Larson Electronics LLC
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Product ID: 146282

Please see last page for supporting documentation for this product (certificates, CAD files & drawings, IES files, wiring diagrams, etc).



Image:

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.

ML-LEDWL-25W-RED Magnet Mount Red LED Spotlight

Lamp Type: Red LED
Dimensions: 8"-H x 3.91"-W x 3.59"-D
Weight: 2.8 lbs
Voltage: 9-60V DC
Watts: 25W
Lumens: 2,250
Luminous Efficacy: 90 Lm/W
LED Light Color: Red
LED Life Expectancy: 50,000 hours
Led Drive %: 90%
Lighting Configuration: 5° Spot Beam
Amps: 2.09 @ 12V DC - 1.05 @ 24V DC
Ambient Operating Temp Range: -40°C to +80°C
Waterproof Rating: IP67
Vibration Resistance: 15.6Grms
Housing Material: Die Cast Aluminum
Housing Color: Black
Wiring Options: 16` Cigarette Coil, 16` Cigarette, 21` Ring Terminals, 16` Battery Clamps, 16` Flying Leads
Lens Material: Polycarbonate
Optics: PMMA
Mounting: 100 lb Magnet Mount Base

Ratings/Approvals

IP67 Waterproof to 1 Meter
Impact/Vibration Resistance
Shatterproof Lens
Ambient Op Temp -40°C to +85°C
Available with Choice of Cord and Plug
Ideal for Hunting and Outdoor Applications
Extremely Durable and Versatile
100 lb Magnet Mount Base

Special Orders - Special Requirements

Contact us for special requirements

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The ML-LEDWL-25W-RED from Larson Electronics is an LED Spotlight with Magnet Mount that produces 2250 lumens of high intensity red LED light while drawing only 25 watts and offering operators a verstaile and flexible lighting solution for a wide variety of tasks. This LED spotlight operates on 12-24V which allows it to work with standard vehicles, ATVs, UTVs, military vehicles, farming equipment, and heavy machinery.

The ML-LEDWL-25W-RED is an ideal spotlight for a variety of different tasks and applications that features a 25 watt LED light head and pivoting mount with 100lb grip magnet. Five 5-watt red LED producing 450 lumens each are combined with high purity optics to produce a narrow 5° spread spot beam, providing a high intensity center beam which is visible during daytime and nighttime operations. This particular unit is compact at 8" tall by 3.91" wide by 3.36" deep, which makes it ideal for applications where mounting space is at a premium.

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.

This LED work light is built for durability and comfort with an impact resistant housing, a magnet mounting system and a light head that can be fully adjusted to suit any mounting location or required lighting angle. The 3.91" wide by 2.36" deep inch diameter light head and lens assembly is protected by a polycarbonate lens that make these LED hunting spotlights waterproof to 1 meter and resist ingress of dust, dirt and humidity.

The ML-LEDWL-25W-RED is UV resistant, weatherproof, and ruggedly constructed to withstand

demanding environments, conditions and applications. This particular unit is equipped with a 3.25 inch diameter, 100lb grip magnetic base. The 100 pound grip magnet base holds the light in place on protective barriers and gun turrets on the military HUMVEE, even under the most aggressive road and off-road conditions. The heavy gauge steel handle bracket supports the hinged lamp head and solid polypropylene handle. Easily field serviceable.

This LED spotlight is built for durability and comfort with an impact resistant housing and a light head that can be adjusted horizontally and vertically. The 3.91" wide by 2.36" deep inch diameter light head and lens assembly is protected by a polycarbonate lens that make these LED hunting spotlights waterproof to 1 meter and resist ingress of dust, dirt and humidity.

This LED spotlight light operates on a range from 12V to 24V DC, including commonly found 12V, 18V, 24V, 36V, and 48V DC for use with standard vehicles, ATVs, UTVs, military vehicles, farming equipment, heavy machinery, offshore equipment, and marine vessels. This spotlight is ideal for hunters, sportsmen, outdoor operators and anyone who needs a portable yet powerful and rugged source of illumination.

Durability: The ML-LEDWL-25W-RED series handheld LED hunting lights from Larson Electronics offer IP67 rated construction that is designed to withstand the rigors of demanding of environmental and operating conditions yet are lighter and smaller than other hunting spotlights on the market. This series is designed to provide a low profile, light weight, high performance spotlight. These units can operate in temperatures of -40° Celsius to 80° Celsius, are waterproof to 1 meter and resist ingress of dust, dirt and humidity. The housings are formed from extruded aluminum and the lenses are unbreakable polycarbonate. The LEDs offer inherent LED resistance to shocks and vibrations contributing to these units 15.6Grms rating of vibration tolerance.



16ft Coil Cord w/Cigarette Plug



21ft Cord with Ring Terminals



16ft Cord w/Battery Clamps



16ft Cord with Cigarette Plug

Click Images to Enlarge

Wiring/Plug: Each light comes with a detachable 16 foot coil cord with cigarette plug. The cord is detached via a weatherproof, 2 pin Deutsch connector which easily and securely attaches and detaches the coil cord from the spotlight. Other cords, including 21 foot cords with ring terminals (C-21RT), 16 foot cord with spring battery clamps (alligator clips) (C-16BC) and a 16 foot straight cord with cigarette plug (C-16CP) are available. This light operates on 12-24V in one unit allowing it to be used with standard vehicles, ATVs, UTVs, military vehicles, farming equipment, and heavy machinery equipped with a cigarette plug.

Versatility: The entire unit weighs only 2.8 lbs. The light head is mounted to the handle with an adjustable hinge that allows the head to be adjusted horizontally and vertically. This unit is ideal for hunting and other outdoor operations as well as any application that requires an extremely durable and effective source of portable illumination. The ML-LEDWL-25W-RED is also an ideal spotlight for dusty areas or environments with a high dust content. Red light is able to pierce dust better than

other light colors and provides higher visibility where other light sources would provide little to no visibility under those conditions.

High Quality Features	Superior LED Benefits
	1. 50,000+ hour lifespan.
	2. Can SAVE 50% or more on energy.
	3. Qualifies retrofit projects for financial incentives, including utility rebates, tax credits and energy loan programs.
1. Low power consumption.	4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
2. Instant on/off operation.	5. 100% recyclable.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.	6. No toxins-lead, mercury.
4. Superior color rendering compared to HPS, LPS, MH.	7. No UV light, infrared radiation or CO2 emissions.
5. Retains 70% lumen output after 50,000 operating hours.	8. Qualifies buildings for LED and other sustainable business certifications.
6. Powder coated aluminum fixture body.	9. Bright, even light maintains consistent color over time.
7. 100 lbs magnet mount base included	10. Instant on/off - No flickering, delays or buzzing.
8. Low profile - Light weight	11. Very good color rendering.
9. 2,250 Lumen output from 25 watts	12. Vibration/impact resistant.
	13. Significantly cooler operation.
	14. Less frequent outages, higher output improves workplace safety.

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.

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Frequently Asked Questions (FAQ)

There are no Faqs

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Product ID: 146282

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

Options:

-Cord Cap
Example: -16CP.CC

Cord Cap	
16 CIG COIL	-16CP.CC
16 CIG	-16.CP
21 RING TERMS	-21RT
16 BATT CLAMPS	-21BC
16 FLYING LEADS	-16PIGTAIL

Links (Click on the below items to view):

- **Operations Manual**(https://www.larsonelectronics.com//images/product/Manual/146282.PDF)
- **Wiring Diagram**(https://www.larsonelectronics.com//images/product/WiringDiagram/146282.PDF)
- **HigResPic1**(https://www.larsonelectronics.com//images/product/HigResPic1/146282.JPG)
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