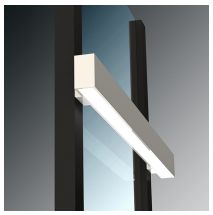
1" LED Linear Mullion Mount

Series BD

Direct Linear LED Mullion Mount Internal Driver - Wet Location

Installation Instructions



OVERVIEW: MDNW1 flush lens direct fixtures are intended to be installed on a mullion surface by attaching provided Mounting Brackets to the mullion structure. The power feed is provided by a conduit connector passed through the fixture Mounting Bracket. Multi-section fixtures are aligned and clamped together with joining hardware at each end-cap. Special sealants and gaskets allow for use in wet locations.

NOTE: Refer to electrical design for proper power and control circuiting

Preparation

Install conduit connector power feeds at designated locations inside the mullion structure first. See approved submittal drawing for locations. A supplied Mounting Bracket will be added over this connector and at the other required mullion mounting locations.

WARNING:

- Do not drill through side-wall of fixture for any reason.
- Some disassembly is required for fixture installation.
- Do not disassemble the lighting modules. No user serviceable parts inside.
- There is no vertical adjustment. Mounting locations and Conduit Connector must be installed at the correct and desired height.
- Power and dimming wiring must be installed according to local electrical codes.

Figure 1 - shows the overall fixture profile dimensions and specifically the vertical positioning of the power feed Conduit Connector at the feed location (typically one per run). Refer to approved submittal drawings for locations.

Step 1: Unpacking

Unpack fixtures from crates/boxes. Locate power feed section and note section labels. Refer to submittal drawing for assembly order. Sections are cut and wired for installation in designated positions only. Unless otherwise specified, lenses are packed with fixtures and labeled per fixture.

Note: Lenses and lighting modules are precision cut to fit into their respective housings. Lighting modules have connectors at each end that will only mate with the joining connector in the housing. If lighting module is removed, ensure all modules are reinstalled in their designated fixtures/sections, and in the correct orientation.

Step 2: Disassembly Figure 2

To mate joining sections and to make power and dimming connections in the power feed section, the lighting module must be removed from the fixture housing. If the section is a stand alone section insert a small flat blade screwdriver into the notch at the edge of the housing and twist (see Figure 2). The lighting module will pop out of the snap clips holding it in place. If the section is part of a multi-section run, just reach into the opening and pull the module free of its snap clips. Once the module is free, disconnect the single connector in the middle. Hold the body of the connectors then pull them apart.
Note: Do not pull on the wires, only the body of the connectors.
Place the lighting modules aside. Be sure to not mix up modules, so they are returned to their original housing and orientation.

Figure 1

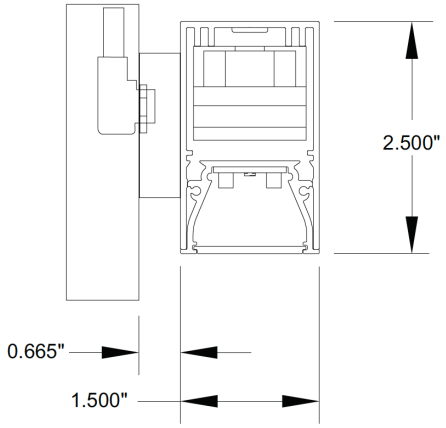
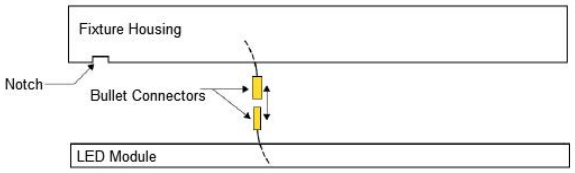


Figure 2



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Step 3: Fixture Mounting

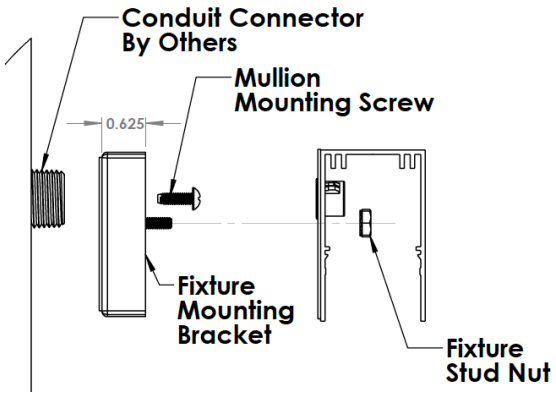
Note: Fixture section labels may become hidden as fixture sections are installed. Take note of section labels to ensure proper placement of fixture sections.

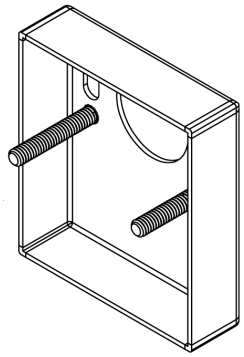
Single Section Fixtures

Single section fixtures need to be disassembled. If not previously done remove the lighting module from the fixture housing. This will expose the internal wiring and the mounting bracket hardware. (Figures 3)

Remove the two hex nuts to release the mounting bracket from the housing. This mounting bracket will be installed on the hollow mullion at the correct location. The wet rated power feed Conduit Connector must be installed and connected to the bracket (Figure 4). Once the wire is passed through, the bracket can be secured to the mullion.

Figures 3





Multi-Section Fixtures

Multiple section fixtures are made in pieces. Each section has an end-cap. Between each end-cap is a gasket to maintain the integrity of the waterproof seal. (Figure 5)

Identify the next section to be mounted. It will have a label matching the section that is already mounted. Remove the hex nuts from the wall brackets and fixture and attach the brackets to the wall in the proper positions. This process is the same as the single section fixture process.

Raise the new section into position. Reinstall the 2 nuts removed from the inside housing of each bracket. **Do not tighten them yet.**

The internal wire bus is fed through the two larger holes in each end-cap. One side of the wire bus has exposed wires. This will allow the wires to pass through. **Ensure the wiring bus is not caught in the seam.** Waiting inside the other fixture section, is a male and female connector. The bare wires must be plugged into the waiting connector. All wires must match to the corresponding wire bus. Each color corresponds to a numbered slot in the male and female connector.

1 - Black / 2 - White / 3 - Green / 4 - Purple / 5 - Pink.

Always double check that each color matches and connects properly.

Plug the wiring bus connectors together and tuck the wires into the housing so they will not interfere with the lighting module when it is reinstalled.

Repeat the process for the remaining sections.

Once all connections between fixture sections are made, tighten the end-caps (with gasket in between) so that they are closed tightly together. The hex nuts inside the fixture can now also be be secured tightly. This will fully secure the fixtures together and to the mullion.

Figure 4

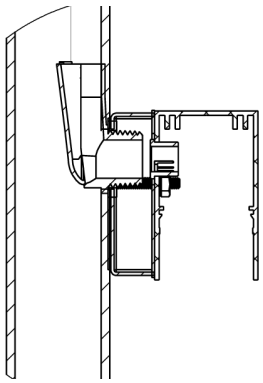
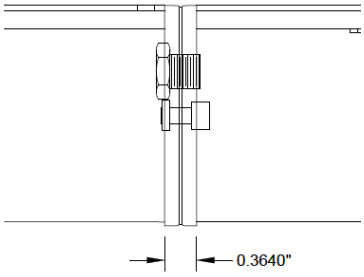


Figure 5



Step 4: Wiring

After the entire fixture run is mounted make connections from below according to the following table. Non-power feed sections receive their power and dimming control via an internal bus. DO NOT CUT OR MODIFY THE INTERNAL WIRING. The power feed should be connected through a waterproof conduit connector.

Wiring Color Codes

Function	Standard 0-10V Dimming	Lutron 3 Wire Line Dimming	Lutron Eco Dimming	DALI
Switched Line (120-277V)	Black	Black	Black	Black
Neutral	White	White	White	White
Ground	Green	Green	Green	Green
Intensity 0-10V (+)	Purple			
Intensity 0-10V (-)	Grey/Pink			
CCT (TW option only) 0-10V (+)	Purple/White			
CCT (TW option only) 0-10V (-)	Brown			
Dimmed Line		Orange		
E1			Purple/White	
E2			Purple	
D1				Purple/White
D2				Purple

Step 5: LED Lighting Module Reassembly

When all fixture sections are mounted and wiring connections are made, fixture components must be reassembled.

Identify the lighting module taken from its respective housing. Orient the module so the connectors are in the proper locations. Plug connectors together and tuck the wires in the housing.

NOTE: It is EXTREMELY important that the wire and connector is not interfering in any way with the internal metal snap clips. If anything is over or in between the module and the clips, the fixture will not seat properly. Raise the lighting module into place. Press firmly until it snaps into position. When the lighting module is fully engaged, it will click into place and will be flush to the housing. If it does not click into place, extract it and ensure all internal parts are properly secured and try again.

Repeat this process for any remaining sections.

Finish

Turn power on and test operation.

Service and repair

Do not attempt to repair these fixtures without first contacting the factory. Improper repair actions will void the warranty and can result in damage to the fixture components. Driver and LED components are custom configured at the factory. Generic replacements CANNOT be used. If any parts need replacing, they can be obtained from factory; properly configured for each fixture.

If directed to make a repair, turn off power to the fixture before disassembly. CAUTION – Some fixtures have multiple circuits running through the wiring compartment including un-switched circuits. BE SURE ALL POWER IS OFF.