

Metalux 24FP4740C

Metalux 2X4 LED Recessed Panel (Model 24FP4740C) Instruction Manual

Brand: Metalux
Model: 24FP4740C

PRODUCT OVERVIEW

The Metalux FPanel LED panel series delivers premium performance and pleasing aesthetics. This luminaire is optimized for shallow plenum grid ceilings but can also be surface or suspension mounted. Utilizing Cooper Lighting's latest generation of solid-state components and electronic driver technologies, these panels are suitable for both new construction and renovation of existing fluorescent troffers. The panel's refined visual optics, superior acrylic light guide, and integrated grid retention clips provide features essential for installation speed and flexibility. LED FPanels are an excellent lighting solution for commercial office spaces, schools, healthcare facilities, and retail merchandising areas.

Key Features

- Ultra-thin 1.75" height fits shallow plenums with room to spare
- Standard and High Lumen models up to 7000 lumens
- Up to 124 lumens per watt, delivering up to 53% energy savings
- UNV driver and 0-10V dimming standard
- Superior optics ensure long life and smooth corner-to-corner illumination

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Video: Metalux Brand Introduction. This video provides an overview of the Metalux brand and its commitment to quality lighting solutions.

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, personal injury, or death.

- **WARNING: Risk of Electric Shock.** Disconnect power at the fuse or circuit breaker before installing

or servicing.

- **WARNING: Risk of Fire.** Use only with conductors rated for at least 90°C.
- Installation must be performed by a qualified electrician in accordance with the National Electrical Code (NEC) and local code requirements.
- Ensure the fixture is properly grounded to avoid potential electrical hazards.
- Do not handle energized fixtures with wet hands or while standing on wet or damp surfaces.
- This product is designed for indoor use only.

PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Metalux 2X4 LED Recessed Panel
- Installation Hardware (e.g., mounting clips, wiring connectors)
- Instruction Manual

INSTALLATION INSTRUCTIONS

Before You Begin

- Turn off power at the circuit breaker or fuse box.
- Gather necessary tools: screwdriver, wire strippers, measuring tape, safety glasses, gloves.
- Review local electrical codes and ensure compliance.

Recessed Installation Steps

1. **Prepare the Ceiling Opening:** Ensure the ceiling grid opening is appropriate for a 2x4 foot panel. Refer to the dimensions diagram for precise measurements.

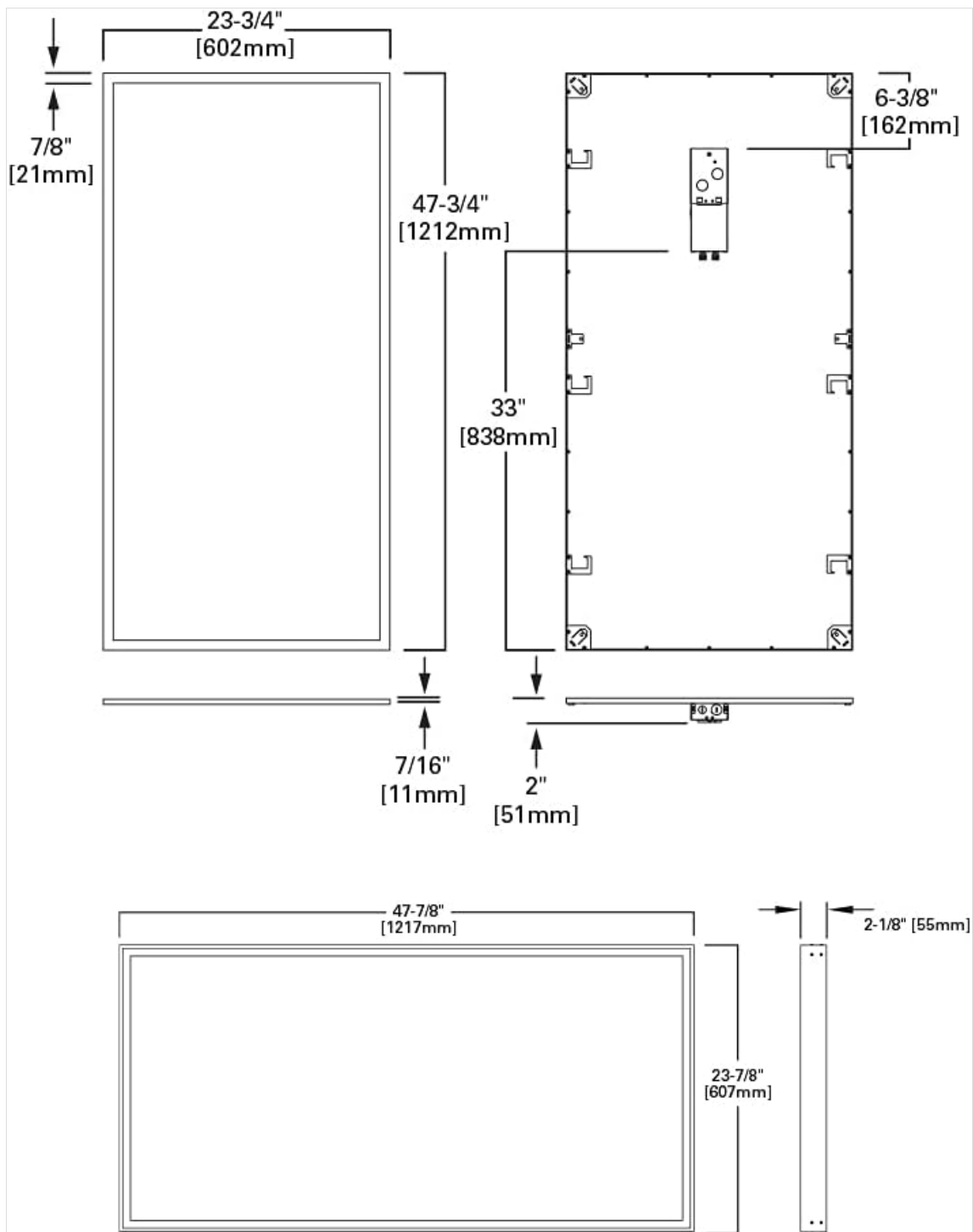


Image: Dimensions of the Metalux 2X4 LED Recessed Panel. This diagram provides critical measurements for proper installation.

2. **Connect Wiring:** Open the wiring compartment on the back of the fixture. Connect the building's supply wires (black to black, white to white, ground to ground) to the fixture's wires using appropriate wire connectors. If using 0-10V dimming, connect the purple (dim +) and gray (dim -) wires to the compatible dimmer control wires. Ensure all connections are secure.



Image: Wiring compartment of the LED panel. This shows the electrical connections for power and dimming.

3. **Secure the Panel:** Carefully place the LED panel into the ceiling grid opening. The integrated grid retention clips will help secure the panel in place. Ensure the panel is flush with the ceiling grid.



Image: Integrated grid retention clips. These clips are designed to secure the panel within a T-bar ceiling grid.

4. **Final Check:** Double-check all electrical connections and ensure the panel is securely installed.



Image: Metalux 2X4 LED Recessed Panel. A general view of the product after installation.

OPERATING INSTRUCTIONS

Powering On/Off

Once installed and power is restored, the LED panel will illuminate when the wall switch connected to its circuit is turned on. Turn the switch off to power down the fixture.

Dimming Functionality

This fixture supports 0-10V dimming. If connected to a compatible 0-10V dimmer switch, you can adjust the light output by manipulating the dimmer control. Ensure the dimmer is properly installed and compatible with 0-10V LED drivers.

MAINTENANCE

Cleaning

- Ensure power is disconnected before cleaning.
- Wipe the fixture with a soft, dry, or slightly damp cloth.
- Do not use abrasive cleaners, solvents, or cleaners containing alcohol, as these may damage the finish or acrylic light guide.

General Care

The LED components are integrated and do not require replacement. Regular inspection for any loose connections or physical damage is recommended.

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Solution
Light does not turn on.	No power to the fixture. Loose or incorrect wiring. Faulty switch.	Check circuit breaker/fuse. Verify all wire connections are secure and correct. Test the wall switch.

Problem	Possible Cause	Solution
Light flickers or dims unexpectedly.	Loose wiring connection. Incompatible dimmer switch. Power fluctuations.	Check all wiring connections. Ensure dimmer is 0-10V compatible. Consult an electrician for power supply issues.
Dimming function does not work.	Incorrect 0-10V wiring. Incompatible dimmer. Dimmer not connected.	Verify purple and gray wires are correctly connected to the 0-10V dimmer. Ensure dimmer is 0-10V compatible. Confirm dimmer is properly installed and connected.

TECHNICAL SPECIFICATIONS

Specification	Detail
Brand	Metalux
Model Number	24FP4740C
Item Dimensions (L x W x H)	47"L x 23"W x 0.87"H (1217mm x 607mm x 21mm)
Wattage	41.4 watts
Brightness	4556 Lumens
Light Color	Cool White (4000K)
Voltage	120 Volts
Material	Aluminum (body), Acrylic (shade)
Mounting Type	Ceiling Mount (Recessed)
Efficiency	124 lumens per watt
Control Method	Push Button, Remote (0-10V Dimming)
Indoor/Outdoor Usage	Indoor
Warranty	5 years (Manufacturer's Limited Warranty)

WARRANTY INFORMATION

This Metalux LED panel comes with a 5-year manufacturer's limited warranty. This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the official Metalux warranty documentation or contact customer support.

CUSTOMER SUPPORT

For technical assistance, replacement parts, or warranty inquiries regarding your Metalux 2X4 LED

Recessed Panel, please contact Metalux customer support. Please have your model number (24FP4740C) and purchase information ready when contacting support.

Contact information (e.g., phone number, email, website) can typically be found on the product packaging or the manufacturer's official website.