

HML-LED65WRE

Hand Magnetic LED Spotlight - Adjustable Tilting Base - 65 Watts - 3000' Spot Beam

Product ID: 223437

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.

HML-LED65WRE LED Spotlight

Lamp Type: CREE LED

Dimensions: Light - 11.82" H x 6.2" OD/ Handle - 4.5" L

Watts: 65

Led Drive %: 90%

Voltage: 12-32 V DC

Spot Beam: 3000` L

Lighting Configuration: 10° Spot, 60° Flood

Wiring: Multiple Options, See drop down menu

Amps: 5.42 @ 12V DC - 2.71 @ 24V DC

Lumens: 4355

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

Short Protection w/ Skip Mode

Ambient Op Temp -40C to +85C

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

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 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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The HML-LED65WRE LED Handheld Spotlight is ideal for use in marine environments, industrial and commercial applications, heavy equipment illumination, vehicle lighting and law enforcement. This ultra compact LED light produces a 4,355 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. This spotlight offers high light output in a compact profile combined with a durable handle and a 100 pound grip magnetic base.

The HML-LED65WRE LED handheld spotlight from Larson Electronics produces 4,355 lumens of bright light while drawing less than 5.42 amps from a 12 volt electrical system. A single CREE 65 watt LED producing 4,355 lumens is combined with a high output reflector to produce a narrow 10° spread spot beam approximately 3000' long. This particular unit is ultra compact at 6.7" OD, which makes it ideal for applications where electrical power and mounting space is at a premium.

The LED WRE 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. The versatile mounting and high output adjustable light head make this spotlight ideal for hunting and off-road applications.



This photo shows an open parking lot lit only by ambient light at approximately 9:00 pm`.

[Click Photo to Enlarge](#)



This photo shows the LED25WRE in spot configuration. The building in the distance is 300` away, well illuminated by the LED spotlight.

[Click Photo to Enlarge](#)

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. The end result is more light with less heat and longer LED life with an average 70% lumen maintenance after 50,000 hours.

Voltage: 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 LED WRE series LED lights can operate on current ranging from 12 to 32V 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 LED 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° Celsius to 85° 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 LEDs offer resistance to shocks and vibrations and are rated at 70% lumen maintenance after 50,000 hours of use.

Mounting: This light is mounted to a 3.25 inch diameter magnetic base with 100lbs of grip and an impact resistant plastic handle for simple placement on any ferrous metallic surface and easy operation. The stainless steel hinge assembly on this unit allows the light angle to be adjusted for optimal light control. The adjusting hinges on this light are tensioned, allowing the user to simply position the light as desired without any need for locking the unit into place. Once positioned, the light will hold its position until the user again repositions it.

Power: The HML-LED65WRE spotlight offers several detachable cord options for low voltage operation, including a 16 foot straight cord with cigarette plug, 21 foot straight cord with battery clamps, 21 foot straight cord with battery ring terminals and 16 foot coil cord with cigarette plug.



[Click Photo to Enlarge](#)

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

Frequently Asked Questions (FAQ)

HML-LED65WRE

Product ID: 223437

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HML-LED65WRE-Cord

Example: HML-LED65WRE-16CP

Cord	
COIL CORD	-16CP
STRAIGHT CORD	-16SC
BATTERY CLAMP	-21BC
RING TERMINALS	-21RT

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](#)