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## Lithonia Lighting 2BLT2 33L ADP LP840

# Lithonia Lighting BLT Series 2x2 LED Troffer Light Instruction Manual

Model: 2BLT2 33L ADP LP840 | Brand: Lithonia Lighting

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## 1. INTRODUCTION

The Lithonia Lighting BLT Series 2x2 Low Profile LED Troffer provides 3300 lumens of 4000K cool white illumination. This fixture is designed for drop ceilings in various indoor environments such as offices, classrooms, and corridors. Its slim 2-3/8" depth facilitates installation in restrictive plenum settings. This manual provides essential information for the safe installation, operation, and maintenance of your LED troffer light.

## 2. IMPORTANT SAFETY INFORMATION

Please read and understand all instructions before beginning installation. Failure to follow these instructions may result in electric shock, fire, or other hazards that could cause property damage or personal injury.

- **WARNING:** Risk of electric shock. Disconnect power at the fuse or circuit breaker before installing or servicing.
- Installation must be performed by a qualified electrician in accordance with the National Electrical Code and local codes.
- Ensure the supply voltage is compatible with the fixture's requirements (120-277V).
- Do not handle energized fixture with wet hands or while standing on wet or damp surfaces.
- This fixture is designed for indoor, damp location, and IC rated applications. Do not use in locations where it may be exposed to direct water spray or submersion.
- Do not modify or alter the fixture. Any modifications may void the warranty and create safety hazards.
- Keep combustible materials away from the fixture.

## 3. PACKAGE CONTENTS

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Verify that all components are present before beginning installation.

- 1 x BLT Series 2x2 LED Troffer Light (Model: 2BLT2 33L ADP LP840)
- Installation Guide (this document)



Figure 1: Front view of the Lithonia Lighting 2x2 LED Troffer Light.

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## 4. SETUP & INSTALLATION

The BLT Series LED Troffer is designed for installation in standard drop ceilings. Ensure power is disconnected before proceeding.

### 4.1 Pre-Installation Checks

- Confirm the ceiling grid opening is 2 ft x 2 ft (approximately 23-3/4" x 23-3/4").
- Verify that the plenum depth is sufficient for the fixture's 2-3/8" depth.
- Ensure wiring is available and meets local electrical codes.

### 4.2 Installation Steps

1. **Disconnect Power:** Turn off power at the circuit breaker or fuse box to avoid electrical shock.

2. **Prepare Opening:** Remove the existing ceiling tile from the desired installation location.
3. **Position Fixture:** Carefully lift the LED troffer into the ceiling grid opening. The fixture's end plates contain integral T-bar clips for secure attachment.
4. **Secure Fixture:** Engage the T-bar clips to firmly secure the luminaire to the T-grid.
5. **Wiring Connections:**
  - Open the wiring compartment cover on the fixture.
  - Connect the building's supply wires to the fixture's wires according to the wiring diagram (typically black to black, white to white, and ground to ground).
  - If using 0-10V dimming, connect the purple (dimming positive) and gray (dimming negative) wires to the compatible dimming control wires.
  - Ensure all connections are secure and properly insulated.
6. **Close Wiring Compartment:** Replace the wiring compartment cover.
7. **Restore Power:** Turn on power at the circuit breaker or fuse box.



Figure 2: Angled view of the LED troffer, showing its low profile design.

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Video 1: Overview of the BLT Series Low Profile LED Drop in Ceiling Light, demonstrating its features and potential applications.

## 5. OPERATING INSTRUCTIONS

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The Lithonia Lighting BLT Series LED Troffer operates immediately upon power being supplied. It is designed for use with compatible 0-10V dimming systems, allowing for adjustable light output.

- **Standard Operation:** Once installed and wired, the fixture will illuminate when power is supplied via a standard wall switch.
- **Dimming Functionality:** If connected to a compatible 0-10V dimmer switch, the light output can be adjusted from 100% down to 10% brightness. Use a 0-10V dimmer for optimal performance.
- **Control Method:** This fixture supports control via a compatible dimmer switch. Remote control or app control functionality is dependent on the external dimming system used, not inherent to the fixture itself.

## 6. MAINTENANCE

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The BLT Series LED Troffer is designed for long-term, low-maintenance operation. No user-serviceable parts are inside.

- **Cleaning:** Ensure power is disconnected before cleaning. Wipe the diffuser and exterior surfaces with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **LED Longevity:** The long-life LEDs are rated for 80% lumen maintenance at 60,000 hours, meaning they will maintain at least 80% of their initial brightness after 60,000 hours of operation.
- **Inspection:** Periodically inspect the fixture for any signs of damage or loose connections. If any issues are found, disconnect power and consult a qualified electrician.

## 7. TROUBLESHOOTING

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If your LED troffer light is not functioning correctly, refer to the following common issues and solutions:

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; loose wiring; faulty switch.	Check circuit breaker/fuse. Verify all wiring connections are secure. Test the switch.
Light flickers or dims unexpectedly.	Incompatible dimmer; loose wiring; voltage fluctuations.	Ensure a compatible 0-10V dimmer is used. Check wiring connections. Consult an electrician for voltage issues.
Light output is lower than expected.	Dimmer setting too low; incorrect wiring.	Adjust dimmer to maximum setting. Verify dimming wires are correctly connected.

If the problem persists after attempting these solutions, contact a qualified electrician or Lithonia Lighting customer support.

## 8. SPECIFICATIONS

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Feature	Detail
Brand	Lithonia Lighting
Model Number	2BLT2 33L ADP LP840
Dimensions (L x W x H)	23.75" x 23.75" x 2.38"
Light Source	LED
Brightness	3300 Lumens
Color Temperature	4000K (Cool White)
Voltage	120-277 Volts (MVOLT)
Wattage	30 Watts
Dimmable	Yes, 0-10V dimming to 10%
Material	Alloy Steel (housing), Acrylic (shade)
Installation Type	Recessed (Drop Ceiling)
Certifications	CSA Certified, Damp Location Rated, IC Rated
Weight	6 Pounds
UPC	190887529739

## 9. WARRANTY & SUPPORT

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This Lithonia Lighting BLT Series LED Troffer Light is backed by a **5-year limited warranty** from the manufacturer. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or additional product information, please contact Lithonia Lighting customer service or visit their official website.

You can also visit the **Lithonia Lighting Store on Amazon** for more products and information.