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EPLX-HB-120W-RD3-LED-TRC

120 Watt Explosion Proof High Bay AC LED Light Fixture - C1D2 - C2D2 - ATEX / IECEx - IP68

Product ID: 144583

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.

EPLX-HB-120W-RD3-LED-TRC Explosion Proof High Bay AC LED

Lamp Type: AC LED
Listing: United States, Canada, Europe, Asia
Dimensions: 9.59"H x 10.94"OD
Weight: 24.25 lb
Voltage: 120V AC, 208V AC, 220V AC, 240V AC, 277V AC
Total Watts: 120W
Lumens: 12,600 (5000K) or 11,400 (3000K)
Luminous Efficacy: 122.5 Lm/W (5000K) or 110.8 Lm/W (3000K)
Lamp Life: 60,000+ Hours
Color Temp: 5000K Warm White, 3000K Cool White
Color Rendering Index: >70 CRI
Beam Angle: 110°
Lighting Configuration: Flood Beam
Power Efficiency: >85%
Power Factor: 0.9
Amperage: 1A @ 120V, .57A @ 208V, .54 @ 220V, .91 @ 240V, .43 @ 277V
Ambient Operating Temp Range: -60°C to +100°C
Operating Temp Rating: -60°C to +100°C
Housing Material: Aluminum Alloy
Lens Material: Tempered Glass
Mounting: Pendant
Wiring: 10` 16/3 SOOW Cord
Wiring Hub: 3/4" NPT

Ratings/Approvals

Class I, Division 2 Groups A, B, C, D
Class II, Divisions 2 Groups F, G
IEC Ex d IIB+H2 T6..T4 Gb
IEC Ex tb IIIC T105°C Db
ATEX II 2G Ex d IIB+H2 T6...T4 Gb
ATEX II 2D Ex tb IIIC T105° Db
IP68 Waterproof
NEMA 6/6P
Certified to UL 844
Certified to UL 1598
Certified to IEC 60079-0: 2011
Certified to IEC 60079-1: 2007-04
Certified to IEC 60079-31: 2008
Certified to EN 60079-0: 2012
Certified to IEC 60079-1: 2007
Certified to IEC 60079-31: 2009
Factory Sealed Light Fixture
Compatible With Lutron C.L. Series Dimmers
ABS Type Approval

Special Orders - Special Requirements

Contact us for special requirements
Toll Free: 1-800-369-6671
Intl: 1-903-270-1187

The EPLX-HB-120W-RD3-LED-TRC from Larson Electronics is an Explosion Proof High Bay Dimmable LED Light Fixture that is a compact powerhouse ruggedly built to withstand demanding conditions. The EPLX-HB-120W-RD3-LED-TRC features state-of-the-art AC LEDs paired with specially designed heat sinks for improved efficiency, thermal management, and durability. Available in 5000K warm white and 3000K cool white options, this sleek and modern fixture delivers brilliant illumination and maximum efficiency. In addition to IP68 rated construction, the corrosion and weather resistant housing features a special coating that rejects dust collection and buildup, making this AC LED high bay fixture especially suitable for oil refineries, petrochemical plants, offshore rigs, painting facilities, and the transportation of natural gas and liquefied petroleum gas.

Light Features: With a compact pendant mounted design and sleek body, the EPLX-HB-120W-RD3-LED-TRC provides brilliant illumination and robust performance in an aesthetically appealing package. Available in 5000K warm white and 3000K cool white options, the 110° flood beam provides crisp, clean illumination while taking up minimal space, with a diameter of just 9.59" and an installed height of 10.94".

IP68 rated construction means the EPLX-HB-120W-RD3-LED-TRC high bay fixture is tough enough to withstand the corrosive effects of harsh outdoor conditions, including sun, wind, rain, sleet, snow, and saltwater spray. Completely protected against the ingress of dust, dirt, and humidity as well as withstand the corrosive effects of saltwater spray and harsh outdoor conditions. Housed within a corrosion resistant aluminum alloy body and protected by a tempered glass lens, the EPLX-HB-120W-RD3-LED-TRC features the added bonus of a dust and buildup rejecting exterior coating.

The EPLX-HB-120W-RD3-LED-TRC utilizes AC LEDs paired with a heavy-duty housing and an advanced heat sink that allows for improved efficiency and thermal performance. By eliminating the drivers associated with DC LEDs, space is freed up for more connective surface, accelerating heat dissipation and increasing durability. The specially designed heat sink allows for greater surface area contact with the air as well as a stronger airflow rate. Because this fixture is created for maximum thermal efficiency, it is ideal for applications in which the ambient operating temperature falls into extreme ranges, especially high heat applications. Furthermore, fewer sub-components also means fewer chances for secondary component failure. The simplified circuit system used within AC LEDs creates greater stability and enhances luminaire lifespan.

The EPLX-HB-120W-RD3-LED-TRC is listed for use in the United States and Canada and carries IECEx and ATEX certifications.

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.

Dimming: The EPLX-HB-140W-RD3-LED-TRC can be wired with a dimmer switch for dimming capabilities. This gives operators the ability to manually adjust the

brightness of the LED lamp quickly and easily. When using an electronic dimmer switche, the EPLX-HB-140W-RD3-LED-TRC will dim from 0% up to 100% via the user provided dimming switch. This explosion proof LED light fixture is compatible with Lutron C.L. series dimmer switches. Compatible dimmers in that series include the following: Diva® C•L® dimmer, Ariadni®/Toggler® C•L® dimmer, Luméa® C•L® dimmer, Maestro® C•L® dimmer and Skylark® C•L® Dimmer.

PLEASE NOTE THAT ANY DIMMER INSTALLED ON THIS FIXTURE MUST BE LOCATED OUTSIDE OF THE HAZARDOUS AREA

Mounting: The EPLX-HB-120W-RD3-LED-TRC high bay fixture is designed to be pendant mounted via a 3/4" hub on the back side of the fixture. Operators bring rigid conduit down to the mounting hub. Wiring is fed through the conduit and and tied in to the fixture`s lead wires, completing the electrical connection.

Power/Wiring/Plug: The EPLX-HB-120W-RD3-LED-TRC is available in the following voltages: 120V AC, 208V AC, 220V AC, 240V AC, and 277V AC.

Suggested Applications: Oil refineries, petrochemical plants, offshore rigs, painting facilities, and the transportation of natural gas and liquefied petroleum gas.

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)









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EPLX-HB-120W-RD3-LED-TRC
Product ID: 144583

Warranty: 60 Months.

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

Options:
EPLX-HB-120W-RD3-LED-TRC-Voltage-Color Temp
Example: EPLX-HB-120W-RD3-LED-TRC-120V-30K

Voltage	
120V	-120V
208V	-208V
220V	-220V
240V	-240V
277V	-277V

Color Temp	
5000K	-30K
3000K	-50K

Links (Click on the below items to view):

- Dimensional Drawing 2D
- Operations Manual
- STEP File (3D CAD Model)
- HigResPic1
- HigResPic2
- HigResPic3
- HigResPic4
- HigResPic5
- HigResPic6
- HigResPic7
- HigResPic8
- HigResPic9
- HigResPic10
- Video1
- ISO 9001 Certification
- Business Certificate
- Shipping Time Map