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LED10W-1S

10 Watt LED Light Emitter - 225' Spot Beam - 9-48VDC - 900 Lumen - Stud Mount

Product ID: 48713



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.

LED10W-1S LED Light

Lamp Type:Seoul Z-Power LED
Dimensions: 2"W 2"-H 2.5"-Depth
Watts: 10
Led Drive %: 80%
Voltage: 9-48 VDC
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable U-Bracket
Wiring: Deutsch IPD / LADD DT04-2P connector
Amps: 0.83 (on 12 volts)
Lumens: 900
LED Light Color: 6300K
LED Life Expectancy: 50,000 hours
Optics Efficiency: 90%
Materials: Aluminum Housing, Polycarbonate Lens
Weight: 13 Ounces
Housing Colors: Black or White

LED10W-1S Features

Seoul Z-Power LED
Low Amp Draw
Small Size
50,000 Hour Service Life
Shock Vibration Resistant
Ambient Op Temp -45C to 85C
Multi-Unit Connectable

CE Certified

EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671
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Buy American Compliant

The LED10W1S-B LED Light is ideal for a wide variety of uses including equipment, vehicle, military, law enforcement and industrial manufacturing applications. This unit is a low voltage, led luminaires for outdoor use. This ultra compact LED light produces an 900 lumen output with low voltage and amp draw, 50,000 hour service life and 9 to 48 volt compatibility providing operators with a versatile and powerful LED lighting solution.

The LED10W1S-B LED light emitter from Larson Electronics produces 900 lumens of bright light while drawing only 10 watts @0.83 amps from a 12 volt electrical system. A single Seoul Z-Power 10 watt LED producing 900 lumens is combined with high purity optics to produce a 10 degree spread spot beam approximately 225' long by 25' in width. We also offer floodlight versions with a 35 degree beam spread to produce a beam 65 feet long by 45 feet wide. This particular unit is ultra compact at only 2 inches wide by 2 inches tall, by 2.5 inches deep, which makes it ideal for marine applications where electrical power and mounting space is at a premium.

Another unique feature of this LED light is that the side brackets enable the operator to connect multiple units together. Thus, operators can combine any number of units to achieve the power and dimensions required for most any application. The LED10W series LED lights are waterproof to 3 meters, sealed against intrusion by dust and dirt and very ruggedly constructed to withstand the most demanding environments, conditions and applications. A small profile, low power requirements, high durability and versatile mounting makes these LED lights ideal for marine use as well as a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning, security and law enforcement, boating, and commercial structure illumination.



This photo shows a road with a street lamp approximately 425` away

Click Photo to Enlarge



This picture shows the LED10W-1S-B in spot mode on the same road

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 design which dissipates heat efficiently to produce the maximum amount of power and longevity from the integrated Seoul Z-Power 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 adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LED10W series LED lights can operate on current ranging from 9 to 50VDC 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.

Durability: The LED10W series of LED light bars from Larson Electronics also offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. These units can withstand frigid temperatures, are waterproof to three meters and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum, the mounting hardware is stainless steel and the lenses are unbreakable polycarbonate. The Seoul Z-Power LEDs offer

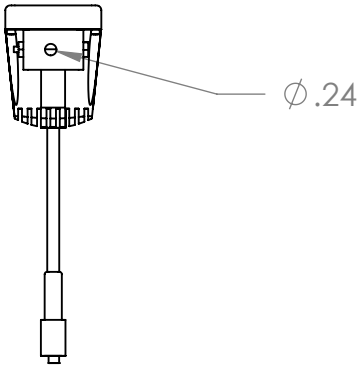
resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.
Mounting: Suspended on top of an adjustable u-bracket, this LED light can be adjusted and tightened into any position to suit your application. A single stud protrudes from the bottom of the u-bracket mount, enabling the operator to install the light using a simple through hole mount. In other words, the light can be installed anywhere a 1/4 inch hole can be drilled.
Note: We include a short male plug with 2 wires, stripped and tinned for connection to leads from a power source with the LED10W-1S (i.e. vehicle system, battery, etc.). 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, LEDP10W 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.

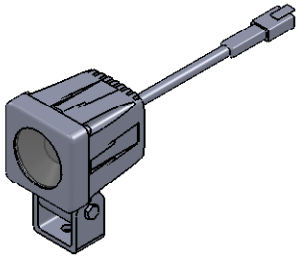
LEDP10W1S-B 35° Flood Beam (Opt)

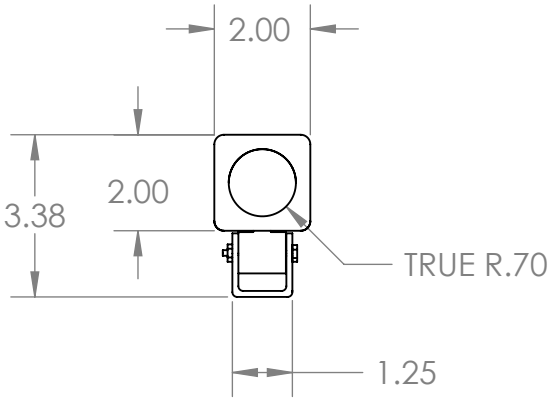


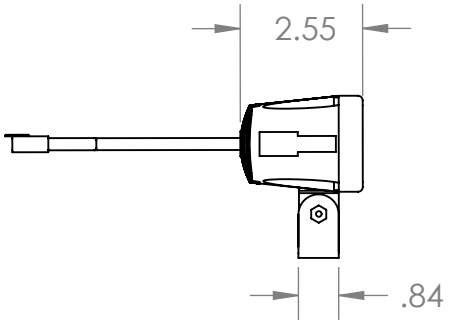
LEDP10W1S-B 10° Wide Spot Beam (Stnd)











		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

PROPRIETARY AND CONFIDENTIAL

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Larsonelectronics.com

TITLE:

LED10W-1S-UL

SIZE	DWG. NO.	REV
A	LED10W-1S	A

SCALE: 1:4 | WEIGHT: | SHEET 1 OF 1

5 4 3 2 1




LARSON
ELECTRONICS





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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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: 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)