Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

HL-85-LED-27W-CPR-12.3-50GCR-24I

27W Handheld LED Spotlight w/ 50' 12/3 SOOW Cord Reel & Inline Transformer - 100-277VAC to 24VDC

Product ID: 147607



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.

HL-85-LED-27W-CPR-12.3-50GCR-24I LED Spotlight w/ Cord Reel
Lamp Type: Cree LED
Dimensions: Light: 7.95"L x 2.75"W x 8.37"D Transformer: 8.7"L x 2.5"W x 1.5"D
Weight: 35 lbs
Voltage: 100-277V AC to 24V DC
Watts: 27W
Lumens: 2,000
Luminous Efficacy: 74 Lm/W
LED Light Color: White
LED Life Expectancy: 50,000 hours
Candlepower: 5 Million
Amps: 6.25A @ 24V DC
Waterproof Rating: IP67
Transformer Operating Temperature: -30°C to +70°C
Transformer Efficiency: 92%
Transformer Protection: Short Circuit/Overload/ Over Voltage
Wiring: 50` 12/3 SOOW
Cord Cap Options: 5-15 Straight, 6-15 Straight, L5-15 Twist, L6-15 Twist, UK BS1363, Intl. Schuko, Pigtail
Cord Reel Material: Steel
Spotlight Housing Material: ABS Polymer & Aluminum Alloy
Housing Color: Black
Lens Material: Polycarbonate
DC Output Connector: 1` Pigtail, 2 Pin Deutsch Connector
Mounting: Surface Mounting for Cord Reel & Transformer, Handheld Light

Ratings/Approvals
IP67 Waterproof to 1 Meter
Impact/Vibration Resistance
Shatterproof Lens
45` 12/3 SOOW Cord Reel
Inline Transformer Converts 100-277V AC to 24V DC

Special Orders - Special Requirements
Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187
Fax: 1-903-498-3364
E-mail: sales@larsonelectronics.com

The HL-85-LED-27W-CPR-12.3-50GCR-24I from Larson Electronics is a Handheld LED Spotlight w/ 50` Cord Reel that uses nine high output 3W

Cree LEDs and an advanced reflector and 4.75" lens configuration to generate 2,000 lumens with a beam reach of over 1,600 feet while drawing only 27 watts of power. The cord reel contains 45 feet of 12/3 SJEOOW cable to provide plenty of reach around the work area or job site. An inline transformer takes input current ranging from 100 to 277 VAC and will output 24 Volt DC current at 6.25 amps in order to operate the spotlight.

The HL-85-LED-27W-CPR-12.3-50GCR-24I offers operators a versatile and powerful handheld lighting solution for a wide variety of different locations including warehouses, garages, shops, farm buildings and storage facilities just to name a few. The spotlight and transformer on this unit both feature an IP67 waterproof rating which allow this LED spotlight with cord reel to be used in areas where moisture or water may be present as well as in both indoor and rough outdoor conditions.

Spotlight Features: The spotlight on the HL-85-LED-27W-CPR-12.3-50GCR-24I is a super bright handheld spotlight that delivers an impressive 2,000 lumens while drawing only 27 watts of energy. With a combination of nine high output Cree LEDs and a uniquely designed reflector, this spotlight cuts through the darkness with a beam length of over 1,600 feet. The Cree LED units in this light have been chosen for their high lumen per watt ratio and extreme longevity. These Cree LEDs generate 74 lumens per watt effective lumen output and have a 70% lumen retention at 50,000 hours, giving them better efficiency and operational life than traditional light sources. The unique shape and shallow contour of the reflector is paired with a 4.75" convex lens and inset lens position to efficiently capture and project a focused beam of light while reducing the light spillage and waste that is common with many spotlights. This efficient design also reduces casting, a phenomenon that occurs when wasted light "spills" around the light source. Often times, when surrounded by water, snow or other reflective surfaces, this light spillage prevents the human eye from adjusting properly and seeing objects at distance. With the HL-85-LED-27W-CPR-12.3-50GCR-24I spotlight configuration, 90% of the emitted light is captured and focused, clearly and sharply illuminating objects all the way to the end of the beam reach.

This IP67 rated waterproof spotlight features an ultra-durable ABS shockproof polymer body, an aluminum alloy light head housing, and an impact resistant polycarbonate lens. While the HL-85-LED-27W-CPR-12.3-50GCR-24I is built to withstand rugged use and harsh outdoor conditions, comfort and ease of operation haven`t been sacrificed. This unit is ergonomically designed for balanced and comfortable handling. The 4.5"L x 1.5"D and 5/8 inch thick nylon handle has a no-slip textured surface that ensures a firm grip even in wet conditions. The booted push button is conveniently placed to allow operators easy forefinger access to the switch for quick on/off action.

Cree Specific: This lamp uses Cree LED units that have been chosen for their high lumen per watt ratio and extreme longevity. These Cree LEDs generate a robust 74 lumens per watt effective lumen output and have a 70% lumen retention at 50,000 hours, giving them better efficiency and operational life than traditional light sources. The Cree LED units in this light have been chosen for their high lumen per watt ratio and extreme longevity. These Cree LEDs generate 74 lumens per watt effective lumen output and have a 70% lumen retention at 50,000 hours, giving them better efficiency and operational life than traditional light sources.

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.
Transformer: The HL-85-LED-27W-CPR-12.3-50GCR-24I features an inline transformer that takes input current ranging from 100-277V AC and converts it into 24V DC to operate the spotlight. The transformer is connected to the cord reel via a one foot whip and Deutsch connector. The other side of the transformer is equipped with a second 1` whip that is terminated in a choice of general area cord caps. Integrally designed protection includes overload, short circuit and over voltage safeguards to prevent overheating and unit damage in case of faults or overly heavy current draw. This unit will shut down when an over current or over voltage condition is encountered and recovers when manually turned back on. The HL-85-LED-27W-CPR-12.3-50GCR-24I transformer has a -30°C to +70°C operating temperature range and is UL UL1012 and UL60950-1 compliant as well as compliant with worldwide safety regulations for lighting. This unit has a 92% conversion efficiency and is suitable for use with moving LED signs and similar LED equipment. This transformer is rated IP67 waterproof which makes it suitable for both indoor and outdoor use.

Click Photos to Enlarge



5-15 Straight Blade Plug
15 Amp / 125V Rated



L5-15 Twist Lock Plug
15 Amp / 125V Rated



L6-15 Twist Lock Plug
15 Amp / 250V Rated



UK BS1363 Straight Blade Plug
13 Amp / 250V Rated / Internal Fuse



Intl Schuko 2-Pin Plug
16 Amp / 250V Rated / Grounded



Flying Leads / Pigtail Wires

Wiring/Plug: This general use handheld LED spotlight with cord reel fixture is equipped with 50 feet of 12/3 chemical and abrasion resistant SOOW cord that is connected to the inline transformer via a Deutsch connector. The opposite side of the transformer is equipped with a 1` whip that is fitted with an industrial grade cord cap for easy connection to common wall outlets. Plug options include standard 5-15 15 amp straight blade plug for 110V wall outlets with ground, standard 6-15 15 amp straight blade plug for 220-240V wall outlets with ground, NEMA L5-15 15 amp twist lock plug for 125V twist lock outlets, NEMA L6-15 15 amp twist lock plug for 240V twist lock outlets, British BS1363 13 amp fused 3-blade plug for United Kingdom outlets, or a two pin 16 amp rated Schuko plug with ground contact and socket for European outlets up to 250V. Alternatively, we can provide flying leads with no plug for hard wire applications or for operators who prefer to wire in user provided cord caps. Please choose pigtail option below for flying leads with no plug.
Cord Reel Features: The cord reel on the HL-85-LED-27W-CPR-12.3-50GCR-24I provides a 45 foot long 12/3 cord for long range and convenient operation. The cord reel is designed for a lift/drag of up to 45FT of 12AWG/3C SJEOOW round

cable. Reel with cable installed/tested comes with 45FT active travel. This reel is UL Listed (UL/cUL), and is constructed of durable steel, has a red powder coat finish and includes a ball stop and a ratchet with a lockout feature.
Durability: The HL-85-LED-27W-CPR-12.3-50GCR-24I from Larson Electronics is built to last and designed with durability and ruggedness in mind. The cord reel is powder coated for corrosion resistance and long-lasting durability while the spotlight is capable of operating in rough and abusive conditions. The HL-85-LED-27W-CPR-12.3-50GCR-24I is rated IP67 waterproof and is suitable for both indoor and outdoor applications. This handheld LED spotlight with 100` cord reel and inline transformer will stand up to long term use in very rough conditions while continuing to operate at maximum levels for an extended length of time.
Suggested Applications: The HL-85-LED-27W-CPR-12.3-50GCR-24I is ideal for work area and job site lighting in locations such as warehouses, storage facilities, garages, farm buildings, workshops and and other indoor or outdoor location that requires a handheld source of high-intensity LED light powered from standard power outlets.
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.

High Quality Features

1. Low power consumption.
2. Instant on/off operation.
3. Fixture constructed of extruded corrosion resistant copper free aluminum alloy.
4. Superior color rendering compared to HPS, LPS, MH.
5. Retains 70% lumen output after 50,000 operating hours.
6. Powder coated aluminum fixture body.
7. Surface mount cord reel & handheld spotlight.
8. Low profile - Light weight
9. 2,000 Lumen output from 27 watts

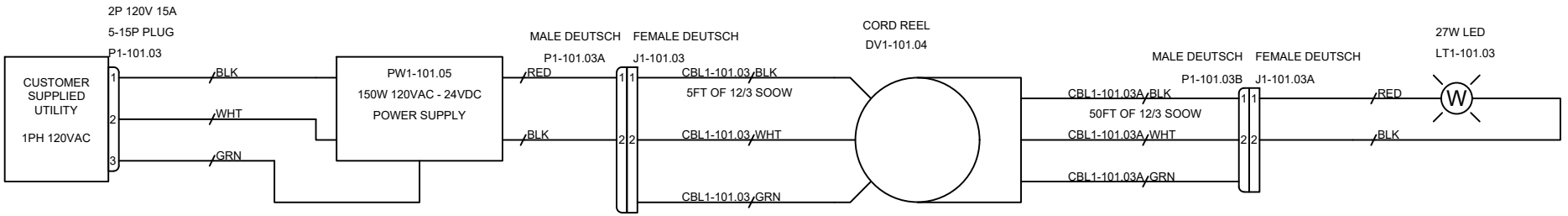
Superior LED Benefits

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.
4. Reduces energy use and prolongs life-spans of peripheral cooling units (A/C, refrigeration)
5. 100% recyclable.
6. No toxins-lead, mercury.
7. No UV light, infrared radiation or CO2 emissions.
8. Qualifies buildings for LED and other sustainable business certifications.
9. Bright, even light maintains consistent color over time.
10. Instant on/off - No flickering, delays or buzzing.
11. Very good color rendering.
12. Vibration/impact resistant.
13. Significantly cooler operation.
14. Less frequent outages, higher output improves workplace safety.

REV	DESCRIPTION	DATE
A	PRODUCTION RELEASE	09-10-2024

HL-85-LED-27W-CPR-12.3-50GCR -24I -5.15

LARSON ELECTRONICS®



TAGS	QTY	CATALOG	DESCRIPTION
P1-101.03	1	UNV00006731	PLUG , STRAIGHT BLADE 15A, 125V NEMA 5-15P
J1-101.03 J1-101.03A	2	UNV00005484	RECEPTACLE, DTP, 2-WAY, GRAY LARGE FEMALE DEUTSCH
P1-101.03A P1-101.03B	2	UNV00005486	PLUG, DTP, 2-WAY, GRAY, LARGE MALE DEUTSCH
DV1-101.04	1	UNV00006699	CORD REEL - INCLUDES 50FT OF 12/3 SJEOOW CABLE
LT1-101.03	1	UNV00005031	27W LIGHTWEIGHT CREE HANDHELD SEARCHLIGHT
PW1-101.05	1	UNV00005978	90-305VAC -24V DC 150W POWER SUPPLY
CBL1-101.03 CBL1-101.03A	2	UNV00002908	12/3 SOOW CABLE

LARSON ELECTRONICS
9419 E US HWY 175,
KEMP, TX 75143

TITLE: HL-85-LED-27W-CPR-12.3-50GCR -24I -5.15

DRAWN BY	DATE	REV
J.Maldonado	09-10-2024	A
CHECKED BY	SHEET #	DRAWING #
	1 OF 1	101

Frequently Asked Questions (FAQ)