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Lithonia Lighting ESX1 LED P2 40K R3 MVOLT UPA BLS DDBXDM2

Lithonia Lighting ESX1 LED Area Luminaire Instruction Manual

Model: ESX1 LED P2 40K R3 MVOLT UPA BLS DDBXDM2

PRODUCT OVERVIEW

The Lithonia Lighting ESX LED area luminaire offers an optimal combination of product value, competitive pricing, and efficient delivery. It is specifically designed for one-for-one replacement of existing HID area lighting systems, providing significant energy savings of up to 76%. This results in a long service life and a fast return on investment. All ESX luminaires are equipped with adjustable light output features, offering two distinct light levels from a single unit. This enhances flexibility in application and helps to reduce inventory costs. Furthermore, the luminaires incorporate a reversible arm, enabling versatile mounting options on both round and square poles.



Figure 1: Lithonia Lighting ESX1 LED Area Luminaire, showcasing its sleek design and robust construction.

SETUP AND INSTALLATION

Proper installation is crucial for the optimal performance and longevity of your ESX1 LED luminaire. This section provides general guidelines. For detailed, step-by-step instructions, please refer to the official Installation Manual PDF linked in the [Support and Warranty](#) section.

- **Mounting:** The ESX1 features a reversible arm designed for versatile mounting on both round and square poles. Ensure the mounting surface is stable and capable of supporting the luminaire's weight.
- **Electrical Connection:** The MVOLT driver operates on any line voltage from 120-277V (50/60Hz), providing broad compatibility. All electrical connections should be performed by a qualified electrician in accordance with local and national electrical codes.
- **Safety:** Always disconnect power at the circuit breaker before beginning any installation or maintenance. Wear appropriate personal protective equipment (PPE).



MVOLT
120-277V



Figure 2: The ESX1 LED luminaire highlighting its MVOLT compatibility (120-277V) and certifications for wet locations and UL standards.

ESX1 LED Area Luminaire



Easy Installation



Affordable Lighting
Solutions



5-Year Limited
Warranty

When your project calls for low initial cost and high energy savings, the Lithonia Lighting® ESX1 LED area luminaire delivers. ESX1 is ideal for one-for-one replacement of HID area lighting and provides up to 76% energy savings, long service life and fast payback.



Figure 3: Key features of the ESX1 LED Area Luminaire, including easy installation and a 5-year limited warranty.

OPERATING INSTRUCTIONS

The ESX1 LED luminaire is designed for straightforward operation with advanced features for light management.

- **Adjustable Light Output (ALO):** Each ESX1 luminaire is equipped with an internal bi-level switch. This allows you to select between two distinct light output levels (high and low lumens) to best suit the application's illumination requirements and energy saving goals. Refer to the specifications table for specific lumen outputs.
- **On/Off Control:** The luminaire supports hardwired on/off capability, allowing integration with standard electrical switches or external control systems.
- **Color Temperature:** The ESX1 LED is available in 4000K Cool White and 5000K Daylight color temperatures, providing options to match environmental aesthetics and functional needs.

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Video 1: An overview of the Lithonia Lighting ESX LED, detailing its features and benefits for various applications. This video provides visual context for the product's design and functionality.

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Video 2: A second overview of the Lithonia Lighting ESX, offering additional insights into its performance and installation aspects. This

video complements the first by providing further details.

MAINTENANCE

The ESX1 LED luminaire is designed for minimal maintenance, thanks to its durable construction and long-life LED technology. Regular inspection can help ensure continued optimal performance.

- **Cleaning:** Periodically clean the exterior of the luminaire with a soft, damp cloth to remove dirt and debris. Avoid abrasive cleaners or solvents that could damage the finish or optical components.
- **Inspection:** Annually inspect the mounting hardware and electrical connections for any signs of wear, corrosion, or loosening. Ensure all seals are intact to maintain the wet location rating.
- **Environmental Durability:** The luminaire is rated for a minimum ambient temperature of -40°C , ensuring reliable operation in harsh weather conditions.



Figure 4: Underside view of the ESX1 LED luminaire, illustrating the heat sink design for efficient thermal management, contributing to its long lifespan.

TROUBLESHOOTING

If you encounter issues with your ESX1 LED luminaire, consider the following common troubleshooting steps before contacting support:

Problem	Possible Cause	Solution
Luminaire does not turn on.	No power supply; loose wiring; faulty switch.	Check circuit breaker. Verify all electrical connections are secure. Test the switch.
Light output is lower than expected.	Bi-level switch set to low lumen output.	Adjust the internal bi-level switch to the high lumen setting.
Flickering or inconsistent light.	Unstable power supply; loose connections.	Ensure stable power. Check and tighten all wiring connections.

If the issue persists after attempting these steps, please contact Lithonia Lighting customer support.

SPECIFICATIONS

Detailed technical specifications for the Lithonia Lighting ESX1 LED Area Luminaire:

Attribute	Detail
Model Number	ESX1 LED P2 40K R3 MVOLT UPA BLS DDBXDM2
Dimensions (L x W x H)	19.94"L x 12"W x 2.87"H (Product) / 21.7"W x 12"L x 8.9"H (Variant)
Weight	12.12 pounds
Material	Aluminum, Polycarbonate
Color Temperature	5000K Daylight (also available in 4000K Cool White)
Lumen Output	8,000 to 25,000 Lumens (Adjustable via bi-level switch)
Voltage	MVOLT (120-277V)
Wattage	200 watts
Mounting Type	Pole Mount (Reversible arm for round/square poles)
Certifications	UL listed (US and Canadian standards), suitable for wet locations, DLC qualified product
Operating Temperature	Rated for -40°C minimum ambient

ESX1 LED Area Luminaire



Figure 5: Dimensions of the ESX1 LED Area Luminaire, providing a clear visual reference for planning installation.

SUPPORT AND WARRANTY

Lithonia Lighting stands behind the quality of its products.

- **Warranty:** The ESX1 LED luminaire comes with a **5-year limited manufacturer warranty**. Please retain your proof of purchase for warranty claims.
- **Installation Manual:** For comprehensive installation instructions and detailed technical diagrams, please download the official PDF manual: [Installation Manual \(PDF\)](#).
- **Customer Support:** For further assistance, technical inquiries, or warranty claims, please visit the official Lithonia Lighting website or contact their customer service department.