

LEDP5W-11R-GRN

55 Watt High Intensity Green LED Light Bar - (11) 5-Watt LEDs - 5,808 Lumens - Extreme Durability

Product ID: 145976

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.

LEDP5W-11R-GRN Green LED Light Bar

Lamp Type: CREE XLamp XPG® LED

Dimensions: 7.13"-W 5.98"-H 3.17"-D

Watts: 55

Led Drive %: 90%

Voltage: 11-65V DC

Lighting Configuration: 10° Spot or 40° Flood

Mounting: Stud - Adjustable Trunnion Pin

Wiring: Deutsch IPD / LADD DT04-2P connector

Amps: 4.6 (on 12 volts) 2.3 (on 24 volts)

Weight: 4.52 lbs

Lumens: 5808

LED Light Color: Green

LED Life Expectancy: 50,000 hours

Optics Efficiency: 90%

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black or White

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

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 -40°C to +80°C

Pin-compatible with the HV9910B

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

Special Orders - Special Requirements

Contact us for special requirements

Toll Free: 1-800-369-6671

Intl: 1-903-270-1187

E-mail: sales@larsonelectronics.com

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 LEDP5W-11R-GRN LED Green Light Bar offers high Green light output from a compact form factor and is designed specifically for extreme durability in high stress operating conditions. This 55 watt light bar produces 5,808 lumens of green light and is designed to withstand sustained heavy vibration making it ideal for mounting on machinery or equipment and well suited for use in mining, manufacturing and industrial environments where durability is critical.

The LEDP5W-11R-GRN Green LED light bar from Larson Electronics produces 5,808 lumens of green light while drawing only 55 watts @ 4.6 amps from a 12 volt electrical system. Eleven CREE XLamp XPG® five watt LEDs producing 528 lumens each are paired with high purity 10 degree optics to produce a tightly focused spot beam. We also offer optional floodlight versions with a 40 degree beam spread to provide more light over a larger area nearer the fixture, making flood versions ideal for use as work and area lights. This LED light bar is designed to withstand extreme vibratory conditions and is waterproof to 3 meters, sealed against intrusion by dust and dirt and built to survive use in the most demanding environments.

An integral Pulse Width Modulation controller, small profile, low power requirements, extreme durability and versatile mounting system makes this LED light emitter a superior lighting solution for a wide array of applications including but not limited to: mining, military, industrial manufacturing, machine visioning, boating, vehicle and commercial equipment illumination.

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.

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.

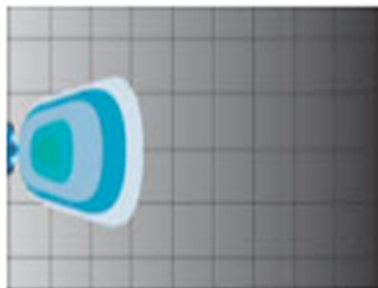
PWM Control: The pulse width modulation drivers in this unit also provide secondary benefits through the ability to tap into a provided input wire with an external pulse generator and adjust the duty cycle of the current being applied to the LEDs. Thus you can connect an external dimmer, switch or pulse control and adjust the perceived output of the light, effectively causing the light to flash, dim or brighten to the desired levels. Additionally, this method of controlling light output results in a corresponding drop in amperage draw, so if the duty cycle is cut back to 50% there will be a matching 50% reduction in amperage draw. These units are also able to monitor and adjust input current to maintain the correct LED voltage levels regardless of input levels across a specific range. These LEDP5W series light bars can operate on current ranging from 11 to 65V DC without any modifications necessary as a result. This ability to sense and adjust input current also provides protection against voltage spikes and drops that can occur in vehicle electrical systems which would otherwise result in burning up or premature LED failure without it.

Durability: As well as unparalleled heat control, the LEDP5W 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 rapid temperature changes of -40 degrees Celsius to 80 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 XPG® LEDs are rated at 70% lumen maintenance after 50,000 hours of use.

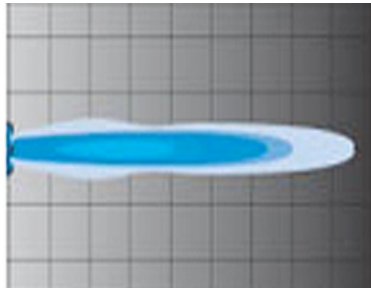
Mounting: The trunnion mounting design on the LEDP5W-11R-GRN allows for post-installation angle positioning. This means that by loosening 2 thumb bolts located on either side of the light, the operator can adjust the positioning angle of this light 270 degrees. Then he/she would simply have to tighten thumb bolts to lock the angle in place. No tools are required for adjusting angle.

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, 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.

**LEDP5W-11R-GRN 40° Flood Beam
(Opt)**



**LEDP5W-11R-GRN 10° Spot Beam
(Std)**



CONDITIONS

Vin min (V) = 9	toff (us) = 2.9
Vin nom (V) = 12	R1 (kohm) = 50.2
Vin max (V) = 50	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

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. 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.

Frequently Asked Questions (FAQ)

LEDP5W-11R-GRN

Product ID: 145976

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

LEDP5W-11R-GRN-Beam Pattern

Example: LEDP5W-11R-GRN-SP

Beam Pattern	
SPOT	-SP
FLOOD	-FL

Links (Click on the below items to view):

- [CE Certificate](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [HigResPic1](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)