

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, CCT/power and options (for example S-LED-4-44PS-8CSA).
- Verify supply voltage. The standard driver is universal input 120–277V. Confirm branch-circuit voltage falls within this range.
- Inspect the shipment. Check the steel housing and the frosted PMMA diffuser for shipping damage. Report freight damage before installing.
- Confirm the mounting method matches the structure (see table below). Surface mounting brackets are included; the V-hook and chain kit is option VHK.
- 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 method	Typical application
Surface Mounted	Direct mount on a finished or structural surface, using the included surface mounting brackets
Suspended (VHK)	Chain-hung applications using the optional V-hook and 40 in. chain kit (set of 2)

Each method is detailed in Section 5. The S-LED is suitable for installation within a clothes closet storage space.

Sizes as published: 2-25PS = 2' nominal, 22.20 in. long; 4-44PS = 4' nominal, 47.32 in. long; 8-90PS = 8' nominal, 94.17 in. long. All sizes are 2.36 in. wide x 2.65 in. high.

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 bracket lands on structure. Mark bracket locations from the fixture itself rather than from the drawing.
3. For suspended runs, mark and verify both support points 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 and retain all fasteners.
3. Select the entry closest to the incoming feed. Use only the provided entries — do not drill the housing.
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 fixture is closed.

4. Wiring and Field Settings

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.

4A. Line-voltage supply and 0-10V dimming (standard)

1. Connect the branch-circuit hot (black), neutral (white) and equipment ground (green) as described in Section 3.
2. Connect the driver's violet (+) and pink (–) leads to the 0-10V dimmer or control system. Observe polarity. Where no dimming control is used, cap each control lead individually; the fixture then runs at the selected power.

4B. Emergency pack (options EM5 / EM12)

1. Connect the emergency pack to an unswitched hot tapped ahead of any switch or dimmer, so the pack senses loss of normal power. The neutral is common to the driver and the pack.
2. Connect the switched hot to the driver for normal operation.

4C. Field-selectable CCT and power (8CSA)

Before energizing, set the COLOR SELECT and POWER SELECT settings on the fixture to the values called for on the drawings. Make selections with power disconnected, and set every fixture in the same space to the same values.

Setting	Selectable values as published
COLOR SELECT (CCT)	3500K, 4000K or 5000K
POWER SELECT — 2' (2-25PS)	15W, 20W or 25W
POWER SELECT — 4' (4-44PS)	18W, 28W or 44W
POWER SELECT — 8' (8-90PS)	54W, 75W or 90W
Conductor	Color and 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). Verify against the label on the driver supplied. A gray control lead must be re-identified with pink tape or paint where visible and accessible. ¹
Unswitched hot (EM5 / EM12)	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. Surface Mounted (brackets included)

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

5B. Suspended (option VHK — V-hook and 40 in. chain kit, set of 2)

1. Confirm the finished mounting height. Each kit supplies two V-hooks and two 40 in. chains — one per end of the fixture.
2. Anchor both support points to building structure, adequate for the fixture weight. Do not support the fixture from the ceiling finish.
3. Attach a V-hook to each fixture bracket, then hang each chain from its structural support using an S-hook, following the chain / S-hook / V-hook / bracket order shown on the specification sheet. Close each S-hook fully.

4. Suspend the fixture from both support points before making any electrical connection.
5. Level the fixture along its length and sight the full run for consistent height and alignment.
6. Confirm the supply conductors carry no load and are protected where they enter the housing.

6. Diffuser

1. Close the fixture with the original fasteners. Confirm no conductor is pinched.
2. Handle the frosted PMMA (acrylic) diffuser by its edges; do not force, flex sharply, or over-tighten against the diffuser.
3. Remove any protective film and clean fingerprints before closing out the space.

7. Controls and Optional Equipment

Option	Installation requirement
EM5 — emergency pack	Emergency pack >90 min., >500 lumens. Connect to an unswitched line-voltage source ahead of any switch or dimmer — see 4B. Allow a full 24-hour charge before testing.
EM12 — emergency pack	Emergency pack >90 min., >1400 lumens. Connect to an unswitched line-voltage source ahead of any switch or dimmer — see 4B. Allow a full 24-hour charge before testing.
OSPIR — sensor	Passive infrared occupancy sensor, mounted on the fixture. Confirm the sensor has a clear view of the area it controls. Adjust settings only by the method described in the sensor documentation supplied with the fixture.
VHK — suspension kit	V-hook and 40 in. chain kit (set of 2). See 5B.

Universal voltage 120-277V standard, 0-10V dimming standard. Consult the factory for additional options not shown or listed.

8. Start-Up Check and Maintenance

- Restore power and confirm the fixture energizes at the selected power.
- Confirm the COLOR SELECT setting is uniform across every fixture in the space.
- Operate the 0-10V control through its full range and confirm the fixtures dim smoothly and together.
- 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.
- Walk-test each OSPIR sensor and confirm its settings match the project requirements.
- No routine relamping is required — the LED board and driver are the serviceable components. Disconnect power before any service.
- Clean the diffuser with a soft cloth and mild soapy water only. Do not use ammonia, solvents, or abrasive cleaners on acrylic.
- 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, All fixtures are U.L. Certified.

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.