

Metalux LRL22324U

Metalux LRL22324U LED Troffer Instruction Manual

Integrated Architectural 3200 Lumens, 4000K, Dimmable LED Troffer

1. INTRODUCTION

This manual provides essential information for the safe and efficient installation, operation, and maintenance of your Metalux LRL22324U LED Troffer. The RTC lensed troffer series offers performance, reliability, and flexibility with a housing optimized for shallow plenums. Utilizing Eaton's latest generation of solid-state components and electronic driver technologies, these center-illuminated troffers provide various options for control and sensing. Designed for compatibility with popular ceiling systems, the RTC troffers are suitable for both new construction and the replacement of fluorescent troffers in commercial office spaces, schools, healthcare facilities, and retail merchandising areas.

Please read this manual thoroughly before installation and retain it for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock. Disconnect power before installation or servicing.

- Installation must be performed by a qualified electrician in accordance with the National Electrical Code and local codes and ordinances.
- Ensure the supply voltage is correct for the fixture. The fixture is equipped with a Universal Voltage (UNV) driver.
- Do not handle energized fixtures with wet hands or when standing on wet or damp surfaces.
- Do not alter or modify the fixture. Any alterations may void the warranty and create a safety hazard.
- Wear safety glasses and gloves during installation.
- Keep combustible and other materials that can be affected by heat away from the fixture.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged upon opening the package. If any parts are missing or damaged, contact your supplier immediately.

- Metalux LRL22324U LED Troffer Fixture (1 unit)
- Installation Hardware (typically included, verify upon receipt)



Figure 1: Front view of the Metalux LRL22324U LED Troffer, showcasing its integrated design and white finish.



Figure 2: Bottom view of the Metalux LRL22324U LED Troffer, highlighting the lensed light distribution.



Figure 3: Angled view of the Metalux LRL22324U LED Troffer, showing its slim profile suitable for shallow plenums.

4. INSTALLATION INSTRUCTIONS

The Metalux LRL22324U LED Troffer is designed for surface mount installation and is compatible with various ceiling systems. Its shallow plenum design (under 2.5 inches deep) allows for installation in challenging spaces.

4.1 Pre-Installation

1. Turn off power at the circuit breaker or fuse box before beginning installation.
2. Ensure the mounting surface is structurally sound to support the fixture's weight (approximately 10 pounds).
3. Review the dimensional drawing for precise measurements and mounting points.

4.2 Mounting the Fixture

Refer to Figure 4 for dimensional details and mounting hole locations.

1. Position the fixture in the desired location on the ceiling.
2. Mark the locations for mounting screws or anchors.
3. Secure the fixture to the ceiling using appropriate mounting hardware (not always included, purchase separately if needed). Ensure the fixture is firmly attached.

4.3 Electrical Wiring

The fixture features a Universal Voltage (UNV) driver and supports 0-10V dimming as standard.

1. Connect the AC power supply wires to the fixture's input wires according to local electrical codes (typically Black to Line, White to Neutral, Green to Ground).
2. For 0-10V dimming functionality, connect the purple (dimming positive) and gray (dimming negative) wires from the fixture to a compatible 0-10V dimmer switch. Ensure proper polarity.
3. Secure all wire connections with appropriate wire connectors.
4. Ensure all wiring is neatly tucked into the junction box or wiring compartment.

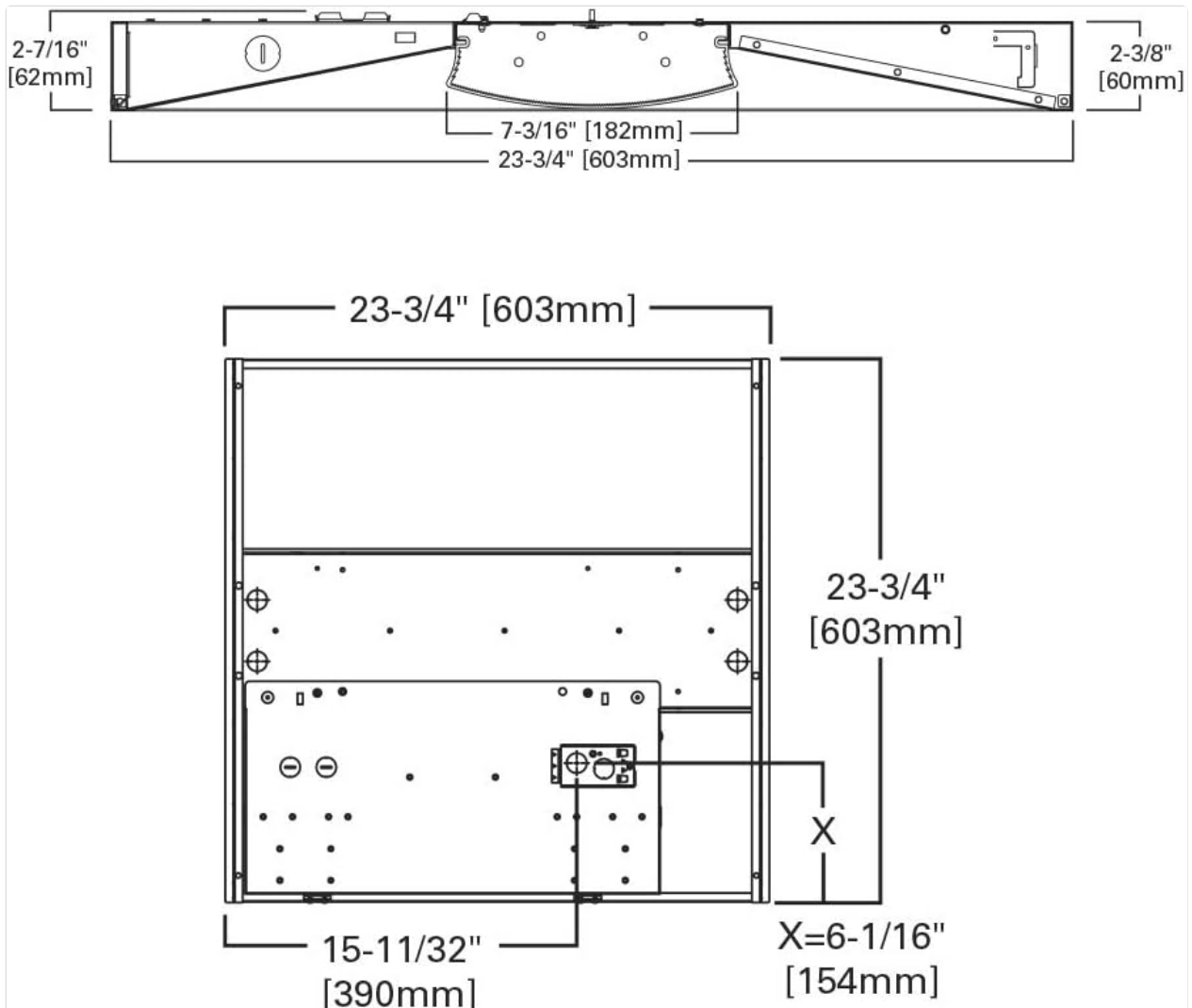


Figure 4: Detailed dimensional drawing of the Metalux LRL22324U LED Troffer, including measurements for installation. Dimensions are provided in inches and millimeters.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, the Metalux LRL22324U LED Troffer is ready for operation.

- **Power On/Off:** Restore power at the circuit breaker. The fixture will illuminate.
- **Dimming:** Use a compatible 0-10V dimmer switch to adjust the light output. The fixture is designed for smooth dimming performance.
- **Color Temperature:** This model provides a fixed color temperature of 4000 Kelvin, offering a cool white light suitable for various commercial and institutional settings.

6. MAINTENANCE

The Metalux LRL22324U LED Troffer requires minimal maintenance. Always disconnect power before performing any maintenance.

- **Cleaning:** Clean the exterior surfaces and lens with a soft, damp cloth. Do not use abrasive cleaners or solvents, as they may damage the finish or optical components.
- **Inspection:** Periodically inspect the fixture for any signs of damage, loose wiring, or excessive dust accumulation. Address any issues promptly.
- **LEDs:** The integrated LED light source is designed for long life and is not user-serviceable. Do not attempt to replace individual LEDs.

7. TROUBLESHOOTING

If the fixture does not operate correctly, perform the following checks:

- **No Light:**
 - Ensure power is supplied to the fixture at the circuit breaker.
 - Check all wire connections for secure contact.
 - Verify the dimmer switch (if installed) is functioning correctly and set to an appropriate level.
- **Flickering or Inconsistent Light:**
 - Confirm that the 0-10V dimming wires are correctly connected and not shorted.
 - Ensure the dimmer switch is compatible with 0-10V LED drivers.
 - Check for loose electrical connections.
- **Dimming Issues:**
 - Verify the 0-10V dimmer is properly installed and configured.
 - Ensure the dimming control wires (purple and gray) are not reversed or damaged.

If issues persist after performing these checks, contact a qualified electrician or Metalux customer support.

8. SPECIFICATIONS

Feature	Specification
Brand	Metalux
Model Number	LRL22324U
Dimensions (L x W x H)	26.25 x 25.5 x 3.56 inches
Item Weight	10 Pounds
Light Source Type	Integrated LED
Brightness	3200 Lumens
Color Temperature (CCT)	4000 Kelvin (Cool White)

Wattage	25 watts
Voltage	Universal Voltage (UNV) Driver
Dimming	0-10V Dimming Standard
Installation Type	Surface Mount
Material	Alloy Steel, Metal Shade
Color	White

9. ADDITIONAL RESOURCES

9.1 Metalux Brand Overview

Your browser does not support the video tag.

Video 1: A brief introduction to the Metalux brand by Cooper Lighting, highlighting their commitment to quality and innovation in lighting solutions. (Duration: 0:24)

10. WARRANTY AND SUPPORT

This Metalux LRL22324U LED Troffer comes with a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical support, or further assistance, please contact Eaton's Lighting Division (Metalux's manufacturer) or your authorized Metalux dealer. Please have your model number (LRL22324U) and date of purchase available when contacting support.