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Lithonia Lighting ZL1D L24

Lithonia Lighting ZL1D L24 LED Striplight Instruction Manual

Model: ZL1D L24

Introduction

This manual provides detailed instructions for the safe installation, operation, and maintenance of the Lithonia Lighting ZL1D L24 LED Striplight. Please read this manual thoroughly before installation and retain it for future reference.

Image: Lithonia Lighting ZL1D L24 LED Striplight, a long, white, rectangular LED fixture designed for surface mounting.

Safety Information

Always follow basic safety precautions when installing or working with electrical fixtures to reduce the risk of fire, electric shock, and personal injury.

- **Disconnect Power:** Ensure power is turned off at the circuit breaker or fuse box before installation or

servicing.

- **Qualified Electrician:** Installation should be performed by a qualified electrician in accordance with all applicable national and local electrical codes.
- **Grounding:** Properly ground the fixture to avoid potential electrical shock.
- **Wiring:** Inspect wire insulation for any cuts, abrasions, or exposed copper that may have occurred during shipping. If damage is present, do not attempt installation.
- **Operating Environment:** This fixture is designed for indoor use in damp locations, with an operating temperature range of -20°C to 35°C (-4°F to 86°F). Do not install in areas exceeding these conditions.
- **Handling:** Handle the fixture with care to prevent damage to LED components.

Package Contents

Verify that all components are present before beginning installation. The package should contain:

- Lithonia Lighting ZL1D L24 LED Striplight fixture
- Installation hardware (e.g., mounting screws, wire nuts)
- Instruction sheet (this document)

Specifications

Model	ZL1D L24 3500LM FST MVOLT 35K 80CRI WH
Type	LED Surface Mount Fixture / Strip Light
Nominal Length	24 inches
Nominal Width	2-1/4 inches (2.25 inches)
Nominal Height	3 inches (2-63/64 inches)
Max. Fixture Wattage	36.0 W
Fixture Voltage	120 to 277 V
Lumens	4190 lm
Lumens Per Watt	116.4 lm/W
Color Temperature	3500K (Bright White)
Color Rendering Index (CRI)	80.0
Dimmable	Yes (Dimmer switch required, Control Method: Remote/Button Control)
Rated Life	100,000 hours
Housing Material	Steel
IP Rating	Not Rated (Suitable for Damp Locations)
Certifications	CSA Certified (US and Canadian Safety Standards), DesignLights Consortium (DLC)

Environmental Attribute	Product Contributes To Reducing Energy Consumption

Setup and Installation

This fixture is designed for surface mounting. Installation may also involve chain, aircraft cable, or stem mounting (accessories sold separately). Always ensure power is disconnected before proceeding.

1. **Prepare the Installation Area:**
    - Turn off power at the circuit breaker or fuse box.
    - Identify the desired mounting location. Ensure the surface is structurally sound to support the fixture's weight.
    - Run electrical supply wires to the mounting location, if not already present.
2. **Mount the Fixture:**
    - Carefully remove the fixture from its packaging.
    - Position the fixture against the mounting surface and mark the locations for mounting screws.
    - Drill pilot holes if necessary.
    - Secure the fixture to the mounting surface using appropriate screws (not always included, check package contents).
3. **Electrical Connections:**
    - Connect the fixture's black wire to the supply's hot (black) wire.
    - Connect the fixture's white wire to the supply's neutral (white) wire.
    - Connect the fixture's ground wire to the supply's ground wire (bare copper or green).
    - Use approved wire connectors (wire nuts) for all connections and ensure they are secure.
    - If installing a dimmer switch, follow the dimmer manufacturer's instructions for wiring. This fixture is dimmable.
4. **Final Steps:**
    - Carefully tuck all wires into the junction box or fixture housing.
    - Ensure all covers or diffusers are securely attached to the fixture.
    - Restore power at the circuit breaker.
    - Test the fixture to ensure proper operation.

Operating Instructions

The Lithonia Lighting ZL1D L24 LED Striplight is designed for straightforward operation.

- **Power On/Off:** Once installed and power is restored, the fixture will turn on/off via the wall switch connected to its electrical circuit.
- **Dimming Function:** If connected to a compatible dimmer switch, adjust the dimmer control to achieve the desired light output. This fixture supports dimming.

Maintenance

The LED Striplight requires minimal maintenance due to its long-life LED technology.

- **Cleaning:** Disconnect power before cleaning. Use a soft, dry, or slightly damp cloth to wipe the

exterior surfaces. Avoid abrasive cleaners, solvents, or cleaners containing alcohol, as these can damage the finish or optical components.

- **LEDs:** The LEDs are integrated and not user-replaceable. Do not attempt to open the fixture to replace individual LEDs.
- **Inspection:** Periodically inspect the fixture for any signs of damage or loose connections.

Troubleshooting

If the fixture does not operate correctly, consult the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not turn on.	No power to the fixture.	Check circuit breaker or fuse. Ensure wall switch is in the "ON" position. Verify electrical connections.
Light flickers or dims unexpectedly.	Loose wiring connection; Incompatible dimmer switch; Voltage fluctuations.	Turn off power and check all wire connections. Ensure the dimmer switch is compatible with LED fixtures. Consult an electrician if voltage issues are suspected.
Light output is lower than expected.	Dimmer setting too low; Dust accumulation on diffuser.	Adjust dimmer to maximum setting. Clean the diffuser with a soft cloth.

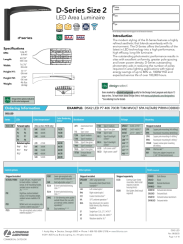
If issues persist after attempting these solutions, contact a qualified electrician or Lithonia Lighting customer support.

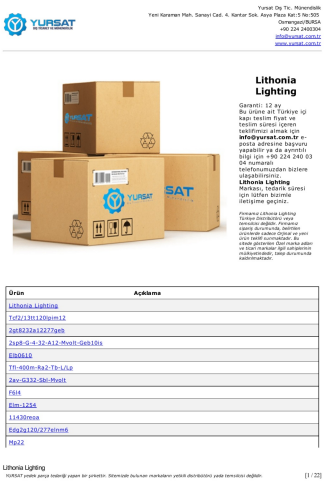
Warranty and Support

The Lithonia Lighting ZL1D L24 LED Striplight comes with a**5-year limited warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.
For warranty claims, technical assistance, or further support, please contact Lithonia Lighting customer service. Keep your purchase receipt as proof of purchase.
For more information, visit the official Lithonia Lighting website or refer to the contact information provided with your purchase.

Related Documents - ZL1D L24

	Lithonia Lighting Clean Room Troffer SRTL: Installation and Maintenance Guide Comprehensive installation and maintenance instructions for the Lithonia Lighting Clean Room Troffer SRTL series, covering grid and sheet rock mounting, safety precautions, and servicing.

	[Lithonia Lighting Contractor Select CSS LED Luminaire Installation Guide] Comprehensive installation instructions for the Lithonia Lighting Contractor Select CSS LED Luminaire, covering safety precautions, step-by-step assembly, wiring, switchable settings, and optional accessories like wire guards and sensors.
	[Lithonia Lighting CSS LED Strip Light - Product Specifications and Ordering Guide] Comprehensive guide to Lithonia Lighting's CSS LED Strip Light series, detailing features, specifications, ordering information, performance data, dimensions, and ambient ratings for commercial indoor applications.
	[UFIT LED Low Bay Lighting: Features, Specifications, and Ordering Guide] Discover the UFIT LED Low Bay, a versatile and efficient lighting solution for warehouses, factories, and retail spaces. This guide details its construction, electrical specifications, installation options, and ordering information, including comparable light sources and lumen maintenance.
	[Lithonia Lighting D-Series Size 2 LED Area Luminaire - Product Specifications and Data] Detailed product information for the Lithonia Lighting D-Series Size 2 LED Area Luminaire, including specifications, ordering guide, performance data, photometric diagrams, dimensions, and features for outdoor lighting applications.
	[CPANL LED Switchable Lumen Flat Panel - Features, Specifications, and Ordering Information] Detailed information on the CPANL LED switchable lumen flat panel, including its features, construction, electrical specifications, listings, warranty, ordering information, accessories, and dimensions. Suitable for various commercial applications.



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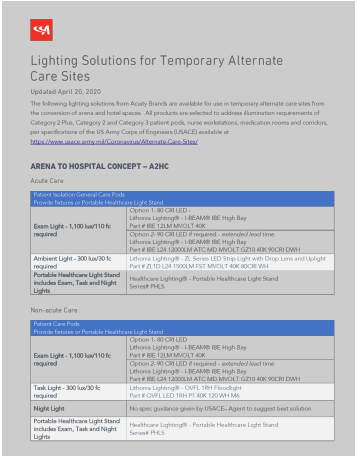

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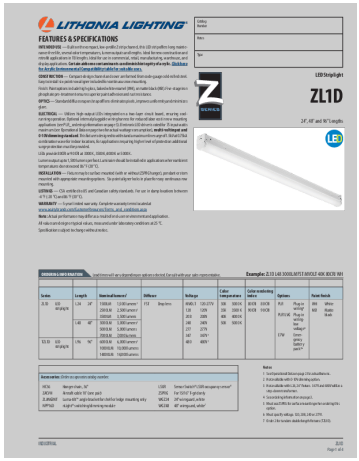

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