**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.
- Verify the supporting structure. Every suspension point must be anchored to building structure adequate for the fixture weight. Confirm the finished mounting height before hanging anything.
- Tools required. Power driver with the appropriate bit, wire strippers, listed wire connectors, tape measure, level, and an appropriate ladder or lift.

Mounting options as published: Cable mount (4′ AC cable included). Actual overall lengths: 2′ nominal = 23.125 in, 3′ nominal = 34.125 in, 4′ nominal = 46.000 in, 6′ nominal = 69.000 in, 8′ nominal = 92.000 in. 36 = 3′ nominal is a custom order on request — minimum order quantities apply.

## 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. For suspended runs, mark and verify every support point against building structure, and confirm the drop height clears doors, equipment, and traffic.
3. Route branch-circuit conductors to each fixture location, leaving 6–8 in. of free conductor. Support the whip or conduit independently of the luminaire.

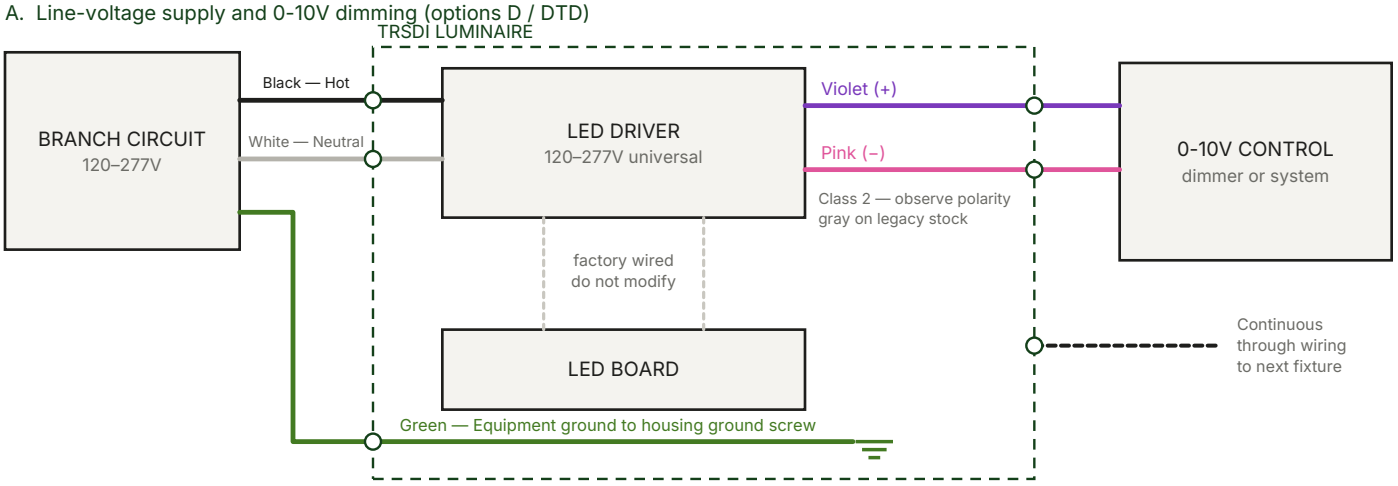
## 3. Electrical Connection

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.
7. Dress all conductors neatly inside the housing so nothing is pinched when the cover is reinstalled.

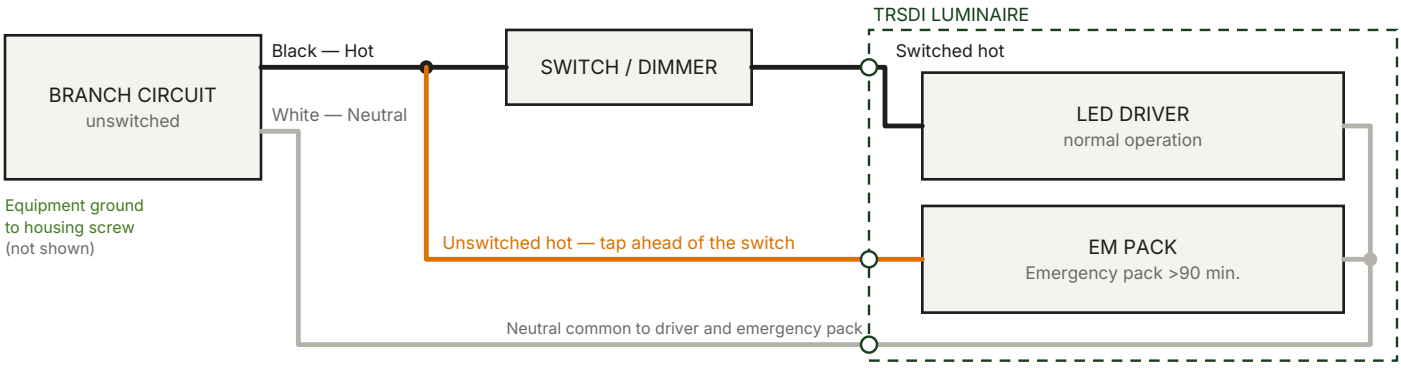
## 4. Wiring Diagrams

0-10V control conductor colors have changed. Effective January 1, 2022, NEC 2020 Article 410.69 prohibits colors reserved for the grounded conductor (white or gray) and the equipment grounding conductor (green) on field-connected control conductors.[1] NEMA Publication 100-2021 adopted pink in place of gray, making violet (+) and pink (–) the compliant 0-10V pair.[2] Legacy stock may still have a gray lead — see the wire color reference below.

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




B. Emergency pack connection (options EM / EMB)




Schematic; field connections only. Circles mark housing knockouts, each of which needs a listed connector or fitting.

### Wire color reference

| Conductor | Color | Notes |
|---|---|---|
| Line / hot | Black | Branch circuit, 120–277V. Switched hot where a switch or dimmer is used. |
| Neutral | White | Grounded conductor. Reserved color — never use for control conductors. |
| Equipment ground | Green or green/yellow | Bond to the housing ground screw. Reserved color — never use for control conductors. |
| 0-10V control (+) | Violet | Class 2 low voltage. Observe polarity. |
| 0-10V control (–) | Pink<br>gray on legacy stock | Pink replaces gray per NEMA Publication 100-2021.[2] Verify against the label on the driver supplied — legacy stock may still have a gray lead. A gray control lead must be re-identified with pink tape or paint where visible and accessible.[1] |
| Lutron EcoSystem digital link | Purple and purple/white (E1, E2) | Polarity-free. Confirm against the Lutron driver label and the controls submittal.[3] |
| Unswitched hot (EM / EMB) | Per project drawings | Tap ahead of the switch and dimmer so the pack senses loss of normal power. |

1. Electrical Contractor Magazine, “Color Coding Changes: NEC 2020 impacts 0–10V control wiring” — ecmag.com
2. Inside Lighting, “No More Gray: Low Voltage Wiring Changes” — inside.lighting
3. Lutron, “LED Driver Installation Best Practices Guide” (041827) — assets.lutron.com

## 5. Mounting

### 5A. Aircraft Cable Suspended

1. Confirm the finished mounting height and set the cable drops to a consistent length across the run.
2. Anchor each cable point to building structure with an anchor adequate for the fixture weight.
3. Suspend the fixture from all cable points, then adjust the grippers until the fixture is level along both axes.
4. Trim excess cable only after the run has been sighted and accepted.
5. Confirm the supply conductors are not carrying load and are protected where they enter the housing.

## 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 reseat 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 |
|---|---|
| D — 0-10V dimming<br>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. |
| EM — emergency pack | Emergency pack >90 min., >500 lumens (higher output & run time available - consult factory - 3′-8′ only). Connect the pack to an unswitched line-voltage source ahead of any switch or dimmer so it senses loss of normal power — see Diagram B. Allow a full 24-hour charge before testing. |
| EMB — emergency pack | BABA Compliant Emergency pack >90 min., >500 lumens. Connect the pack to an unswitched line-voltage source ahead of any switch or dimmer so it senses loss of normal power — see Diagram B. Allow a full 24-hour charge before testing. |
| AC6 | 6ft adjustable aircraft cable kit. 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. |
| AC8 | 8ft adjustable aircraft cable kit. 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. |
| AC10 | 10ft adjustable aircraft cable kit. 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. |
| 2C | 2 circuit operation (1up/1down) (4′-8′ only - no EM). 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. |
| BLK | Black metal construction (w/Black AC cable set). 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. |
| BOR | Beginning of run (6′ & 8′ only). Run-position configuration. The fixture is built for this position in a continuous row and cannot be changed in the field — set the row out in order and verify each housing against the submittal before fastening anything. |
| EOR | End of run (2′-8′). Run-position configuration. The fixture is built for this position in a continuous row and cannot be changed in the field — set the row out in order and verify each housing against the submittal before fastening anything. |
| INT | Intermediate (6′ & 8′ only). Run-position configuration. The fixture is built for this position in a continuous row and cannot be changed in the field — set the row out in order and verify each housing against the submittal before fastening anything. |

Universal voltage 120-277V standard. Custom driver tuning available for specific lumen requirements. 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.
- Allow a full 24-hour charge, then test emergency units by interrupting normal power and confirming transfer to the emergency pack for the rated duration.
- 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 our terms & conditions page at www.lamarled.com for details). Listings and ratings as published: All electrical components are U.L. listed or recognized, U.L. Certified, Union made in the USA, Meets Buy America Act (BAA), BABA Compliant.

### 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.