

EXP-LED-HL-LPDF

Intrinsically Safe LED Headlamp - Five Modes, Low Profile - C1D1 Headlight - Spot/Flood Beam

Product ID: 149284

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.

EXP-LED-HL-LPDF Low Profile LED Headlamp

Listing: United States - Canada

Lamp Type: CREE LED

Dimensions: 3.54"-L 1.58"-W 1.875"-D

Weight: 5.8 oz

Power: (3) AAA Alkaline Batteries

High Spotlight Lumens: 180

Low Spotlight Lumens: 100

High Floodlight Lumens: 180

Low Floodlight Lumens: 100

Dual-Light Lumens: 200

Candela: 2,800

Lamp Life: 50,000+ Hours

High Spotlight Runtime: 3.5 Hours

Low Spotlight Runtime: 10 Hours

High Floodlight Runtime: 3.5 Hours

Low Floodlight Runtime: 10 Hours

Dual-Light Runtime: 3 Hours

Waterproof: Yes- Rated to 1 Meter

Waterproof Rating: IP67

Drop Rating: 2 Meters

Switch Functions: Dual Switches - High/Low Spotlight, High/Low Floodlight,

High/Low Spotlight and Floodlight Combo

Case Material: Glass-filled Nylon Polymer

Mounting: Heavy-duty Rubber Head Strap

Available Colors: Green

Ratings/Approvals

Class I, Division 1 Groups A,B,C,D

Class II, III Groups E,F,G

Class I Zone 0 IIC T4

Class I Zone 20 IIIC T135°C

Ex II 1 G Ex ia IIC T4 Ga

Ex ia IIC T4 Ga

DEMKO 17 ATEX 1824

IECEx UL 17.0003

Special Orders - Special Requirements

Contact us for special requirements

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Made in the USA

The Larson Electronics EXP-LED-HL-LPDF Intrinsically Safe LED Headlight is ideal for a wide variety of uses including Industrial Safety, Public Works & Utilities, Law Enforcement, Hardware/Tool, Automotive, Marine, Sporting Goods and Consumer applications. Two high intensity CREE LED emitters mounted within a lightweight housing provides up to 10 hours of useable light and can be attached to a hard hat with the included rubber head strap. This low profile LED headlamp provides high output illumination in a hands-free configuration for maximum safety.

*****Note: Hard hat shown not included.*****

The EXP-LED-HL-LPDF intrinsically safe LED headlight produces an intense light beam while providing up to 10 hours of illumination. Two high intensity CREE LEDs mounted within an impact resistant housing is powered by 3 AAA batteries to produce a long lived light beam of up to 180 lumens in output. Included with this explosion proof headlight is a heavy-duty rubber strap for ease of operation when mounting on hard hats. When worn on hard hats, a special, low profile design allows operators to raise or lower their face shield without obstructing the portable fixture.

Featuring a housing constructed of glass-filled nylon polymer that has been drop test verified from 2 meters and an IP67 waterproof rating tested at 1 meter, this headlight provides users with a highly convenient and safe light source that leaves their hands free for work operations. This headlight features two high output CREE LED emitters for up to five modes of illumination. The adjustable rubber straps allow this unit to be mounted to hard hats without slipping, and will fit all head sizes.

Two rubber dome push button switches allows easy operation between modes even when wearing gloves. The right push button operates the spotlight, whereas the left switches between high/low spotlight, high/low floodlight and high/low for spot and flood combined. The full power spotlight produces 180 lumens and a beam reaching over 347 feet in distance with a 3.5-hour runtime. The half power spotlight produces 100 lumens with a 10-hour runtime. The full power floodlight produces 180 lumens with a 3.5-hour runtime. The half power floodlight produces 100 lumens with a 10-hour runtime. The spot and flood combined produces 200 lumens with a 3-hour runtime.

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.

Mounting: The EXP-LED-HL-LPDF mounts onto hard hats and other preferred surfaces using a heavy-duty rubber head strap. The strap is adjustable, offering support for a wide range of hard hat types and sizes.

Applications: Inspections, hazardous locations, flammable work sites, oil and gas, chemical processing, repair, maintenance, confined spaces, detailed tasks, portable lighting, monitoring and more.

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.



Frequently Asked Questions (FAQ)









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

Links (Click on the below items to view):

- [Operations Manual](#)
- [SpecSheetSpanish](#)
- [HigResPic1](#)
- [HigResPic2](#)
- [HigResPic3](#)
- [HigResPic4](#)
- [HigResPic5](#)
- [HigResPic6](#)
- [HigResPic7](#)
- [HigResPic8](#)
- [HigResPic9](#)
- [HigResPic10](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)