

1" VersaLux LED Narrow Profile Slot

Series VLN1

Flush Lens, Internal Driver

Grid Trim Installation Instructions



OVERVIEW: VLN1 is a 1" aperture linear LED slot intended for recessed installation into a grid ceiling. The fixture is designed to be supported by hanging from structure above or by the grid itself, where code permits

Preparation

Install power feeds and structural support (threaded rod or hanging wire) at designated locations first – It is assumed that the ceiling grid will be in place. See approved submittal drawings for locations and dimensions.

WARNING:

- Do not drill through the sidewalls of the housing for any reason.
- Do not disassemble the removable Lighting Module(s) for any reason. There are no user serviceable parts within.
- Power and control wiring must be installed according to local electrical codes.

Unpacking (Figures 1 – 3)

Lighting Module(s) (Fig. 1) must be removed for installation. Locate the Notch (A) at one end of the Housing. Insert a small flat blade screwdriver into the Notch and twist to extend the Module from the Housing. The Module is held in place with spring loaded Swing Arms (B). Continue to pull Module down until the Swing Arm(s) are fully extended and locked in the open position. With the Module free, disconnect the DC power wires by pulling the Bullet Connectors (C) apart at both ends of the Lighting Module.

Figure 1

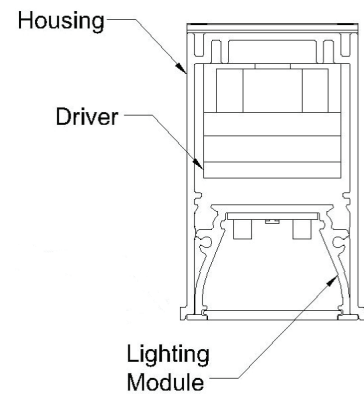
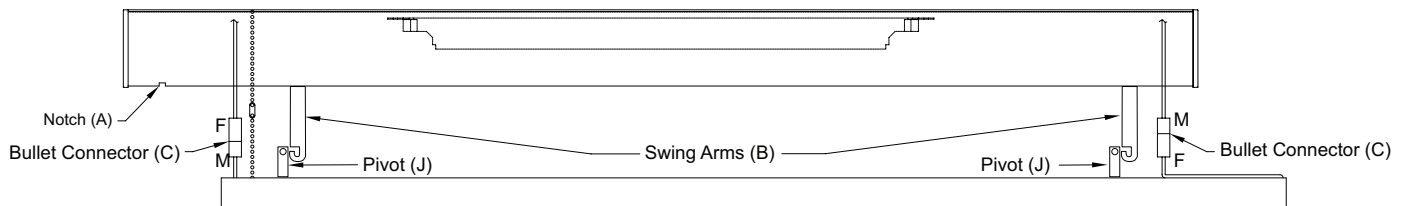


Figure 2

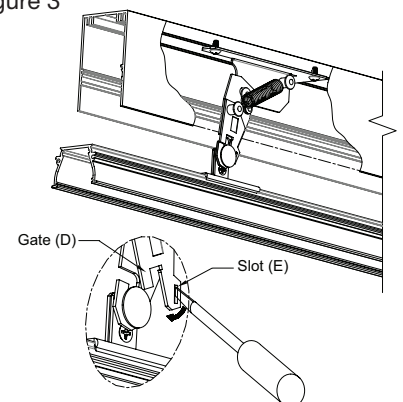


To detach the Lighting Module from the Swing Arms, (Fig. 3) first, open the Gate (D) by inserting a straight blade screwdriver in Slot (E) and turn slightly to clear the passage. Next, unhook the Lighting Module from the Swing Arms. Place the Lighting Module aside for later reinstallation after the Housings are mounted.

Notes:

1. Bullet Connectors are configured to be reconnected in the correct polarity only.
2. Lighting Module and Housing lengths are precision cut as a matched set and are labeled accordingly. Always return Lighting Modules to their designated Housings.

Figure 3



Dimensions

Refer to Figure 4 for 9/16" and Figure 5 for 15/16" grid member spacing and fixture height dimensions.

Mounting (Figures 4 – 6)

Ceiling grid and structural supports must be installed with correct opening in the grid for the fixture to be mounted.

Identify the fixture housing to be installed at the desired location. For a multi-section fixture, identify the first section housing (end cap on one end and open on the other end – typically the power feed section). For Grid Ceiling installations, electrical connections can generally be completed after the fixture is mounted (See wiring, Page 3).

Raise the fixture above the grid and lower it onto its adjacent grid members such that the foot of each adjusting bracket rests on top of the grid member and the keeper plates are on the outside of the grid member (Figures 4 & 5) If necessary loosen the screws on the adjusting bracket (Fig. 6) and raise or lower each edge of the fixture such that it is flush with the bottom of the ceiling grid member, then tighten the screws firmly.

Fixture securing is completed by either;

- 1) Inserting a structurally attached threaded rod through the hole in the mounting bracket and tightening top and bottom locking nuts while being careful not to disturb the fixture/grid alignment or
- 2) Inserting a structurally attached hanger wire through the hole in the mounting bracket and twisting it on itself while being careful not to disturb the fixture/grid alignment, or
- 3) If permitted by local code, allowing the fixture to be supported by the grid alone. In this case code often requires the fixture be locked to the grid so screws can be driven into holes on the side of the mounting bracket into the grid member.

Multi-Section Assembly Order & Mounting (Figures 7 & 8)

Install fixture sections according to assembly order indicated on fixture Labels. Position sections so matching labels are at the junction of the sections. Using the 5/32 Ball Head Allen driver provided, remove the 10-32 Jack Screw (Fig. 7 – F) from internal Joining Bracket (Fig. 7 – G). Now, raise the new housing into place, plug the Bus Connectors (Fig. 8 – H) together and slide the new section into the previous section. Be sure Bus Connector wires are tucked back into the housing and not pinched between sections. Install the Jack Screw through the hole in the Joining Spline (Fig. 7 – I) and thread into Joining Bracket (Fig. 7 – G). Use the Ball Head Allen driver to tighten the sections together, closing the gap. Screw next section to the blocking as described above. Continue until all housing sections are mounted.

Figure 4 – 9/16" Grid Member

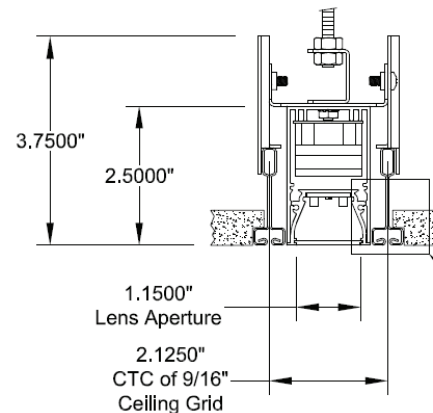


Figure 5 – 15/16" Grid Member

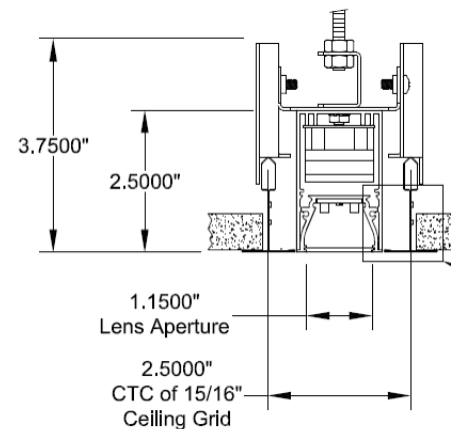
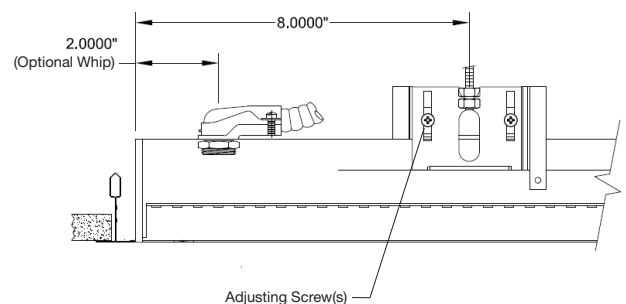


Figure 6



Wiring

If the fixture contains optional whip, attach it to the designated junction box and make the power and dimming connections in the junction box. If fixture is not equipped with a whip, attach locally supplied flexible conduit to the provided conduit connector through the 0.875" hole in the top of the housing and make power and dimming connections in the fixture housing according to table below.

Wiring Chart

Function	Standard 0-10V Dimming	Lutron Eco Dimming
Switched Line (120-277V)	Black	Black
Neutral	White	White
Ground	Green	Green
0-10V (+)	Purple	
0-10V (-)	Grey	
Dimmed Line		
E1		Purple
E2		Purple/White

Lighting Module Installation (Refer back to Figures 2 & 3)

Starting at the first section of a multi-section fixture, identify the Lighting Module for that Housing. Orient the Lighting Module so that the Bullet Connectors (Fig. 2 – D) mate (M/F pairs).

This should also align the lighting module Pivot (Fig. 9 – J) with the Swing Arms (Fig. 9 – K) being on the same side of the fixture.

Note: If the Swing Arm retracted during handling, you may need a needle nose pliers to grip the arm and pull it to the open position – Use caution as they will close with force.

Raise the Module in place and hook the Pivot on the Swing Arm.

Insert a screwdriver in the slot and close the Gate as shown in (Fig. 3).

Plug the Bullet Connectors at each end firmly together.

Push the Lighting Module so the Swing Arms begin to close – They will draw the Module into the Housing and hold it in place.

In multi-section fixtures, it is normal for Lighting Modules to extend beyond their Housing to aid in Housing alignment. Repeat this process for the next section until all Lighting Modules are installed.

Service and Repair

DO NOT attempt to repair fixtures without first consulting the factory. Improper repair actions will VOID the Warranty and may result in damage to the fixture components. Driver and LED components are custom configured at the factory. Generic replacements CANNOT be used – if parts need replacing, obtain from the factory; properly configured for each fixture. If directed to make a repair, TURN OFF POWER to the fixture before disassembly.

Lens Removal

Lenses should not be removed from the Lighting Module as there are no user serviceable parts within.

Figure 7

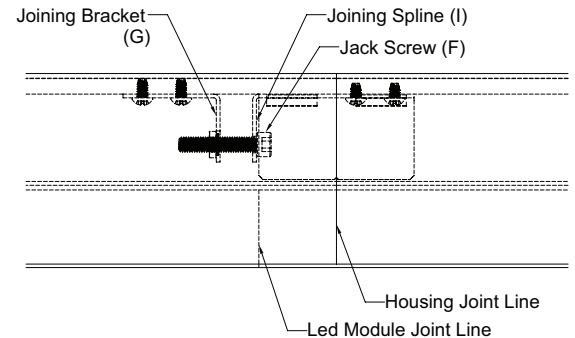


Figure 8

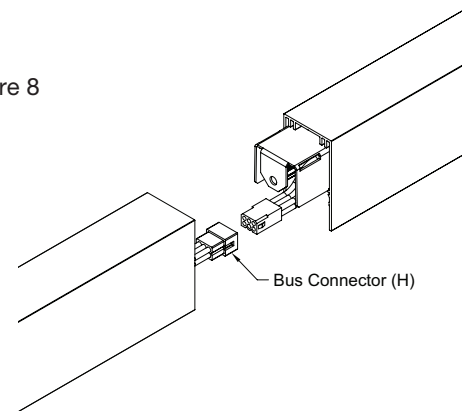


Figure 9

