1" VersaLux LED Narrow Profile Slot

Series VLN1

Flush Lens, Internal Driver

Plaster Flange Installation Instructions

OVERVIEW: VLN1 is a 1" aperture linear LED slot intended for recessed installation into a sheetrock ceiling. The fixture is supported by screwing it into structural blocking. VLN1 contains flanges to which sheetrock is attached for stability only – The fixture is not intended to act as a structural support for sheetrock. Be sure mounting method used meets all building codes. All fixture sections contain internal drivers.

Preparation

Install power feeds and structural blocking at designated locations first.
See approved submittal drawing for locations and dimensions.

(Trim Type: PA) Plaster Flange Above Ceiling (See Figure 1)
Install the fixture housing first, then bring the final sheetrock to the fixture edge.

(Trim Type: PB) Plaster Flange Below Ceiling (See Figure 2)
Install the sheetrock and make the appropriate cutout for the fixture to be inserted.

WARNING:

- Do not drill through the sidewalls of the housing for any reason. Depending upon mounting configuration, it is permissible to drill through the top of the housing to attach to structural blocking.
- 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.
- Blocking must be flat, level and properly recessed from ceiling surface so as not to distort fixture housing when mounting.

Unpacking

Fixture is shipped with Lighting Modules packed separately from the housing. Lighting modules and housings are precision cut to length as a matched set and labeled accordingly. Always install Lighting Modules in their designated housings. In multi-section fixtures, the removable lighting module may extend beyond the housing to help align sections and minimize light leak.

Do not remove the housing braces until directed to do so.

Dimensions

Refer to Figure 3 for ceiling opening dimensions.

Mounting

(Trim Type: PA) Plaster Flange Above Ceiling (See Figure 4)
Blocking is installed prior to fixture. Final sheetrock is installed after fixture is in place.

Identify the fixture housing to be installed at the desired location. For multi-section fixtures, identify the first section housing (end cap on one end and open on the other – typically the power feed section). Raise the housing to the Structural Blocking (A), drill and screw through the housing into blocking above. Depending upon ceiling conditions, electrical connections can be made before or after the housing has been mounted. (See Wiring on following page).

Figure 1

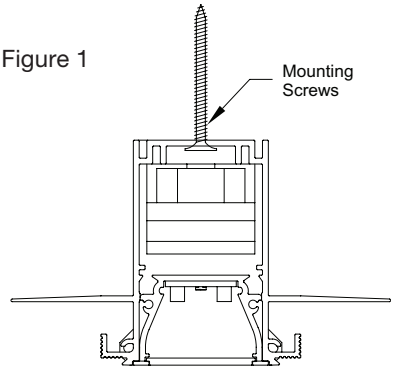


Figure 2

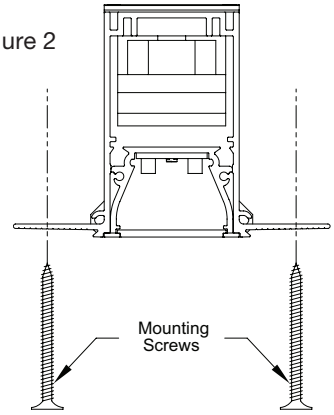
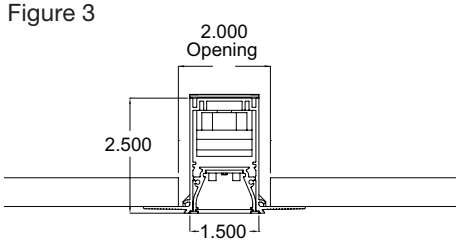


Figure 3



Mounting *(Continued)*

(Trim Type: PB) Plaster Flange Below Ceiling (See Figure 5)
Sheetrock and blocking are installed prior to fixture, then fixture is installed in opening.

Identify the fixture housing to be installed at the desired location. For multi-section fixtures, identify the first section housing (end cap on one end and open on the other end – typically the power feed section). Before raising the fixture make the electrical connection (See Wiring below). Raise the housing into the opening in the sheetrock and screw the housing through the plaster flange, through the sheetrock and into Structural Blocking (B) above the sheetrock at the sides of the fixture.

NOTE: Only screw through holes adjacent to the housing braces. Place screw in center of hole and ensure it is driven vertical. Incorrectly installed screws can distort the housing, which will interfere with lighting module insertion.

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 and make power and dimming connections in the fixture housing.

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

Multi-Section Assembly Order & Mounting (Figures 6 & 7)

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 (C) from internal Joining Bracket (D). Now, raise the new housing into place, plug the Bus Connectors (E) 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 though the hole in the Joining Spline (F) and thread into Joining Bracket (D). Use the Ball Head Allen driver to tighten the sections together, closing the gap. Screw next section to the blocking as described above.

Figure 4

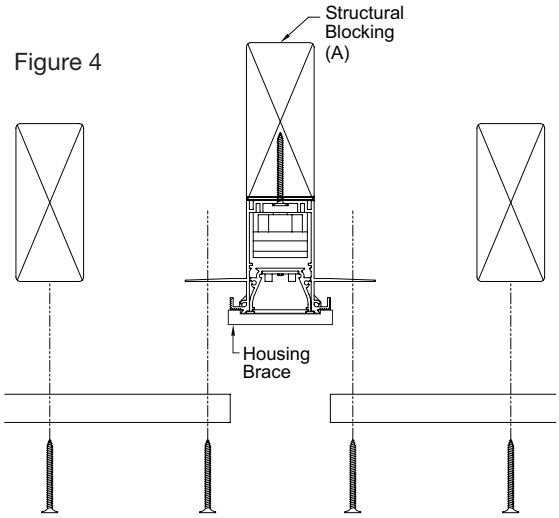


Figure 5

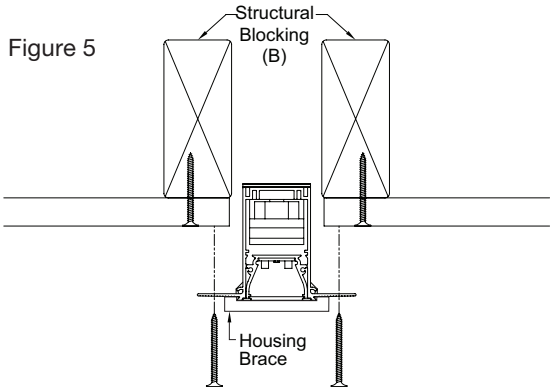
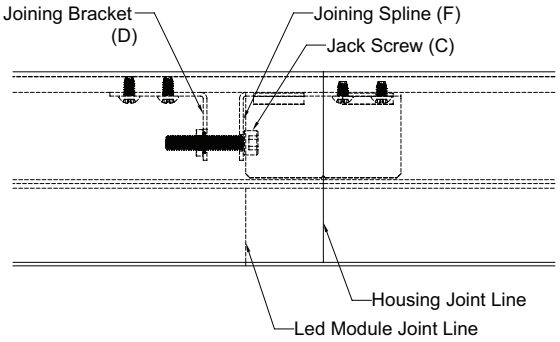


Figure 6

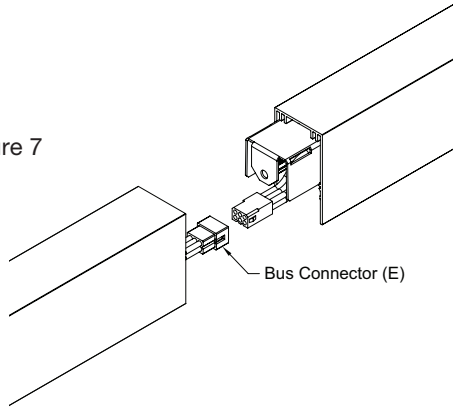


Ceiling Finishing

After all section housings are mounted, wiring installed, final sheetrock sections screwed to Plaster Flange Above Ceiling Trim (if used), remove the housing braces. Next, apply spackle from the edge of the housing over the mounting screws and onto the sheetrock. Sand and paint the ceiling before installing the Lighting Modules.

Note: Avoid getting spackle, paint or dust inside the housing as it will prevent installation of the lighting module and/or interfere with cooling the module.

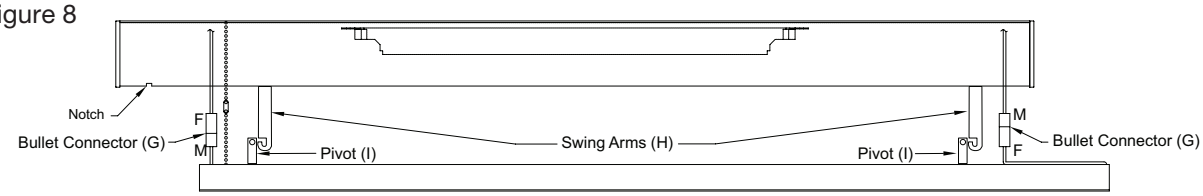
Figure 7



Lighting Module Installation (Figures 8 – 10)

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 (G) mate (M/F pairs).

Figure 8



Notes:

1) Bullet Connectors are configured to connected to the right polarity.
2) Swing Arm (H) and Pivot (I) must be on the same side of Housing.
3) Fixtures 4 foot or less have one Swing Arm. Longer fixtures have two.

Reach inside the housing and pull down the Swing Arm(s) to fully extend, (you may need a needle nose pliers to grip the Arm). Use caution as they are spring loaded and will close with force (Fig 10).

Raise Lighting Module and hook Pivot on the Hanging Bracket into the opening at end of the Spring Arm. Repeat at the other end of Module (Fig 10).

With a flat blade screwdriver close the Gates (J) on both Swing Arms preventing the Pivot from disconnecting from the arm. ***Note: It is essential the Gate be properly closed as this is the safety device.*** (Fig 10)

Plug the Bullet Connectors into their mating Connectors on both ends and tuck excess wire into the Housing so it will not interfere with the Lighting Module when retracted.

Swing the Lighting Module forward so the Spring Arms begin to close and slowly allow the Lighting Module to retract into the Housing. It should fully or close to fully retract, based on the distortion in the Housing. If it does not, be sure wires or other components are not interfering.

When closed, carefully slide the Lighting Module along the housing so it is properly positioned, either against the End Cap or against its adjacent Lighting Module.

Figure 9

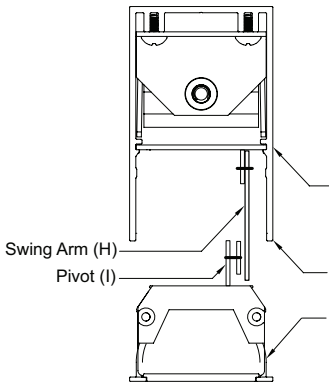
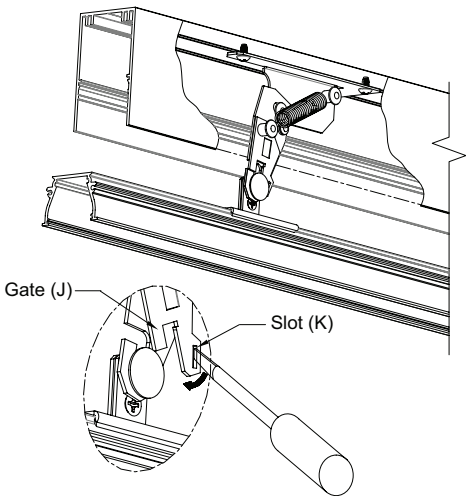


Figure 10



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.