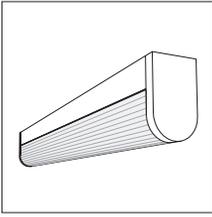


# 2" LED Direct Surface Mount Utility

Series SDU2

Direct Surface Mount Utility Fixture with Internal Driver

## Installation Instructions



**OVERVIEW:** Installation instructions are intended for single or multi-section surface mount fixtures.

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

### Preparation

Install power feed at knockout location on top of the fixture housing(s). If fixtures were ordered with Joiner option they have an internal power and dimming bus that plugs together so only one section in a joined run will have power and dimming connection.

### WARNING

Some disassembly is required. Only disassemble components if directed to. Power and dimming wiring must be installed according to local electrical codes. Blocking must be positioned at the designated mounting points and firmly affixed to building structure to support fixture weight and to comply with local codes.

### Unpacking

Unpack fixtures from crates/boxes. Joiner kits if ordered are packed separately from the fixture. Kits are universal and can be used at any section junction.

For multi-section runs, locate the power feed section and install this section first. Position this section's knock out under the power feed conduit.

Additional sections may be joined in any order.

### Mounting

While on the ground, remove the end caps by removing the acorn nuts or screws holding them in place (Fig1)

Squeeze the lens slightly and pull away from the fixture.

Remove the screws holding the LED tray in place. Lift off the tray and unplug it from the fixture. (Fig 2)

Note The LED trays and lenses should be returned to the housing they were removed from. Avoid interchanging them

Install the appropriate conduit connector (by others) in the knock-out location on the top of the housing. (Fig 2)

Raise the fixture and attach the conduit to the fixture. There should be at least 6 inches of the power feed and dimming wires exposed to make connections inside the fixture.

Now raise the fixture into its final position and screw the housing into structural blocking through the holes provided.

If this is a single section fixture proceed to Wiring step below

If this is a multi-section fixture

Disassemble the next section as described above

The power section will have a power buss running through the housing with a female connector at the end away from the power feed

Figure 1

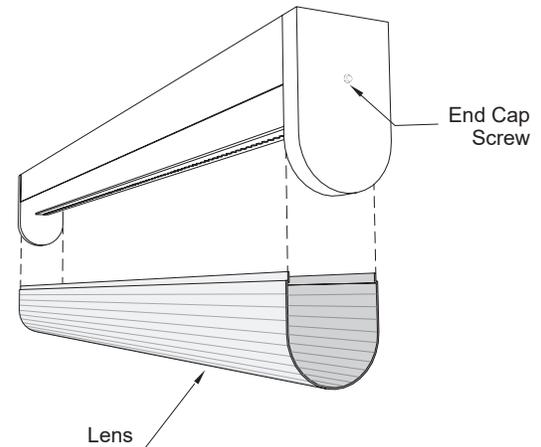


Figure 2

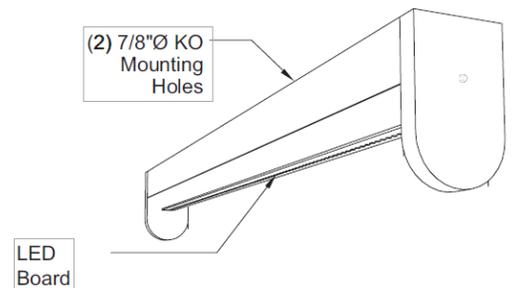
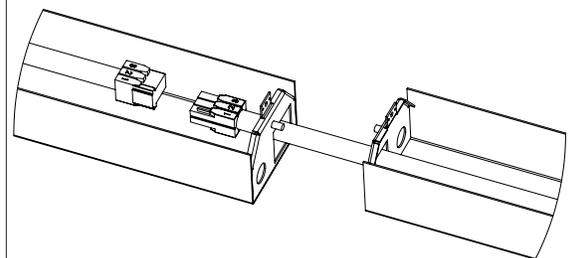


Figure 3



# 2" LED Direct Utility Surface

Series SDU2

Direct Surface Mount Utility Light with Internal Driver

## Installation Instructions

Orient the next section so its power feed bus has its male connector set to mate with the female connector on the previous section. (Fig 3)

Raise the new section into position and pass its male connector through the end plates and into the previous section

Now align the sections and screw the new section housing into structural blocking through the holes provided.

Plug the bus connectors together

Continue until all sections are mounted

### Wiring WIRING MUST CONFORM TO LOCAL CODES

#### Wiring Color Codes

Make connections from power and dimming feed to internal wires according the color codes in table shown in Fig 4

### Finishing

Reinstall the LED trays in the fixture sections they were removed from

Raise the LED tray to the fixture housing and plug it into the cable it was removed from.

Position the tray against the housing and reinstall the screws

If this is a multi-section fixture continue until all LED trays are installed

Testing; It is recommended that the fixture be tested at this point to ensure all wiring is correct.

Reinstall the lens(es) by squeezing slightly and pushing it into the housing until it snap fully into place

If this is a single section fixture - Reinstall the end caps on both ends

If this is a multi-section fixture - Reinstall the end caps on both ends. Other end caps can be discarded

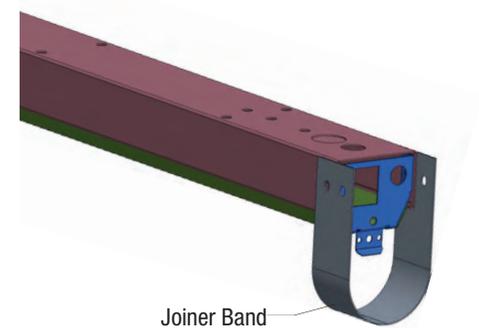
Install a joiner band from Joiner kit over the lenses where the sections join. (Fig 5)

Use screws provided to screw the joiner band into each fixture section on both sides

Figure 4

Function	Color
Switched Hot (120-277V)	Black
Neutral	White
Ground	Green
0-10V Dimming (+)	Purple
0-10V Dimming (-)	Grey or Pink
Unswitched Hot (120-277V) for EM Pack only	Orange

Figure 5



### EM Pack only

Fixtures equipped with EM Packs will have a test/indicator button installed in one end cap. Make sure the additional unswitched power feed is connected to the Orange wire in the SJ Cord.

After wiring, remove the end cap with the test/indicator button. Under the end cap are two wires with Bullet Connectors. Plug the Bullet Connectors together to enable the battery. The battery may take 6 hours to fully charge. Refer to EM Pack Operation Guide for testing and troubleshooting.

### Service and Repair

Do not attempt to repair 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 of parts need replacing, they can be obtained from the 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 before servicing.