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LED10W-10R-F

100 Watt LED Light - 9000 lumens - 9-48 Volts DC - Adjustable Surface Mount - Flood LED Light

Product ID: 46763

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.

LED10W-10R-F LED Light Bar
LEDs: Seoul Z-Power 10 Watt LEDs
Dimensions: 20"-L 2.75"-H 2.5"-D
Watts: 100
Voltage: 9-48 VDC
Spot Beam: 350`L x 300`W
Weight: 4.5 Lbs
Lighting Configuration: 10° Spot or 35° Flood
Mounting: Adjustable Hinge Style Brackett
Wiring: 2 pin Deutsch plug
Amps: 8.3 (on 12 volts) 4.2 (on 24 volts)
Lumens: 9,000
LED Light Color: 6300K
LED Life Expectancy: 50,000 hours
Optics Efficiency: 80%
Materials: Aluminum Housing, Polycarbonate Lens
Housing Colors: Black or White
Lux At The Lens: 199,200
Lux At 1 Meter: 7,200
CRI: 70

LED10W LED Features
Seoul Z-Power 10 Watt LEDs
LEDs Driven At 80%
-40 C~ +80C Operating Temp Range
900 Lumens per LED
70% Lumen Retention @50,000 hours
IP67 Rated Waterproof to 1 meter
CE Certified
EN55015 EMI
EN61547 EMS
EN62471 Photobiological Safety
Downlaod Spot and Flood Beam Specs

Special Orders - Special Requirements
Contact us for special requirements
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The Larson Electronics LED10W-10R-F LED Light Bar offers high light output from a light weight/low profile, durable and water tight fixture. This IP67 rated LED light bar is designed with low profile hinge mounts that allow 180 degrees of angle adjustment and produces 9,000 lumens of LED light while drawing only 8.3 amps on 12 volts. This light can run on any voltage from 9 to 48 volts and provides a durable and powerful lighting solution ideal for use in marine environments as well as industrial and commercial applications such as machine vision system lighting, security illumination and vehicle lighting.

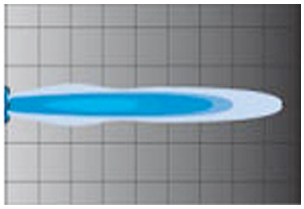
The LED10W-10R-F LED light bar from Larson Electronics produces a 9,000 lumens of bright light while drawing only 100 watts @8.3amps from a 12 volt electrical system. Ten Seoul Z-Power, 10 watt LEDs producing a maximum of 900 lumens each are arranged in rows and paired with 35 degree optics to produce a wider beam spread and more light over a larger area nearer the fixture. We also offer optional spotlight versions with 10 degree optics to produce a much longer reaching beam with more light concentrated in a tighter pattern. These LED light bars are IP67 rated and waterproof to 1 meter, sealed against intrusion by dust and dirt and constructed to withstand the demanding conditions found in marine environments.

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 Seoul Z-Power 10 watt LEDs. The end result is more light and longer LED life with higher average lumen maintenance after 50,000 hours.
Voltage Control: These units contain an internal voltage regulator which allows them to adjust input current to provide the correct LED voltage levels regardless of input levels from 9 to 50 VDC. These LED10W series light bars 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 boats and vehicles where power systems don't always operate with 12 volts and external generators, transformers or inverters are impractical.

LED10W-10R-F 35° Flood Beam (Stnd)



LED10W-10R-F 10° Spot Beam (Opt)



Durability: The LED10W series of LED light bars from Larson Electronics offer IP67 rated construction that is designed to withstand demanding marine operating conditions. These LED lights are designed for low profile mounting options, allowing them to be used in spaces where room is at a premium. They offer extruded aluminum housings and polycarbonate lenses that provide good durability yet are slimmer and lighter than extreme duty LEDLB-E series lights. These units can operate in temperatures ranging from -40 degrees Celsius to 80 degrees Celsius, are waterproof to 1 meter and are sealed against the ingress of dust, dirt and humidity. The Seoul P7 10 LEDs offer inherent LED resistance to shocks and vibrations, contributing to these unit's 8.6G rating of vibration tolerance.
Mounting: These LED light bars incorporate a hinge style mounting bracket design that provides 180 degress of adjustability and allows the operator to attach one portion of the hinge bracket to the mounting surface first. The operator can then set the desired angle and attach the upper portion of the hinge style mount

to the light. The operator then adjusts and tightens the hinge bolt to lock the light bar into position once the desired angle is set.

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.

On this particular unit there is a one foot pigtail attached to the LED light terminating in a 2 pin Deutsch plug. A wiring harness attaches to the Deutsch socket on the back of the LED light. The harness is terminated in a 2 pin Deutsch plug and includes 20 feet of cable, a relay and a toggle switch that will operate on 12 or 24 volts. The wiring harness is not necessary to installation. Operators can use existing wiring and switches, assuming they are rated for the amperage listed below.

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Frequently Asked Questions (FAQ)

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LED10W-10R-F

Product ID: 46763

Harmonized System (HS) Code: 9405.41.84.10
Export Control Classification Number (ECCN): EAR99

Options:

LED10W-10R-F-Finish-Beam Pattern

Example: LED10W-10R-F-Black-Flood

Finish	
BLACK	-Black
WHITE	-White

Beam Pattern	
FLOOD	-Flood
SPOT	-Spot

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **Operations Manual**
- **Video1**
- **Video2**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**