

High Intensity LED Light - 20 Watt LED - 12-32VDC - Ultra High Output

Part #: LEDP2X10WRE

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The LEDP2X10WRE 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.

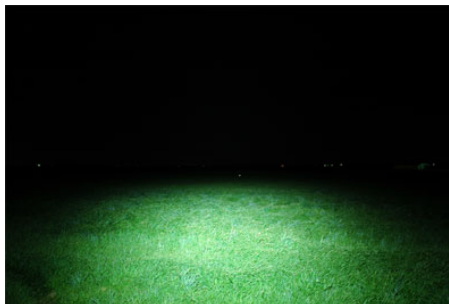
The LEDP2X10WRE LED light emitter from Larson Electronics produces 1720 lumen of bright light while drawing only 20 watts @ 1.67 amps from a 12 volt electrical system. Two CREE XLamp XM-L® 10 watt LED producing 860 lumens each are combined with a precision aluminum reflector and impact/scratch resistance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

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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.

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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 knurled 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.

Note: 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. 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.

**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

Specifications / Additional Information**LEDP2X10WRE LED Light****Lamp Type:** CREE XLamp XM-L® LED**Dimensions:** 5.83"-W 5.12"-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:** Deutsch IPD / LADD DT04-2P connector**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

Special Orders- Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671**Intl:** 1-903-498-3363**E-mail:** sales@larsonelectronics.com

CE Certified

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.

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Part #: LEDP2X10WRE (70863)

Options:

LEDP2X10WRE- HOUSING - BEAM

Example: LEDP2X10WRE-BLK-Spot

HOUSING		BEAM	
Black	-BLK	10°- Spot	-Spot
White	-WHT	20° Wide Spot	-Wide.Spot
		40° Medium Flood	-Med.Flood
		60° Flood	-Flood







Links (Click on the below items to view):

- [Dimensional Drawing](#)
- [IES](#)
- [STEP](#)
- [Hi-Res Image 1 - Profile view of the LEDP2X10WRE](#)
- [Hi-Res Image 2 - Side View of the Product](#)
- [Hi-Res Image 3 - Backside view of the Product With the Mount Facing Down](#)
- [Hi-Res Image 4 - Backside view of the Product With the Mount Facing Back](#)