

WARNING — RISK OF ELECTRIC SHOCK

Disconnect power at the circuit breaker and verify the circuit is de-energized before installing or servicing this luminaire. Lock out and tag the circuit.

Installation must be performed by a qualified electrician in accordance with the National Electrical Code (NEC), NFPA 70, and all applicable state and local codes.

Before installation, consult your local ordinances and building codes for compliance. LAMAR LED assumes no responsibility for misapplication of fixtures.

Do not install a damaged luminaire. Do not modify the housing, driver, LED board, or factory wiring — doing so voids the UL certification and the warranty.

1. Before You Begin

Confirm the following before opening the ceiling or pulling wire. The catalog number on the fixture label is the authority for what was supplied.

- Match the catalog number. Compare the label on the housing to the approved submittal — series, size, power, lens, CCT and options.
- Verify supply voltage. The standard driver is universal input 120–277V. Confirm branch-circuit voltage falls within this range.
- Inspect the shipment. Check the housing, lens, and trims for shipping damage. Report freight damage before installing.
- Confirm the mounting method matches the structure (see table below). Verify the fixture as supplied is configured for the mounting condition on site.
- Verify ceiling support. The luminaire must be independently supported by the building structure where required by code — grid ceilings require seismic or safety wires per local requirements.
- Tools required. Power driver with the appropriate bit, wire strippers, listed wire connectors, tape measure, level, drywall saw or grid cutters, and an appropriate ladder or lift.

Mounting method	Typical application
T-bar or Grid Ceiling	Suspended T-bar / grid ceilings
Slot Grid T-bar Ceiling	Slot grid T-bar ceilings
Flanged (recessed into a finished ceiling)	Sheetrock, plaster, and concealed-Z ceilings

Each method is detailed in Section 5. Confirm which configuration was supplied before starting — mounting styles are not interchangeable in the field.

Mounting options as published: Ceiling Type options: G = Standard 15/16" T-Bar; SG = Slot-Grid T-Bar; F = Flanged (Dry-Wall); SF = Spackle-flange (Mud-in). "Adapts to most ceiling types — recessed T-bar, spackle (mud)-flange, visible-flange." Actual overall lengths: 22 in. nominal = LLSB22 = 22.00 in, 2' nominal nominal = LLSB24 = 22.88 in, 3' nominal nominal = LLSB36 = 34.32 in, 4' nominal nominal = LLSB48 = 45.75 in, 6' nominal nominal = LLSB72 = 68.60 in, 8' nominal nominal = LLSB96 = 91.50 in. Base module (LLSB) lengths. Widths: 2 = 2.5 in. (3.2 in. height), 4 = 4 in. (4 in. height), 6 = 6 in. (6 in. height), CW = custom width (consult factory). Corner modules: LLSC6 = 6.80 in. leg, LLSC11 = 11.30 in. leg, LLSC24 = 24.60 in. leg. Expansion: LLSE1 = 11.44 in., LLSE2 = 22.88 in. Joiner LLSJ = 3.00 in.

2. Prepare the Location

1. Lay out fixture locations from the reflected ceiling plan. Snap lines and confirm the run is square and level before cutting or drilling.
2. Size the opening to the actual fixture length, not the nominal length (see the note above). For continuous rows, verify cumulative dimensions across the full run.
3. In sheetrock or plaster ceilings, cut the opening and confirm framing or blocking is in place to receive the mounting hardware.
4. In grid ceilings, remove the ceiling tile and confirm the T-bar opening is the correct module. Do not remove main-runner support.
5. Route branch-circuit conductors to each fixture location, leaving 6–8 in. of free conductor. Support the whip or conduit independently of the luminaire.

3. Electrical Connection

1. Confirm power is off and locked out.
2. Open the fixture for access per its construction and retain all fasteners.
3. Select the knockout closest to the incoming feed. Knockouts are provided to suit the approach and to allow continuous through wiring in rows.
4. Install a listed connector or fitting in the knockout and bring conductors into the wireway. Protect conductors from the knockout edge.
5. Connect line, neutral, and ground to the corresponding fixture leads using listed wire connectors. Bond the equipment ground to the housing ground screw.
6. For control wiring, keep low-voltage dimming conductors separated from line-voltage conductors per NEC Class 1 / Class 2 requirements. See Sections 4 and 7.

4. Wiring Diagrams

A. Line-voltage supply and 0-10V dimming (options DTD)



5. Mounting

5A. T-bar or Grid Ceiling

1. Confirm the grid opening matches the fixture module and that main runners and cross tees are level and locked.
2. Lift the housing into the opening and lower it onto the T-bar so the grid clips engage the grid flange on both sides.
3. Verify every clip is fully seated. The clips are what hold the fixture to the grid — do not leave a clip partially engaged.
4. Install seismic restraint or safety wires to the building structure where required by local code. Do not rely on the grid alone if code requires independent support.
5. Confirm the fixture sits flat in the grid with no rocking and that the lens plane is flush with the adjacent ceiling.

5B. Slot Grid T-bar Ceiling

1. Confirm the slot grid system and slot width are correct for this fixture before setting it.
2. Lift the housing into the slot and engage the grid clips on the slot grid T-bar on both sides.
3. Sight down the run and adjust so the lens plane is flush and continuous with the adjacent slot grid ceiling components.
4. Add seismic restraint or safety wires as required by local code.

5C. Flanged (recessed into a finished ceiling)

1. Lift the housing into the prepared opening.
2. Secure the housing to the ceiling framing or blocking using the supplied mounting hardware. Fasteners are selected by the installer to suit the substrate and must be adequate for the fixture weight.
3. Level the housing and confirm the flange sits flat and tight against the finished ceiling with no gap or rocking.
4. Set any adjustable end flange trims to close the end gap. In continuous rows, adjust the trims so joints between fixtures align and read as one line.
5. For a concealed "Z" ceiling, coordinate the housing position with the Z channel so the flange lands on the finished plane.

6. Lens and Covers

1. Reinstall the wireway cover or access plate with the original fasteners. Confirm no conductor is pinched and the cover is fully seated.
2. Install or reseal the lens or diffuser as supplied. Handle acrylic and polycarbonate by the edges; do not force, flex sharply, or over-tighten against the lens.
3. Remove any protective film and clean fingerprints before closing out the ceiling.

7. Controls and Optional Equipment

Option	Installation requirement
DTD — 0-10V dimming	Land the violet (+) and pink (–) control leads on the 0-10V control circuit, observing polarity — see Diagram A. Verify the leads against the driver label: legacy stock may have a gray lead in place of pink, and gray must be re-identified with pink tape or paint. Do not connect control leads to line voltage.
Option	Installation requirement
LDH — Lutron EcoSystem dimming	Wire the EcoSystem digital link per the Lutron system drawings. The link is polarity-free but must be run as a Class 1 or Class 2 circuit per the controls submittal.
LLSJ-2	Joiner for 2.5" models T-Bar. Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.
LLSJ-4	Joiner (4" models) T-Bar. Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.
LLSJ-6	Joiner (6" models) T-Bar. Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.
LLSP	Perimeter Skirt Adjustable 0-6" (lengths 2/3/4/6/8 ft, IC = Inside Corner, OC = Outside Corner, E = Extender cut in field). Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.
LLSC	Corner Module — 90 deg (6.65", 11", 24" leg) or LLSCA adjustable 0-330 deg with 11" leg. Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.

Option	Installation requirement
LLSE	Expansion Module — LLSE1 up to 11", LLSE2 up to 22". Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.
LLSX	Cross Module (fully illuminated diffuser). Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.
LLST	T-Split Module (fully illuminated diffuser). Factory-supplied configuration. Verify the fixture as supplied matches the approved submittal, and confirm nothing interferes with the lens, gasket, or lens retention on reassembly.

Universal voltage 120-277V standard. Custom driver tuning available for specific lumen requirements. 0-10V or Lutron dimming optional. Tuned fixtures are factory-set and must not be adjusted in the field. Contact the factory for options not shown.

8. Start-Up Check and Maintenance

- Restore power and confirm the fixture energizes at full output.
- Sweep the dimming control from 100% to minimum and back; confirm smooth, flicker-free response with no dropout across the run.
- Sight the finished run for level, alignment, and consistent lens appearance; confirm color temperature is uniform across all fixtures.
- No routine relamping is required — the LED board and driver are the serviceable components. Disconnect power before any service.
- Clean the lens with a soft cloth and mild soapy water only. Do not use ammonia, solvents, or abrasive cleaners on acrylic or polycarbonate.
- Warranty: 5 years — part replacement only (see terms & conditions at www.lamarled.com). Listings and ratings as published: All electrical components are U.L. listed or recognized, All fixtures are U.L. Certified and Union made in the USA, Meets Build America, Buy America Act (BABA), RoHS Compliant, 80+ CRI, 90 CRI available.

QUESTIONS OR APPLICATIONS NOT COVERED HERE

Contact LAMAR LED at 631.777.7700 or visit www.lamarled.com. Due to the rapid advancements in LED technology, please consult our website for the most current technical data.