Progressive Down Light 3

Installation Guide for 701948-5WTWT3, 701948-5WCWT3



Tools and supplies required: Cordless drill, adjustable end wrench (1.25 in (32 mm) minimum opening), putty knife, roof tar (not shown), tape measure, Phillips-head screwdriver, and twist-on or push-in UL Listed wire connectors for 14/18 AWG.



Optional tools: Sheet metal scissors/nibbler, 2 in (50 mm) metal diameter hole saw, pliers, wire stripper, tubing cutter, and SloanLED Installation Template (P/N 401398, shown below).

WARNING: Risk of electrical shock. Locate main circuit breaker panel for respective fixture(s) to be replaced, de-energize, and perform lockout/tagout prior to starting work. All primary wiring must be done by a licensed electrician.

Replacement Installation



1. Disconnect wiring from old fixture and remove fixture from canopy.



2. Clean installation area: Clean surface with a cloth and cleaning agent. Continue with Step 1 of New Installation.

New Installation



 As required, drill a hole in canopy at desired center of luminaire with 2 in (50 mm) diameter metal hole saw.



2. Mark drill holes:

Hold clear SloanLED Installation Template up to mounting area. Line up opening with circle on template. Use edges as guides to square template along canopy joint lines. Mark holes for mounting screws using small circles in template. Per IEC TR 62778, luminaire should be positioned so that prolonged staring into luminaire at a distance of 8.89 ft (2.71 m) is not expected.



Securing luminaire: Position luminaire on canopy or shoebox interface plate surface. Secure luminaire with four self-drilling sheet metal screws at previously marked locations. Optional interlocking glare bars can be attached to four holes in frame with #8 thread forming screws.

3.



NOTE:

New refers to mounting to a new/replaced canopy skin.

Replacement refers to complete removal and replacement of an existing fixture.

Retrofit refers to partial disassembly of external components and installation to remaining fixture shell (may be prohibited in EU).

Definition: Luminaire is a complete lighting unit; i.e., no replaceable lamp or bulb.

NOTE: The light source of this luminaire is not replaceable; when light source reaches end of life, the whole luminaire shall be replaced.



CAUTION, risk of electric shock

NOTE: SloanLED requires this fixture be installed on a Daylight Sensor or Timer Circuit that switches off during daylight hours to maximize energy savings and extend product life. Required for California Title 24 Compliance.

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 Mounting junction box: Mount junction box onto panel interlocking supports using mechanical fasteners or metal strapping so that it is elevated off lowest surface of canopy. Junction box can be mounted either on top of a joint or across two joints.

NOTE: Distance from luminaire to junction box should be no more than 18 in (460 mm) to ensure compliance with UL1598.

5. Mounting secondary conduit:

Place secondary cable in flexible conduit and slide flexible conduit onto conduit fitting on luminaire. Thread locknut loose on fitting. Do not tighten locknut yet.

NOTE: Use wrench to prevent conduit fitting from rotation during attachment of flexible conduit. Minimize mechanical strain on fitting as much as possible by placement of junction box relative to luminaire.

Secure other end of flexible conduit to junction box via supplied fitting and lock nut. After flexible conduit is secured in junction box, hand tighten locknut at luminaire conduit fitting. Tie a knot at end of secondary cable inside junction box.



6. **Connecting power supply:** Connect 701932 power supply using Power Setting Module (410164-2-125, 410164-2-100, or 410164-2-075) between luminaire and power supply, depending on desired luminaire wattage. When connecting 701932 power supply to customer provided 0-10VDC control, connect flying lead control module 410168 to 701932. Connect white flying lead to positive voltage control wire and green flying lead to negative (or return) control wire. Using twist-on or push-in UL Listed wire connectors, connect power supply to primary wiring.

NOTE: A Power Setting Module must be used when installing power supply or fixture will be damaged.

Color code: Line – Brown Neutral – Blue Ground – Green/Yellow



Ground

Symbol

EU ONLY: Connect primary wiring with suitable strain relief or terminal block. Incoming primary conductors should be between 1.5 mm² and 2.5 mm² copper area. Incoming primary cord should be suitable for application. **NOTE:** A licensed electrician shall make all primary and secondary connections.

Connecting 701932-150HC1 power supply: Connection to LED luminaire shall be installed by professional person. At least one pole of conductive parts in SELV circuit shall be insulated, capable of withstanding at least 500 V rms for 1 minute.

Connection of input and output terminals should be enclosed far away from water source.



No insulation permitted over luminaire or power supply.





Not intended for mounting in or on flammable surfaces. Minimum metal plate thickness for luminaire installation is 0.75 mm.



7. Turn on system:

Energize main circuit breaker. Confirm proper luminaire operation.



 Sealing luminaire: Install speed nuts (supplied) to all mounting screws. Using roof tar (or appropriate sealant), seal all holes, screws, and protrusions. For sealing larger areas, use roof tar fabric to prevent cracking.



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Retrofit Installation for 2 × 2 Fixture

NOTE: Luminaire may not be compatible to retrofit to all variations and styles of existing fixtures. Replacement may be required.

NOTE: For installations within EU, local requirements may prohibit retrofit installations. Check local requirements before proceeding with retrofit.



- 1. Remove lens from fixture and disconnect wiring inside fixture, ensuring enough wire to make a new connection.
- 2. Mechanically mount power supply to fixture with self-drilling sheet metal screws or with supplied cable ties. Connect power supply to primary wiring with twist-on or push-in UL Listed wire connectors. A licensed Electrician must be used to connect all wiring.
- Attach Shoebox interface plate (P/N 401397) to shoebox by drilling holes through interface plate into shoebox as necessary. Self-drilling sheet metal screws are provided and will be suitable for many applications.

NOTE: A licensed electrician must be used to make all primary and secondary connections between luminaire and power supply.

- 4. Securing luminaire:

Secure luminaire to interface plate with four self-drilling sheet metal screws. Optional interlocking glare bars can be attached to four holes in frame with #8 thread forming screws. Per IEC TR 62778, luminaire should be positioned so that prolonged staring into luminaire at a distance of 8.89 ft (2.71 m) is not expected.



 Turn on system: Energize main circuit breaker. Confirm proper luminaire operation.



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150 Watt 48 VDC power supply capacity chart for Progressive Down Light 3

	Input		Output		
Part number	Nominal input voltage	Input current	Power output limit	Output current limit	Luminaire per power supply
701932 and 410164-2-125	100-277 VAC, 50-60 Hz	2.0 A at 110/220 VAC	125 W	2.6 A	1
701932 and 410164-2-100	100-277 VAC, 50-60 Hz	2.0 A at 110/220 VAC	100 W	2.0 A	1
701932 and 410164-2-075	100-277 VAC, 50-60 Hz	2.0 A at 110/220 VAC	75 W	1.6 A	1
701932 and 410168	100-277 VAC, 50-60 Hz	2.0 A at 110/220 VAC	User setting 125 W max	User setting 2.6 A max	1

NOTE: When using 701932 power supply, use of Power Setting Module P/N 410164-2-125, 410164-2-100, 410164-2-075 or 410168 is required to maintain warranty consideration. Consult factory for control voltage settings. Failure to obtain control voltage settings from factory voids warranty.

Troubleshooting

Luminaire does not light after complete installation.	Check connection from power supply lead to luminaire. Verify all pins in connectors are properly seated.
Still does not light.	Disconnect luminaire from power supply. Check output voltage of power supply using a voltmeter. Output voltage should be 50 VDC+/-0.5 VDC. If there is no output voltage, have a licensed electrician check input voltage. Ensure power supply is connected correctly and getting primary power. If power supply is connected properly and getting primary power and there is still no output voltage, replace power supply.
Still does not light.	If power supply is getting primary power, has correct output, and luminaire does not light, there may be a short in secondary wiring. Check all connections and condition of wires. Measure luminaire input resistance across red and black leads. This should be an open circuit on typical handheld multimeters.

US patents and foreign patents pending

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