

LEDP2X10WRE-ILS-16CP

High Intensity LED Light - 20 Watt LED - 12-32V DC - 700 Foot Spot Beam - Inline Switch - Cig Plug

Product ID: 71587



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.

LEDP2X10WRE-ILS-16CP LED Light

Lamp Type: CREE XLamp XM-L® LED

Dimensions: 5.83"-W5.12"-H 4.8"-Depth

Watts: 20

Led Drive %: 90%

Voltage: 12-32 V DC

Amps: 1.67@ 12V DC - 0.84 @ 24V DC

Spot Beam: 700`+ L

Lighting Configuration: 10° Spot, 20° Wide Spot or 60° Flood

Mounting: Adjustable Trunnion Bracket

Wiring: 16` coil cord - cig plug - inline polycase switch

Lumens: 1720

LED Light Color: 6000K

LED Life Expectancy: 50,000 hours

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White

Internal LED Driver Features

Fast average current control

Programmable off-time switching

Linear dimming input

PWM dimming input

Short Protection w/ Skip Mode

Ambient Op Temp -40C to +85C

Pin-compatible with the HV9910B

[View Avg-Mode Driver Control PDF](#)

[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

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.

Buy American Compliant

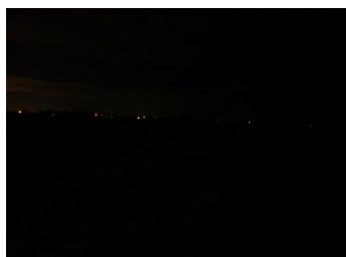
The LEDP2X10WRE-ISL-16CP LED Light Bar is ideal for a wide variety of uses including

equipment, vehicle, military, law enforcement and industrial manufacturing applications. This ultra compact LED light produces a 1720 lumen output with low voltage and amp draw, 50,000 hour service life and 12 to 32 volt compatibility providing operators with a versatile and powerful LED lighting solution.

The LEDP2X10WRE-ISL-16CP LED light emitter from Larson Electronics produces 1720 lumen of bright light while drawing only 20 watts @ 1.67 amps from a 12 volt electrical system. Two CREE XLamp XM-L® 10 watt LED producing 860 lumens each are combined with a precision aluminum reflector and impact/scratch resistance polycarbonate lens to produce a beam traveling over 700' in distance.

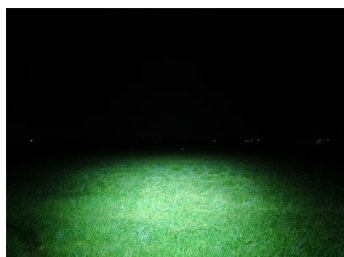
We also offer floodlight versions with a 60 degree beam spread to provide more light over a larger area nearer the fixture, making flood versions ideal for use as work lights. This particular unit is ultra compact at only 5.83 inches wide by 5.12 inches tall, by 4.8 inches deep, which makes it ideal for applications where electrical power and mounting space is at a premium.

The LEDP 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. An integral Pulse Width Modulation controller, small profile, low power requirements, high durability and versatile mounting makes these LED lights ideal for a wide array of applications including but not limited to: military, industrial manufacturing, machine visioning, security and law enforcement, boating, off-roading and commercial structure illumination.



This photo shows an open field illuminated only by ambient light at approximately 9:00 pm`.

[Click Photo to Enlarge](#)



This photo shows the LEDP2X10WRE in flood configuration. Notice a more abundant amount of light, closer to the fixture. Approx. dimensions of the beam are 100'L X 80'W.

[Click Photo to Enlarge](#)

Heat Management: Heat is the single largest factor in premature LED failure and color shifting. These LED units contain advanced drivers which use pulse width modulation to control heat buildup rather than simple voltage regulators which are typically harsh on sensitive electronics and can contribute to early LED failure. These units automatically sense the temperature of each LED and adjust the energy frequency or "duty cycle" accordingly to maintain heat levels within acceptable ranges. This system in essence flashes current at an extremely fast on and off rate to each LED based upon the LED's core temperature. This flash rate is too fast to detect with the human eye, but provides precise control of the current flowing to each LED and thus the heat it generates. This allows the LEDs to be driven at up to 100% capacity without overheating or visible loss of light output. The LEDs are always driven at the same voltage but the duty cycle, however, is changed to alter how long the LEDs are actually on or off. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

Durability: As well as unparalleled heat control, the LEDP WRE series of LED lights from Larson Electronics also offer IP68 rated construction that is designed to withstand extremes of environmental and operating conditions. 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 extruded aluminum and the lenses are unbreakable polycarbonate. The CREE XLamp XM-L® LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Mounting: These LEDP WRE LED lights feature a smaller profile and lighter weight than our LEDLB-E series lights, making them ideal for use in locations where traditional lights cannot fit or would block other mounted equipment. The

LEDP2X10WRE is suspended within a form fitting trunnion (yolk-type) mount. This trunnion mount has two knureld knobs that can be loosened, allowing the LED light to be adjusted and then retightened to lock the light into any desired position once mounted. A single stainless steel stud protrudes from the bottom of the mount, enabling the operator to install the light using a simple through-hole mount, allowing the unit to be installed anywhere a 1/2-inch hole can be drilled.

Wiring: Most Larson Electronics LEDLB, LEDP3W, LEDP10W, LED10W, and LEDP WRE series LED spotlights and floodlights are terminated with a Deutsch IPD / LADD DT04-2P connector. The mating connector plug is DT06-2S. This LED light ships with a 16` coil plug with inline Polycase switch and terminated in a cigarette plug.

LEDP2X10WRE 60° Flood Beam
(Opt)

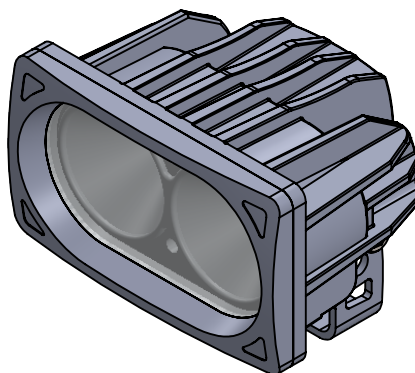
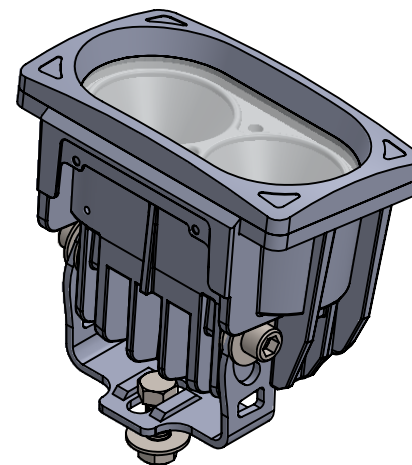
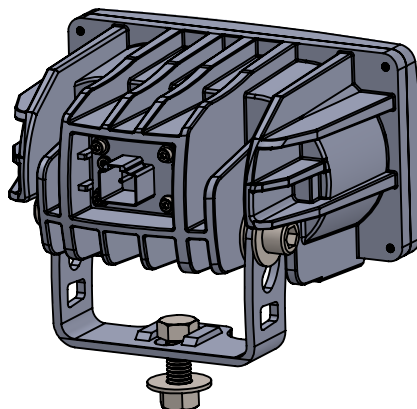
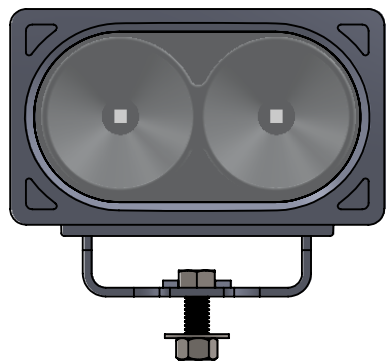


LEDP2X10WRE 10° Wide Spot Beam
(Std)



CONDITIONS

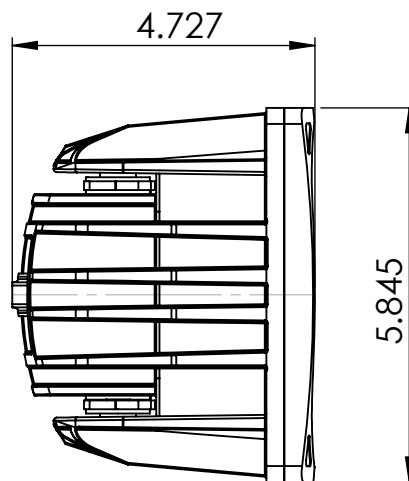
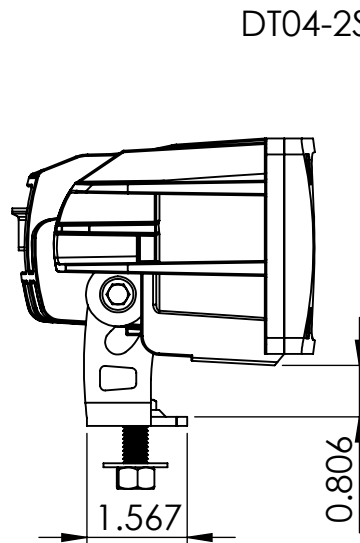
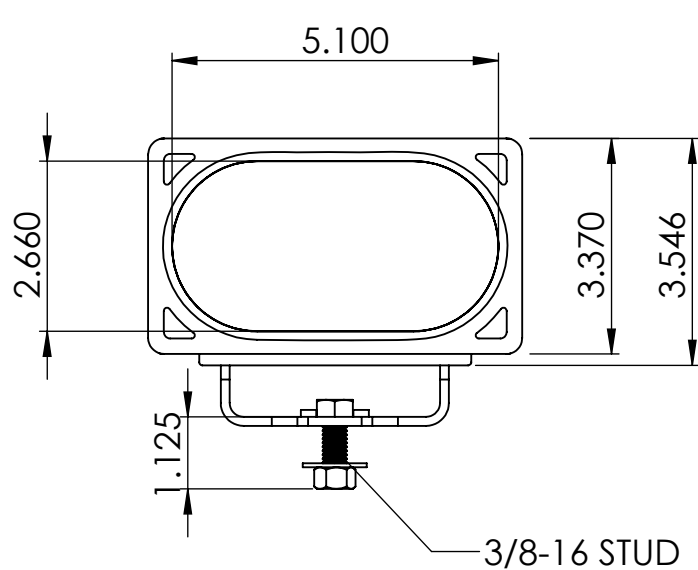
Vin min (V) = 9	toff (us) = 2.9
Vin nom (V) = 12	R1 (kohm) = 50.2
Vin max (V) = 32	L1 (uH) = 3.0
Vo min (V) = 6.5	L-Pk (A) = 2.9
Vo nom (V) = 6.8	L-rms (A) = 2.9
Vo max (V) = 7	Ipk (A) = 2.5
I-LED (A) = 2.2	R2 (ohm) = 0.10
Efficiency = .85	I-FET (A) = 2.2
fsw nom (kHz) = 150	fs min (kHz) = 77
Ts nom (us) = 6.666667	fs max (kHz) = 301
Base frequency-	= 36~37Khz @ 12V
Amplitude of pulse width-	= 27Ms
Outside: External dimmer-	= 500Hz
Inside : Current sensing from-	77KHz at 12V to 300KHz at 50V



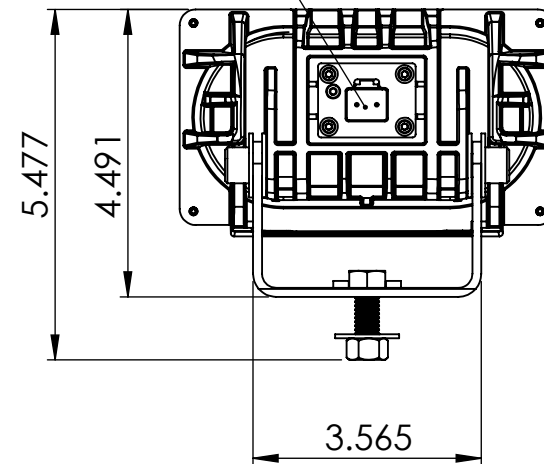
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DIMENSIONS ARE IN INCHES		DRAWN	NAME	
MATERIAL		CHECKED	CHRIS THAUER	
DO NOT SCALE DRAWING			JEREMY BLANKENSHIP	
SCALE: 1:3		SIZE		REV
		A		
		DWG. NO.		
		SHEET 1 OF 3		

TITLE:
LEDP2X10WRE

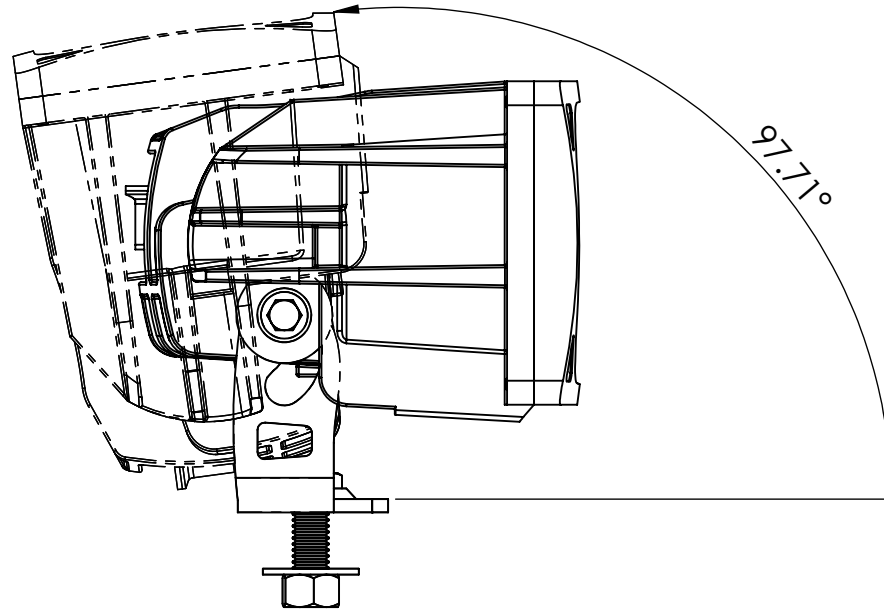


DT04-2S (LED-DT-PLUG)



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			CHRIS THAUER
MATERIAL		CHECKED	JEREMY BLANKENSHIP
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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.



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



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
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



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: 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:

Name: James Thomas
Position: Operations Manager

Frequently Asked Questions (FAQ)