

HUL-LED25WRE

25 Watt High Intensity Handheld Spotlight - 12-32V DC - 1000 Foot Spot Beam - 4.5" OD Light Head

Product ID: 71019

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.

HUL-LED25WRE Spotlight

Lamp Type: CREE LED

Dimensions: 5.75" x 4.36"

Weight: 1.2 Lbs

Voltage: 12-24 V DC

Watts: 25 Watts

Amps: 2.08 @ 12V DC - 1.04 @ 24V DC

Total Lumens: 2,750

Light Color: 6000K

Beam: 850-L x 50-W

Lighting Configuration: 10° Spot, 60° Flood

Ambient Operating Temp: -40°C to 105°C

IP Rating: IP67 Waterproof

Vibration Tolerance: 8.6G RMS

Materials: Aluminum Housing, Polycarbonate Lens

Housing Colors: Black

Mounting: Handheld Portable

Wiring: 16ft Coil Cord w/Cigarette Plug, 21ft Cord with Ring Terminals, 16ft Cord w/Battery Clamps, 16ft Cord with Cigarette Plug

Special Orders - Special Requirements

Contact us for special requirements

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E-mail: sales@larsonelectronics.com

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The HUL-LED25WRE LED Handheld Spotlight 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 2750 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 HUL-LED25WRE LED spotlight from Larson Electronics produces 2750 lumen of bright light while drawing less than 2.25 amps from a 12 volt electrical system. A single CREE 25 watt LED producing 2750 lumen is combined with a high output reflector to produce a narrow 10 degree spread spot beam approximately 1000' long. This particular unit is ultra compact at 4.5" OD lamp head.

This spotlight is built for durability and comfort with an impact resistant housing, an ergonomically designed 5 inch tall polycarbonate handle that matches the contours of your hand, and a light head that can be adjusted vertically. The 5.5 inch diameter lamp and reflector assembly is protected by a polycarbonate lens that is sealed against water and dust to provide an IP68 rating and weatherproof protection.

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 low profile design, 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 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. 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.

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



16ft Coil Cord w/Cigarette Plug
Click Images to Enlarge



21ft Cord with Ring Terminals



16ft Cord w/Battery Clamps



16ft Cord with Cigarette Plug

Each HUL-LED25WRE Handheld Spotlight 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 can be ordered in either 12 volt or 24 volt configuration, allowing it to be used with any vehicle or ATV equipped with a cigarette plug. Choose voltage below when ordering.

Power: This durable and weatherproof spotlight is ruggedly designed to withstand heavy duty use and includes a 16 foot coil cord and cigarette plug adapter to allow connection to any vehicle or ATV equipped with a 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 clamps) (C-16BC) and a 16 foot straight cord with cigarette plug (C-16CP) are available.



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	lpk (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

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Frequently Asked Questions (FAQ)









HUL-LED25WRE

Product ID: 71019

Warranty: 36 Months

Harmonized System (HS) Code: 9405.41.84.10

Export Control Classification Number (ECCN): EAR99

Options:

HUL-LED25WRE-Cord

Example: HUL-LED25WRE-16CP.CC

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

Links (Click on the below items to view):

- [CE Certificate](#)
- [MSDS \(Material Safety Data Sheet\)](#)
- [RoHS Certificate \(Restriction of Hazardous Substances\)](#)
- [Spectrum Curve \(Wavelength Graph\)](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [Video1](#)
- [Video2](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)