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, lens, driver, LED module, or factory wiring — doing so voids the UL listing and the warranty.

1. Before You Begin

The VANL-C is a corner/wall mount luminaire. Its quarter-round housing nests into the 90° junction of wall and ceiling and mounts flush to both surfaces on the concealed brackets supplied. The catalog number on the fixture label is the authority for what was supplied.

- Match the catalog number. Compare the label on the fixture to the approved submittal — length, power, CCT, finish, options and run configuration (for example VANL-C-48-M-40).
- Verify supply voltage. The standard driver is universal 120–277V. Confirm branch-circuit voltage falls within this range.
- Check the location. The VANL-C is UL listed for wet locations and IP64 rated. Operating ambient is -20°C to 40°C on most models — confirm with the label.
- Check the corner. The wall and ceiling must meet at a true 90° and be flat and sound along the full fixture length so the housing seats flush to both surfaces.
- Inspect the shipment. Check the housing, end caps, lens and finish for shipping damage, and confirm the mounting brackets were supplied. Report freight damage before installing.
- Tools required. The driver bit that fits the tamper-resistant lens screws supplied, power drill/driver, fasteners suited to the wall, wire strippers, listed wire connectors, tape measure, level, and an appropriate ladder or lift.

Item	As published
Model	VANL-C — Vandal Resistant Corner Mount Luminaire
Lengths (overall)	24 = 2′ (22.78 in.), 48 = 4′ (46.78 in.), 96 = 8′ (94.78 in.)
Profile	3.77 in. × 3.77 in. quarter-round housing; 3.96 in. × 3.96 in. at the end caps
Power (4000K)	2′: L 19W, M 24W, H 28W · 4′: L 26W, M 35W, H 43W · 8′: L 40W, M 57W, H 73W
Input / dimming	120–277V; 0–10V dimming standard

Refer to the Dimensions page of the specification sheet for the front, housing and end-cap drawings.

2. Prepare the Location

1. Lay out fixture locations along the wall/ceiling corner from the project drawings. For continuous runs, mark the full run length (see Section 6).
2. Mark the ceiling line on the wall at each fixture location. The brackets are secured to the wall at the ceiling line.
3. Locate structure, or install blocking, behind each bracket location. Align the brackets with structure; do not fasten to gypsum alone. Select fasteners suited to the substrate (concrete, masonry, steel or wood framing) as specified by the project engineer.
4. Install every bracket supplied with the fixture. Bracket spacing is not published on the specification sheet — follow any layout supplied with the brackets, or confirm spacing with the factory before drilling.
5. Route the branch circuit so it reaches the end-cap knockout of the feed unit, leaving 6–8 in. of free conductor. Support the conduit or whip independently of the luminaire.

3. Mounting

3A. Secure the mounting brackets

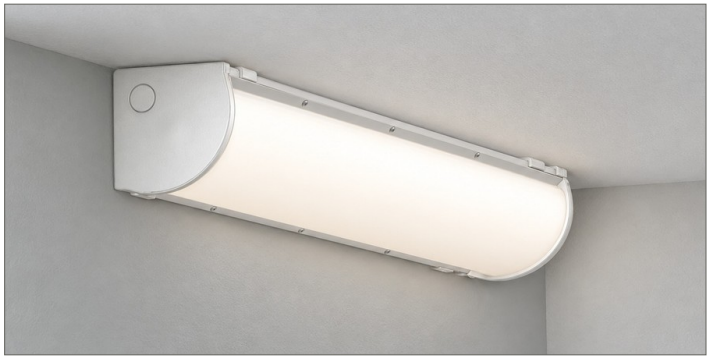
1. Hold each bracket to the wall at the ceiling line, aligned with structure.
2. Fasten each bracket to the wall with the fasteners selected in Section 2 so it sits tight to the wall and to the ceiling line.
3. Check that all brackets in a fixture or run are in line and level so the housing will seat evenly along its length.

3B. Seat the luminaire in the corner

1. Engage the housing on the brackets.
2. Seat the luminaire into the corner so it sits flush to both the wall and the ceiling, with no gap along its length. Where the optional neoprene gasket for the wall/ceiling interface was supplied, keep it in place and evenly compressed.
3. Confirm the housing is fully engaged on every bracket and does not rock or pull away from either surface.



Step 1 — brackets secured to the wall at the ceiling line.



Step 2 — luminaire seated flush to wall and ceiling.

4. Open the Lens and Make Connections

4A. Fixture opening method

1. Confirm power is off and locked out.
2. Loosen the tamper-resistant lens screws. Retain every screw — they are part of the vandal-resistant construction. (Option NLS units have no lens screws; skip this step.)
3. Push the lens to one end of the housing.
4. Pull the lens down at the opposite end to free it, and set it aside on a clean surface.

4B. Electrical connection

1. Bring the supply into the fixture through the end-cap knockout, using a listed connector or fitting. Do not drill the housing, end caps or lens. Protect conductors from the knockout edge.
2. Connect line, neutral and ground to the corresponding fixture leads using listed wire connectors. Bond the equipment ground to the fixture ground.
3. For control wiring, keep low-voltage dimming conductors separated from line-voltage conductors per NEC Class 1 / Class 2 requirements. See Section 5.
4. Dress all conductors neatly inside the housing so nothing is pinched by the lens or the end caps when the fixture is closed.

5. Wiring and Controls

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.

5A. Line-voltage supply and 0–10V dimming (standard; option DTD)

1. Connect the branch-circuit hot (black), neutral (white) and equipment ground (green) as described in Section 4.
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. Option DTD (0-10V dim to dark) wires the same way.

5B. Emergency pack (option EM)

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

Wire color reference:

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 fixture ground. 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 (EM)	Per project drawings. Tap ahead of the switch and dimmer so the emergency pack senses loss of normal power.

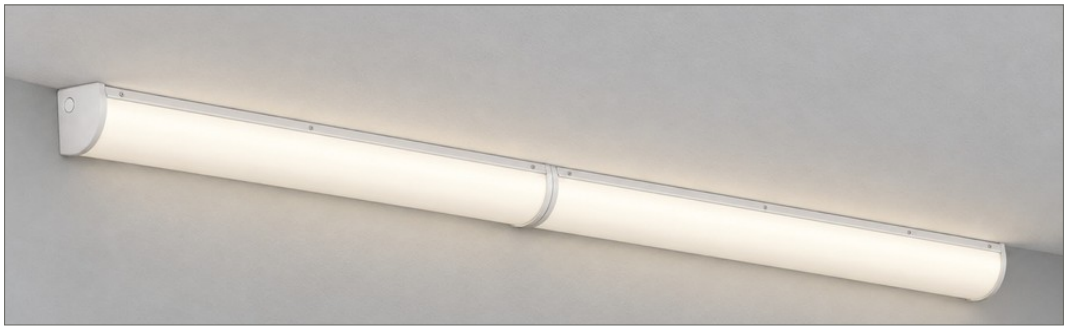
1. Electrical Contractor Magazine, "Color Coding Changes: NEC 2020 impacts 0–10V control wiring" — ecmag.com
2. Inside Lighting, "No More Gray: Low Voltage Wiring Changes" — inside.lighting

6. Continuous Runs

VANL-C units join end-to-end for continuous corner runs. Each unit's run configuration is the last field of its catalog number.

Run configuration	Position in the run
Blank — individual	Stand-alone fixture with both end caps. Install per Sections 2–4.
BOR — beginning of run	First unit of a run.
INT — intermediate	Unit installed between the BOR and EOR units. Order as many as the run length requires.
EOR — end of run	Last unit of a run.

1. Install the units in run order — BOR, then each INT, then EOR — checking the label on each unit before mounting it.
2. Mount the brackets for the whole run first (Section 3A) and confirm they are in line, so the joined housings seat straight and flush along the corner.
3. Seat each unit tight to the previous one with no gap at the joint.
4. Run lengths and feed locations are set by the factory for each order. Follow the run layout supplied with the order, or consult the factory.



Continuous corner run — units joined end-to-end.

7. Close the Lens

1. Confirm no conductor is near the lens edges or the end caps.
2. Check that the closed-cell gasket that seals the lens to the housing and end caps is clean, seated and undamaged. The gasket provides the IP64 and wet location rating — do not remove or cut it.
3. Reverse the opening method: engage the lens at one end, lift it into place at the opposite end, and slide it to center so it seats fully in the housing and end caps.

4. Retighten every tamper-resistant lens screw (not applicable to option NLS). Do not substitute standard screws, and do not over-tighten in an attempt to close a gap.
5. Remove any protective film and clean fingerprints from the lens.

8. Options

Option	Installation requirement
EM — emergency pack	>90 min., >500 lumens. Connect to an unswitched source — see 5B. Allow a full 24-hour charge before testing.
DTD — 0-10V dim to dark	Wire as standard 0-10V — see 5A.
NA — natatorium	Natatorium construction. Keep every gasket intact — see Section 7.
NLS — no lens screws	Lens is retained without lens screws. Skip the screw steps in Sections 4A and 7.
RAL-XX — custom color	Custom RAL color finish. Consult the factory for touch-up.
BOR / INT / EOR	Run configuration — see Section 6.
Neoprene gasket (optional)	For the wall/ceiling interface. Keep in place when seating the housing — see 3B.

120–277V standard, 0–10V dimming standard. Consult the factory for options not shown or listed.

9. Start-Up Check and Maintenance

- Restore power and confirm every fixture energizes.
- 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.
- To service, disconnect power and open the lens as described in 4A. No routine relamping is required.
- Clean the lens with a soft cloth and mild soapy water only. Do not use ammonia, solvents, or abrasive cleaners.
- Warranty: 5 years, part replacement only (see the terms and conditions at www.lamarled.com). Listings and ratings as published: UL listed for wet locations (CAN & USA, ANSI/UL1598 & UL8750), IEC60598 IP64, exceeding IK10. Meets Buy America Act (BAA), BABA compliant.

QUESTIONS OR APPLICATIONS NOT COVERED HERE

Contact LAMAR LED at 631.777.7700 or sales@lamarled.com, or visit www.lamarled.com.