

LED Cove Lighting System

LED ARCHITECTURAL SERIES

Product Codes

73098, 73099, 73100, 73101, 73826, 74892, 62193, 62194, 62197, 62198



BEFORE YOU BEGIN

Read these instructions completely and carefully.

⚠ WARNING

Risk of fire, electrical shock or injury. Observe the following instructions when installing this product.

- This product is intended solely for the use of non-residential architecture lighting and is not intended for use in any other application.
- Before installing, servicing or cleaning unit, switch power off at the service panel and follow appropriate lock out/tag out safety procedures.

PLAN YOUR INSTALLATION

Inspect the planned area for your installation and prepare a sketch and materials list for LED Cove fixtures, mounting tracks, leader cables and jumper cables.

FOR 120VAC INSTALLATIONS:

- No more than 200 LED Cove fixtures (~200 feet/60.96m) are recommended to be run in series.

FOR 240VAC INSTALLATIONS:

- No more than 330 LED Cove fixture (~300 feet/91.44m) are recommended to be run in series.
- Installing multiple 240V Cove fixtures, on the same lighting circuit, may cause GFI or RCD circuits to trip due to the ground leakage current of the fixtures. To avoid this issue, when designing lighting circuit s using GFI or RCD protection, the total leakage current for a string of Cove fixtures should be calculated using the value of 0.5 mA per fixture.

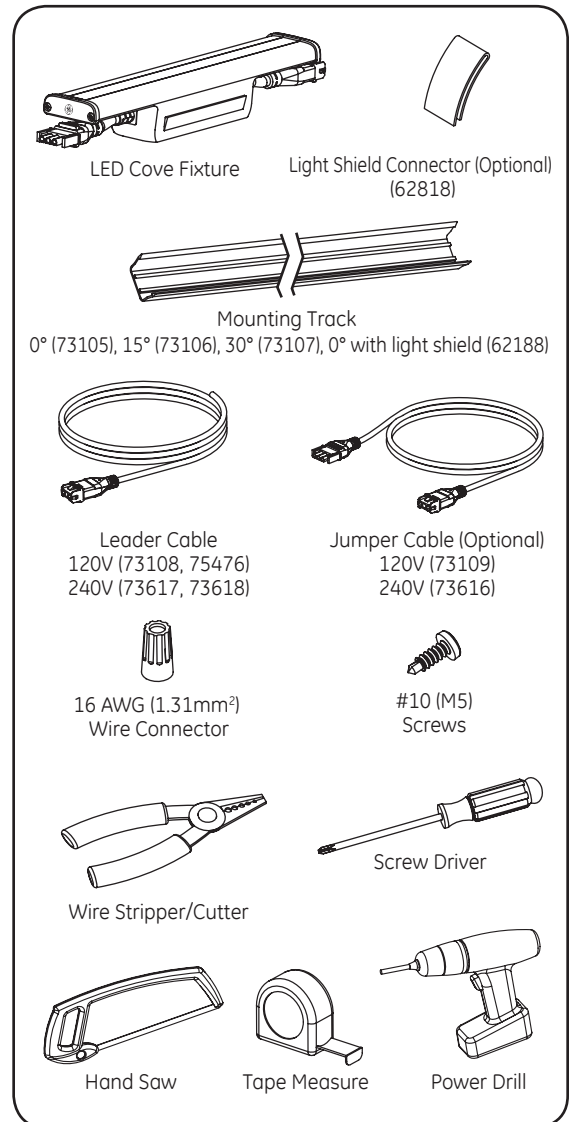
Prepare Electrical Wiring



Electrical Requirements

- Do not use in wet locations.
- The grounding and bonding of the LED Driver shall be done in accordance with National Electric Code (NEC) Article 600.
- Follow all National Electric Codes (NEC) and local codes.

Tools and Components



imagination at work

Installation Guide

1

Install Mounting Tracks

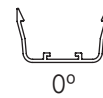
NOTE: Select and use same degree angle mounting track throughout entire installation.

- Position mounting tracks in cove. Maintaining a fixed distance between the mounting track and the wall being illuminated is critical for consistent appearance.
- Maintain at least 0.5 inches (13 mm) between wall and mounting track.
- For curved sections or angles, cut and lay out sections of mounting track spaced no less than 12 inches (305 mm) on center along profile of wall to achieve desired radius.
- A jumper cable can be placed between modules to provide a gap in a single run.
- Use a saw capable of cutting through 1/8-inch (3 mm) PVC to cut mounting tracks to length as needed.

CAUTION
Risk of injury. Ensure that hands are free from cutting area.

- Install a minimum of two #10 (M5) screws per cut section of mounting track to fix the track in place within the cove.

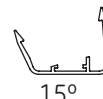
Select a mounting track



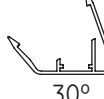
0°



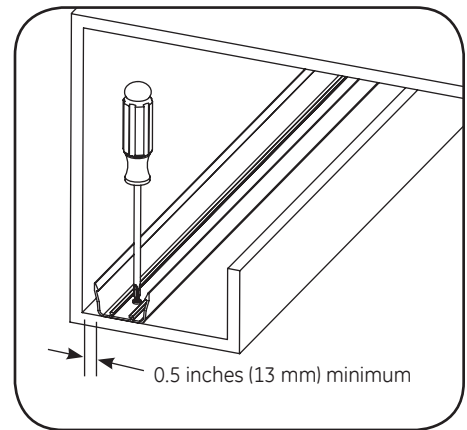
0° with shield



15°

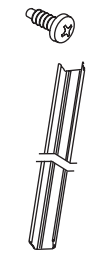


30°

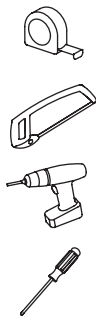


0.5 inches (13 mm) minimum

Materials



Tools

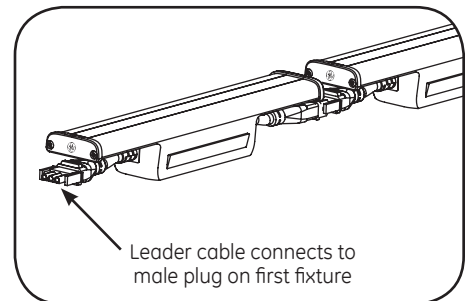


2

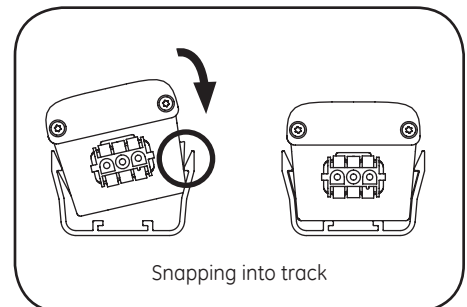
Install LED Cove Fixtures

- Unpack and lay out LED Cove fixtures along the layout of the mounting track.
- Connect the leader cable to the male plug on the first LED Cove fixture.
- Connect LED Cove fixtures together in series with the male plug of the fixture at the start of the run. You may connect all LED Cove fixtures together before snapping into mounting tracks. This makes access to connections easier.
- Connect female plug to male plug of next fixture in series.
- Locate series of LED Cove fixtures along mounting track until you are satisfied with location and positioning of the fixtures. Use jumper cable as needed to work around any obstacles, corners or separations.
- Press down back end first, then front end to snap the LED Cove fixtures into the mounting track. Ensure both locks are engaged.

Materials



Leader cable connects to male plug on first fixture

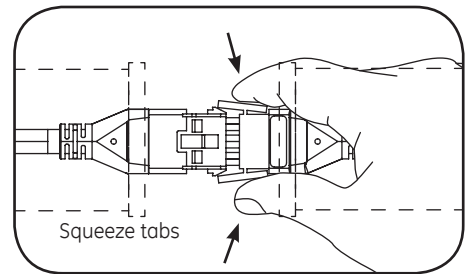
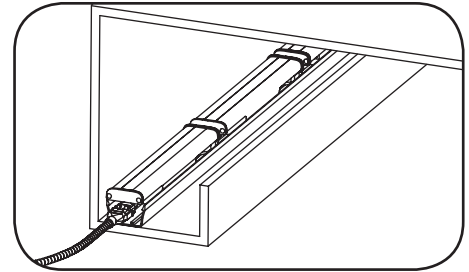


Snapping into track

- Work your way down the series of LED Cove fixtures, snapping them into place from the start to the end. Add dust cap from Leader Cable to the last female plug in the series.
- To adjust LED Cove fixtures along track, uninstall them from the track by pushing the front of the track open to release the fixtures, then adjust and snap back into place.

NOTE: Do not pull on the fixtures once installed into the mounting track. This will place tension on connecting cables the fixtures may not tolerate.

- To separate fixtures, squeeze the tabs on the male/female plug connectors.



3

Prepare Electrical Wiring

Materials



Electrical Requirements

This device must be connected to an individual properly grounded branch circuit, protected by a 15 ampere circuit breaker.



Electrical connection of leader cable(s) to 120VAC or 240VAC must be prepared by a trained, qualified personnel following all applicable state and national regulations.

Tools



⚠ CAUTION

Risk of damage to unit. Do not use 120VAC fixture in a 240VAC circuit or a 240VAC fixture in a 120VAC circuit.

⚠ CAUTION

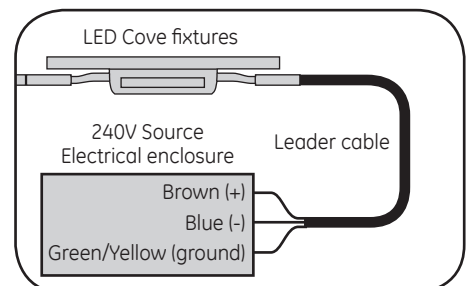
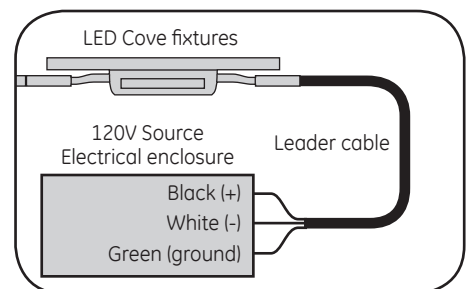
Risk of electrical shock. Disconnect power before install.

Circuits used for LED Cove fixtures may be switched or dimmed using standard electronic low-voltage (ELV) reverse phase control dimmers.

- The cut end of the leader cable will connect to the power source, while the female plug connects to the male connector on the first LED Cove fixture in the series.
- Cut leader cable to required length to go from power source to first fixture in series.
- Carefully strip back the outer insulation from the cut end of the leader cable exposing the three 16 AWG (1.31mm²) wires inside.
- Strip back the insulation on each of the wires 1/4-inch (6 mm) in order to attach to power source.
- Attach wires from leader cable to the following:

	120V	240V
- Line Voltage:	Black	Brown
- Neutral:	White	Blue
- Ground:	Green	Green/Yellow

- Energize the circuit and check the installation.



4 Troubleshooting

Symptom	Solution
All LED Cove fixtures are OFF	<ul style="list-style-type: none"> • Check AC input connection and/or check circuit breaker. • Check male/female plug connectors on the LED Cove fixtures for improper connection(s) or short circuits. • Ensure leader cable is securely connected to the male plug connector on the first LED Cove fixture.
Some of the LED Cove fixtures are not illuminated	<ul style="list-style-type: none"> • Check male/female plug connectors on the LED Cove fixtures for improper connection(s) or short circuits. • Ensure any jumper cables are securely connected between the male/female plug connectors of the LED Cove fixture.
Shadows within cove	<ul style="list-style-type: none"> • Re-position LED Cove fixtures along mounting track and ensure fixtures are securely locked into position. • Adjust layout of mounting track to ensure uniformity of illumination within the cove. • Adjust leader cable and/or jumper cable orientation to ensure cables do not cover any LEDs.

5 Specifications

SKU	Voltage	Maximum Run Length	IP Rating
73098 (LC12/727/120V) 73099 (LC12/730/120V) 74892 (LC12/741/120V)	120VAC	200 Fixtures (~200 ft./60.96m)	IP20 Dry Location Only
62193 (LC12/827/120V) 62194 (LC12/840/120V)	120VAC	200 Fixtures (~200 ft./60.96m)	IP51 Dry or Damp Location Only
73100 (LC12/727/240V) 73101 (LC12/730/240V) 73826 (LC12/741/240V)	240VAC	300 Fixtures (~300 ft./91.44m)	IP20 Dry Location Only
62197 (LC12/827/240V) 62198 (LC12/840/240V)	240VAC	300 Fixtures (~300 ft./91.44m)	IP51 Dry or Damp Location Only

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This Class [A] RFLD complies with the Canadian standard ICES-003. Ce DEFR de la classe [A] est conforme á la NMB-003 du Canada.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.



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