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

80W Explosion Proof High Bay AC LED Underwater Fixture - C1D1 - C2D1 - Group B + ATEX/IECEX - IP67 Waterproof

Product ID: 271160



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-UWP Explosion Proof High Bay Underwater AC LED

Lamp Type: Underwater AC LED
Listing: United States, Canada, Europe
Dimensions: 4.24"H x 9.21"OD
Weight: 12.1 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
Mounting: Pendant
Wiring: 10' SOOW Cord w/ Flying Leads
Wiring Hub: 3/4" NPT hubs
Underwater Operational Depth: Depths Up To 100' (30 Meters)

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
IP67 Waterproof
NEMA 6/6P
NRTL Certified to UL 844
NRTL Certified to UL 1598
NRTL Certified to UL 60079
NRTL Certified to CSA C22.2 No. 137-M1981
NRTL Certified to IEC 60079 & EN 60079
NRTL Compatible With Lutron C.L. Series Dimmers
Factory Sealed Light Fixture
ABS Type Approval

Special Orders - Requirements

Contact us for special requirements
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The EPLX-HB-80W-RD2-LED-TRC-UWP Explosion Proof High Bay AC LED Underwater Light Fixture from Larson Electronics is a compact powerhouse built to withstand demanding conditions. This LED high bay 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. The EPLX-HB-80W-RD2-LED-TRC-UWP is designed to operate underwater at depths of up to 100 feet (30 meters).

Light Features: The 80 watt EPLX-HB-80W-RD2-LED-TRC-UWP High Bay 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 pendat mounted fixture measures just 4.24"H and 9.21"OD.

This explosion proof high bay 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-UWP 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 IP67 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-UWP 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.

Underwater Operation: The EPLX-HB-80W-RD3-LED-TRC can operate normally above water or it can operaate while fully submerged underwater to depths of up to 100 feet (30 meters). This makes it ideal for flood zones or other areas where it may be submerged for extended periods of time. It still provides illumination while

submerged.
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-UWP high bay fixture is designed for pendant suspension mounting. Wiring is fed down through the rigid pipe to the 3/4" NPT hub on the back side of the fixture and tied in to the fixture`s lead wires, completing the electrical connection. Additional mounting brackets are available, including ceiling, wall, stancion, and pole top slip fitter mounting solutions.
Power/Wiring: The EPLX-HB-80W-RD2-LED-TRC-UWP is available in the following voltages: 120V AC, 208V AC, 220V AC, 240V AC, and 277V AC.
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.


LUMINAIRE FOR HAZARDOUS LOCATIONS
Class I, Div. 1, Groups B, C, D
Class II, Div. 1, Groups E, F, G
Hz : 50/60 Hz
V : 120 Vac
W : 100 W
A : 0.88 A







Frequently Asked Questions (FAQ)