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EPLX-HB-80W-RD2-LED-TRC-CM

80W Explosion Proof AC LED Fixture - C1D1 - C2D1 - Group B + ATEX/IECEX - IP68 - Ceiling Mount

Product ID: 148070

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-80W-RD2-LED-TRC-CM Explosion Proof Ceiling Mount AC LED

Certified to IEC 60079 & EN 60079

Lamp Type: AC LED
Listing: United States, Canada, Europe
Dimensions: 4.24"H x 9.21"OD
Weight: 12.5 lbs
Voltage: 120V AC, 208V AC, 220V AC, 240V AC, 277V AC
Total Watts: 80W
Lumens: 8,400 (5000K) or 7,600 (3000K)
Luminous Efficacy: 105 Lm/W (5000K)or 95 Lm/W (3000K)
Lamp Life: 60,000+ Hours
Color Temp: 5000K Cool White, 3000K Warm White
Color Rendering Index: >70 CRI
Beam Angle: 110°
Lighting Configuration: Wide Flood Beam
Power Efficiency: >85%
Power Factor:>0.9
Amperage: 0.66A @ 120V AC, 0.38A @ 208V AC, 0.36A @ 220V AC, 0.33A @ 240V AC, 0.28A @ 277V AC
Ambient Operating Temp Range: -60°C to +100°C
Operating Temp Rating: T6
Housing Material: Aluminum Alloy
Lens Material: Tempered Glass
Mount Type: Ceiling Mount Junction Box

Ratings/Approvals

Class I, Division 1, Groups B, C, D
Class I, Division 2, Groups A, B, C, D
Class II, Divisions 1 & 2, Groups E, F, G
Class III, Divisions 1 & 2
Class I, Zone 1 & 2, AEx d IIB+H2
Class I, Zone 21 & 22, AEx td IIC
IEC Ex d IIB+H2 T5...T4 Gb
IEC Ex tb IIIC T110° Db
ATEX II 2G Ex d IIB+H2 T5...T4 Gb
ATEX II 2D Ex tb IIIC T110° Db
IP68 Waterproof
NEMA 6/6P
Certified to UL 844
Certified to UL 1598 & UL 60079
Certified to CSA C22.2 No. 137-M1981

Compatible With Lutron C.L. Series Dimmers
Factory Sealed Light Fixture
ABS Type Approval

Special Orders- Requirements

Contact us for special requirements

Mount Hubs: (4) 3/4" NPT Hubs
Mounting Surface: Flat Surfaces / Ceilings

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The EPLX-HB-80W-RD2-LED-TRC-CM from Larson Electronics is an Explosion Proof Ceiling Mount AC LED Light Fixture that is a compact powerhouse built to withstand demanding conditions. This LED ceiling mount light features state-of-the-art AC LEDs paired with specially designed heat sinks for improved efficiency, thermal management, and durability. Available in 5000K cool white and 3000K warm white options, a 110° flood beam provides crisp, and bright illumination with broad coverage. This heavy duty Class I Division 1 and Class II Division 1 LED lamp is suitable for oil refineries, petrochemical plants, painting facilities, offshore rigs, marinas, docks, warehouses, garages, and commercial buildings.

Light Features: The 80 watt EPLX-HB-80W-RD2-LED-TRC-CM Ceiling Mount AC LED Light Fixture delivers brilliant illumination and robust performance in a convenient space-saving form. A 110° wide flood beam provides crisp, bright light with broad coverage. This ceiling mounted fixture measures just 4.24"H and 9.21"OD.

This explosion proof ceiling light fixture 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-80W-RD2-LED-TRC-CM is designed to endure the daily wear and tear inflicted by harsh outdoor conditions such as sun, wind, rain, snow and sleet. as well as to withstand the corrosive effects of saltwater spray in marine environments. Durable IP68 rated construction provides protection against the ingress of dust, dirt and humidity and allows this light to withstand the corrosive elements found within marine environments including saltwater spray. The copper free, non-sparking die-cast aluminum alloy housing and tempered glass lens are vibration and impact resistant, and the housing is treated with a coating that rejects dust and buildup.

The EPLX-HB-80W-RD2-LED-TRC-CM is listed for use in the United States and Canada and carries IEC Ex 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. Solid state LED lighting is also safer for the environment as LEDs are 100% recyclable. And recycling simultaneously reduces operating costs by eliminating the need for the expensive special disposal services required with traditional gas burning and arc type lamps.

Dimming: The EPLX-HB-80W-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-80W-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-80W-RD2-LED-TRC-CM ceiling mount explosion proof light features a flat surface ceiling mount. The mount has four 3/4" NPT hubs to allow operators to bring wiring or conduit to the fixture.
Power/Wiring: The EPLX-HB-80W-RD2-LED-TRC-CM is available in the following voltages: 120V AC, 208V AC, 220V AC, 240V AC, and 277V AC.
Suggested Applications: Industrial grade construction, compact design, and versatile positioning options make this Class I Division 1 Groups B, C, & D, Class II Divsion 1 Groups E, F & G fixture and ideal lighting solution for oil refineries, petrochemical plants, painting facilities, offshore rigs, marinas, docks, warehouses, garages, and commercial buildings.
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. Each unit dialectically tested.
2. Low power consumption.
3. Instant on/off operation.
4. Fixture constructed of die-cast,corrosion resistant, copper free aluminum alloy.
5. No ballast box. No ballast to replace.
6. Superior color rendering compared to HPS, LPS, MH.
7. Retains 80% lumen output after 60,000 operating hours.
8.Exterior coating rejects dust and buildup.
9. Available in voltages: 120V AC, 208V AC, 220V AC, 240V AC, and 277V AC
10. Highly efficient thermal dissipation.
11. Fewer secondary components adds durability and longevity
12. Lighter weight, slimmer, brighter alternative to fluorescent configurations.
13. Explosion Proof / Flame Proof US, CAN, ATEX, IECEx; Rated for use in the United States and Canada.
14. Can be wired with a dimmer switch.
15. Compatible with Lutron C.L. series dimming switches.

Superior LED Benefits

1. 60,000 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.

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Frequently Asked Questions (FAQ)

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EPLX-HB-80W-RD2-LED-TRC-CM
Product ID: 148070

Warranty: 60 Months

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

Options:
EPLX-HB-80W-RD2-LED-TRC-CM-Voltage-Color Temp-Hub Config
Example: EPLX-HB-80W-RD2-LED-TRC-CM-120V-50K-0.75in

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

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

Hub Config	
3/4IN	-0.75in
1/2IN	-0.5in

Links (Click on the below items to view):

- **Operations Manual**
- **HigResPic1**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**