

## Metalux 24GR-LD5-64-F1-UNV-L840-CD1-U

# Metalux GRLED Integrated LED Troffer User Manual

Model: **24GR-LD5-64-F1-UNV-L840-CD1-U**

Brand: *Metalux*

## INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your Metalux GRLED Integrated LED Troffer. The GRLED series offers an optimal balance of LED performance and value, designed for general purpose lighting applications. It features a shallow, low-profile housing compatible with various ceiling systems and is suitable for commercial offices, schools, hospitals, and retail environments.

## IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** Risk of fire or electric shock. Installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

- Disconnect power at the fuse or circuit breaker before installation or servicing.
- Ensure all wiring connections are made in accordance with the National Electrical Code (NEC) and local codes.
- Do not alter or modify the luminaire. Any alterations may void the warranty and create a safety hazard.
- Do not handle energized fixture with wet hands.
- This fixture is designed for indoor use only.
- Certain airborne contaminants can diminish the integrity of acrylic components. Refer to material compatibility tables for additional information.

## SETUP AND INSTALLATION

The Metalux GRLED Troffer is designed for easy installation in various ceiling systems. Professional installation is recommended.

## Pre-Installation Checklist:

- Verify that the power supply is turned off at the circuit breaker.
- Ensure the ceiling opening dimensions are appropriate for a 2x4 troffer (approximately 47.75 x 23.75 inches).
- Gather necessary tools: wire strippers, screwdriver, measuring tape, safety glasses, gloves.

## Installation Steps:

1. **Prepare the Ceiling Opening:** Ensure the ceiling grid is properly installed and the opening is clear of obstructions.
2. **Connect Wiring:**
  - Open the wiring compartment on the fixture.
  - Connect the building's electrical supply wires to the fixture's wires according to local electrical codes (e.g., black to black, white to white, green to ground). This fixture operates on 277 Volts.
  - If using 0-10V dimming, connect the dimming control wires (purple and gray) to the appropriate dimmer connections.
  - Secure all connections with approved wire nuts.
  - Close the wiring compartment securely.
3. **Mount the Fixture:** Carefully lift the troffer into the ceiling grid opening. Ensure the fixture rests securely on the T-bar grid.
4. **Secure the Fixture (if required):** Use appropriate seismic clips or hanger wires to secure the fixture to the building structure, as per local building codes.
5. **Restore Power:** Once installation is complete and all connections are secure, restore power at the circuit breaker and test the fixture.



*Image: Metalux GRLED Integrated LED Troffer. This image shows the full view of the LED troffer, highlighting its rectangular shape and the textured acrylic lens. The metal housing is visible above the lens, indicating its design for recessed ceiling installation.*

## OPERATION

The Metalux GRLED Integrated LED Troffer is designed for straightforward operation once installed.

Turning On/Off:

The fixture is controlled by the wall switch or circuit breaker connected to its power supply. Simply toggle the switch to turn the light on or off.

Dimming Functionality:

This model supports standard 0-10V dimming. If connected to a compatible 0-10V dimmer switch, you can adjust the light output from 100% down to 10% or lower, depending on the dimmer's capabilities. Refer to your dimmer's instructions for specific operation.

The integrated LED technology ensures instant full brightness without flickering or warm-up time.

MAINTENANCE

The Metalux GRLED Integrated LED Troffer requires minimal maintenance due to its long-life LED components.

Cleaning:

- Always disconnect power before cleaning the fixture.
- Clean the acrylic lens and exterior surfaces with a soft, damp cloth.
- Do not use abrasive cleaners, solvents, or cleaners containing ammonia, as these can damage the acrylic or finish.
- Ensure the fixture is completely dry before restoring power.

LED Replacement:

The LEDs in this fixture are integrated and are not designed for user replacement. The fixture has a long operational life (L70 at 193,000 hours / L90 at 60,000 hours), making replacement unnecessary under normal operating conditions.

TROUBLESHOOTING

If you experience issues with your Metalux GRLED Troffer, consult the following table before contacting support.

| Problem                              | Possible Cause                                                                            | Solution                                                                                                                                          |
|--------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Fixture does not light up.           | No power to the fixture.<br>Loose wiring connection.<br>Faulty switch or circuit breaker. | Check circuit breaker and wall switch.<br>Ensure all wiring connections are secure (power off first).<br>Test switch/breaker with another device. |
| Light flickers or dims unexpectedly. | Incompatible dimmer switch.<br>Loose wiring.<br>Voltage fluctuations.                     | Ensure dimmer is 0-10V compatible.<br>Check wiring connections.<br>Consult an electrician to check power supply.                                  |
| Reduced light output.                | Dust or dirt on lens.<br>Dimmer set too low.                                              | Clean the acrylic lens.<br>Adjust dimmer setting.                                                                                                 |

## SPECIFICATIONS

|                         |                                            |
|-------------------------|--------------------------------------------|
| Model Number            | 24GR-LD5-64-F1-UNV-L840-CD1-U              |
| Brand                   | Metalux                                    |
| Light Source Type       | Integrated LED                             |
| Brightness              | 6400 Lumens                                |
| Color Temperature (CCT) | 4000K                                      |
| Wattage                 | 51 Watts                                   |
| Voltage                 | 277 Volts                                  |
| CRI                     | Over 80                                    |
| Lumen Maintenance       | L70 at 193,000 hours / L90 at 60,000 hours |
| Dimming                 | 0-10V Standard                             |
| Material                | Acrylic, Alloy Steel                       |
| Color                   | White                                      |
| Dimensions (L x W x H)  | 47.75 x 23.75 x 3.25 inches                |
| Item Weight             | 19.5 pounds                                |
| Indoor/Outdoor Usage    | Indoor                                     |
| Certifications          | cUL                                        |

## WARRANTY INFORMATION

The Metalux 24GR-LD5-64-F1-UNV-L840-CD1-U GRLED Integrated LED Troffer comes with a **5-year limited warranty** from the manufacturer, Eaton.

This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the official warranty document provided with your product or visit the manufacturer's website. Keep your proof of purchase for warranty claims.

A PDF version of the warranty document may be available for download: [Download Warranty \(PDF\)](#)

## CUSTOMER SUPPORT

For technical assistance, warranty claims, or further inquiries regarding your Metalux GRLED Integrated LED Troffer, please contact Metalux (Eaton) customer support.

Please have your model number (**24GR-LD5-64-F1-UNV-L840-CD1-U**) and date of purchase ready when

contacting support.

You can also visit the official Metalux store on Amazon for more product information [Metalux Store](#)

## ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

### Name

Anonymous

### Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

### Question

Example: How do I reset this device or fix this error?

### Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question