMM-LVAC, the beam easily reaches the street light over 500` away.

Click Photo to Enlarge

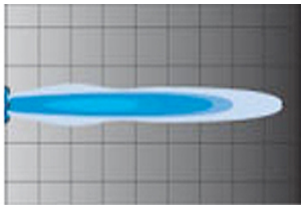
Heat Management: Heat is the single largest factor in premature LED failure and color shifting. As a result, many manufacturers reduce the output of their LEDs to reduce the amount of heat produced. These LED light bars utilize an extruded aluminum housing that incorporates an advanced heat radiating 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 12-24V AC without any modifications necessary as a result. This multi-voltage capability makes these units ideal for mobile and stand alone applications.

LEDLB-12ET-DBM-I-DIMM-LVAC 35° Flood Beam (Opt)



LEDLB-12ET-DBM-I-DIMM-LVAC 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 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.



16ft Coil Cord w/Cigarette Plug
Click Images to Enlarge



21ft Cord with Ring Terminals



16ft Cord w/Battery Clamps



16ft Cord with Cigarette Plug

Wiring/Plug: The LEDLB-12ET-DBM-I-DIMM-LVAC comes with a detachable 16 foot coil cord with cigarette plug. The cord is detached via a weatherproof, 2 pin Deutsch connector which easily and securely attaches and detaches the coil cord from the spotlight. Other cords, including 21 foot cords with ring terminals (C-21RT), 16 foot cord with spring battery clamps (alligator clips) (C-16BC) and a 16 foot straight cord with cigarette plug (C-16CP) are available.
Adjustable Mounting: A magnetic base with a 200 lb grip temporarily secures this unit to various metallic surfaces while a double ball joint mount allows 360 degrees of rotation and 140 degrees of tilt. To adjust this LED unit simply loosen the thumb bolt located on the side of unit, position the light head as desired, then retighten the thumb screw. The light head can be further adjusted by loosening the thumb screws on either side of the light head and moving the light head through 270 degrees of vertical tilt. This mounting system will hold the unit securely in place, even under rough working or driving conditions, and provides an extreme level of placement 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. At Larson Electronics, we do more than meet your lighting needs. We also provide replacement, retrofit, and upgrade parts as well as industrial grade power accessories.

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Our craftsmen can custom build any lighting system and/or accessories to fit the unique demands of your operation. A commitment to honesty, quality, and dependability has made Larson Electronics a leader in the lighting and electronics business since 1973. Contact us today at 800-369-6671 or message sales@larsonelectronics.com for more information about our custom options tailored to meet your specific industry needs.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MH.
5. Retains 70% lumen output after 50,000 operating hours.
6. Extruded aluminum fixture body.
7. 200 Lbs. magnetic mount included
8. Low profile - Light weight
9. 2,160 Lumen output from 36 watts

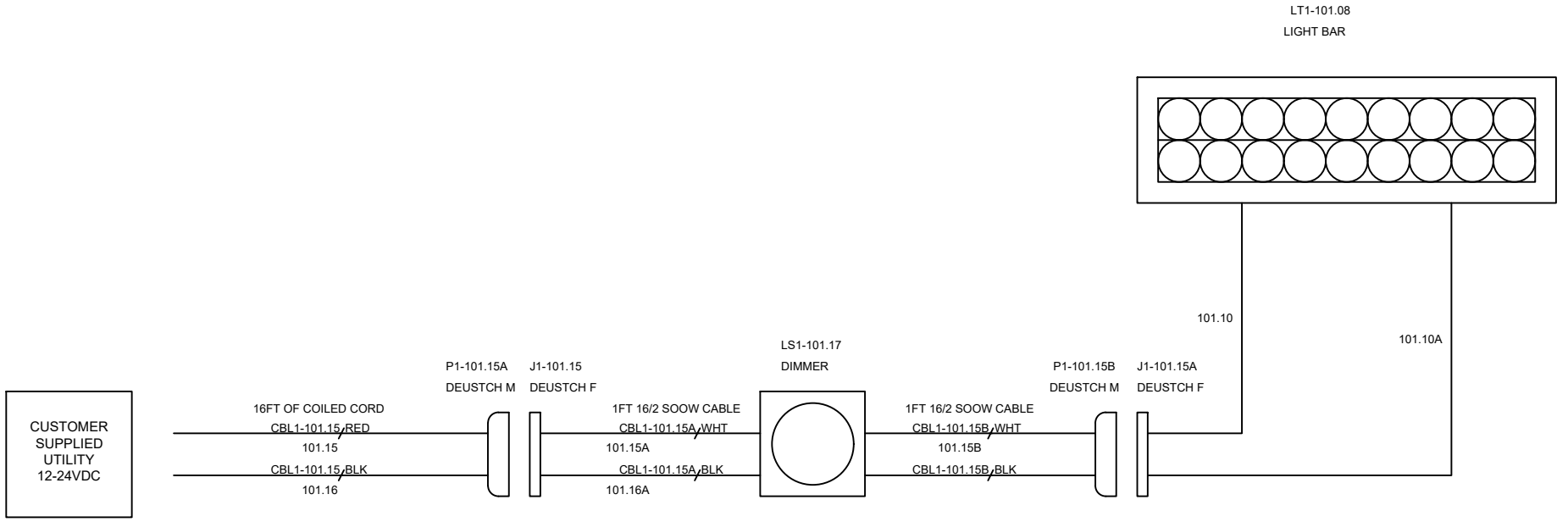
Superior LED Benefits

1. 50,000+ hour lifespan.
2. Can SAVE 50% or more on energy.
3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	10/23/2023

LEDLB-12ET-DBM-I-DIMM-LVAC-BLK-F-16.PIGTAIL

LARSON ELECTRONICS®



TAGS	QTY	CATALOG	DESCRIPTION
J1-101.15 J1-101.15A	2	UNV00005476	DT PRECEPTACLE, 2 way, black
P1-101.15A P1-101.15B	2	UNV00005480	DT Plug, 2 way, black
LT1-101.08	1	UNV00010070	8" 12 LED ELITE BLACK, FLOOD..BEAM PATTERN, 6000K
LS1-101.17	1	UNV00010671	PWM DIMMER SWITCH 6AMP
CBL1-101.15A CBL1-101.15B	2	UNV00002075	CORD 16/2 SOOW UL 90C BLK CABLE
CBL1-101.15	1	UNV00007637	16 FT 16/2 ROUND WIRE COIL CORD WITH DEUTSCH MALE CONNECTOR

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KEMP, TX 75143

TITLE
LEDLB-12ET-DBM-I-DIMM-LVAC-BLK-F-16.PIGTAIL

DRAWN BY	DATE	REV
S.Desai	10/23/2023	A
CHECKED BY	SHEET #	DRAWING #
J.Maldonado	1 OF 1	101

Material Safety Data Sheet

To Whom It May Concern,

The Larson Electronics LLC LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE industrial line of LED light bars and light fixtures without emergency battery backup are considered "ARTICLES" under 29 CFR 1910-1200, the OSHA Hazard Communication Standard, and do not require a Material Safety Data Sheet (MSDS). This document does not expire.

Articles are specifically exempt from the regulations of this standard. OSHA defines an article as follows:

1910-1200(c) – Article means a manufactured item other than a fluid or particle:

i. Which is formed to a specific shape or design during manufacture;
ii. Which has end use function(s) dependent in whole or in part upon its shape or design during end use; and
iii. Which under normal conditions does not release more than very small quantities.

Regards,

Ray Smith
Larson Electronics, LLC.

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Certification

Manufacturer: Larson Electronics LLC
Address: 9419 US-HWY 175
Kemp, Texas 75143

Declare the following equipment conforms to the standard(s) as listed:

Model: LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE Series
Description: LED Light Bars

Evaluated Listings:

CE: DIRECTIVE 2014/35/EU - LOW VOLTAGE DIRECTIVE
CE: DIRECTIVE 2014/30/EU - EMC DIRECTIVE
CE: Regulation (EC) No 1907/2006 - REACH REGULATION
CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

The LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE series complies with the essential protection requirements of the European Parliament of the Council Directive for Low Voltage Directive, EMC Directive, REACH Regulation, and RoHS Directive. This certification applies to all specimens manufactured in accordance to the manufacture's drawings.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Model: LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE
Description: LED Light Bars

Evaluated Listings:

CE: DIRECTIVE 2015/863/EU - ROHS DIRECTIVE

This is to certify that products offered by Larson Electronics LLC comply with the Reduction of Hazardous Substances (RoHS) directives. Directive 2002/95/EC became effective on 1 July 2006. It restricts the use of six substances in the manufacture of electrical and electronic equipment. This directive was revised in June 2011 and is now referred to as directive 2011/65/EU. Directive 2015/863/EU amending Annex II to Directive 2011/65/EU announced plans to add four substances from 22 July 2019.

We hereby certify that the equipment specified above conforms to the Directive(s) by containing less of the restricted substances than the stated limits.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Model: LEDLB, LED3W, LED5W, LED10W, LEDP, and LEDxxWRE Series
Description: LED Light Bars

Evaluated Listings:

CE: Regulation (EC) No 1907/2006 - REACH REGULATION

This letter establishes the opinion of Larson Electronics LLC regarding the status, under the current European Union ("EU") Regulations on Registration, Evaluation, Authorization, and Restriction of Chemical Substances ("REACH").

REACH does not apply to manufactured products which are referred to as "completed articles". Substances (chemicals) are subject to REACH registration, NOT products.

In addition, Articles are exempt from the REACH requirements if (a) the Article does not contain a substance of very high concern or candidate substance in an amount exceeding 0.1% weight by weight, and (b) if substances present in the Article in excess of 1 ton per year per importer are not expected nor intended to be released.

Based on communication with our raw material suppliers, we conclude that to the best of our knowledge our products requiring REACH compliance do not contain any of the currently listed SVHC in concentrations of 0.1% or above.

Accordingly, we foresee no registration or pre-registration requirement for the products we supply.

Signed for and on behalf of: Larson Electronics, LLC
Place of issue: Kemp, TX

Signature: James Thomas

Name: James Thomas
Position: Operations Manager

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Frequently Asked Questions (FAQ)