

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.

This luminaire is an enclosed, gasketed fixture. The enclosure rating (IP66, IP67) is only maintained if the gasket, diffuser, and all latches or fasteners are fully and evenly seated on reassembly. Do not substitute or omit the gasket, and do not install a fixture with a damaged or contaminated gasket surface.

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 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.
- Confirm the location suits the enclosure rating. Verify the gasket and diffuser are intact and clean before installing, and that any fittings used are listed for a wet or damp location.
- Tools required. Power driver with the appropriate bit, wire strippers, listed wire connectors, tape measure, level, and an appropriate ladder or lift.

Mounting method	Typical application
Rigid Conduit Mounted	Conduit-supported applications, including washdown areas
Surface Mounted to Ceiling	Direct ceiling mount on a finished or structural surface
Chain Hung	Chain-suspended applications

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: Rigid conduit mount or optional surface mounting brackets. Accessories: MB = Mounting brackets (pair); MBC = Mounting brackets with chain bail (pair); MBR = Mounting bracket for mounting to 3/8" threaded rod. Actual overall lengths: 4' nominal = 51.81 in. long, 7.33 in. wide. Available in 4 ft lengths (nominal). Dimension table lists two depths: 5.63 in. and 4.13 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. On surface-mounted runs, locate framing or install blocking so every fixture lands on structure. Mark mounting holes from the fixture itself rather than from the drawing.
3. For suspended runs, mark and verify every support point against building structure, and confirm the drop height clears doors, equipment, and traffic.
4. 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

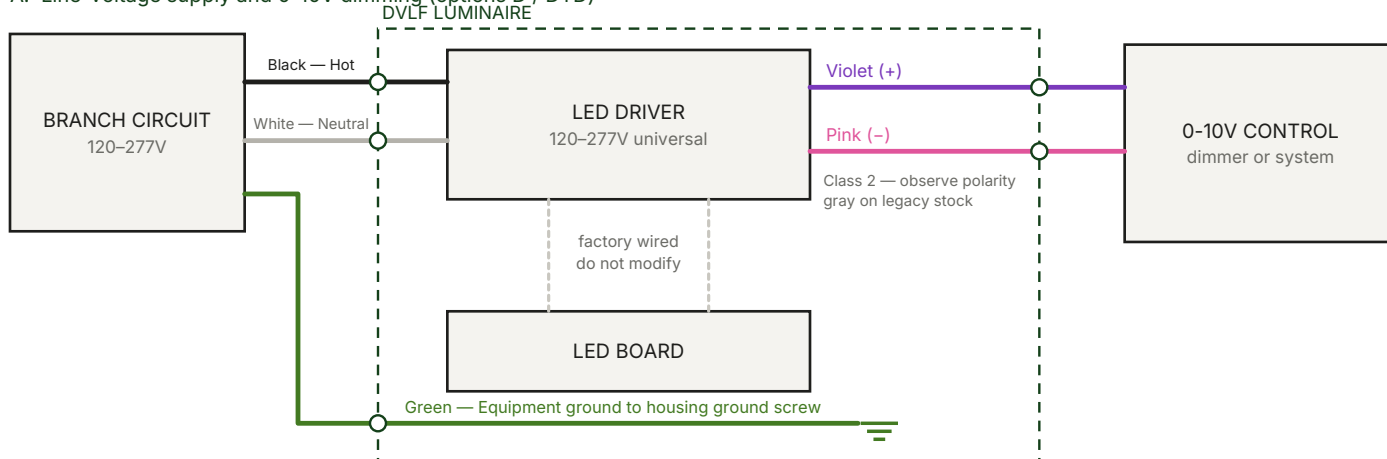
1. Confirm power is off and locked out.
2. Open the fixture for access per its construction, retaining all fasteners. Note how the diffuser and gasket seat so they can be restored exactly.
3. Select the entry closest to the incoming feed. Use only the provided entries — do not drill the housing.
4. Install a fitting listed for a wet or damp location in the entry and seal it per the fitting instructions. Any unused entry must be closed with a listed seal or plug or the enclosure rating is lost.

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.

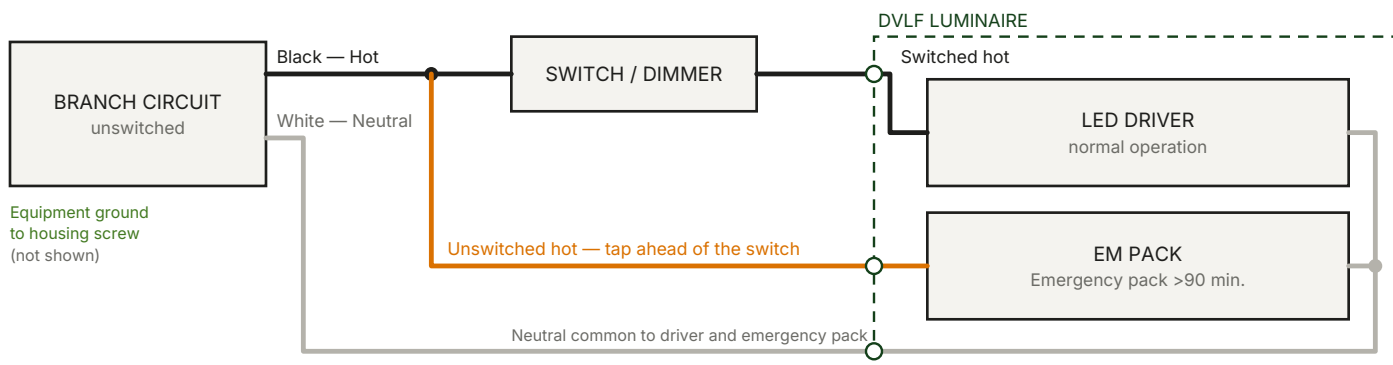
4. Wiring Diagrams

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 / ESRU)



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 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

Conductor	Color	Notes
Unswitched hot (EM / ESRU)	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

5. Mounting

5A. Rigid Conduit Mounted

1. Confirm the conduit layout and finished mounting height, and verify the conduit is independently supported per NEC requirements.
2. Thread the conduit into the fixture entry using a listed fitting appropriate to the location. In wet or damp locations the fitting must be listed for that use and sealed.
3. Support the conduit so the fixture is not carrying conduit weight and the assembly cannot rotate under its own load.
4. Pull conductors, leaving enough free conductor to make up connections without strain.
5. Level the fixture and confirm the assembly is rigid with no deflection along the run.

5B. Surface Mounted to Ceiling

1. Mark the fixture position and the mounting-hole locations from the reflected ceiling plan.
2. Locate structural framing, or install blocking or an approved anchor suited to the ceiling construction. The fixture must be supported by structure, not by the ceiling finish alone.
3. Bring the branch circuit into the housing through the knockout nearest the feed, using a listed connector or fitting.
4. Fasten the housing tight to the ceiling with fasteners appropriate to the substrate, then confirm it is level and does not rock.

5C. Chain Hung

1. Confirm the finished mounting height and cut or select chain to give a consistent drop across the run.
2. Anchor each chain point to building structure with a listed hook or anchor adequate for the fixture weight. Do not anchor to the ceiling finish alone.
3. Hang the fixture from both suspension points before connecting any conductor.
4. Route the supply so the conductors are not supporting the fixture and are protected from abrasion where they leave the housing.
5. Level the fixture and sight the run for consistent height.

6. Lens, Gasket and Covers

1. Confirm the gasket is clean, undamaged, correctly seated in its channel, and free of debris. A gasket that is pinched, twisted, or contaminated will not seal.
2. Reinstall the diffuser and close the latches or fasteners evenly, working in an alternating pattern so the gasket compresses uniformly along its full length.
3. Verify every latch or fastener is fully engaged and that the diffuser beds evenly with no visible gap. The enclosure rating (IP66, IP67) depends on this.
4. Confirm all unused entries are closed with listed seals or plugs.
5. Remove any protective film and clean fingerprints before closing out the ceiling.

7. Controls and Optional Equipment

Option	Installation requirement
D — 0-10V dimming 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
EM — emergency pack	Emergency pack >90 min., >500 lumens (low & med power 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.
ESRU — emergency pack	120V/277V emergency shunt relay. 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.
HF — sensor	High frequency occupancy sensor on/off (internal). Factory-set standby level. Confirm the setting matches the project requirements and walk-test the fixture before close-out. Change settings only by the method described in the sensor documentation supplied with the fixture.
HFAS — sensor	High frequency occupancy sensor adjustable standby 10, 20, 30 or 50%. Factory-set standby level. Confirm the setting matches the project requirements and walk-test the fixture before close-out. Change settings only by the method described in the sensor documentation supplied with the fixture.

Option	Installation requirement
MS — sensor	Infrared occupancy sensor externally mounted. Factory-set standby level. Confirm the setting matches the project requirements and walk-test the fixture before close-out. Change settings only by the method described in the sensor documentation supplied with the fixture.
SS	Stainless steel latches. 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.
TS	Tamper-proof stainless steel latches/screws. 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.
TP	Polycarbonate tamper-proof latches/screws. 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.
MB	Mounting brackets (pair) — order separately. 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.
MBC	Mounting brackets with chain bail (pair) — order separately. 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.
MBR	Mounting bracket for mounting to 3/8" threaded rod — order separately. 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. 0-10V dimming 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.
- Verify sensor coverage and walk-test each sensor. Confirm time delay and sensitivity settings match the project requirements, and that nothing obstructs the sensor.
- Sight the finished run for level, alignment, and consistent lens appearance; confirm color temperature is uniform across all fixtures.
- Inspect the gasket seal and latch engagement one final time. Where a washdown is expected, confirm the seal before the area is first cleaned.
- 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: UL Certified for wet locations, Union made, IP66/IP67 rated, NSF Splash Zone Compliant, NEMA 4X, High pressure hose test PSI 1500, Meets Buy America Act (BAA), BABA Compliant, 80+ CRI.

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.